156 TILLARY STREET

BROOKLYN, NEW YORK

Remedial Investigation Report

NYC VCP Site Number: TBD

NYC OER Project Number 14EH-N486K

Prepared for:

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REMEDIAL INVESTIGATION REPORT

TABLE OF CONTENTS

FIGURES 3
LIST OF ACRONYMS 6
CERTIFICATION 7
EXECUTIVE SUMMARY 8
REMEDIAL INVESTIGATION REPORT 12
1.0 SITE BACKGROUND 12
1.1 Site Location and Current Usage 12
1.2 Proposed Redevelopment Plan 12
1.3 Description of Surrounding Property 13
2.0 SITE HISTORY 14
2.1 Past Uses and Ownership 14
2.2 Previous Investigations 14
2.3 Site Inspection 14
2.4 Areas of Concern 14
3.0 PROJECT MANAGEMENT 15
3.1 Project Organization 15
3.2 Health and Safety 15
3.3 Materials Management 15
4.0 REMEDIAL INVESTIGATION ACTIVITIES 16
4.1 Geophysical Investigation 16
4.2 Borings and Monitoring Wells 16
4.3 Sample Collection and Chemical Analysis 17
5.0 ENVIRONMENTAL EVALUATION 21
5.1 Geological and Hydrogeological Conditions 21
5.2 Soil Chemistry 21
5.3 Groundwater Chemistry 23
5.4 Soil Vapor Chemistry 24
5.5 Prior Activity 24
5.6 Impediments to Remedial Action 24

FIGURES

List of Figures

1. Site Location Figure

2. Site Plan

3a. Redevelopment Plan (Cellar)

3b. Redevelopment Plan (1st Floor)

3c. Redevelopment Plan (Mezzanine)

4. Map of Surrounding Area Use

5. Location of Soil Borings, Wells, and Soil Gas Samples

6. Map of Soil Analytical Results

7. Map of Groundwater Analytical Results

TABLES

List of Tables

1. Soil Boring and Temporary Well Construction
2. Soil Analytical Results
3. Groundwater Analytical Data
4. Soil Vapor Data

APPENDICES

List of Appendices

1. Phase 1 Report
2. Soil Boring Geologic Logs
3. Laboratory Data Deliverables for Soil, Groundwater, and Soil Gas Analytical Data

LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Robert Wolff, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 156 Tillary Street Project, (NYC VCP Site No. TBD). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Robert Wolff 8/14/14

Qualified Environmental Professional Date Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 156 Tillary Street in the downtown section of Brooklyn, New York and is identified as Block 133 and Lot 15 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 5,831-square feet and is bounded by Tillary Street to the north, a newly constructed 13-story hotel to the west, a five-story brick and concrete building to the south, and a one-story concrete block garage to the east. A map of the Site boundary is shown in Figure 2. Currently, the Site houses a four-story vacant brick building (scheduled for demolition in late summer 2014). A small alley with access from Duffield Street (to the west) is present along the southern site boundary.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of a 20-story brick masonry building which will be utilized as a hotel. Layout of the proposed site development is presented in Figure 3a through 3c. The current zoning designation is C6-4 which permits a wide range of commercial uses; these properties are typically mapped within the city's major business districts. The proposed use is consistent with existing zoning for the property. Currently, the Site houses a vacant four-story brick masonry building.

The proposed building will have a basement consisting of mechanical rooms for utilities; a large kitchen, two meeting rooms, bathrooms, and a corridor open to the first floor. The first floor (ground level) will house restaurants, storage areas, and an open air courtyard with restaurant seating. Guest rooms for the hotel begin on the second floor. No landscaped areas are planned at the site.

Excavation activities for the proposed redevelopment will entail excavating the entire site footprint to a minimum of sixteen feet below current grade to allow for the basement slab. Other

areas of the site will be excavated to between twenty to twenty-five feet below grade to allow for elevator and stairwell pits.

Summary of Past Uses of Site and Areas of Concern

URS conducted a Phase I Environmental Site Assessment (ESA) of the property at 156 Tillary Street in December 2012. According to the records reviewed at the time, the subject property had been vacant for at least the past twenty years. Prior to that, the Site was used as a furniture storage warehouse and as the "Manhattan Drug Company." It was not clear during the records review whether the Site was used to manufacture pharmaceuticals or to store them. The historical use as a "drug company" was considered a REC.

The AOC identified for this site include:

- Site History – Records indicate that the subject property had previously housed a drug and cosmetics company.

Phase 1 ESA Report is presented in Appendix A.

Summary of the Work Performed under the Remedial Investigation

URS performed the following scope of work in May of 2014:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed seven soil borings across the entire project Site, and collected fifteen soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three temporary groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples and one blind duplicate sample for chemical analysis to evaluate groundwater quality;
4. Installed three soil vapor probes through the existing basement floor and collected three samples and one outdoor ambient air sample for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property ranges from thirty-one feet to twenty-six feet.
2. Depth to groundwater ranges from 25 to 27.5 feet at the Site.

3. Groundwater flow is generally southwest to northeast beneath the Site.

4. The stratigraphy of the site, from the surface down, consists of five to fifteen feet of fill underlain by fifteen to twenty feet of gravelly sands.

5. Soil/fill samples results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives and Restricted Residential Soil Cleanup Objectives as presented in 6NYCRR Part 375-6.8 and CP51. Soil/fill samples showed no PCBs in any of the soil samples. Trace concentrations of several VOCs were noted in seven of the samples; however none exceeded Unrestricted Use SCOs. Several SVOCs consisting of Polycyclic Aromatic Hydrocarbons (PAHs) including benz(a)anthracene (max. of 27,000 µg/kg), benzo(a)pyrene (max. of 21,000 µg/kg), benzo(b)fluoranthene (max. of 29,000 µg/kg), benzo(k)fluoranthene (max. of 6,700 µg/kg), chrysene (max. of 22,000 µg/kg), indeno(1,2,3-c,d)pyrene (max. of 10,000 µg/kg) and dibenz(a,h)anthracene (max. of 2,700 µg/kg) were found within three samples exceeding Restricted Residential Use SCOs. The pesticide alpha chlordane (120 µg/kg) was found in one soil sample exceeding Unrestricted Use SCOs. Several metals exceeded Restricted Residential Use SCOs and included: arsenic detected in all samples at maximum of 660 mg/Kg, barium exceeding in two samples at maximum of 630 mg/kg, chromium trivalent exceeding in two samples (max. of 560 mg/kg), copper exceeding in three samples (max. of 1,200 mg/kg), lead exceeding in three samples (max. of 1,200 mg/kg), and mercury exceeding in eight samples (max. of 170 mg/kg).

6. Groundwater samples results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Groundwater samples showed no PCBs or pesticides in any sample. Several VOCs were detected at trace concentrations and below their GQS. Six SVOCs including 1,1'-biphenyl (32 µg/L), acenaphthene (32 µg/L), benz(a)anthracene (3.9 µg/L), bis(2-ethylhexyl)phthalate (7.1 µg/L), chrysene (4.7 µg/L), and phenanthrene (94 µg/L) exceeded their GQS in one sample. Several metals were identified and only arsenic, selenium, and sodium exceeded their respective GQS in all four samples. Arsenic exceeded GQS of 25 ug/L in all samples ranging from 450 ug/L to 1,400 ug/L.

7. Soil vapor results collected during the RI were compared to the compounds listed in Table 3.1 Air Guideline Values Derived by the NYSDOH located in the New York State

Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion, dated October 2006. Total concentrations of petroleum-related VOCs (BTEX) ranged from 69.4 $\mu g/m^3$ – 97.2 $\mu g/m^3$. Chlorinated VOCs including TCA was detected at 1.8 $\mu g/m^3$, Trichloroethylene (TCE) was detected at 12.9 $\mu g/m^3$, and Tetrachloroethylene (PCE) was detected at between 5.7 $\mu g/m^3$ and 43 $\mu g/m^3$. The concentration of TCE is within the monitoring guidance matrix established by NYSDOH.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Brooklyn LW Hotel Associates, L.P. has applied to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.14-acre site located at 156 Tillary Street in the downtown section of Brooklyn, New York (Site). A commercial use (hotel) is proposed for the property. The RI work was performed on May 19 and May 20, 2014. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 156 Tillary Street in the downtown section of Brooklyn, New York and is identified as Block 133 and Lot 15 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 5,831-square feet and is bounded by Tillary Street to the north, a newly constructed 13-story hotel to the west, a five-story brick and concrete building to the south, and a one-story concrete block garage to the east. A map of the Site boundary is shown in Figure 2. Currently, the Site houses a four-story vacant brick building (scheduled for demolition in late summer 2014). A small alley with access from Duffield Street (to the west) is present along the southern site boundary.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of a 20-story brick masonry building which will be utilized as a hotel. Layout of the proposed site development is presented in Figure 3a through 3c. The current zoning designation is C6-4 which permits a wide range of commercial uses; these properties are typically mapped within the city's major business districts. The proposed use is consistent with existing zoning for the property. Currently, the Site houses a vacant five-story brick masonry building.

The proposed building will have a basement consisting of mechanical rooms for utilities; a large kitchen, two meeting rooms, bathrooms, and a corridor open to the first floor. The first floor (ground level) will house restaurants, storage areas, and an open air courtyard with

restaurant seating. Guest rooms for the hotel begin on the second floor. No landscaped areas are planned at the site.

Excavation activities for the proposed redevelopment will entail excavating the entire site footprint to a minimum of sixteen feet below current grade to allow for the basement slab. Other areas of the site will be excavated to between twenty to twenty-five feet below grade to allow for elevator and stairwell pits.

1.3 Description of Surrounding Property

Based on a review of the NYC SPEED application as well as the NYC Zoning and Land Use GIS database, the neighborhood in the vicinity of the Site is predominantly mixed commercial/residential with recent redevelopment. There is a high school located 400 feet west across Flatbush Avenue. There are no hospitals or day care facilities within a 500-foot radius of the Site.

Figure 4 displays the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

URS conducted a Phase I Environmental Site Assessment (ESA) of the property at 156 Tillary Street in December 2012. According to the records reviewed at the time, the subject property had been vacant for at least the past twenty years. Prior to that, the Site was used as a furniture storage warehouse and as the "Manhattan Drug Company." It was not clear during the records review whether the site was used to manufacture pharmaceuticals or to store them. The historical use as a "drug company" was considered a REC.

2.2 Previous Investigations

To the best of URS' knowledge, no investigations, other than the aforementioned Phase I ESA, have been performed at this Site.

2.3 Site Inspection

URS conducted a site inspection on December 20, 2014 prior to preparing the Phase I ESA report for the property. At the time of the inspection, the lot was developed with a vacant four-story commercial/manufacturing building. The inspection revealed the presence of hazardous substances including six-five gallon buckets of likely used oil or grease on the ground floor and in the basement. A sump was present in the basement, but no significant staining or odors were observed by URS personnel.

2.4 Areas of Concern

The AOC identified for this site include:

- Site History – Records indicate that the subject property had previously housed a drug and cosmetic company.

Phase 1 ESA Report is presented in Appendix 1.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Robert Wolff. The Field Scientist responsible for the Phase II field work was John Crespo.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

URS performed the following scope of work in May of 2014:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed seven soil borings across the entire project Site, and collected fifteen soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three temporary groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples and one blind duplicate sample for chemical analysis to evaluate groundwater quality;
4. Installed three soil vapor probes through the existing basement floor and collected three samples and one outdoor ambient air sample for chemical analysis.

4.1 Geophysical Investigation

A geophysical survey was not performed at the Site because the entire site footprint is covered by concrete slabs. Re-enforced concrete interferes with ground penetrating radar.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

In May 2014, six soil borings were installed at the Site prior to the planned demolition of the existing building in the summer of 2014. Four borings were installed through the basement floor, with one in the location of the sump, and three borings were installed at the exterior of the building, two in an alley behind the building and one through the sidewalk on Tillary Street. For the four soil borings installed through the basement floor, soil samples were collected continuously from the slab to a final depth of 6 feet below basement grade using a slide-hammer with a two-foot split spoon. Two soil samples from each of the four borings were retained representing 0 to 2 feet below grade and 3 to 5 feet below grade intervals. The three soil borings outside of the existing building were installed from grade to 33 feet below grade using a macrocore sampler and direct push rig. Two soil samples from each of the borings located behind the building were retained representing the 0 to 2 feet below grade and 15 to 17 feet below grade intervals. Three soil samples were collected in the boring located on the sidewalk representing the 0 to 2 feet below grade, 15 to 17 feet below grade, and 27 to 29 feet below grade

intervals. The soil recovered from each of the soil borings was field screened for the presence of VOCs with a photoionization detector (PID) and visually inspected for evidence of contamination. No PID readings above background concentrations were detected.

Soil boring details are provided in Table 1. Boring logs were prepared by the field scientist and are attached in Appendix 2. A map showing the location of soil borings and monitor wells is shown in Figure 5.

Groundwater Temporary Monitoring Well Construction

Three temporary monitoring wells were installed in the three soil borings located at the exterior of the building and through the sidewalk. The wells were constructed using one-inch diameter PVC with ten feet of PVC [0.010 slot] screen and twenty to twenty-two feet of PVC riser. Since groundwater was encountered at approximately 26 feet below grade, monitoring wells were installed to a depth of 33 feet, set to intersect the water table. Following sample collection, the PVC was removed and the boring was backfilled. Temporary Monitoring well locations are shown in Figure 5.

Survey

All boring and temporary well locations were surveyed by Empire State Layout, Inc. Ground surface elevations were recorded for each boring location. Figure 5 shows the location and elevation for each boring.

Water Level Measurement

The depth to groundwater was measured in each temporary well from ground surface.

Water level data is included in Table 1

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for the Area of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides

sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Soil samples were collected from all seven borings. Borings installed through the basement were collected using a slide-hammer with a two-foot split spoon. Borings installed at the exterior of the building were collected using a macrocore sampler and direct push rig using disposal acetate liners. Soil samples were handled using disposable gloves and placed in laboratory supplied glassware, stored in a cooler with ice, and submitted for analysis with proper chain of custody. For QC purposes a field blank was collected by field personnel to ensure that samples collected were representative of field conditions during the sampling activities.

Fifteen soil samples were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Table 2. Figure 5 shows the location of samples collected in this investigation and Soil chemistry is depicted on Figure 6. Laboratories and analytical methods are shown below.

Groundwater Sampling

Three groundwater samples and one duplicate sample were collected for chemical analysis during this RI. The samples were collected from the three temporary monitoring wells at the exterior of the existing building utilizing dedicated polyethylene tubing and a peristaltic pump. Groundwater samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted for analysis. Groundwater analytical data is reported in Table 3. Figure 6 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Three soil vapor probes were installed three to five feet below the existing basement floor to approach the proposed new building foundation depth. Three soil vapor samples and one ambient air sample were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 5. Soil vapor sample collection data is reported in Table 4. Soil vapor sampling logs are included in Appendix 2. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

All three soil vapor probes were installed with a 6” stainless steel mesh implant attached to polyethylene tubing. Sand was used to backfill the hole around the implant to a depth one foot above the mesh screen and the rest of the hole above was backfilled with bentonite. An ambient air sample was collected concurrently with the soil vapor samples.

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and were: Hampton-Clarke/Veritech (Soil and Groundwater) PACE Analytical (Soil Gas)
Chemical Analytical Methods	Soil analytical methods: • TAL Metals + Hg by EPA Methods 6010C/6020A/7417B; • VOCs by EPA Method 8260C; • SVOCs by EPA Method 8270D; • Pesticides by EPA Method 8081B; • PCBs by EPA Method 8082A; Groundwater analytical methods: • TAL Metals + Hg by EPA Method 6010C/6020A/7470A; • VOCs by EPA Method 8260C; • SVOCs by EPA Method 8270D; • Pesticides by EPA Method 8081B; • PCBs by EPA Method 8082A;

	Soil vapor analytical methods: • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 2, 3, and 4, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix 3.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

In general, the stratigraphy of the Site consists of five to fifteen feet of fill underlain by fine sands containing varying amounts of gravel and cobbles. Bedrock was not encountered during drilling. The Site fill generally consists of sand size materials with fragments of concrete and brick. Groundwater was encountered between 25 and 27 feet below sidewalk grade.

Hydrogeology

A table of water level data collected from the temporary monitoring wells is included in Table 1. The average depth to groundwater is between twenty-five and twenty-seven feet. Based on ground surface elevations and groundwater levels measured in temporary wells, groundwater flows generally from southwest to northeast.

5.2 Soil Chemistry

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Table 2. Figure 6 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Unrestricted Use and Restricted Residential Use Soil Cleanup Objectives.

Fifteen soil samples were collected during the RI. The samples were collected from zero to two feet beneath the ground surface and beneath the basement slab, fifteen to seventeen feet beneath the ground surface (foundation termination depth), three to five feet beneath the basement slab, and one sample was collected from twenty-seven to twenty-nine feet beneath the ground surface due to visual, olfactory, and PID responses during soil screening.

Soil analytical results indicated exceedances of Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) for six metals and seven PAHs. One pesticide, Alpha Chlordane exceeded its UUSCO in EXT 1 (15-17’) which was collected in a boring on the sidewalk of Tillary Street.

Three samples [Ext 1 (0-2’), Ext 1 (15-17’), and Ext 3 (15-17’] had high concentrations of several PAHs exceeding their respective UUSCOs and RRSCOs. Concentrations of Benz(a)anthracene which exceeded its RRSCOs ranged from 1.5 mg/kg in Ext 3 (15-17’) to 27 mg/kg in Ext 1 (15-17’). Concentrations of Benzo(a)pyrene which exceeded RRSCOs ranged

from 1.3 mg/kg in Ext 3 (15-17') to 21 mg/kg in Ext 1 (15-17'). Concentrations of Benzo(b)fluoranthene which exceeded RRSCOs ranged from 1.5 mg/kg in Ext 3 (15-17') to 29 mg/kg in Ext 1 (15-17'). Concentrations of Indeno(1,2,3-cd)pyrene which exceeded RRSCOs ranged from 0.71 mg/kg in Ext 3 (15-17') to 10 mg/kg in Ext 1 (15-17'). Other compounds with concentrations which exceeded RRSCOs include Chrysene [(ranging from 5.2 mg/kg in Ext 1 (0-2') to 22 mg/kg in Ext 1 (15-17')] and Dibenz(a,h)anthracene [ranging from 0.8 mg/kg in Ext 1 (0-2') to 2.7 mg/kg in Ext 1 (15-17')]. The PAH exceedances are summarized in the table, below.

	EXT1(0-2') 5/20/2014	EXT1(15-17') 5/20/2014	EXT 3(15-17') 5/20/2014
Benz(a)anthracene	**6.1**	**27**	**1.5**
Benzo(a)pyrene	**5.3**	**21**	**1.3**
Benzo(b)fluoranthene	**6.7**	**29**	**1.5**
Benzo(k)fluoranthene	**2.4**	**6.7**	0.58
Chrysene	**5.2**	**22**	**1.2**
Dibenz(a,h)anthracene	**0.8**	**2.7**	0.21
Indeno(1,2,3-cd)pyrene	**2.7**	**10**	**0.71**

Note: numbers in red exceed UUSCOs, numbers in red and highlighted in yellow exceed UUSCOs and RRSCOs.

Concentrations of six metals exceeded UUSCOs and RRSCOs in multiple samples. Arsenic exceeded RRSCOs in nine of fifteen soil samples ranging from 19 mg/kg in Base 2 (0-2') to 660 mg/kg in Ext 1 (0-2'). Barium exceeded RRSCOs in two of fifteen samples ranging from 570 mg/kg in Ext 2 (0-2') to 630 mg/kg in Ext 1 (0-2'). Total Chromium exceeded RRSCOs in one of fifteen samples with a concentration of 560 mg/kg in Base 1 (0-2'). Copper exceeded RRSCOs in two of fifteen samples ranging from 540 mg/kg in Ext 1 (0-2') to 1,200 mg/kg in Ext 2 (0-2'). Lead exceeded RRSCOs in three of fifteen samples ranging from 660 mg/kg in Ext 1 (15-17') to 1,200 mg/kg in Ext 1 (0-2'). Mercury exceeded RRSCOs in eight of fifteen samples ranging from 0.9 mg/kg in Ext 2 (15-17') to 170 mg/kg in Ext 1 (0-2'). The metals exceedances are summarized in the tables, below.

	EXT1(0-2') 5/20/2014	EXT1(15-17') 5/20/2014	EXT2(0-2') 5/20/2014	EXT2(15-17') 5/20/2014	EXT 3(0-2') 5/20/2014	EXT 3(15-17') 5/20/2014
Arsenic	**660.0**	**48.0**	**480.0**	6.7	**20**	**14**
Barium	**630**	280	**570**	45	88	80
Chromium, trivalent	20	14	27	16	12	21
Copper	**540**	47	**1,200**	17	34	21
Lead	**1,200**	**660**	**810**	24	**160**	**250**
Total Mercury	**170***	**4**	**90***	**0.9**	**7.1***	**5.1***

	EXT 3(27-29') 5/20/2014	SUMP1 (0-2') 5/19/2014	BASE1(0-2') 5/19/2014	BASE1(3-5') 5/19/2014	BASE2(0-2') 5/19/2014	BASE3(0-2') 5/19/2014
Arsenic	**66.0**	**97**	**37**	5.4	**19**	**37**
Barium	33	62	130	41	43	67
Chromium, trivalent	21	16	**560**	**53**	11	14
Copper	16	**65**	48	21	17	30
Lead	27	38	**370**	**77**	37	**79**
Total Mercury	ND	0.16	**3.7**	**1.1**	0.091	0.16

Note: numbers in red exceed UU SCOs, numbers in red and highlighted in yellow exceed UU SCOs and RR SCOs.

5.3 Groundwater Chemistry

Four groundwater samples were collected and analyzed by the laboratory (three samples and one duplicate sample) as part of this remedial investigation. The samples were collected from temporary wells. Exceedances of New York State Groundwater Quality Standards (NYS GQS) were detected by the laboratory in all samples. Concentrations of six Semi-Volatile organic compounds (SVOCs) exceeded NYS GQS in the Ext 3 sampling location; 1-1'Biphenol exceeded the NYS GQS of 5 ug/L at a concentration of 32 ug/L, Acenapthene exceeded the GQS of 20 ug/L at a concentration of 32 ug/L, Benzo(a)anthracene exceeded the GQS of 0.002 ug/L at a concentration of 3.9 ug/L, Bis(2-ethylhexyl)phthalate exceeded the GQS of 5 ug/L at a concentration of 7.1 ug/L, Chrysene exceeded the GQS of 0.002 ug/L at a concentration of 4.7 ug/L, and Phenanthrene exceeded the GQS of 50 ug/L at a concentration of 94 ug/L.

Metals were analyzed in all groundwater samples via both filtered and unfiltered samples. The unfiltered samples had concentrations of metals that exceeded the NYS GQS for almost all the metals. The filtered samples had concentrations of compounds which exceeded NYS GQS in all four samples. Arsenic exceeded NYS GQS of 25 ug/L in all samples ranging from 450 ug/L in Ext 3 to 1,400 ug/L in the duplicate sample (Ext 2 location). Selenium exceeded the NYS GQS of 10 ug/L with a concentration of 23 ug/L in the Ext 2 location. Sodium concentrations in two locations (Ext 1 and Ext 3) exceeded the NYS GQS of 20,000 ug/L with concentrations of 32,000 ug/L and 49,000 ug/L respectively. Sodium concentrations can be attributed to the brackish nature of groundwater in the New York City metropolitan area.

	EXT 1	EXT 2	DUP052014 U (EXT 2)	EXT 3
Arsenic	490	600	1,400	450
Selenium	ND	23	17	ND
Sodium	32,000	18,000	19,000	49,000

Note: Numbers in red exceed the New York State Groundwater Quality Standards Class GA
The samples in the table above were filtered by the laboratory.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Table 3. Exceedence of applicable groundwater standards are displayed in the table above.

Figure 7 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

5.4 Soil Vapor Chemistry

Three soil gas samples and one ambient air sample were collected and analyzed at the Site during the remedial investigation. The laboratory results indicated that at one location (Base 1) there was an exceedance of the NYS DOH screening value for Trichloroethene at a concentration of 12.9 ug/m^3. Trichloroethene, a solvent, was not detected in the ambient air sample or one of two other sub-basement samples. No other compounds exceeded NYS DOH guidance values. Based on a review of the soil vapor data and a teleconference meeting with NYC OER, a sub-slab depressurization system will not be required at the site. A vapor barrier will be installed beneath all foundation structures.

A summary table of data for chemical analyses performed on soil vapor samples is included in Table 4.

Figure 5 shows the location of soil vapor samples.

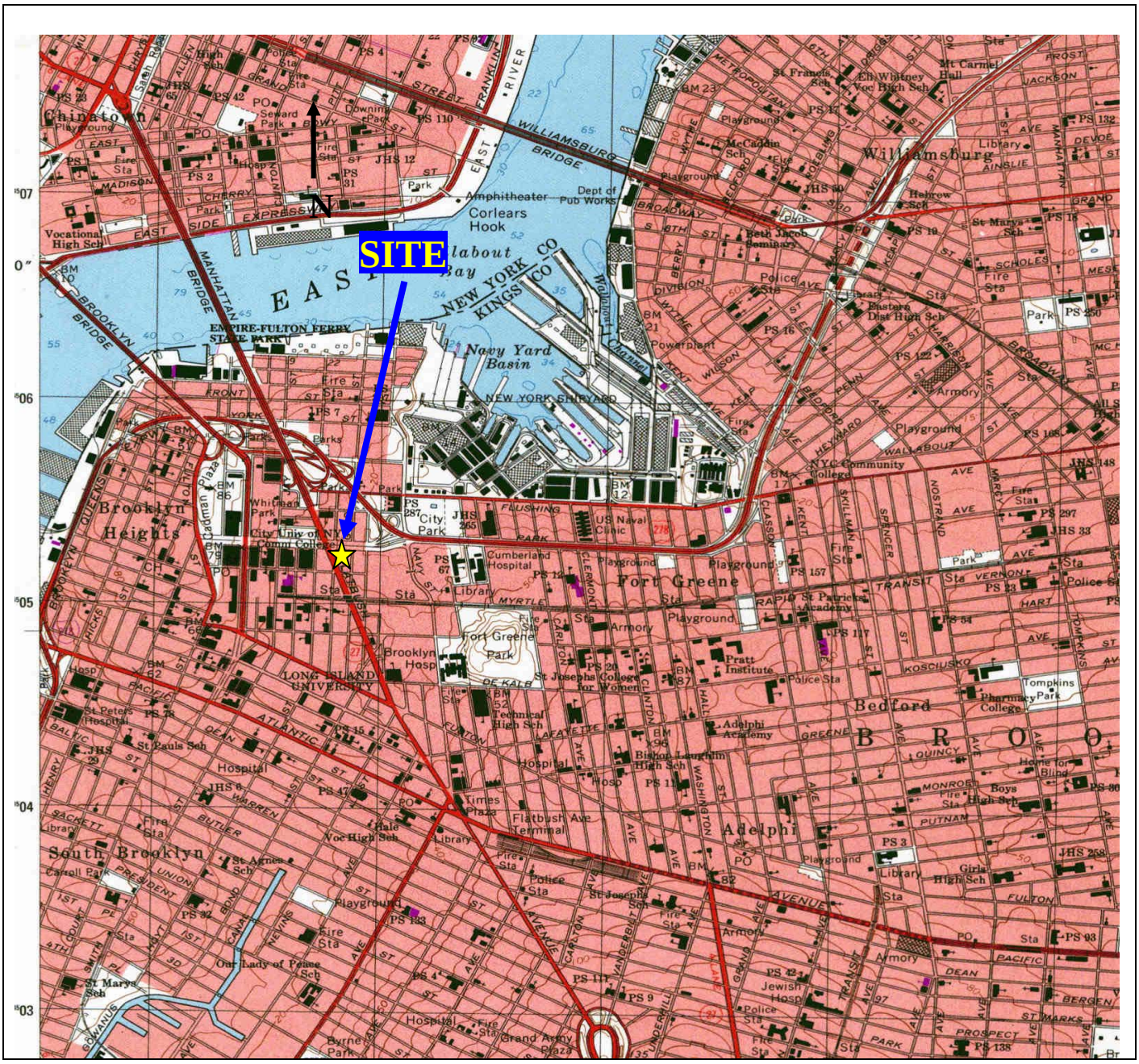
5.5 Prior Activity

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

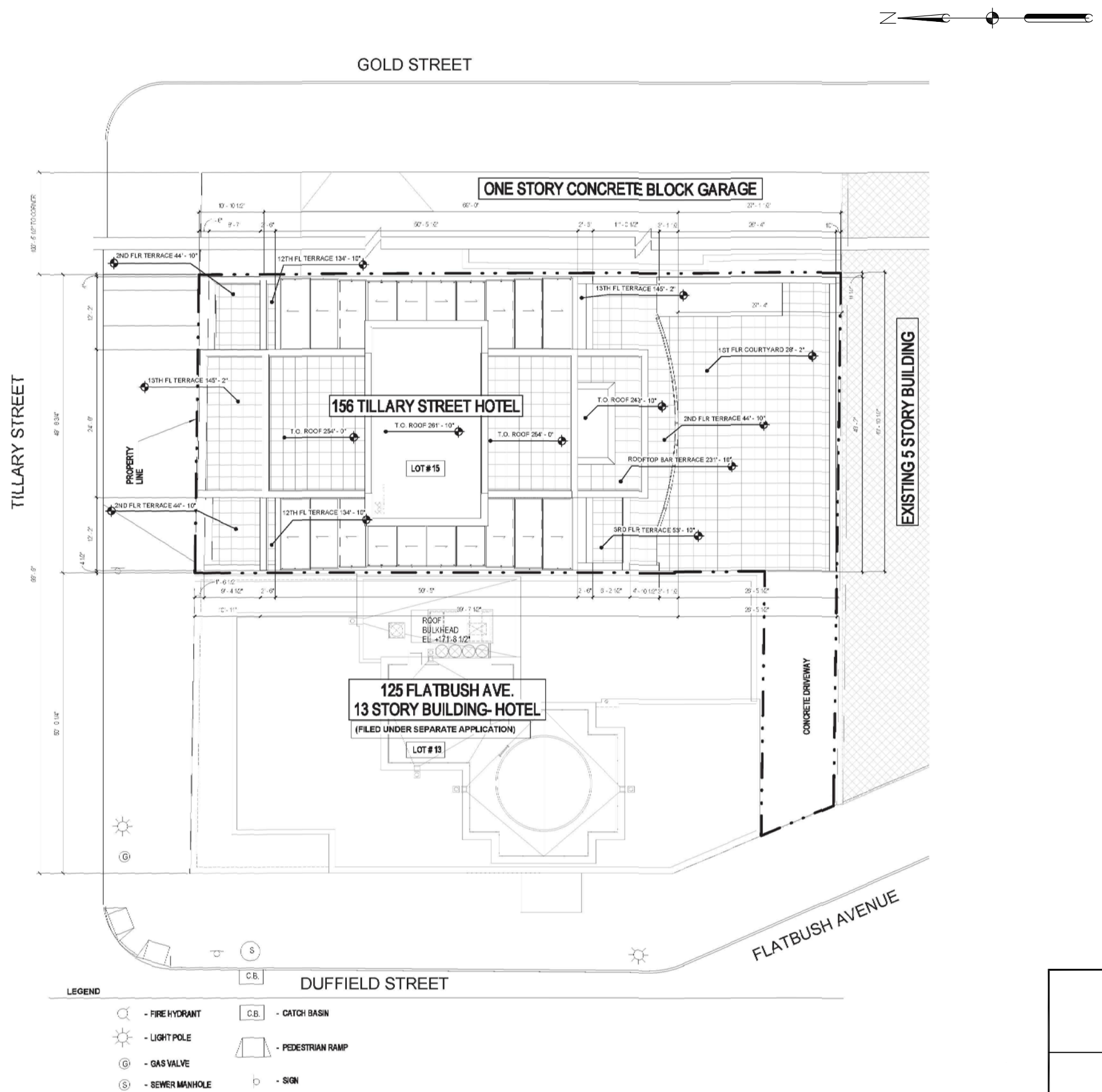
5.6 Impediments to Remedial Action

There are no known impediments to remedial action at this property.

FIGURES



156 Tillary Street **Brooklyn, NY**	
URS Corporation	
Date: 1995	**SITE LOCATION MAP**
Reference: USGS 7.5 Minute Quadrangle: Brooklyn, NY 1995 **Photorevised: NA**	**FIGURE 1**



MAP SOURCE:

SITE PLAN, G–102.00 BY STONEHILL & TAYLOR ARCHITECTS AND PLANNERS, DATED 5–16–2014

CURRENT SITE PLAN
AUGUST 2014
156 TILLARY STREET
BROOKLYN, NEW YORK

URS
CLIFTON, NEW JERSEY

DR. BY ET	SCALE N.T.S.	DWG. NO. 11140247.01–Fig.2	PROJ. NO. 11140247
CK'D. BY CF		DATE AUGUST 11, 2014	FIG. NO. 2

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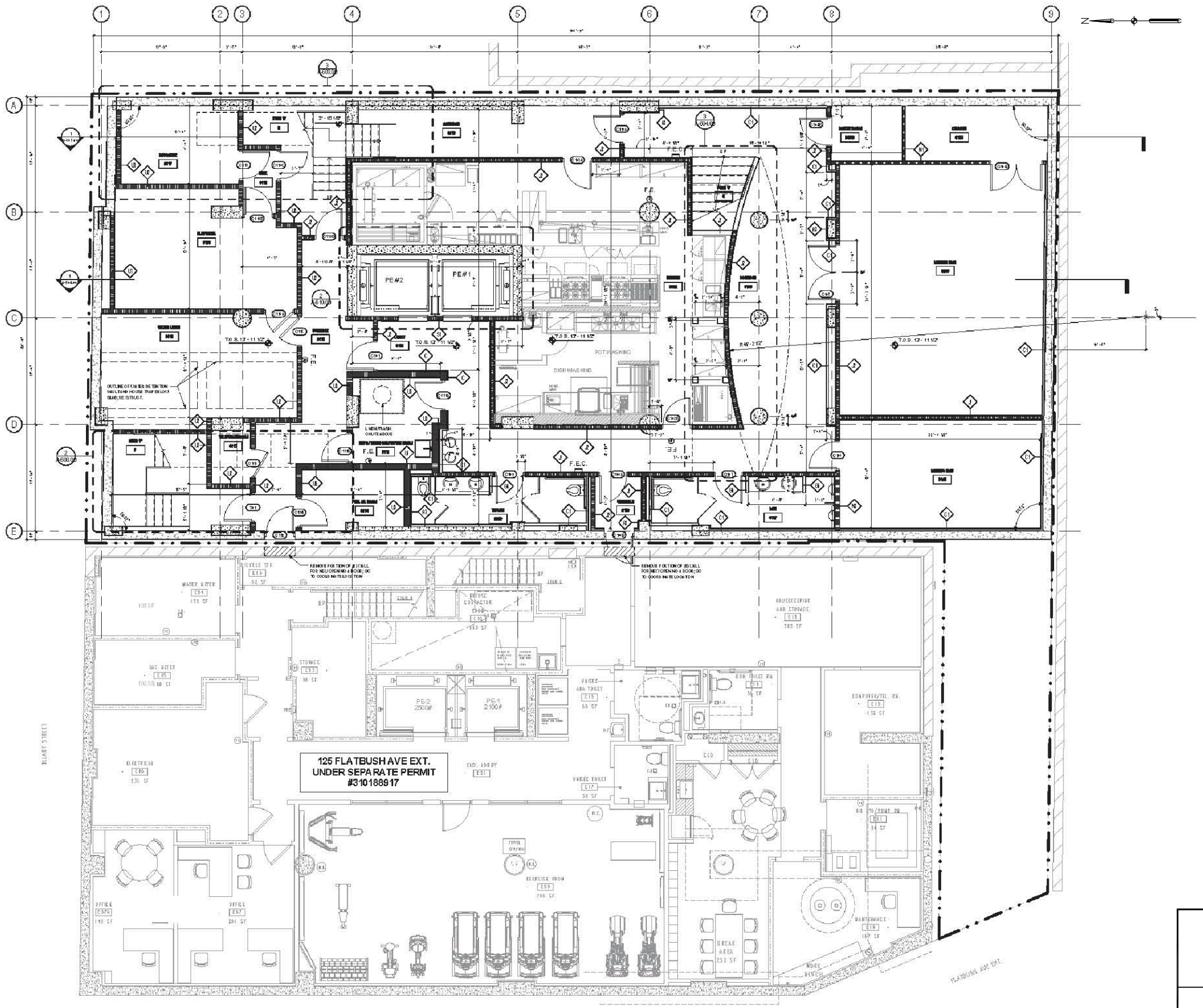

MAP SOURCE:

CELLAR CONSTRUCTION PLAN, A–100.00 BY STONEHILL & TAYLOR ARCHITECTS AND PLANNERS, DATED 5–16–2014.

REDEVELOPMENT PLAN (CELLAR)
AUGUST 2014
156 TILLARY STREET
BROOKLYN, NEW YORK

URS
CLIFTON, NEW JERSEY

DR. BY ET	SCALE N.T.S.	DWG. NO. 11140247.02–Fig.3A	PROJ. NO. 11140247
CK'D. BY CF		DATE AUGUST 11, 2014	FIG. NO. 3A

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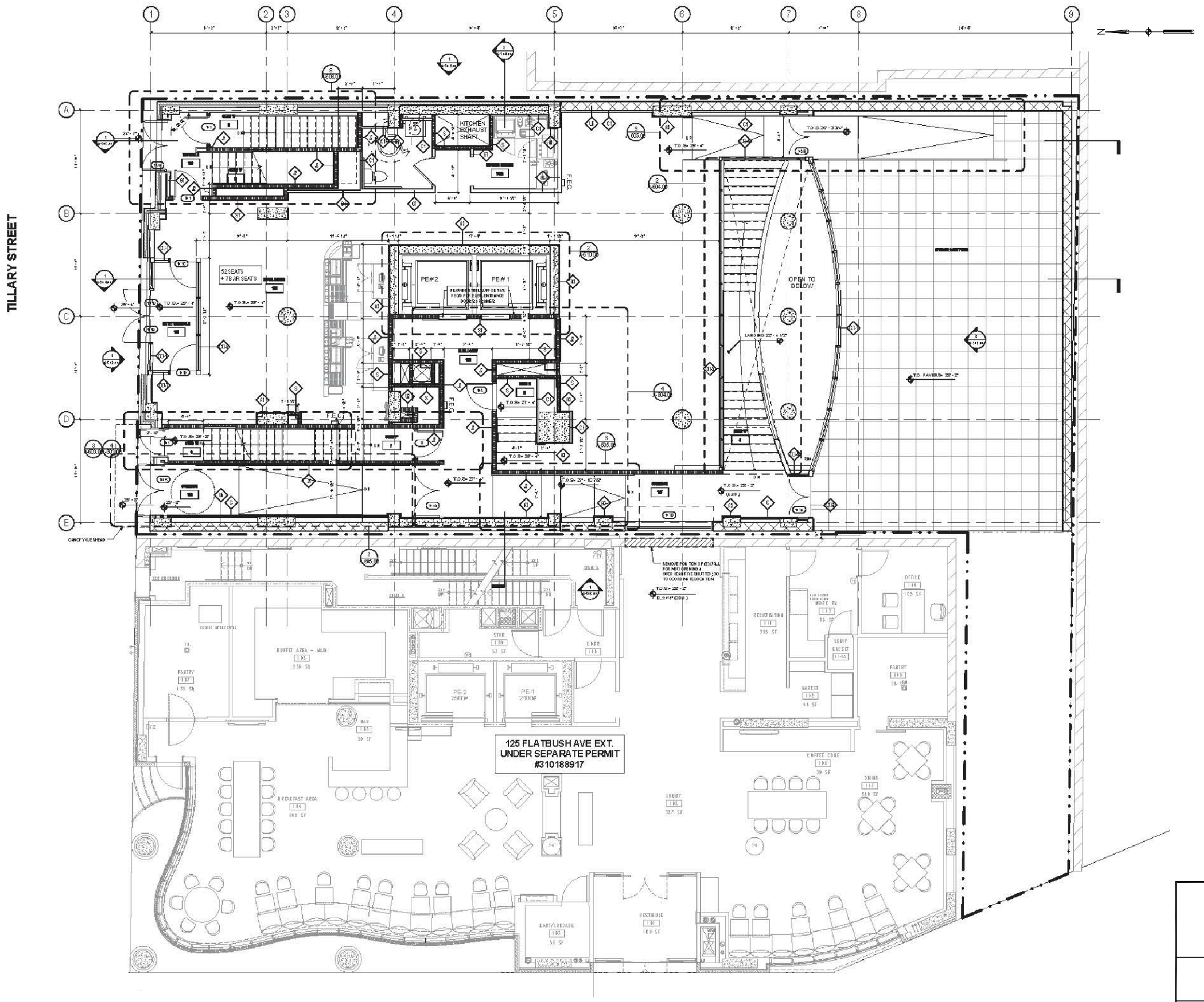

MAP SOURCE:

1ST FLOOR CONSTRUCTION PLAN, A–101.00 BY STONEHILL & TAYLOR ARCHITECTS AND PLANNERS, DATED 5–16–2014.

REDEVELOPMENT PLAN (1ST FLOOR)
AUGUST 2014
156 TILLARY STREET
BROOKLYN, NEW YORK

URS
CLIFTON, NEW JERSEY

DR. BY ET	SCALE N.T.S.	DWG. NO. 11140247.03–Fig.3B	PROJ. NO. 11140247
CK'D. BY CF		DATE AUGUST 11, 2014	FIG. NO. 3B

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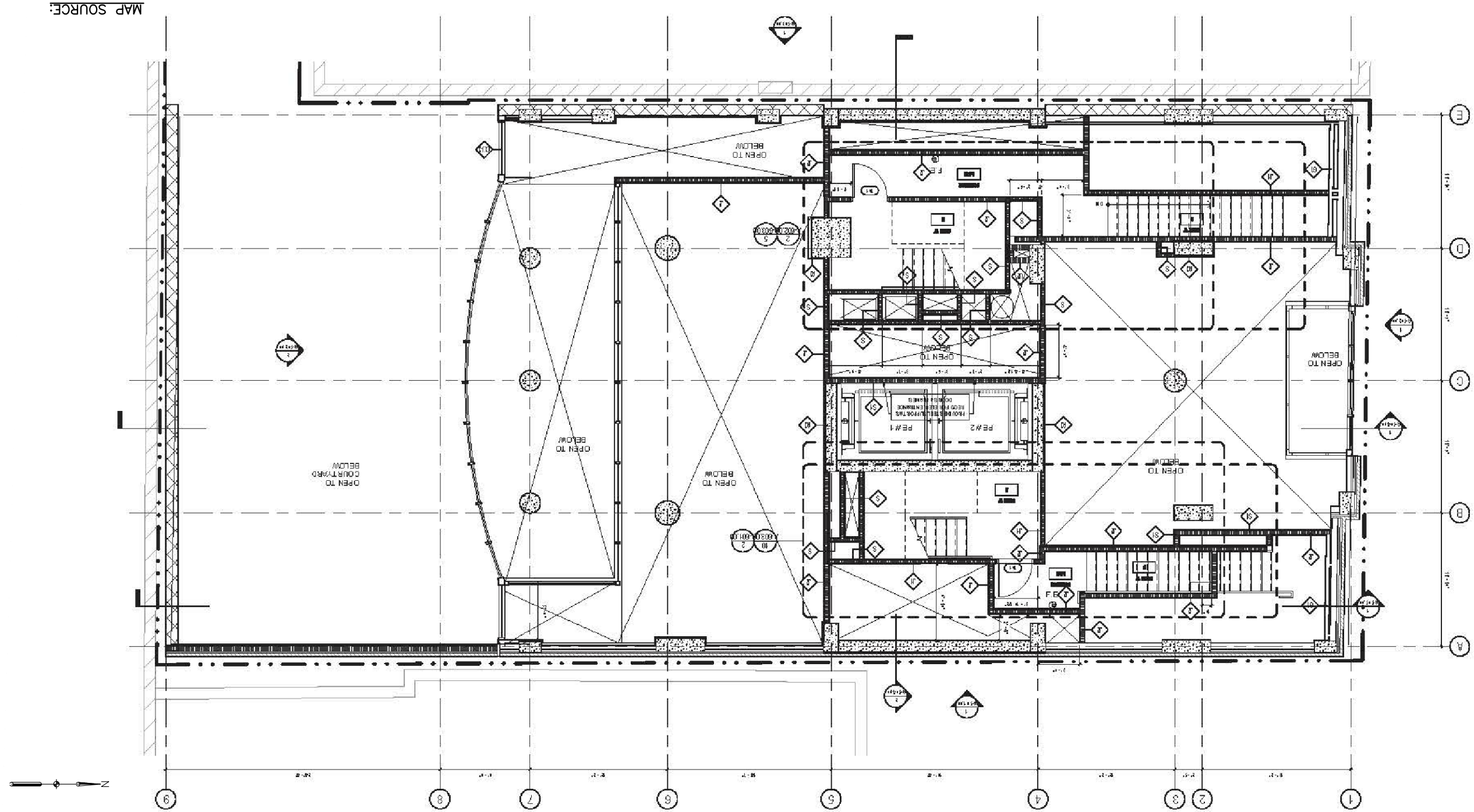

MAP SOURCE:
MEZZ. LEVEL CONSTRUCTION PLAN, A-102.00
BY STONEHILL & TAYLOR ARCHITECTS AND
PLANNERS, DATED 5-16-2014.

REDEVELOPMENT PLAN (MEZZANINE)
AUGUST 2014
156 TILLARY STREET
BROOKLYN, NEW YORK

URS
CLIFTON, NEW JERSEY

DR. BY ET	SCALE N.T.S.	DWG. NO. 11140247.04-Fig.3C	PROJ. NO. 11140247
CK'D. BY CF	DATE AUGUST 11, 2014	FIG. NO. 3C	

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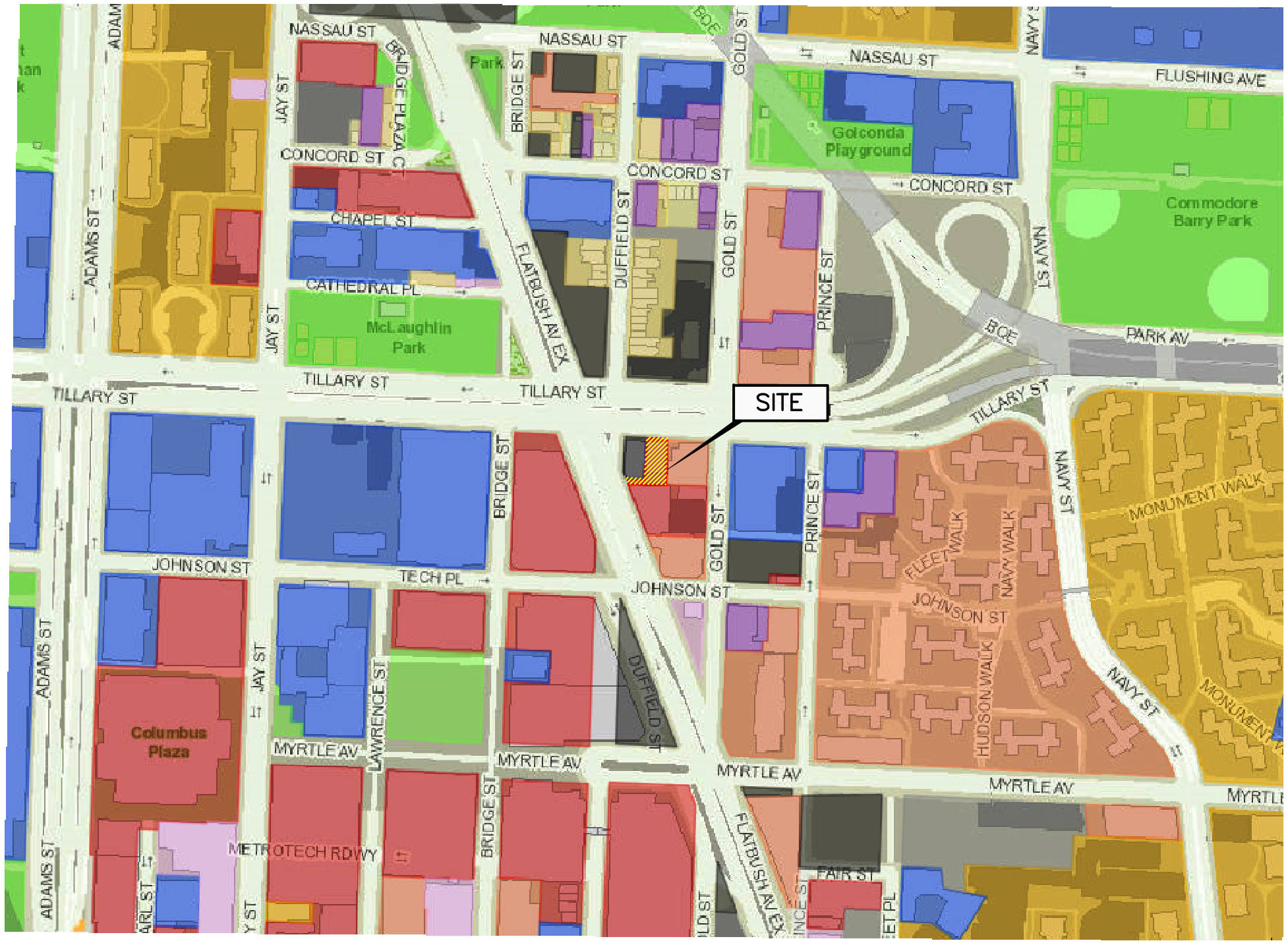

N

LEGEND:

- One & Two Family Residence
- Multi-Family Residence (Walkup)
- Multi-Family Residence (Elevator)
- Mixed Residential & Commercial
- Commercial Use
- Industrial / Manufacturing
- Transportation / Utility
- Public Facilities and Institutions
- Open Space & Recreation
- Parking
- Vacant Land

MAP SOURCE:
NYC PLANNING, ZONING AND LAND USE WEBSITE.

SURROUNDING LAND USE MAP
156 TILLARY STREET
BROOKLYN, NEW YORK

URS
CLIFTON, NEW JERSEY

DR. BY ET	SCALE N.T.S.	DWG. NO. 11140247.05–Fig.4	PROJ. NO. 11140247
CK'D. BY CF		DATE AUGUST 11, 2014	FIG. NO. 4

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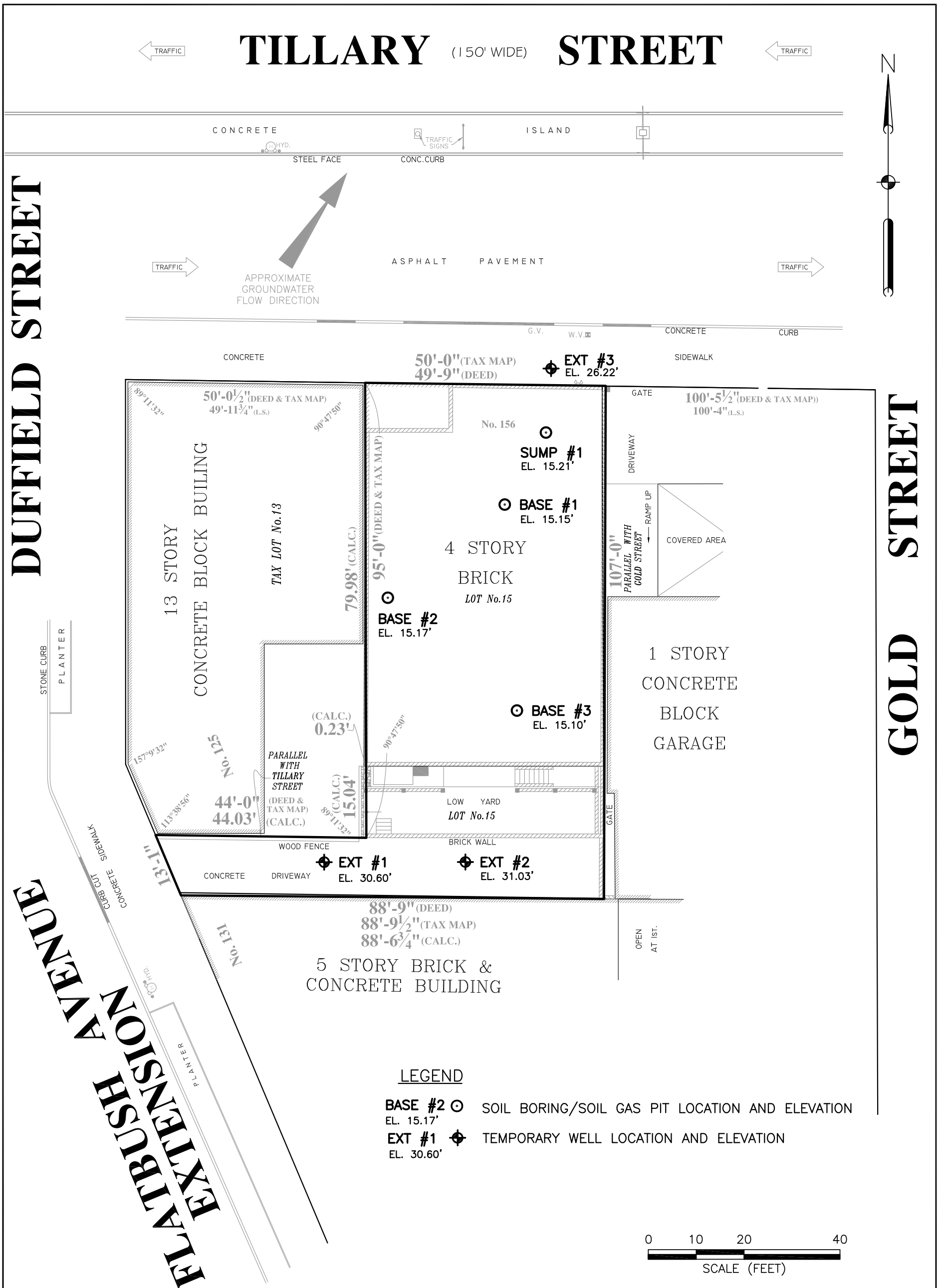

MAP SOURCE:

BORING LOCATION, BLOCK 133, LOT 15, SECTION 1, COUNTY KINGS, DATED JULY 11, 2014 BY EMPIRE STATE LAYOUT, INC.

LOCATION OF SOIL BORINGS, TEMPORARY WELLS AND SOIL GAS SAMPLES
156 TILLARY STREET
BROOKLYN, NEW YORK

URS
CLIFTON, NEW JERSEY

DR. BY ET	SCALE 1"=20'	DWG. NO. 11140247.06-Fig.5	PROJ. NO. 11140247
CK'D. BY CF		DATE AUGUST 11, 2014	FIG. NO. 5

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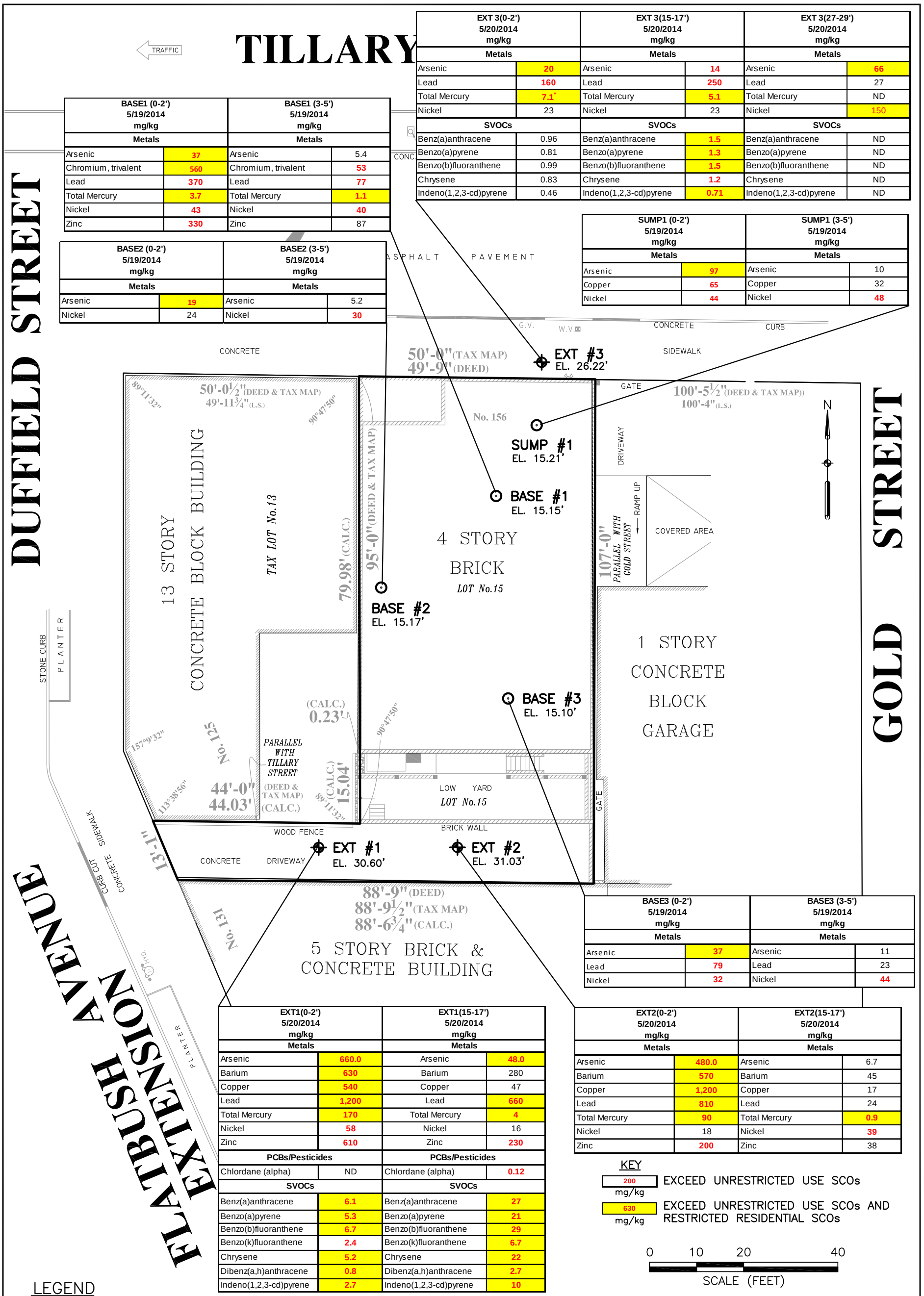

EXT 3(0-2') 5/20/2014 mg/kg		EXT 3(15-17') 5/20/2014 mg/kg		EXT 3(27-29') 5/20/2014 mg/kg	
Metals		**Metals**		**Metals**	
Arsenic	20	Arsenic	14	Arsenic	66
Lead	160	Lead	250	Lead	27
Total Mercury	7.1*	Total Mercury	5.1	Total Mercury	ND
Nickel	23	Nickel	23	Nickel	150
SVOCs		**SVOCs**		**SVOCs**	
Benz(a)anthracene	0.96	Benz(a)anthracene	1.5	Benz(a)anthracene	ND
Benzo(a)pyrene	0.81	Benzo(a)pyrene	1.3	Benzo(a)pyrene	ND
Benzo(b)fluoranthene	0.99	Benzo(b)fluoranthene	1.5	Benzo(b)fluoranthene	ND
Chrysene	0.83	Chrysene	1.2	Chrysene	ND
Indeno(1,2,3-cd)pyrene	0.46	Indeno(1,2,3-cd)pyrene	0.71	Indeno(1,2,3-cd)pyrene	ND

BASE1 (0-2') 5/19/2014 mg/kg		BASE1 (3-5') 5/19/2014 mg/kg	
Metals		**Metals**	
Arsenic	37	Arsenic	5.4
Chromium, trivalent	560	Chromium, trivalent	53
Lead	370	Lead	77
Total Mercury	3.7	Total Mercury	1.1
Nickel	43	Nickel	40
Zinc	330	Zinc	87

BASE2 (0-2') 5/19/2014 mg/kg		BASE2 (3-5') 5/19/2014 mg/kg	
Metals		**Metals**	
Arsenic	19	Arsenic	5.2
Nickel	24	Nickel	30

SUMP1 (0-2') 5/19/2014 mg/kg		SUMP1 (3-5') 5/19/2014 mg/kg	
Metals		**Metals**	
Arsenic	97	Arsenic	10
Copper	65	Copper	32
Nickel	44	Nickel	48

BASE3 (0-2') 5/19/2014 mg/kg		BASE3 (3-5') 5/19/2014 mg/kg	
Metals		**Metals**	
Arsenic	37	Arsenic	11
Lead	79	Lead	23
Nickel	32	Nickel	44

EXT1(0-2') 5/20/2014 mg/kg		EXT1(15-17') 5/20/2014 mg/kg	
Metals		**Metals**	
Arsenic	660.0	Arsenic	48.0
Barium	630	Barium	280
Copper	540	Copper	47
Lead	1,200	Lead	660
Total Mercury	170	Total Mercury	4
Nickel	58	Nickel	16
Zinc	610	Zinc	230
PCBs/Pesticides		**PCBs/Pesticides**	
Chlordane (alpha)	ND	Chlordane (alpha)	0.12
SVOCs		**SVOCs**	
Benz(a)anthracene	6.1	Benz(a)anthracene	27
Benzo(a)pyrene	5.3	Benzo(a)pyrene	21
Benzo(b)fluoranthene	6.7	Benzo(b)fluoranthene	29
Benzo(k)fluoranthene	2.4	Benzo(k)fluoranthene	6.7
Chrysene	5.2	Chrysene	22
Dibenz(a,h)anthracene	0.8	Dibenz(a,h)anthracene	2.7
Indeno(1,2,3-cd)pyrene	2.7	Indeno(1,2,3-cd)pyrene	10

EXT2(0-2') 5/20/2014 mg/kg		EXT2(15-17') 5/20/2014 mg/kg	
Metals		**Metals**	
Arsenic	480.0	Arsenic	6.7
Barium	570	Barium	45
Copper	1,200	Copper	17
Lead	810	Lead	24
Total Mercury	90	Total Mercury	0.9
Nickel	18	Nickel	39
Zinc	200	Zinc	38

KEY

200 mg/kg — EXCEED UNRESTRICTED USE SCOs

630 mg/kg — EXCEED UNRESTRICTED USE SCOs AND RESTRICTED RESIDENTIAL SCOs

0 10 20 40
SCALE (FEET)

LEGEND

BASE #2 ⊙ EL. 15.17' — SOIL BORING/SOIL GAS PIT LOCATION AND ELEVATION

EXT #1 ⊕ EL. 30.60' — TEMPORARY WELL LOCATION AND ELEVATION

MAP SOURCE:
BORING LOCATION, BLOCK 133, LOT 15, SECTION 1, COUNTY KINGS, DATED JULY 11, 2014 BY EMPIRE STATE LAYOUT, INC.

MAP OF SOIL ANALYTICAL RESULTS
156 TILLARY STREET
BROOKLYN, NEW YORK

URS
CLIFTON, NEW JERSEY

DR. BY ET	SCALE 1"=20'	DWG. NO. 11140247.07-Fig.6	PROJ. NO. 11140247
CK'D. BY CF		DATE AUGUST 11, 2014	FIG. NO. 6

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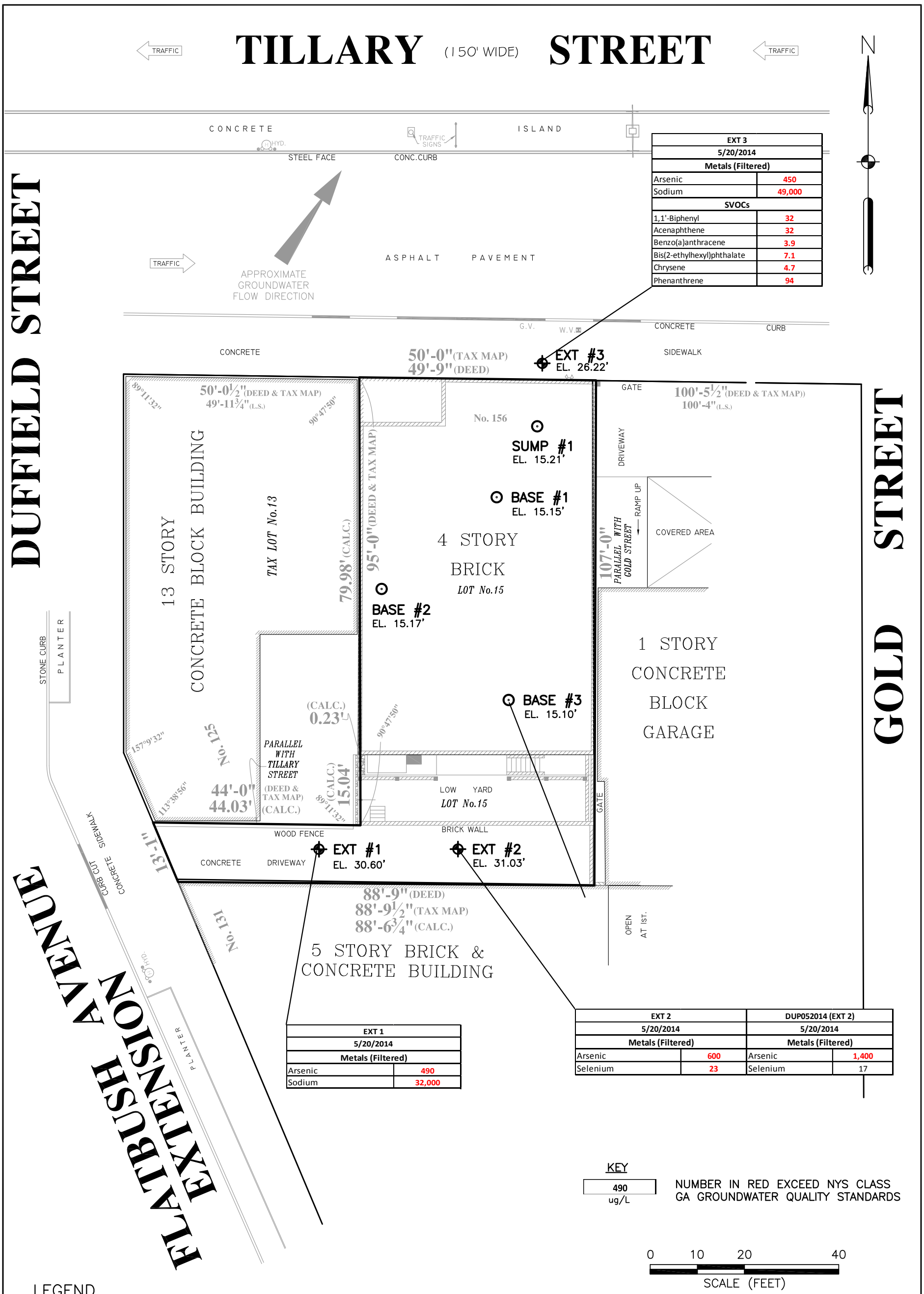

EXT 3	
5/20/2014	
Metals (Filtered)	
Arsenic	450
Sodium	49,000
SVOCs	
1,1'-Biphenyl	32
Acenaphthene	32
Benzo(a)anthracene	3.9
Bis(2-ethylhexyl)phthalate	7.1
Chrysene	4.7
Phenanthrene	94

EXT 1	
5/20/2014	
Metals (Filtered)	
Arsenic	490
Sodium	32,000

EXT 2		DUP052014 (EXT 2)	
5/20/2014		5/20/2014	
Metals (Filtered)		Metals (Filtered)	
Arsenic	600	Arsenic	1,400
Selenium	23	Selenium	17

KEY

490 ug/L — NUMBER IN RED EXCEED NYS CLASS GA GROUNDWATER QUALITY STANDARDS

0 10 20 40
SCALE (FEET)

LEGEND

BASE #2 ⊙ EL. 15.17' — SOIL BORING/SOIL GAS PIT LOCATION AND ELEVATION

EXT #1 ⌖ EL. 30.60' — TEMPORARY WELL LOCATION AND ELEVATION

MAP SOURCE:
BORING LOCATION, BLOCK 133, LOT 15, SECTION 1, COUNTY KINGS, DATED JULY 11, 2014 BY EMPIRE STATE LAYOUT, INC.

MAP OF GROUNDWATER ANALYTICAL RESULTS
156 TILLARY STREET
BROOKLYN, NEW YORK

URS
CLIFTON, NEW JERSEY

DR. BY ET	SCALE 1"=20'	DWG. NO. 11140247.08-Fig.7	PROJ. NO. 11140247
CK'D. BY CF		DATE AUGUST 11, 2014	FIG. NO. 7

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TABLES

Table 1
Soil Boring and Temporary Well Construction Detail

Boring ID	Location	Total Depth	Type of Boring	Temp Well Installed (Y/N)	Temp. Well Type	Depth to Water	Ground Surface Elevation at Boring Location (AMSL)	Corrected Groundwater Elevation (AMSL)
SUMP1	Basement	6'	Slidehammer	N	N/A	NE	15.21'	N/A
Base1	Basement	6'	Slidehammer	N	N/A	NE	15.15'	N/A
Base2	Basement	6'	Slidehammer	N	N/A	NE	15.17'	N/A
Base3	Basement	6'	Slidehammer	N	N/A	NE	15.10'	N/A
Ext 1	Exterior	33'	Direct Push	Y	PVC	27.26'	30.60'	3.34
Ext 2	Exterior	33'	Direct Push	Y	PVC	27.45'	31.03'	3.58
Ext 3	Exterior	33'	Direct Push	Y	PVC	25'	26.22'	1.22

TABLE 2
156 Tillary St
Brooklyn, New York
Summary of Soil Analytical Results
May 19-20, 2014

Chemical Compound	NYS DEC Tables 375-6.8 (a) and (b) Standards, ppm		URS Remedial Investigation May 19-20, 2014 Soil Results (mg/kg)														
	Unrestricted Use (a)	Restricted Residential (b)	EXT1(0-2') 5/20/2014	EXT1(15-17') 5/20/2014	EXT2(0-2') 5/20/2014	EXT2(15-17') 5/20/2014	EXT 3(0-2') 5/20/2014	EXT 3(15-17') 5/20/2014	EXT 3(27-29') 5/20/2014	SUMP1 (0-2') 5/19/2014	SUMP1 (3-5') 5/19/2014	BASE1(0-2') 5/19/2014	BASE1(3-5') 5/19/2014	BASE2(0-2') 5/19/2014	BASE2(3-5') 5/19/2014	BASE3(0-2') 5/19/2014	BASE3(3-5') 5/19/2014
Metals																	
Dilution Factor (DF)			**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**
Aluminum	NS	NS	3,500	5,200	3,500	5,000	5,400	6,100	3,700	6,700	6,600	7,300	5,900	4,800	5,900	6,600	5,900
Antimony	NS	NS	6.3	ND	0.97	ND	0.97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	13 c	16f	**660.0**	**48.0**	**480.0**	6.7	**20**	**14**	**66.0**	**97**	10	**37**	5.4	**19**	5.2	**37**	11
Barium	350 c	400	**630**	280	**570**	45	88	80	33	62	55	130	41	43	52	67	43
Beryllium	7.20	72	0.3	ND	0.43	ND	0.24	ND	ND	0.29	0.25	0.28	ND	0.22	ND	0.3	ND
Cadmium	2.5 c	4.30	1.6	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND
Calcium	NS	NS	5,400	62,000	4,400	2,900	13,000	25,000	5,800	7,300	6,000	20,000	11,000	15,000	13,000	20,000	6,500
Chromium, hexavalent	1b	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, trivalent	30 c	180	20	14	27	16	12	21	21	16	22	**560**	**53**	11	14	14	18
Cobalt	NS	NS	8.5	4.7	9.2	6.6	5.2	4.5	9.9	5.5	11.0	6.8	5.8	4.1	4.8	5.4	4.8
Copper	50	270	**540**	47	**1,200**	17	34	21	16	**65**	32	48	21	17	18	30	19
Total Cyanide	27	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NS	NS	33,000	12,000	14,000	11,000	11,000	9,900	13,000	11,000	12,000	15,000	12,000	8,300	11,000	12,000	12,000
Lead	63 c	400	**1,200**	**660**	**810**	24	**160**	**250**	27	38	10	**370**	**77**	37	8.6	**79**	23
Magnesium	NS	NS	1,100	6,600	600	2,700	3,400	4,400	12,000	3,200	3,700	4,800	9,800	3,900	4,000	4,700	3,800
Manganese	1600 c	2,000f	280	430	120	220	180	270	180	180	350	360	190	240	230	340	180
Total Mercury	0.18 c	0.81j	**170***	**4**	**90***	**0.9**	**7.1***	**5.1***	ND	0.16	ND	**3.7**	**1.1**	0.091	ND	0.16	ND
Nickel	30	310	**58**	16	18	**39**	23	23	**150**	**44**	**48**	**43**	**40**	24	**30**	**32**	**44**
Potassium	NS	NS	690	950	ND	930	1100	830	1200	1200	1100	1,900	2,000	1,300	1900	1,700	1,600
Selenium	3.9 c	180	ND	ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	2	180	0.74	ND	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	NS	NS	ND	ND	ND	ND	ND	380	ND	ND	ND	ND	ND	ND	ND	280	ND
Thallium	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NS	NS	16	22	15	19	18	16	18	19	20	24	18	15	19	21	21
Zinc	109 c	10,000 d	**610**	**230**	**200**	38	71	64	55	53	34	**330**	87	27	34	42	37
PCBs/Pesticides																	
Dilution Factor (DF)			**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**
2,4,5-TP Acid (Silvex)	3.8	100a	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE (P,P-DDE)	0.0033 b	8.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT (P,P-DDT)	0.0033 b	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	.0063d	ND	ND	ND	ND	ND
4,4'-DDD (P,P-DDD)	0.0033 b	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alachlor	NS	NS	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	0.005 c	0.097	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.036	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane (alpha)	0.094	4.2	ND	**0.12**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane (gamma)	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.005c	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	2.4	24i	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	2.4	24i	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	2.4	24i	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.014	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.042	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1016	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1262	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1268	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 2
156 Tillary St
Brooklyn, New York
Summary of Soil Analytical Results
May 19-20, 2014

Chemical Compound	NYS DEC Tables 375-6.8 (a) and (b) Standards, ppm		URS Remedial Investigation May 19-20 2014 Soil Results (mg/kg)														
	Unrestricted Use (a)	Restricted Residential (b)	EXT1(0-2') 5/20/2014	EXT1(15-17') 5/20/2014	EXT2(0-2') 5/20/2014	EXT2(15-17') 5/20/2014	EXT 3(0-2') 5/20/2014	EXT 3(15-17') 5/20/2014	EXT 3(27-29') 5/20/2014	SUMP1 (0-2') 5/20/2014	SUMP1 (3-5') 5/20/2014	BASE1(0-2') 5/20/2014	BASE1(3-5') 5/20/2014	BASE2(0-2') 5/20/2014	BASE2(3-5') 5/20/2014	BASE3(0-2') 5/20/2014	BASE3(3-5') 5/20/2014
Volatile Organic Compounds (VOCs)																	
Dilution Factor (DF)			**DF : 0.996**	**DF : 0.998**	**DF : 1**	**DF : 1**	**DF : 0.996**	**DF : 0.998**	**DF : 0.998**	**DF : 1**	**DF : 1**	**DF : 0.998**	**DF : 0.998**	**DF : 1**	**DF : 1**	**DF : 0.996**	**DF : 1**
1,1,1-Trichloroethane	0.68	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.27	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.33	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02c	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis -1,2-Dichloroethene	0.25	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.19	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	0.1 b	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	0.05	100b	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.06	4.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	12	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.76	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.37	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	41	ND	ND	ND	ND	ND	ND	0.0029	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.33b	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylenes	0.26	100	ND	ND	ND	ND	ND	ND	0.014	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	0.12	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	NS	NS	ND	ND	ND	ND	ND	ND	0.0052	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	0.93	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	100a	0.0034	ND	0.0045	ND	ND	0.0031	ND	ND	ND	0.0046	ND	ND	ND	ND	ND
Naphthalene	12	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n - Propylbenzene	3.9	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5.9	100a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.26	100	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.3	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0078	ND	ND	ND	0.0052	0.0029
Toluene	0.7	100a	ND	ND	ND	ND	ND	ND	0.0029	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.47	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.02	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	0.26	100a	ND	ND	ND	ND	ND	ND	0.019	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 2
156 Tillary St
Brooklyn, New York
Summary of Soil Analytical Results
May 19-20, 2014

Chemical Compound	NYS DEC Tables 375-6.8 (a) and (b) Standards, ppm		URS Remedial Investigation May 19-20, 2014 Soil Results (mg/kg)														
	Unrestricted Use (a)	Restricted Residential (b)	EXT1(0-2') 5/20/2014	EXT1(15-17') 5/20/2014	EXT2(0-2') 5/20/2014	EXT2(15-17') 5/20/2014	EXT 3(0-2') 5/20/2014	EXT 3(15-17') 5/20/2014	EXT 3(27-29') 5/20/2014	SUMP1 (0-2') 5/20/2014	SUMP1 (3-5') 5/20/2014	BASE1(0-2') 5/20/2014	BASE1(3-5') 5/20/2014	BASE2(0-2') 5/20/2014	BASE2(3-5') 5/20/2014	BASE3(0-2') 5/20/2014	BASE3(3-5') 5/20/2014
Semivolatile Organic Compounds (SVOCs)																	
Dilution Factor (DF)			**DF : 10**	**DF : 50**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	**DF : 1**	
1,1-Biphenyl	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.056	ND	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NS	NS	ND	3.2	ND	ND	ND	0.049	ND	ND	ND	0.30	ND	ND	ND	ND	ND
2-Methylphenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3+4-Methylphenols	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-phenylether	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20	100	0.6	9.6	0.045	ND	0.12	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	100	ND	ND	ND	ND	ND	0.082	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	100	1.5	15	0.12	ND	0.3	0.53	ND	ND	ND	0.051	ND	ND	ND	ND	ND
Atrazine	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1	1	**6.1**	**27**	0.58	ND	0.96	**1.5**	ND	0.16	ND	0.19	ND	0.046	ND	0.077	ND
Benzo(a)pyrene	1	1	**5.3**	**21**	0.5	ND	0.81	**1.3**	ND	0.13	ND	0.15	ND	0.04	ND	0.061	ND
Benzo(b)fluoranthene	1	1	**6.7**	**29**	0.7	ND	0.99	**1.5**	ND	0.17	ND	0.21	ND	0.05	ND	0.086	ND
Benzo(g,h,i)perylene	100	100	3.1	11	0.31	ND	0.51	0.82	ND	0.069	ND	0.17	ND	ND	ND	0.039	ND
Benzo(k)fluoranthene	0.8	3.9	**2.4**	**6.7**	0.22	ND	0.32	0.58	ND	0.055	ND	0.071	ND	ND	ND	ND	ND
Benzaldehyde	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	NS	NS	ND	ND	0.047	0.042	0.042	0.43	0.1	0.21	0.39	0.61	0.34	0.18	0.38	0.12	0.59
Butylbenzylphthalate	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NS	NS	0.53	5.8	0.043	ND	0.1	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	1	3.9	**5.2**	**22**	0.55	ND	0.83	**1.2**	ND	0.14	ND	0.17	ND	0.044	ND	0.076	ND
Dibenz(a,h)anthracene	0.33	0.33	**0.8**	**2.7**	0.078	ND	0.15	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NS	NS	0.24	6.9	0.025	ND	0.062	0.09	0.016	ND	ND	0.036	ND	ND	ND	ND	ND
Diethylphthalate	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.044	ND	ND	ND	ND	ND
Di-n-octyl phthalate	NS	NS	ND	ND	ND	ND	ND	ND	0.057	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	100	11	65	0.95	0.058	1.5	2.8	0.063	0.25	ND	0.32	0.039	0.081	ND	0.16	ND
Fluorene	30	100	0.42	6.7	ND	ND	0.081	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.5	0.5	**2.7**	**10**	0.26	ND	0.46	**0.71**	ND	0.059	ND	0.13	ND	ND	ND	ND	ND
Isophorone	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12	100	0.15	7.1	0.022	ND	0.034	0.073	ND	0.011	ND	0.11	ND	ND	ND	0.01	ND
N-Nitroso-di-n-propylamine	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	100	7.4	80	0.57	0.045	1.4	2.7	0.12	0.16	ND	0.28	ND	0.057	ND	0.11	ND
Phenol	0.33	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.051
Pyrene	100	100	11	57	0.99	0.058	1.7	3	0.099	0.25	ND	0.36	0.048	0.08	ND	ND	ND

NOTES:
NA = not analyzed
NS = no regulatory standard
ND = not detected above the laboratory detection limit
*Dilution Factors for Mercury: EXT1(0-2) DF=40, EXT2(0-2) DF=20, EXT3(0-2) DF=2, EXT3(15-17) DF=2
Numbers in RED type exceed Unresticted Use SCOs
Numbers in RED type and shaded in yellow exceed Unrestricted Use SCOs and Restricted Residential SCOs
d - For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.
N - Presumptive evidence of a compound
J - Estimated Value
Q - indicates LCS control criteria did not meet requirements
P - Indicates >25% difference between the two GC columns.

TABLE 3
156 Tillary Street
Brooklyn, NY
Summary of Groundwater Analytical Data

Chemical Compound	NYS DEC Groundwater Quality Standards Class GA	URS Remedial Investigation May 20, 2014 Groundwater Results (ug/L)					
	ug/L	EXT 1 U	EXT 2 U	DUP052014 U (EXT 2)	EXT 3 U	TB	FB052014 U
DATE		5/20/2014	5/20/2014	5/20/2014	5/20/2014	5/20/2014	5/20/2014
Metals (Unfiltered)							
Aluminum	100	**260,000**	**470,000**	**48,000**	**1,400,000**	NA	ND
Antimony	3	ND	ND	ND	**5**	NA	ND
Arsenic	25	**6,500**	**13,000**	**2,800**	**36,000**	NA	ND
Barium	1000	**2,700**	**11,000**	**880**	**20,000**	NA	ND
Beryllium	3	**16**	**23**	3	**84**	NA	ND
Cadmium	5	**6**	**17**	ND	**55**	NA	ND
Calcium	NS	86,000	450,000	63,000	1,300,000	NA	ND
Chromium	50	**1,100**	**1,400**	**190**	**4,500**	NA	ND
Cobalt	5	**390**	**1,100**	**100**	**2,800**	NA	ND
Copper	200	**1,000**	**1,800**	170	**6,900**	NA	ND
Iron	300	**590,000**	**1,100,000**	**100,000**	**3,000,000**	NA	ND
Lead	25	**510**	**11,000**	**710**	**48,000**	NA	ND
Magnesium	NS	250,000	720,000	**69,000**	2,300,000	NA	ND
Manganese	300	**14,000**	**40,000**	**4,600**	**99,000**	NA	ND
Mercury	0.7	ND	**250**	**14**	**220**	NA	ND
Nickel	100	**2,000**	**8,500**	**840**	**32,000**	NA	ND
Potassium	NS	79,000	130,000	19,000	420,000	NA	ND
Selenium	10	**37**	**87**	**23**	**220**	NA	ND
Silver	50	ND	ND	ND	ND	NA	ND
Sodium	20000	**41,000**	**25,000**	**20,000**	**81,000**	NA	ND
Thallium	0.5	**4**	**8**	**ND**	**21**	NA	ND
Vanadium	14	**700**	**1,500**	**160**	**3,400**	NA	ND
Zinc	2000	**2,300**	**4,900**	**460**	**17,000**	NA	ND
Metals (Filtered)							
Aluminum	100	ND	ND	ND	ND	NA	ND
Antimony	3	ND	ND	ND	ND	NA	ND
Arsenic	25	**490**	**600**	**1,400**	**450**	NA	ND
Barium	1,000	ND	ND	ND	ND	NA	ND
Beryllium	3	ND	ND	ND	ND	NA	ND
Cadmium	5	ND	ND	ND	ND	NA	ND
Calcium	NS	16,000	31,000	29,000	80,000	NA	ND
Chromium	50	ND	ND	ND	ND	NA	ND
Cobalt	5	ND	ND	ND	ND	NA	ND
Copper	200	ND	ND	ND	ND	NA	ND
Iron	300	ND	ND	ND	ND	NA	ND
Lead	25	ND	ND	ND	ND	NA	ND
Magnesium	35,000	6,300	9,500	9,100	14,000	NA	ND
Manganese	300	ND	ND	ND	ND	NA	ND
Mercury	0.7	ND	ND	ND	ND	NA	ND
Nickel	100	ND	ND	ND	ND	NA	ND
Potassium	NS	5,100	7,600	6,700	14,000	NA	ND
Selenium	10	ND	**23**	17	ND	NA	ND
Silver	50	ND	ND	ND	ND	NA	ND
Sodium	20,000	**32,000**	18,000	19,000	**49,000**	NA	ND
Thallium	0.5	ND	ND	ND	ND	NA	ND
Vanadium	14	ND	ND	ND	ND	NA	ND
Zinc	2,000	ND	ND	ND	ND	NA	ND

TABLE 3
156 Tillary Street
Brooklyn, NY
Summary of Groundwater Analytical Data

Chemical Compound	NYS DEC Groundwater Quality Standards Class GA	URS Remedial Investigation May 20, 2014 Groundwater Results (ug/L)					
	ug/L	EXT 1 U	EXT 2 U	DUP052014 U (EXT 2)	EXT 3 U	TB	FB052014 U
DATE		5/20/2014	5/20/2014	5/20/2014	5/20/2014	5/20/2014	5/20/2014
Volatile Organic Compounds (VOCs)							
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NS	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	ND	ND	ND	ND	ND	ND
2-Hexanone	50**	ND	ND	ND	ND	ND	ND
2-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NS	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND
Acrylonitrile	5	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND
Bromobenzene	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	50**	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50**	1.3	ND	ND	ND	ND	ND
Bromoform	50**	2.2	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND
Carbon disulfide	60**	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND
Chloroform	7	1.3	ND	ND	2.6	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	50**	2.5	ND	ND	ND	ND	ND
Dibromoethane	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND
m&p-Xylene	5	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	50**	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	NS	ND	ND	ND	ND	ND	ND
Methylcyclohexane	NS	ND	ND	ND	2.3	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND
n - Propylbenzene	5	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND
p-Isopropylbenzene	5	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND
Tetrahydrofuran (THF)	50**	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND
trans-1,4-dichloro-2-butene	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane	NS	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND
Xylene (total)	5	ND	ND	ND	ND	ND	ND

TABLE 3
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Brooklyn, NY
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Chemical Compound	NYS DEC Groundwater Quality Standards Class GA	URS Remedial Investigation May 20, 2014 Groundwater Results (ug/L)					
	ug/L	EXT 1 U	EXT 2 U	DUP052014 U (EXT 2)	EXT 3 U	TB	FB052014 U
DATE		5/20/2014	5/20/2014	5/20/2014	5/20/2014	5/20/2014	5/20/2014
Semivolatile Organic Compounds (SVOCs)							
1,1'-Biphenyl	**5**	ND	ND	ND	**32**	NA	ND
1,2,4,5-Tetrachlorobenzene	5	ND	ND	ND	ND	NA	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	NA	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	NA	ND
1,2-Diphenylhydrazine	0.05	ND	ND	ND	ND	NA	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	NA	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	NA	ND
2,4,5-Trichlorophenol	1*	ND	ND	ND	ND	NA	ND
2,4,6-Trichlorophenol	1*	ND	ND	ND	ND	NA	ND
2,4-Dichlorophenol	1*	ND	ND	ND	ND	NA	ND
2,4-Dimethylphenol	1*	ND	ND	ND	ND	NA	ND
2,4-Dinitrophenol	1*	ND	ND	ND	ND	NA	ND
2,4-Dinitrophenol	1*	ND	ND	ND	ND	NA	ND
2,6-Dichlorophenol	1*	ND	ND	ND	ND	NA	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	NA	ND
2-Chloronaphthalene	10**	ND	ND	ND	ND	NA	ND
2-Chlorophenol	1*	ND	ND	ND	ND	NA	ND
2-Methylnaphthalene	NS	ND	ND	ND	ND	NA	ND
2-Nitroaniline	5	ND	ND	ND	ND	NA	ND
2-Nitrophenol	1*	ND	ND	ND	ND	NA	ND
3-3'-Dichlorobenzidine	5	ND	ND	ND	ND	NA	ND
3-Nitroaniline	3	ND	ND	ND	ND	NA	ND
4,6-Dinitro-2-methylphenol	1*	ND	ND	ND	ND	NA	ND
4-Bromophenol phenol ether	1*	ND	ND	ND	ND	NA	ND
4-Chloro-3-methylphenol	1*	ND	ND	ND	ND	NA	ND
4-Chloroaniline	5	ND	ND	ND	ND	NA	ND
4-Chlorophenyl phenyl ether	NS	ND	ND	ND	ND	NA	ND
4-Nitroaniline	5	ND	ND	ND	ND	NA	ND
4-Nitrophenol	1*	ND	ND	ND	ND	NA	ND
Acenaphthene	20**	ND	ND	ND	**32**	NA	ND
Acenaphthylene	NS	ND	ND	ND	ND	NA	ND
Acetophenone	NS	ND	ND	ND	ND	NA	ND
Anthracene	50**	ND	ND	ND	18	NA	ND
Aniline	5	ND	ND	ND	ND	NA	ND
Benzidine	5	ND	ND	ND	ND	NA	ND
Benzo(a)anthracene	0.002	ND	ND	ND	**3.9**	NA	ND
Benzo(a)pyrene	0***	ND	ND	ND	ND	NA	ND
Benzo(b)fluoranthenef	0.002	ND	ND	ND	ND	NA	ND
Benzo(g,h,i)perylene	NS	ND	ND	ND	ND	NA	ND
Benzo(k)fluoranthenef	0.002	ND	ND	ND	ND	NA	ND
Benzoic acid	NS	ND	ND	ND	ND	NA	ND
Benzyl alcohol	NS	ND	ND	ND	ND	NA	ND
Benzyl butyl phthalate	NS	ND	ND	ND	ND	NA	ND
Bis(2-chloroethoxy) methane	5	ND	ND	ND	ND	NA	ND
Bis(2-chloroethyl)ether	1	ND	ND	ND	ND	NA	ND
Bis(2-chloroisopropyl)ether	NS	ND	ND	ND	ND	NA	ND
Bis(2-ethylhexyl)phthalate	5	ND	ND	ND	**7.1**	NA	ND
Carbazole	NS	ND	ND	ND	ND	NA	ND
Chrysene	0.002	ND	ND	ND	**4.7**	NA	ND
Dibenzo(a,h)anthracene	NS	ND	ND	ND	ND	NA	ND
Dibenzofuran	NS	ND	ND	ND	13	NA	ND
Diethyl phthalate	50**	ND	ND	ND	ND	NA	ND
Dimethylphthalate	50**	ND	ND	ND	ND	NA	ND
Di-n-butylphthalate	50**	ND	ND	ND	ND	NA	ND
Di-n-octylphthalate	50**	ND	ND	ND	ND	NA	ND
Fluoranthene	50**	ND	ND	ND	15	NA	ND
Fluorene	50**	ND	ND	ND	48	NA	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	NA	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	NA	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	NA	ND
Hexachloroethane	5	ND	ND	ND	ND	NA	ND
Indeno(1,2,3-cd)pyrene	.002**	ND	ND	ND	ND	NA	ND
Isophorone	50**	ND	ND	ND	ND	NA	ND
m&p-Cresol	NS	ND	ND	ND	ND	NA	ND
Naphthalene	10**	ND	ND	ND	ND	NA	ND
Nitrobenzene	0.4	ND	ND	ND	ND	NA	ND
N-Nitrosodimethylamine	NS	ND	ND	ND	ND	NA	ND
N-Nitrosodi-n-propylamine	NS	ND	ND	ND	ND	NA	ND
N-Nitrosodiphenylamine	50**	ND	ND	ND	ND	NA	ND
Pentachloronitrobenzene	0***	ND	ND	ND	ND	NA	ND
o-Cresol	NS	ND	ND	ND	ND	NA	ND
Pentachlorophenol	1**	ND	ND	ND	ND	NA	ND
Phenanthrene	50**	ND	ND	ND	**94**	NA	ND
Phenol	1**	ND	ND	ND	ND	NA	ND
Pyrene	50**	ND	ND	ND	34	NA	ND

TABLE 3
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Chemical Compound	NYS DEC Groundwater Quality Standards Class GA	Remedial Investigation May 20, 2014 Groundwater Results (ug/L)					
	ug/L	EXT 1 U	EXT 2 U	DUP052014 U (EXT 2)	EXT 3 U	TB	FB052014 U
DATE		5/20/2014	5/20/2014	5/20/2014	5/20/2014	5/20/2014	5/20/2014
Pesticides by SW8081							
4,4'-DDD	0.2	ND	ND	ND	ND	NA	ND
4,4-DDE	0.2	ND	ND	ND	ND	NA	ND
4,4-DDT	0.2	ND	ND	ND	ND	NA	ND
alpha-BHC	NS	ND	ND	ND	ND	NA	ND
Aldrin	.004	ND	ND	ND	ND	NA	ND
beta-BHC	NS	ND	ND	ND	ND	NA	ND
Chlordane	0.05	ND	ND	ND	ND	NA	ND
delta-BHC	NS	ND	ND	ND	ND	NA	ND
Dieldrin	.001*	ND	ND	ND	ND	NA	ND
Endosulfan I	.001**	ND	ND	ND	ND	NA	ND
Endosulfan II	.001**	ND	ND	ND	ND	NA	ND
Endosulfan sulfate	.001**	ND	ND	ND	ND	NA	ND
Endrin	0***	ND	ND	ND	ND	NA	ND
Endrin aldehyde	5	ND	ND	ND	ND	NA	ND
gamma-BHC (Lindane)	NS	ND	ND	ND	ND	NA	ND
Heptachlor	0.04	ND	ND	ND	ND	NA	ND
Heptachlor epoxide	0.03	ND	ND	ND	ND	NA	ND
Methoxychlor	35	ND	ND	ND	ND	NA	ND
Toxaphene	0.06	ND	ND	ND	ND	NA	ND
PCBs by 608/8082							
Aroclor-1016	*	ND	ND	ND	ND	NA	ND
Aroclor-1221	*	ND	ND	ND	ND	NA	ND
Aroclor-1232	*	ND	ND	ND	ND	NA	ND
Aroclor-1242	*	ND	ND	ND	ND	NA	ND
Aroclor-1248	*	ND	ND	ND	ND	NA	ND
Aroclor-1254	*	ND	ND	ND	ND	NA	ND
Aroclor-1260	*	ND	ND	ND	ND	NA	ND
Aroclor-1262	*	ND	ND	ND	ND	NA	ND
Aroclor-1268	*	ND	ND	ND	ND	NA	ND
Total PCBs	0.09*	ND	ND	ND	ND	ND	ND

NOTES:
NA = not analyzed
NS = no regulatory standard
NS = not detected above the laboratory detection limit
Numbers in red are equal to or exceed NYSDEC Class GA Water Quality Standards
* : NYSDEC Class GA Water Quality Standard applies to the sum of this compound plus all isomers.
**: No standard under NYSDEC Class GA Water Quality Standards, Guidance Value Only
***: Any detection concentration represents an exceedance of NYSDEC Class GA Water Quality Standards
J: Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration.
B: Analyte is found in the associated method blank

TABLE 4
Soil Gas Results
(ug/m^3)

Sample ID Date	Base 1 6/4/14	Qual.	Dilution Factor	Reporting Limit	Base 2 6/4/14	Qual.	Dilution Factor	Reporting Limit	Base 3 6/4/14	Qual.	Dilution Factor	Reporting Limit	AMB060414	Qual.	Dilution Factor	Reporting Limit
Acetone	34.1		1.55	3.7	162	E	1.44	3.5	72		2.4	5.8	39.8		1.83	4.4
Benzene	2.6		1.55	0.5	3.7		1.44	0.47	2.7		2.4	0.78	0.61		1.83	0.59
Benzyl chloride	ND		1.55	1.6	ND		1.44	1.5	ND		2.4	2.5	ND		1.83	1.9
Bromodichloromethane	ND		1.55	2.1	ND		1.44	2	ND		2.4	3.3	ND		1.83	2.5
Bromoform	ND		1.55	3.3	ND		1.44	7.6	ND		2.4	5	ND		1.83	9.6
Bromomethane	ND		1.55	1.2	ND		1.44	1.1	ND		2.4	1.9	ND		1.83	1.4
1,3-Butadiene	ND		1.55	0.7	ND		1.44	1.6	ND		2.4	1.1	ND		1.83	2.1
2-Butanone (MEK)	17.2		1.55	0.93	30.9		1.44	2.6	27		2.4	1.4	6.1		1.83	3.4
Carbon disulfide	ND		1.55	0.98	ND		1.44	0.91	ND		2.4	1.5	ND		1.83	1.2
Carbon tetrachloride	ND		1.55	0.99	ND		1.44	0.92	ND		2.4	1.5	1.7		1.83	1.2
Chlorobenzene	ND		1.55	1.5	ND		1.44	1.4	ND		2.4	2.3	ND		1.83	1.7
Chloroethane	ND		1.55	0.84	ND		1.44	1.9	ND		2.4	1.3	ND		1.83	2.5
Chloroform	29.4		1.55	1.5	9.9		1.44	1.4	4.4		2.4	2.4	ND		1.83	1.8
Chloromethane	ND		1.55	0.65	ND		1.44	0.6	ND		2.4	1	ND		1.83	0.77
Cyclohexane	12.2		1.55	1.1	25.4		1.44	2.5	18.9		2.4	1.7	ND		1.83	3.2
Dibromochloromethane	ND		1.55	2.7	ND		1.44	2.5	ND		2.4	4.2	ND		1.83	3.2
1,2-Dibromoethane (EDB)	ND		1.55	2.4	ND		1.44	5.6	ND		2.4	3.7	ND		1.83	7.1
1,2-Dichlorobenzene	ND		1.55	1.9	ND		1.44	1.8	ND		2.4	2.9	ND		1.83	2.2
1,3-Dichlorobenzene	60.2		1.55	1.9	79.4		1.44	1.8	43.2		2.4	2.9	ND		1.83	2.2
1,4-Dichlorobenzene	ND		1.55	1.9	ND		1.44	1.8	ND		2.4	2.9	ND		1.83	2.2
Dichlorodifluoromethane	1.8		1.55	1.6	1.7		1.44	1.5	ND		2.4	2.4	2.2		1.83	1.8
1,1-Dichloroethane	ND		1.55	1.3	ND		1.44	1.2	ND		2.4	2	ND		1.83	1.5
1,2-Dichloroethane	ND		1.55	0.64	ND		1.44	0.59	ND		2.4	0.98	ND		1.83	0.75
1,1-Dichloroethene	ND		1.55	1.3	ND		1.44	1.2	ND		2.4	1.9	ND		1.83	1.5
cis-1,2-Dichloroethene	ND		1.55	1.3	ND		1.44	1.2	ND		2.4	1.9	ND		1.83	1.5
trans-1,2-dichloroethene	ND		1.55	1.3	2		1.44	1.2	ND		2.4	1.9	ND		1.83	1.5
1,2-Dichloropropane	ND		1.55	1.5	ND		1.44	3.4	ND		2.4	2.3	ND		1.83	4.3
cis-1,3-Dichloropropene	ND		1.55	1.4	ND		1.44	3.3	ND		2.4	2.2	ND		1.83	4.2
trans-1,2-dichloropropene	ND		1.55	1.4	ND		1.44	3.3	ND		2.4	2.2	ND		1.83	4.2
Dichlorotetraflroroethane	ND		1.55	2.2	ND		1.44	2	ND		2.4	3.4	ND		1.83	2.6
Ethanol	1,400		31	29.8	4,290	E	28.8	27.6	2,630	E	38.4	36.9	36.1		1.83	1.8
Ethyl acetate	ND		1.55	1.1	ND		1.44	2.6	ND		2.4	1.8	ND		1.83	3.4
Ethylbenzene	7.1		1.55	1.4	5.1		1.44	1.3	4		2.4	2.1	ND		1.83	1.6
4-Ethyltoluene	3.8		1.55	1.6	3.7		1.44	3.6	3.5		2.4	2.4	ND		1.83	4.6
n-Heptane	9.5		1.55	1.3	9		1.44	3	5.2		2.4	2	ND		1.83	3.8
Hexachloro-1,3-butadiene	ND		1.55	3.4	ND		1.44	3.2	ND		2.4	5.3	ND		1.83	4
n-Hexane	9.2		1.55	1.1	18.1		1.44	1	18.8		2.4	1.7	7.4		1.83	1.3
2-Hexanone	ND		1.55	1.3	ND		1.44	1.2	ND		2.4	2	ND		1.83	1.5
Methylene Chloride	ND		1.55	5.5	ND		1.44	5.1	ND		2.4	8.5	ND		1.83	6.5
4-Methyl-2-pentanone (MIBK)	ND		1.55	1.3	ND		1.44	6	ND		2.4	2	ND		1.83	7.6
Methyl-tert-butyl ether	ND		1.55	1.1	ND		1.44	1.1	ND		2.4	1.8	ND		1.83	1.3
Naphthalene	4.3	SS	1.55	4.1	5	SS	1.44	3.8	ND		38.4	6.4	ND		1.83	4.9
2-Propanol	781		31	38.8	2,380	E	28.8	36	1,540		2.4	48	ND		1.83	2.3
Propylene	ND		1.55	0.54	ND		1.44	1.3	ND		2.4	0.84	ND		1.83	1.6
Styrene	1.4		1.55	1.3	2.1		1.44	1.3	ND		2.4	2.1	ND		1.83	1.6
1,1,2,2-Tetrachloroethane	ND		1.55	1.1	ND		1.44	1	ND		2.4	1.7	ND		1.83	1.3
Tetrachloroethene	43		1.55	1.1	5.7		1.44	0.99	ND		2.4	1.7	1.4		1.83	1.3
Tetrahydrofuran	4.1		1.55	0.93	ND		1.44	2.2	5.6		2.4	1.4	ND		1.83	2.7
Toluene	55		1.55	1.2	56.7		1.44	1.1	41.8		2.4	1.8	13.4		1.83	1.4
1,2,4-Trichlorobenzene	ND		1.55	11.7	ND		1.44	2.2	ND		2.4	18.1	ND		1.83	2.8
1,1,1-Trichloroethane	1.8		1.55	1.7	ND		1.44	1.6	ND		2.4	2.7	ND		1.83	2
1,1,2-Trichloroethane	ND		1.55	0.85	ND		1.44	0.79	ND		2.4	1.3	ND		1.83	1
Trichloroethene	**12.9**		1.55	0.85	3.9		1.44	0.79	ND		2.4	1.3	ND		1.83	1
Trichlorofluoromethane	ND		1.55	1.8	ND		1.44	1.6	ND		2.4	2.7	2.2		1.83	2.1
1,1,2-Trichlorotrifluoromethane	ND		1.55	2.5	ND		1.44	2.3	ND		2.4	3.8	ND		1.83	2.9
1,2,4-Trimethylbenzene	7.3		1.55	1.5	7.8		1.44	3.6	6.5		2.4	2.4	ND		1.83	4.6
1,3,5-Trimethylbenzene	1.9		1.55	1.5	ND		1.44	3.6	ND		2.4	2.4	ND		1.83	4.6
Vinyl acetate	4.3		1.55	1.1	ND		1.44	2.6	4.6		2.4	1.7	8		1.83	3.3
Vinyl chloride	ND		1.55	0.4	ND		1.44	0.37	ND		2.4	0.62	ND		1.83	0.48
m&p-Xylene	24.7		1.55	2.7	19.2		1.44	2.5	15.8		2.4	4.2	ND		1.83	3.2
o-Xylene	7.8		1.55	1.4	6.9		1.44	1.3	5.1		2.4	2.1	2.1		1.83	1.6
Total VOCs	2536.6		-	-	7121		-	-	4449.1	-	-	-	118.91	-	-	-

(1) - NYSDOH CEH BEEI Soil Vapor Intrusion Guidance: Guidance values derived by NYSDOH - numbers in RED and highlighted in yellow exceed the NYSDOH guidance values

Methylene Chloride - 60 ug/m^3
Trichloroethene - 5 ug/m^3
Tetrachloroethene - 100 ug/m^3

Data Qualifiers

E - Analyte concentration exceeded the calibration range. The reported result is estimated

SS - This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimate value.

APPENDIX 1

156 TILLARY STREET

BROOKLYN, NEW YORK

Phase I Environmental Site Assessment Report

Prepared for:

Brooklyn LW Hotel Associates, L.P.

8100 E 22nd Street #500

Wichita, KS 67226

Prepared by:

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New York, NY 10119

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JANUARY 7, 2013

EXECUTIVE SUMMARY

Phase I Environmental Site Assessment
156 Tillary Street
Brooklyn, New York 11201

URS Corporation – New York (URS) was retained by Brooklyn LW Hotel Associates, LP to conduct a Phase I Environmental Site Assessment (ESA) of the property situated at 156 Tillary Street, Brooklyn, New York 11201(subject property). The purpose of URS' Phase I ESA was to gather information about the subject property and surrounding areas to identify releases and threatened releases of hazardous substances, pollutants and contaminants, petroleum or petroleum products, and controlled substances on, at, in or to the subject property that would represent a Recognized Environmental Condition (REC).

This Phase I ESA was performed in conformance with the United States Environmental Protection Agency (USEPA) 40 CFR Part 312 Standards and Practices for All Appropriate Inquiries (AAI) – Final Rule approved November 1, 2005, and the ASTM Standard Practice for Environmental Site Assessments (Standard E 1527-05) approved November 18, 2005.

The subject property is in a mixed residential/commercial area of Brooklyn, Kings County, New York and is located on the southeast corner of the intersection of Flatbush Ave. Extension and Tillary Street, Brooklyn, New York. According to the New York City Department of Buildings website, the Building Identification Number (BIN #) for this property is 3000250 and Tax Block 133, Lot 15.

According to a review Sanborn Fire Insurance Maps, and the City Directory, the subject property was developed around 1900. The subject property is comprised of one lot parcel in the 1904 and is identified as a "Furniture Storage Building." By the 1930's the subject property is identified as the "Manhattan Drug Company." The surrounding area appears to be mainly developed lots with primarily identified dwellings, with an auto repair and garage right west of the subject property. By the 1950's, the subject property appears as it is does today; reportedly the building has been vacant the last 25 years.

Topographic map coverage of the subject property is provided by the U.S. Geological Survey's Brooklyn, New York 7.5-minute quadrangle map (1995). The subject property is situated approximately 28 feet above Mean Sea Level (MSL) and local ground surface elevation slopes downward to the east. Based on the topography, groundwater flow is presumed to be towards the east. Based on a Geotechnical Evaluation of the adjacent property (125 Flatbush), the depth to bedrock is approximately 97 feet below the ground surface the groundwater is approximately 14 ft bgs.

URS observed evidence of hazardous substances/materials on the subject property during the site reconnaissance. There were approximately six five gallon buckets of what appeared to be used oil or cooking grease. They were located on the ground floor, on the northern side of the building and in the basement, near the boiler room. It is URS' opinion that hazardous substances/wastes are not a REC to the subject property but should be disposed in accordance with applicable laws and regulations governing hazardous waste.

Based on the available information and our site inspection, URS identified RECs (Recognized Environmental Concerns) for the subject property. Two on-site RECs (historical usage as a drug company and an "e" designation) and several off-site RECs (various off-site industrial/hazardous waste remediation projects) were identified for this property.

Various historical records/documents indicated that the subject property was utilized for the manufacture of cosmetics and pharmaceuticals. Additionally, various properties undergoing remediation and hazardous waste cleanup were adjacent and proximate to the subject property. Therefore, there is a potential for historic site operations and/or other industrial sites to have impacted soil groundwater and/or soil vapor quality at the subject property.

Given the subject property's "e" designation and historical usage identified above, URS recommends a Phase II investigation of soil, groundwater and subsurface vapor following demolition of the building and prior to any new development. However, before the implementation of a Phase II investigation URS recommends a review of the regulatory files of the adjacent properties undergoing remediation. Since the subject property is likely to be re-developed for residential use, structures at the site should be constructed with sub-slab depressurization systems and/or vapor barriers to prevent the potential migration of contaminate vapors present in unexcavated soils and/or groundwater beneath the site. Additionally, URS recommends an asbestos survey of all building materials.

TABLE OF CONTENTS

SECTION **PAGE**

EXECUTIVE SUMMARY i

1.0 INTRODUCTION 1

1.1 PURPOSE 1

1.2 SCOPE OF SERVICES 1

1.3 LIMITING CONDITIONS 1

1.4 LIMITATIONS AND EXCEPTIONS 1

2.0 SITE DESCRIPTION 3

2.1 LOCATION AND LEGAL DESCRIPTION 3

2.2 CURRENT USE OF THE PROPERTY 3

2.3 CURRENT USES OF THE ADJOINING PROPERTIES 3

2.4 ENVIRONMENTAL SETTING 4

2.4.1 Topography 4

2.4.2 Soils 4

2.4.3 Hydrogeologic Conditions 4

2.4.4 Surface Water 5

2.4.4 Wetlands 5

3.0 USER PROVIDED INFORMATION 6

3.1 TITLE RECORDS 6

3.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS 6

3.3 SPECIALIZED KNOWLEDGE 6

3.4 PREVIOUS INVESTIGATIONS 6

4.0 REGULATORY AGENCY REVIEW 7

4.1 ENVIRONMENTAL DATABASES REVIEW 7

4.1.1 Subject Property 8

4.1.2 Adjacent Properties 8

4.1.3 Federal RCRA Lists 8

4.1.2 State Hazardous Waste Sites (SHWS)....9
4.1.3 Vapor Reopened....10
4.1.4 Solid Waste/Landfill Facilities (SWF/LS)....10
4.1.5 New York State Leaking Underground Storage Tanks (LTANKs)....10
4.1.6 New York State Spills Database....11
4.1.7 Petroleum Bulk Storage Tanks (UST/AST)....12
4.1.8 Engineering and/or Institutional Controls (ENG/INST CONTROLS)....13
4.1.9 Voluntary Cleanup Agreement (VCP)....13
4.1.10 New York Brownfields....13
4.1.11 Major Oil Storage Facility (MOSF)....14
4.1.12 Manifests....14
4.1.13 "E" Designation....15
4.1.14 Dry Cleaners....15
4.1.15 Orphan Sites....15
4.2 REGULATORY AGENCY CONTACT....15
5.0 HISTORIC SITE AND SURROUNDING PROPERTY CONDITIONS....17
5.1 INTERVIEWS....17
5.2 AERIAL PHOTOGRAPHS....17
5.3 SANBORN FIRE INSURANCE MAPS....18
5.4 CITY DIRECTORIES....19
5.5 TOPOGRAPHIC MAPS....19
6.0 SITE RECONNAISSANCE....20
6.1 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS....20
6.2 HAZARDOUS WASTES....20
6.3 STORAGE TANKS....20
6.4 DRUMS AND CONTAINERS....20
6.5 PCB-CONTAINING EQUIPMENT/ HIGH TENSION OVERHEAD POWER LINES....20

6.6 DRAINS AND SUMPS 21
6.7 PITS, PONDS, AND LAGOONS 21
6.8 SOLID WASTE 21
6.9 WASTEWATER 21
6.10 WELLS 21
6.11 DRY CLEANERS 21
6.12 EMERGENCY GENERATORS 21
6.13 OZONE-DEPLETING SUBSTANCES 21
6.14 OTHER PHYSICAL EVIDENCE OF CONTAMINATION 22
6.15 UTILITIES 22
6.16 ASBESTOS-CONTAINING MATERIALS 22
8.0 CONCLUSIONS 24
8.1 FINDINGS 24
8.2 DEVIATIONS 24
8.3 USER OBLIGATION 24
9.0 REFERENCES 26
10.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS 27

List of Figures

Figure 1 Topographic Site Location Map

List of Appendices

Appendix A User Questionnaire
Appendix B EDR Radius Map with GeoCheck® - Executive Summary
Appendix C EDR Aerial Photo Decade Package
Appendix D EDR Sanborn Map Report
Appendix E EDR-City Directory Abstract
Appendix F EDR Historical Topographic Map Report
Appendix G Photographs
Appendix H Curricula Vitae of URS Personnel

1.0 INTRODUCTION

URS Corporation – New York (URS) was retained by Brooklyn LW Hotel Associates, LP to conduct a Phase I Environmental Site Assessment (ESA) of the property at 156 Tillary Street, Brooklyn, New York (subject property). This Phase I ESA was performed in substantial conformance with the United States Environmental Protection Agency (USEPA) 40 CFR Part 312 *Standards and Practices for All Appropriate Inquiries* (AAI) – *Final Rule* approved November 1, 2005 and the ASTM *Standard Practice for Environmental Site Assessments* (Standard E 1527-05) approved November 18, 2005. The Phase I ESA objectives, scope, and limitations are presented in the following sections.

1.1 PURPOSE

The purpose of URS' Phase I ESA Update was to gather information about the subject property and surrounding areas to identify releases and threatened releases of hazardous substances, pollutants and contaminants, petroleum or petroleum products, and controlled substances on, at, in or to the subject property that would represent a Recognized Environmental Condition (REC).

1.2 SCOPE OF SERVICES

The scope of services consisted of visual observation of site conditions during a site visit performed by Mr. Robert Wolff on December 20, 2012, interviews with representatives of the subject property, searches for recorded environmental liens, reviews of government records, and assessing the degree of obviousness of the presence or likely presence of contamination at the property. Curricula vitae for URS personnel involved in the preparation of this report are presented in Appendix A. The specific scope of services is detailed in URS' proposal and dated October 26, 2012, as authorized by Brooklyn LW Hotel Associates, LP.

1.3 LIMITING CONDITIONS

URS' site reconnaissance included a walking survey of areas that were accessible by foot, and a walking survey of surrounding and adjacent properties, including those properties identified in the environmental database search.

1.4 LIMITATIONS AND EXCEPTIONS

URS has performed the Scope of Services set forth in the Proposal(s) related to this project, as they may have been amended (the "Proposals"), in specific reliance on the understandings and agreements reached between URS and Brooklyn LW Hotel Associates, LP and its affiliates ("Client or Lender") as reflected in the Proposals and the written agreement between them (the "Agreement"). URS' Scope of Services was limited to that stated in the Proposal(s). Without limiting the generality of the foregoing, and to insure that there are no misunderstandings regarding the scope of URS' activities, be advised that the Scope of Services did not include

indoor air quality issues nor structural, electrical or mechanical issues, a full asbestos survey, wetlands assessments, or other activities not expressly described in the Proposal or in URS' report for the work. URS did not assess/compare the purchase price to the fair market value of the property, as this was not included in the requested scope of services.

The Report and any other information which URS prepared and submitted to Client in connection with this project (collectively, the "Reports") are for the sole use and benefit of Client and may not be used or relied upon by any other person or entity without the prior written consent of Client and URS. Any such consent given by URS shall be deemed to be and shall be subject to the terms and conditions of the Proposals and the Agreement, including without limitation, the warranty, liability and indemnity terms thereof, and any person given such consent (the "Grantee") shall be deemed to have agreed to such terms and conditions by its use and reliance on the Reports. Such Grantee must also agree not to reveal the contents of the Reports to any other person or entity without the prior written consent of both Client and URS.

URS' services in the development of this Report were conducted, within the limits prescribed by the Agreement, in a manner consistent with that level of care and skill ordinarily exercised by members of the same professions currently practicing in the same locality under similar conditions and no other guaranty, warranty, or representation, either expressed or implied, is included or intended herein.

Client recognizes and agrees that:

1. The information in the Reports relates only to the property specifically described in the Proposal and Report;
2. The information and conclusions provided in the Report apply only to the subject property as they existed at the time of URS' site examination. Should site use or conditions change or should there be changes in applicable laws, standards or technology, the information and conclusions in the Report may no longer apply;
3. URS makes no representations regarding the value or marketability of this property or it's suitability for any particular use, and none should be inferred based on the Report;
4. The Report is intended to be used in its entirety and no excerpts may be taken to be representative of the findings of this investigation.

2.0 SITE DESCRIPTION

Information concerning the subject property was gathered during a site reconnaissance conducted by Mr. Robert Wolff of URS on December 20, 2012 and from documents referenced in Section 9.0 of this report. The site reconnaissance consisted of a walking tour and visual observations around the interior and perimeter of the subject property.

2.1 LOCATION AND LEGAL DESCRIPTION

The subject property is in a mixed residential/commercial area of Brooklyn, Kings County, New York. The subject property is located on the southeast corner of the intersection of Flatbush Ave. Extension and Tillary Street, Brooklyn, New York 11201. According to the New York City Department of Buildings website, the Building Identification Number (BIN #) for this property is 3000250 and Tax Block 133, Lot 15.

The general location of the subject property is shown on the Topographic Location Map, Figure 1.

2.2 CURRENT USE OF THE PROPERTY

At the time of the site reconnaissance, the subject property consisted of a four-story 5,800 square foot building with a basement. Reportedly, the building has been vacant for the past 25 years.

The City of New York provides potable water and sanitary sewer services. Consolidated Edison Company of New York (ConEd) provides electric service and National Grid provides natural gas service. According to the Department of City Planning, the subject property is currently mixed zoning, C6-4 (High-rise commercial buildings) and is within the "Dumbo" district of Brooklyn.

2.3 CURRENT USES OF THE ADJOINING PROPERTIES

URS performed a visual survey of readily visible areas of adjacent properties. The following description of the current uses of adjoining properties and surrounding properties of potential environmental concern is based on URS' observations on the date of the site survey.

The subject property is located in Brooklyn, New York (Figure 1). In general, prominent adjoining land uses are as follows:

North: The subject property is bordered on the north by Tillary Street (six lanes), an active construction site on the northeast corner of Tillary and Flatbush, Duffield Street and a surface parking lot for rental trucks. To the northwest is McLaughlin Park.

South: The subject property is bordered on the south by an alley and a six-story that is used by the 84th Precinct of the NYPD.

East: The subject property is bordered on the east by an alley and seven-story

commercial building, Gold Street and a FDNY firehouse.

West: The subject property is bordered to the west by former 125 Flatbush Avenue, currently undergoing remediation as part of a Brownfields Program, Flatbush Avenue Extension (six lanes) and a large FDNY building on the west side of Flatbush Avenue.

The off-site property at 125 Flatbush is considered an off-site REC.

2.4 ENVIRONMENTAL SETTING

Environmental characteristics including topography, geology, and hydrogeology were evaluated based on site observations, published literature, and available maps.

2.4.1 Topography

According to the USGS 7.5-Minute Topographic Map, Brooklyn, New York, Quadrangle (1995), the subject property lies at an elevation of approximately 28 feet above mean sea level and is in a generally topographic low point. In general, the ground surface elevation slopes downward to the east. So, properties located to the west of the subject property are assumed to be upgradient.

2.4.2 Soils

The native soil in the vicinity of the subject property is categorized as Urban Land with heterogeneous composition. The EDR report indicates that other subordinate soil types that may appear in the general area of the subject property include silt loam, loamy sand, sandy loam and fine sandy loam. Based on a Geotechnical Evaluation of the adjacent property (125 Flatbush), the subsurface conditions are likely to consist of mainly sandy fill overlying a dense to very dense gravelly sand layer.

2.4.3 Hydrogeologic Conditions

The subject property is located in the New England Upland Physiographic Province. The geology is primarily characterized by metamorphic and igneous rocks of Precambrian and Early Paleozoic age. A small eastern projection of the New England Upland is known as the Manhattan Prong, and it is this igneous and predominantly metamorphic bedrock that underlies much of southwestern Connecticut, Westchester County and New York City.

The geology of the subject property area consists of uplifted metamorphic basement rock overlain by unconsolidated mounds of glacial drift material and fill material. Basement rocks underlying the Metropolitan area consist of Precambrian age Fordham Gneiss, overlain by the Inwood Dolomitic Marble and Ordovician Manhattan Schist. Unconsolidated deposits overlying

the bedrock consist of anthropogenic fill material and glacial till and drift composed of clay, sand, gravel and assorted debris. Based on a Geotechnical Evaluation of the adjacent property (125 Flatbush), the depth to bedrock is approximately 97 feet below the ground surface and depth to water 24 feet bgs; however, the exact depth to bedrock and the nature of the unconsolidated material underlying the subject property are not known.

The local topography, geology and surficial drainage patterns are tools used to evaluate the properties of local shallow groundwater flow. Groundwater most likely exists within the overburden sediments and fills and may also be interconnected through fractures to the underlying bedrock. Groundwater is currently not used in Brooklyn as public, potable water supply, however it is still classified as Class GA groundwater by the NYSDEC. Based on the topography and surficial drainage patterns shown on the (U.S.G.S.) 7.5 minute topographic quadrangle map, Brooklyn, NY, it appears that the direction of groundwater flow is topographically downgradient to the east. A hydrogeological investigation would be necessary to delineate the precise direction of shallow groundwater flow.

2.4.4 Surface Water

There were no surface water bodies observed on the subject property, which is located in a highly urbanized neighborhood in the New York City borough of Brooklyn. The closest surface water body is the East River, approximately 3,500 feet northwest of the subject property. The subject property is improved with a four-story building that covers the surface area of the property; therefore stormwater is unlikely to penetrate naturally into the ground. Local surface water runoff in the vicinity is directed to the New York City Department of Environmental Protection (NYCDEP) storm sewers.

According to the EDR Radius Map, the subject property is not located in the 100- or 500-year floodplains.

2.4.4 Wetlands

URS reviewed a United States Department of Interior, United States Fish & Wildlife Service National Wetlands Inventory (NWI) Map provided in the EDR Radius Map Report. According to the NWI Map, wetland areas were not identified on the subject property or in the surrounding areas.

3.0 USER PROVIDED INFORMATION

As required by AAI, additional inquiries are required to be conducted by the property purchaser. These inquiries include:

1. Identification of environmental cleanup liens against the subject property;
2. Specialized knowledge or experience regarding the subject property;
3. Relationship of the purchase price to the fair market value if the subject property was not contaminated; and
4. Commonly known or reasonably ascertainable information regarding the subject property; and
5. Degree of obviousness of the presence or likely presence of contamination at the subject property.

URS provided the site contact, with a User Questionnaire for the transmittal of the above information. She was unable to complete the questionnaire but a blank copy is attached in Appendix A. Information regarding observations of obvious contamination is presented in this report. URS did not assess/compare the purchase price to the fair market value of the property, as this was not included in the requested scope of services.

3.1 TITLE RECORDS

Procurement and review of a 50 Year Chain-of-Title was not included in the scope of services for this project.

3.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

An environmental lien search was not included as part of the Scope of Work for this project.

3.3 SPECIALIZED KNOWLEDGE

No specialized information and/or knowledge were identified that affects the conclusions in this report. Information from the property owner or from site contacts was not provided to URS.

3.4 PREVIOUS INVESTIGATIONS

URS was not provided with any previous environmental reports associated with this property.

4.0 REGULATORY AGENCY REVIEW

4.1 ENVIRONMENTAL DATABASES REVIEW

URS reviewed information gathered from several environmental databases through EDR to evaluate whether activities on or near the subject property have the potential to create an REC on the subject property. EDR reviews databases compiled by Federal, State, and local governmental agencies. The complete list of databases reviewed by EDR is provided in EDR's report, which is included in Appendix B. It should be noted that this information is reported as URS received it from EDR, which in turn reports information as it is provided in various government databases. It is not possible for either URS or EDR to verify the accuracy or completeness of information contained in these databases. However, the use of and reliance on this information is a generally accepted practice in the conduct of environmental due diligence. The subject property was identified in three databases.

The databases searched and their respective search radii are as follows:

Federal and State List	Site Appears on List	Search Radius*	No. of Sites within Search Radius	Last Updated
National Priorities List for Federal Superfund Cleanup (NPL)	No	1 mile	0	6/30/11
Comprehensive Environmental Response, Compensation, and Liability Information System (CERLIS)	No	1 mile	0	2/25/11
Resource Conservation and Recovery Act (RCRA) Corrective Action Activity (CORRACTS)	No	1 mile	0	8/19/2011
Resource Conservation and Recovery Information System-Treatment, Storage, Disposal Facility (RCRA-TSDFs)	No	1 mile	0	6/15/11
Federate Resource Conservation and Recovery Act (RCRA) Generator List (LQG, SQG, CESQG)	No	¼ mile	16	3/15/2012
Resource Conservation and Recovery Act Information (RCRA Info-Non-Gen)	No	¼ mile	49	3/15/2012
State Hazardous Waste Site (SHWS)	No	1 mile	3	8/20/2012
Vapor Reopened –Vapor Intrusion Legacy Site List	No	1 mile	0	8/1/2011
Solid Waste Facilities/Landfill Sites (SWF/LS)	No	½ mile	1	7/6/2012
New York State Leaking Underground Storage Tanks (LTANKs)	No	½ mile	39	8/20/2012
New York State Spills Information (NY Spills)	Yes	1/8 mile	40	8/20/2012
New York State Spills Information (NY Historical Spills)	No	1/8 mile	28	8/20/2012
Petroleum Bulk Storage Tanks (USTs/ASTs)	Yes	¼ mile	23	7/2/2012
Engineering and/or Institutional Controls (ENG/INST CONTROLS)	No	½ mile	2	8/20/2012
Voluntary Cleanup Agreement (VCP)	No	½ mile	1	8/20/2012
New York Brownfields (BROWNFIELDS)	No	½ mile	3	8/20/2012

Major Oil Storage Facility (MOSF)	No	1 mile	0	1/3/2012
Manifest	No	¼ mile	53	8/1/2012
"E" Designation	Yes	1/8 mile	29	9/12/2012
Dry Cleaners	No	¼ mile	1	6/20/2012
Federal CERCLIS NFRAP Site List-CERC-NFRAP	No	½ mile	4	12/28/2011
HIST LTANKS	No	½ mile	33	1/1/2002
DEL SHWS	No	1 mile	1	8/20/2012
State and Tribal Registered Storage Tank Lists- CBS AST	No	¼ mile	1	1/1/2002
HSWDS	No	½ mile	4	1/1/2003
Manufactured Gas Plants	No	1 mile	3	1950s

* The surrounding area search radius indicates the radial area (measured from the Site) for which the database review was performed.

4.1.1 Subject Property

The subject property address was identified in three (3) of the following above agency databases: UST database for a tank that was reported closed on December 29, 2003; the NY Spills database for a spill that was reportedly closed on January 7, 2004; and two "E" designations assigned on June 28, 2004 for Underground Gasoline Storage Tanks Testing Protocol and Window Wall Attenuation & Alternate Ventilation. Since the UST is closed and the regulatory agency closed the spill number, it is URS' opinion that the UST and NY Spills listings do not represent environmental concerns for the subject property at this time. The "E" designations are attached to the property based on historic usage and noise concerns. These are designations are considered recognized environmental concerns.

4.1.2 Adjacent Properties

Properties contiguous to the subject property were not reported on the regulatory review from EDR.

4.1.3 Federal RCRA Lists

The EPA's Resource Conservation and Recovery Act's (RCRA) Corrective Action Activity (CORRACTS) database was reviewed to determine if RCRA treatment, storage, or disposal sites (TSDs) facilities that have conducted, or are currently conducting, corrective action(s) as regulated under RCRA are within 1-mile of the subject property.

There are no facilities within a one mile radius of the Site are listed in the CORRACTS database.

Sixteen properties, including three large quantity generators (LQG), two small quantity generators (SQG), and eleven conditionally exempt small quantity generators (CESQG) were reported on the RCRA Info generators database within quarter mile radius of the Site. Fourteen of these properties, including three LQG, two SQG and nine CESQG, are located

topographically upgradient of the Site and are summarized below:

Listing	Distance/ Direction	Assumed Hydraulic Gradient*	Status/Available Data
Merit Oil Corp. 132 Flatbush Ave.	< 1/8mile SW	Upgradient	CESQG – No violations listed.
Gold Street Holdings, 235-263 Gold St.	< 1/8 mile NNE	Upgradient	CESQG – No violations listed.
R & P Dry Cleaners, 167 Myrtle Ave.	< 1/4 mile SSE	Upgradient	CESQG – No violations listed.
SIAC, 2 Metrotech Center- FL	< 1/4 mile SW	Upgradient	CESQG – No violations listed.
Con Edison, Jay St. and Concord St.	< 1/4 mile NW	Upgradient	CESQG – No violations listed.
Polytechnic University, 333 Jay St.	<1/4 mile SW	Upgradient	SQG – No violations listed.
Metrotech National, 1 Metrotech Center	< 1/4 mile SW	Upgradient	SQG – No violations listed.
Concord Cleaners, 65 Tillary St.	< 1/4 mile W	Upgradient	CESQG – No violations listed.
NYCTA, 212 Jay St.	< 1/4 mile NW	Upgradient	CESQG – No violations listed.
Verizon, 360 Bridge St.	< 1/4 mile SSW	Upgradient	CESQG – No violations listed.
NY Telephone Company, 101 Willoughby St.	< 1/4 mile SSW	Upgradient	CESQG – No violations listed.
147 Flatbush Ave, LLC, 147 Flatbush Ave	< 1/8 mile SSW	Upgradient	LQG – No violations listed.
Avalon Gold, LLC, 343 Gold St.	< 1/8 mile SSE	Upgradient	LQG – No violations listed.
Red Apple, 180 Myrtle Ave.	< 1/4 mile SSE	Upgradient	LQG – No violations listed.

* Based on surface topography interpreted through the topographic map and site reconnaissance.

None of the upgradient facilities on the RCRA Info generators database are listed on databases that report releases, spills, or other incidents. Based on the assumed hydraulic gradient, current regulatory status and the absence of reported releases, RCRA Info generator facilities are not considered to be of environmental significance to the subject property.

4.1.2 State Hazardous Waste Sites (SHWS)

The New York State Inactive Hazardous Waste Sites database, compiled by the NYSDEC, maintains information regarding the investigation and cleanup of suspected hazardous waste sites. Four properties were reported on the SHWS database within 1-mile radius of the Site with one of these properties is located topographically upgradient of the Site. The APEX Thermoplastics facility operated in the 1960's and is located approximately 0.4 mile from the subject property. It is classified as a "dump", though an assessment performed by NYSDEC in 1980 found no evidence of disposal at the site. This site is also on the Hazardous Substance Waste Disposal Site (HSWDS) list and the No Further Remedial Action Planned (NFRAP) list. Based on the NFRAP and the distance from the subject property, URS does not consider this site an environmental concern.

4.1.3 Vapor Reopened

The Vapor Reopened database maintains a list of sites that have the potential for exposures related to soil vapor intrusion.

No property was reported on the Vapor Reopened database within 1-mile radius of the subject property.

4.1.4 Solid Waste/Landfill Facilities (SWF/LF)

The SW/LF database is a comprehensive listing of State permitted/recorded solid waste facilities.

One property was reported on the SWF/LF database within a half mile radius of the subject property. The Babylon Methane Recovery was involved with landfill gas recovery and is located approximately 0.48 mile crossgradient from the subject property. It is flagged as inactive; the expiration date of the facility was 1988. Given the distance from the subject property and the duration of inactivity at the site, URS does not consider this an environmental concern.

4.1.5 New York State Leaking Underground Storage Tanks (LTANKs)

The NYS LTANKS sites were researched to identify listings within one-half mile of the subject property.

Thirty nine LTANKS facilities were identified within a one-half mile radius of the subject property. The LTANKS facilities in closest proximity to the subject property have the greatest potential of affecting environmental conditions at the subject property.

There is one LTANKS facility that is 0.055 mile from the subject property. The New York Police Department, Precinct 84 is topographically crossgradient to the subject site and has several reported spills as well as contaminated soil found upon the removal of an UST. The site is currently undergoing remediation for soil and groundwater contamination with a remediation system installed to service this site and adjacent Engine Co. 207. Based on close proximity of the ongoing remediation, this site is considered an off-site recognized environmental concern.

There is one LTANKS facility that is 0.064 mile from the subject property. Sunoco #0007-1548 is topographically crossgradient to the subject site and had a reported tank overfill in November, 2000 of 25 gallons of gasoline that drained into a catch basin; the spill number was closed in 2004. There are several additional spills reported to the DEC that are still open. The site is currently undergoing active remediation. Despite the assumption that the site is crossgradient to the subject property, based on the proximity and the current remediation, this site is considered an off-site REC.

Thirty of the LTANK sites are upgradient or crossgradient of the subject property and at least 0.11 mile from the subject property; and six are downgradient, at least 0.26 mile from the site. Based on regulatory status, distance, and gradient, these LTANK sites are not considered a REC

to the subject property.

4.1.6 New York State Spills Database

The NY Spills database was researched to identify listings within one-eighth mile of the subject property.

Thirty-nine Spill locations were identified within a one-eighth mile radius of the subject property. Twenty-six spill sites are considered upgradient or crossgradient of the subject property by EDR. Because of overlap in spill locations in the EDR reporting, there are twenty listings below.

Listing	Distance/ Direction	Assumed Hydraulic Gradient*	Status/Available Data
Manhole 753- Flatbush Ave. & Tillary St.	< 1/8 mile W	Upgradient	Spill No. 9906709 issued on 9/5/99 as a result of 25 gals of oil spilled in a catch basin. Spill closed on 11/9/99. Spill No. 9907816 issued on 9/28/99 as a result of an unknown. Spill was closed on 11/30/99.
Drum Run- Flatbush Ave. & Tillary St.	< 1/8 mile W	Upgradient	Spill No. 0704163 issued on 7/12/07 as a result of an unknown. Corrective action taken and spill was closed on 8/9/07.
Transformer Manhole T- Flatbush Ave. & Tillary St.	< 1/8 mile W	Upgradient	Spill No. 9906701 issued on 9/5/99 as a result of equipment failure. Spill was closed on 11/9/99.
11 Metrotech Center-11 Metrotech Center	< 1/8 mile WNW	Upgradient	Spill No. 9100147 issued on 4/3/91 as a result of 200-300 gallon petroleum in an excavation site, explosion occurred. Corrective action taken and spill was closed on 12/30/09.
TA Police Academy- 300 Gold St.	< 1/8 mile SSE	Upgradient	Spill No. 0613532 issued on 3/16/07 as a result of equipment failure. Corrective action taken. Spill was closed on 3/16/07.
NYPD 84 Precinct- 301 Gold St.	< 1/8 mile SSE	Upgradient	Spill No. 9308194, 9601161, 9601818 issued on 10/6/93, 4/23/96, 5/6/96 as a result of overfilled tank. Petroleum contained and spills were closed on 10/6/93, 12/10/04, 12/4/04.
Sunoco #007-1548- 85 Flatbush Ave.	< 1/8 mile NW	Upgradient	Spill No. 9501269 issued on 4/29/95as a result of equipment failure. Corrective action taken and spill was closed on 4/30/95.
Manhole #62493- Flatbush Ave. & Tillary St.	< 1/8 mile NW	Upgradient	Spill No. 9907850 issued on 9/28/99 a result of an unknown. Corrective action taken and spill was closed on 12/14/99.
Manhole #712- 259 Gold St.	< 1/8 mile NNE	Upgradient	Spill No. 0011044, 0514802, 0812501 issued on 1/9/01, 3/24/06, 2/16/09 a result of equipment failure. Corrective action taken and spills were closed on 8/17/01, 1/10/08, 3/30/09.
Commercial Facility- 235-263 Gold St.	< 1/8 mile NNE	Upgradient	Spill No. 0507393issued on 9/20/05 a result of Other. Corrective action taken and spill was closed on 11/6/07.
257 Gold St.	< 1/8 mile NNE	Upgradient	Spill No. 0703925 issued on 7/707 as a result of an unknown. Corrective action taken and spill was closed on 7/23/07.

Listing	Distance/ Direction	Assumed Hydraulic Gradient*	Status/Available Data
Reconstruction Site-167 Johnson St.	< 1/8 mile SSE	Upgradient	Spill No. 0514513issued on 3/20/06 a result of other. Corrective action taken and spill is open, last updated on 2/16/12.
Vacant Lot-49 Duffield St.	< 1/8 mile NNW	Upgradient	Spill No. 0413040 issued on 3/15/05 a result of other. Corrective action taken and spill was closed on 3/28/07.
Construction Site-329 Gold St.	< 1/8 mile SSE	Upgradient	Spill No. 0801117, 0711722 issued on 4/28/08, 2/6/08 as a result of equipment failure. Corrective action taken and spills were closed on 5/22/08, 4/10/08.
Manhole 750- Cathedral Pl. and Flatbush Ave.	< 1/8 mile SSE	Upgradient	Spill No. 8810165, 8810173 issued on 5/4/88 , 10/4/88 as a result of equipment failure. Corrective action taken and spill is currently open, last update 8/2/12.
Manhole #1929- IFO 343 Gold St.	< 1/8 mile SSE	Upgradient	Spill No. 0011382 issued on 1/19/01 as a result of an unknown. Corrective action taken and spill was closed on 7/2/04.
Polytech-122 Johnson St.	< 1/8 mile SW	Upgradient	Spill No. 1009933issued on 12/17/10 as a result of equipment failure. Corrective action taken and spill currently open, last updated 8/14/12.
Mobil Gas Station #1- 185 Flatbush Ave.	< 1/8 mile S	Upgradient	Spill No. 9203438, 0102640 issued on 6/22/92, 5/31/01 as a result of equipment failure. Corrective action taken and spills were closed on 7/10/92, 5/19/03.
Manhole 712 – Gold St. & Concord St.	< 1/8 mile NNE	Upgradient	Spill No. 0514802 reported on 3/24/2006 because of equipment failure was closed on 1/10/2008. Spill No. 0812501 reported on 2/16/2009 because of equipment failure was closed on 3/30/2009.
Manhole 747-Flatbush Ave. and Chapel St.	< 1/8 mile NW	Upgradient	Spill No. 0008051, 1006191, 0914539 issued on 10/10/00, 9/7/10, 10/12/09 as a result of equipment failure. Corrective action taken and spills were closed on 12/14/01, 9/7/10, 10/24/09.

The spills listed above were minor, corrective action were taken, and/or the spills were subsequently closed. For the spill numbers that remain open, it is URS' opinion that though the potential for these spills to impact the subject property is low, there is a potential because of the uncertain groundwater flow direction. These open spill numbers are therefore considered off-site RECs.

The remaining thirteen NY Spills sites are topographically downgradient of the subject property and are closed spill numbers. Because of their regulatory status, they do not represent a REC to the subject property.

4.1.7 Petroleum Bulk Storage Tanks (UST/AST)

The NYSDEC petroleum bulk storage tank database was researched to identify listings for the Site and adjacent properties. The Petroleum Bulk Storage Tank database is a listing of facilities that are required to register based on aggregate onsite petroleum storage of more than 1,100 gallons and not necessarily those with reported contamination incidents. Based on distances and the absence of reported releases, these facilities are not likely to have an adverse impact on the

environmental integrity of the subject property.

Fifty-one sites were identitified on the UST/AST databases within a quarter of a mile of the subject property. However, these facilities are not identified as RECs solely based on the presence of USTs/ASTs. Incidences of spills are summarized above and appropriate RECs are identified accordingly.

4.1.8 Engineering and/or Institutional Controls (ENG/INST CONTROLS)

The engineering and institutional controls database was researched to identify listings for the Site and adjacent properties. The databases identify environmental remediation sites with engineering and/or institutional controls in place.

One property was identified on the ENG/INST CONTROLS databases. The property, 220 Water Street, is topographically crossgradient/upgradient and is located approximately 0.48 mile from the subject property. The site has been remediated and currently classified as 'Restricted Residentail". Quarterly groundwater monitoring is conducted and and reported to the NYDEC as per the approved Site Management Plan.

Based on the distance and the engineering and institutional controls in place, this facility is not likely to have an adverse impact on the environmental integrity of the subject property.

4.1.9 Voluntary Cleanup Agreement (VCP)

The New York voluntary cleanup sites database was researched to identify listings for the Site and adjacent properties. The VCP database lists sites which use private monies to remediate contaminated sites to levels allowing for productive uses of said sites.

One property was identified in the VCP database. The Brooklyn Navy Yard is located on the East River, topographically downgradient and approximately 0.49 mile from the subject property. Based on the distance from the subject property, this property is not considered an off-site REC to the subject property.

4.1.10 New York Brownfields

The New York Brownfields site database was researched to identify listings for the Site and adjacent properties. The brownfields database lists sites where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant or contaminant.

Three properties, located within a one-half mile radius and topographically crossgradient/upgradient to the subject property, was identified on the brownfields database, and is summarized below.

Listing	Distance/ Direction	Assumed Hydraulic Gradient*	Status/Available Data

Listing	Distance/ Direction	Assumed Hydraulic Gradient*	Status/Available Data
The Giovani-160 and 180 Myrtle Ave.	< 1/4 mile SSE	Crossgradient/Upgradient	Large Quantity Generator- Handler.
388 Bridge Street	1/4 - 1/2 mile SSW	Crossgradient/Upgradient	Contamination associated with the site is the dry cleaning solvent tetrachloroethene (PCE) and its breakdown products trichloroethene (TCE) and dichloroethene (DCE). The entire site was excavated to a depth of up to 25 feet below grade(street level) for site redevelopment. Contamination is now limited to groundwater and soil vapor. Contamination in soil vapor immediately adjacent to the site remains elevated. PCE concentrations are generally decreasing in on-site and off-site groundwater.
220 Water Street	< 1/2 mile N	Crossgradient/Upgradient	The site has been remediated for lead. A large quantity of highly impacted soil was removed, however, some lead remains in soil at the site above 'Unrestricted' levels. Groundwater is marginally contaminated with Volatile Organic Compounds from an off-site source. This Remaining Contamination is managed through Institutional Controls and Engineering Controls, allowing for the site's intended use as a 'Restricted Residential' property.

The Giovani address was formerly a LQG with no reports of spills or violations. Both 388 Bridge Street and 220 Water Street sites have been remediated and continue to be monitored. These two locations are also over a quarter mile from the subject property. Based on regulatory status and distance, these brownfields sites do not represent RECs to the subject property.

4.1.11 Major Oil Storage Facility (MOSF)

The MOSF database is a list of facilities, onshore or vessels, with petroleum storage capacities of 400,000 gallons or greater.

No property was reported on the MOSF database within a mile radius of the subject property.

4.1.12 Manifests

Manifests are documents that track hazardous waste from the generator through transporters to treatment, storage and/or disposal facilities.

A review of the manifest database indicates there are forty-nine manifest sites within a one-half mile radius of the subject property, thirty-two of which were topographically upgradient. The manifest database is merely a listing of facilities that generate hazardous waste, but are not necessarily those with reported contamination incidents. Based on distances and the absence of reported releases for the thirty-two upgradient facilities, it is unlikely the manifest facilities will have an impact on the environmental integrity of the Site.

4.1.13 "E" Designation

Property lots with an "E" designation on the New York City Zoning Maps indicate properties with potential hazardous material contamination, air and/or noise quality impacts.

There are twenty-eight "E" designation properties listed on the database within a one-eighth mile radius of the subject property. The exact reason for "E" designation is not known. These lots are not listed on any other databases reviewed and are therefore not considered to have an impact on the environmental integrity of the Site.

4.1.14 Dry Cleaners

The Dry Cleaners list was reviewed to assess whether dry cleaning facilities are located on or adjacent to the subject property.

One property, Concord/ M&O Cleaners at 65 Tillary Street, is located 0.23 mile from the subject property, is topographically crossgradient/upgradient, and is identified on the Drycleaners database. It is currently in operation and is reported as a drop shop, suggesting active drycleaning is not performed at this location. Because of this status and the distance to the subject property, it is not considered a REC.

4.1.15 Orphan Sites

EDR compiles a list of orphan sites which is a list of sites that cannot be accurately mapped because of incorrect or absent addresses. There are twenty orphan sites identified as unmappable sites. None of the orphan sites listed are adjacent to the subject property. Therefore, these sites are not considered RECs.

4.2 REGULATORY AGENCY CONTACT

During the performance of an environmental assessment, State and local regulatory agencies having jurisdiction over the subject property are contacted to evaluate the following information: the status of relevant environmental permits; whether there has been any violations, or other similar correspondence from such agencies; whether any corrective action or remediation is planned, currently taking place, or has been completed at the subject property; whether there have been reported violations or complaints that the subject property is not in compliance with environmental laws, regulations, or standards, and whether the subject property is under investigation for such non-compliance; whether the subject property is listed on the regulatory databases; and whether there is any other pertinent documentation on file with such regulatory agencies regarding the subject property or surrounding sites of concern.

URS contacted the following regulatory agencies for information regarding environmental violations or incidents and/or the status of active enforcement actions at the subject property.

New York City Fire Department (FDNY)

The FDNY is responsible for the enforcement of local fire codes pertaining to the use and storage of flammable and hazardous materials. NYCFD information concerning underground storage tanks, sealed or removed underground storage tanks, and history of leaks at the subject property was requested in a record search request form dated January 7, 2013. URS has not yet received a response from the FDNY. Upon receipt of this information, URS will review the response and, if conclusions contained within this report are affected, will submit an addendum to this report.

New York City Department of Health (NYCDOH)

The NYCDOH, Bureau of Environmental Investigations (BEI) maintains files of health related environmental incidents in the City of New York. These incidents may include spills of hazardous chemicals, citizen's complaints regarding asbestos issues, or reports of chemical odors or fumes. NYCDOH information concerning the subject property was requested in a letter dated January 7, 2013. URS has not yet received a response from the NYCDOH. Upon receipt of this information, URS will review the response and, if conclusions contained within this report are affected, will submit an addendum to this report.

New York City Department of Buildings

URS reviewed documents available from the New York City Department of Building's online Building Information System for 156 Tillary Street. The BIS indicated the subject property is an "e" designated site. Consequently, URS considers this a REC to the subject property.

New York City Department of Environmental Protection (NYCDEP)

The NYCDEP maintains files of incidents involving environmentally regulated materials. The records maintained by NYCDEP include reports of spills of hazardous chemicals and citizen's complaints on environmental issues. NYCDEP information concerning the subject property was requested in a letter dated January 7, 2013. URS has not yet received a response from the NYCDEP. Upon receipt of this information, URS will review the response and, if conclusions contained within this report are affected, will submit an addendum to this report.

5.0 HISTORIC SITE AND SURROUNDING PROPERTY CONDITIONS

The history of land use on and near the subject property was evaluated from interviews from site representatives, historic aerial photographs, Sanborn Fire Insurance Maps, historic topographic maps, and local city directories.

5.1 INTERVIEWS

The subject property owner's representative was unable to provide additional information regarding the subject property.

5.2 AERIAL PHOTOGRAPHS

URS obtained historical aerial photographs from EDR for the years 1924, 1954, 1966, 1975, 1984, 1994/1995, and 2006. Copies of the historical aerial photographs are presented in Appendix C.

1924 The subject property is depicted as a rectangular-shaped multi-story building. The Flatbush Avenue Extension is depicted west of the subject property on each aerial photograph. All of the adjacent areas are developed with manufacturing and/or residential properties.

1954 The subject property is depicted as a rectangular-shaped multi-story building. The Flatbush Avenue Extension is depicted west of the subject property on each aerial photograph. All of the adjacent areas are developed with manufacturing and/or residential properties.

1966 The subject property is depicted as a rectangular-shaped building. This photograph shows The Queens Brooklyn expressway to the northeast and Flatbush Avenue Extension to the west of subject property. All of the adjacent areas are developed with manufacturing and/or residential properties.

1975 The subject property is depicted as a rectangular-shaped building. All of the adjacent areas are developed with manufacturing and/or residential properties.

1984 The subject property is depicted as a rectangular-shaped building. All of the adjacent areas are developed with manufacturing and/or residential properties.

1994/1995 The quality of this aerial photograph is poor. The subject property and surrounding areas appear to have remained unchanged from the 1984 photograph.

2006 The subject property is depicted as a rectangular-shaped building. All of the adjacent areas are developed with manufacturing, commercial and/or residential properties.

No RECs were identified, based strictly on the review of the historical aerial

photographs.

5.3 SANBORN FIRE INSURANCE MAPS

URS reviewed historical Sanborn Fire Insurance Maps obtained from EDR for the subject property. Sanborn Maps for the following years were available for the subject property: 1887, 1904, 1915, 1938, 1950, 1969, 1977, 1979, 1980, 1982, 1986, 1987, 1988, 1989, 1991, 1992, 1993, 1995, 1996, 2001, 2002, 2003, 2004, 2005, 2006 and 2007 (Appendix D).

1887

The subject property is comprised of a single lot parcel in the 1887 Sanborn map. The surrounding area appears to be mainly developed lots with dwellings.

1904, 1915

The subject property is comprised of one lot parcel in the 1904 and 1915 maps; 156 and 158 Tillary are combined into one lot. The parcel is depicted as a "Furniture Storage Building." The surrounding area appears to be mainly developed lots with dwellings. In the 1915 map, Flatbush Ave. Extension appears to the west of the subject property.

1938

The subject property is comprised of one lot parcel in the 1938 with 156 and 158 Tillary are combined. The parcel is depicted as the "Manhattan Drug Company." The surrounding area appears to be mainly developed lots with primarily identified dwellings, with an auto repair and garage right west of the subject property.

1950, 1969, 1977, 1979, 1980, 1982, 1986, 1987, 1988, 1989, 1991, 1992, 1993, 1995, 1996

The subject property is identified as 156 and 158 Tillary Street. The surrounding area appears to be mainly developed lots with primarily identified dwellings, with an Auto repair and Garage right west of the subject property. In 1969 The Brooklyn Queens Expressway appears northeast of the subject property, and in 1977 NYC Transit Authority Police Academy appears south and NYC Fire Department Engine Company 207 to the east of the subject property.

2001-2007

The depiction of the subject property remains unchanged.

Based on review of the Sanborn Maps, URS considers the historical use of the building as a "drug company" a REC.

5.4 CITY DIRECTORIES

City directories provide an indication of past activities at and around the subject property by listing the name of the occupant, residential or commercial, by address. URS reviewed city directories from EDR for the subject property address. The subject property's address was listed in 1934, 1940, 1945, 1985, 1992, and 2005. During these years, the subject property was listed as Manhattan Drug Company, Chocolate Chip Productions, Jones Faye, and Guest House Intl respectively. A copy of the city directory abstract is attached in Appendix E.

Based on review of the City Directory, URS considers the historical use of the building as a "drug company" a REC.

5.5 TOPOGRAPHIC MAPS

URS obtained USGS topographic maps from EDR of the subject property for the years 1900, 1947, 1956, 1967, 1979 and 1995 for the Brooklyn quadrangle. A summary of the findings from the review of topographic maps is provided below:

1900

The subject property and the vicinity are within a sparsely developed area with roads and few structures bordering an inlet from the East River.

1947

The topographic maps depicts a linear, developed East River waterfront that no longer contains inlets and the subject property is shown to be within a developed, urban area. The 1947 and the remaining topographic maps depict the subject property and surrounding properties as shaded areas indicating highly urbanized development.

1956

The subject property and surrounding area appear unchanged from the 1947 topographic maps.

1967-1995

The subject property and surrounding area appear unchanged from the 1947 topographic maps.

Based on review of the aforementioned historical sources, past uses related to the subject property and the surrounding areas may represent a REC to the subject property. Copies of the historical topographic maps are attached in Appendix F.

6.0 SITE RECONNAISSANCE

URS conducted site visit on December 20, 2012. Weather conditions at the time of the site reconnaissance were 30 to 40°F and partly cloudy. The URS representative visually and physically observed accessible areas of the subject property. Photographic documentation of this site reconnaissance is provided in Appendix G.

6.1 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

URS observed evidence of hazardous substances/materials on the subject property during the site reconnaissance. There were approximately six five gallon buckets of what appeared to be used oil or cooking grease. They were located on the ground floor, on the northern side of the building and in the basement, near the boiler room.

It is URS' opinion that hazardous substances/wastes are not a REC to the subject property but should be disposed in accordance with applicable laws and regulations governing hazardous waste.

6.2 HAZARDOUS WASTES

URS did not observe activity that would include the generation or storage of hazardous waste. The subject property is not listed in the EDR report as a generator of hazardous waste which supports this conclusion.

6.3 STORAGE TANKS

URS did not observe evidence of underground storage tanks (USTs) or aboveground storage tanks (ASTs) on the subject property.

The building has been unoccupied for a considerable time and the boiler was no longer in use. Reportedly, there was a fuel oil tank at one time, but is no longer present. There were some buckets of oil adjacent to the Boiler Room, but the floor itself did not appear to be stained. The floor appeared to be intact and no cracks were observed on the concrete slab.

6.4 DRUMS AND CONTAINERS

URS observed visible evidence of drums or containers on the subject property during the site reconnaissance (please see Section 6.1).

6.5 PCB-CONTAINING EQUIPMENT/ HIGH TENSION OVERHEAD POWER LINES

During the site reconnaissance, URS did not observe electrical transformers at the site. ConEdison provides underground electrical service to the subject property and consequently, no overhead power lines are present. Transformers are located underground within manholes on

Tillary Street.

It is URS' opinion that PCB-containing equipment and overhead power lines are not a REC to the subject property.

6.6 DRAINS AND SUMPS

URS did observe visible evidence of drains on the subject property. Sumps or sewer pits were not observed on the subject property during the site reconnaissance. Consequently, it is URS' opinion that drains, sumps, and sewer pits are not a REC to the subject property.

6.7 PITS, PONDS, AND LAGOONS

No pits, lagoons, septic systems, cisterns, or clarifiers were observed on the subject property or in the vicinity.

6.8 SOLID WASTE

At the time of the site reconnaissance, no designated solid waste was observed at the subject property. However, general litter and debris was present in the basement.

It is URS' opinion that solid waste is not a REC to the subject property.

6.9 WASTEWATER

Wastewater is not currently generated by the subject property. Historically, sanitary wastewater has been discharged to the City of New York sanitary sewer system.

Stormwater runoff discharges to storm drains along Tillary Street.

It is URS' opinion that wastewater and stormwater are not a REC to the subject property.

6.10 WELLS

URS did not observe water wells or groundwater monitor wells on the subject property.

6.11 DRY CLEANERS

At the time of the site reconnaissance, dry-cleaning operations were not observed to be located on or in the direct vicinity of the subject property. Dry cleaners were not listed in the EDR report.

6.12 EMERGENCY GENERATORS

During the site reconnaissance, URS did not observe emergency electrical generators on the subject property.

6.13 OZONE-DEPLETING SUBSTANCES

During the site reconnaissance, URS did not observe ozone-depleting substances.

6.14 OTHER PHYSICAL EVIDENCE OF CONTAMINATION

Unusual odors, pools of waste liquids, runoff patterns, and berms were not observed on the subject property during the site inspection.

6.15 UTILITIES

The City of New York provides potable water and sanitary sewer services. ConEd provides electric service and National Grid provides natural gas service.

6.16 ASBESTOS-CONTAINING MATERIALS

An asbestos survey was not included as part of this Scope of Work. However, given the age of the building and observations of building materials during the site visit, potential asbestos containing materials (ACM) are present in the structure. Consequently, URS recommends an asbestos survey for the subject building.

7.0 RADON

According to information provided by the U.S. Environmental Protection Agency (USEPA) Office of Radiation and Indoor Air, Kings County falls within Zone 3, with a predicted average indoor radon screening level of less than 2 picoCuries per liter (pCi/L). This is less than the USEPA action level of 4 pCi/L. Radon information provided by EDR was obtained from New York State Department of Health and USGS.

It is URS' opinion that radon gas is not considered a REC to the subject property.

8.0 CONCLUSIONS

URS has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312 *Standards and Practices for All Appropriate Inquiries; Final Rule* of a property located at 156 Tillary Street, Brooklyn, New York. Any exceptions to, or deletions from, this practice are described in **Section 1.4** of this report.

8.1 FINDINGS

Based on the available information and our site inspection, URS identified RECs (Recognized Environmental Concerns) for the subject property. Two on-site RECs (historical usage as a drug company and an "e" designation) and several off-site RECs (various off-site industrial/hazardous waste remediation projects) were identified for this property.

Various historical records/documents indicated that the subject property was utilized for the manufacture of cosmetics and pharmaceuticals. Additionally, various properties undergoing remediation and hazardous waste cleanup were adjacent and proximate to the subject property. Therefore, there is a potential for historic site operations and/or other industrial sites to have impacted soil groundwater and/or soil vapor quality at the subject property.

Given the subject property's "e" designation and historical usage identified above, URS recommends a Phase II investigation of soil, groundwater and subsurface vapor following demolition of the building and prior to any new development. However, before the implementation of a Phase II investigation URS recommends a review of the regulatory files of the adjacent properties undergoing remediation. Since the subject property is likely to be re-developed for residential use, structures at the site should be constructed with sub-slab depressurization systems and/or vapor barriers to prevent the potential migration of contaminate vapors present in unexcavated soils and/or groundwater beneath the site. Additionally, URS recommends an asbestos survey of all building materials.

8.2 DEVIATIONS

During this assessment, no data gaps were identified during URS' review of historical uses of the subject property that are anticipated to affect our ability to reach the conclusions presented. The User Questionnaire provided in Appendix A should be completed by the current owner.

8.3 USER OBLIGATION

To receive/maintain liability protections established under the Brownfields Amendments, in addition to conducting AAI, the purchaser has the continued obligation of:

- Complying with land use restrictions and not impeding the effectiveness or integrity of institutional controls;
- Taking steps with respect to hazardous substances affecting a landowner's property

to prevent releases;

- Providing cooperation, assistance and access to USEPA, a state, or other party conducting response actions or natural resource restoration at the property;
- Complying with CERCLA information requests and administrative subpoenas; and,
- Providing legally required notices.

9.0 REFERENCES

ASTM, 2005. ASTM, Standard E 1527-05, Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process, 2005.

Environmental Data Resources, Inc. The EDR Radius Map Report with GeoCheck, 156 Tillary Street, Brooklyn, New York 11201. Inquiry Number: 3444910.2s. November 1, 2012.

Environmental Data Resources, Inc. The EDR Sanborn Map Report, 156 Tillary Street, Brooklyn, New York 11201. Inquiry Number: 3444910.3. November 1, 2012.

Environmental Data Resources, Inc. The EDR Historical Topographic Map Report, 156 Tillary Street, Brooklyn, New York 11201. Inquiry Number: 3444910.4. November 1, 2012.

Environmental Data Resources, Inc. The EDR Aerial Photo Decade Package, 156 Tillary Street, Brooklyn, New York 11201. Inquiry Number: 3444910.5. November 1, 2012.

Environmental Data Resources, Inc. The EDR City Directory Abstract, 156 Tillary Street, Brooklyn, New York 11201. Inquiry Number: 3444910.6. November 1, 2012.

Perlmutter, Nathaniel M. and Theodore Arnow, 1953. *Ground Water in Bronx, New York, Richmond Counties with Summary Data on Kings and Queens Counties, New York City, New York*. Water Power and Control Commission, United States Geological Survey in cooperation with New York State Department of Conservation, Bulletin GW-32.

URS Corporation. Geotechnical Evaluation, 125-127 Flatbush Ave Ext, Brooklyn, NY. August 15, 2008.

United States Environmental Protection Agency, November 1, 2005. *40 CFR Part 312, Standards and Practices for All Appropriate Inquiries.*

10.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR Part 312.10. Resumes of those involved in the preparation of this Report are provided in Appendix H.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

This report was prepared by:

URS Corporation – New York

Mira Abdelaziz

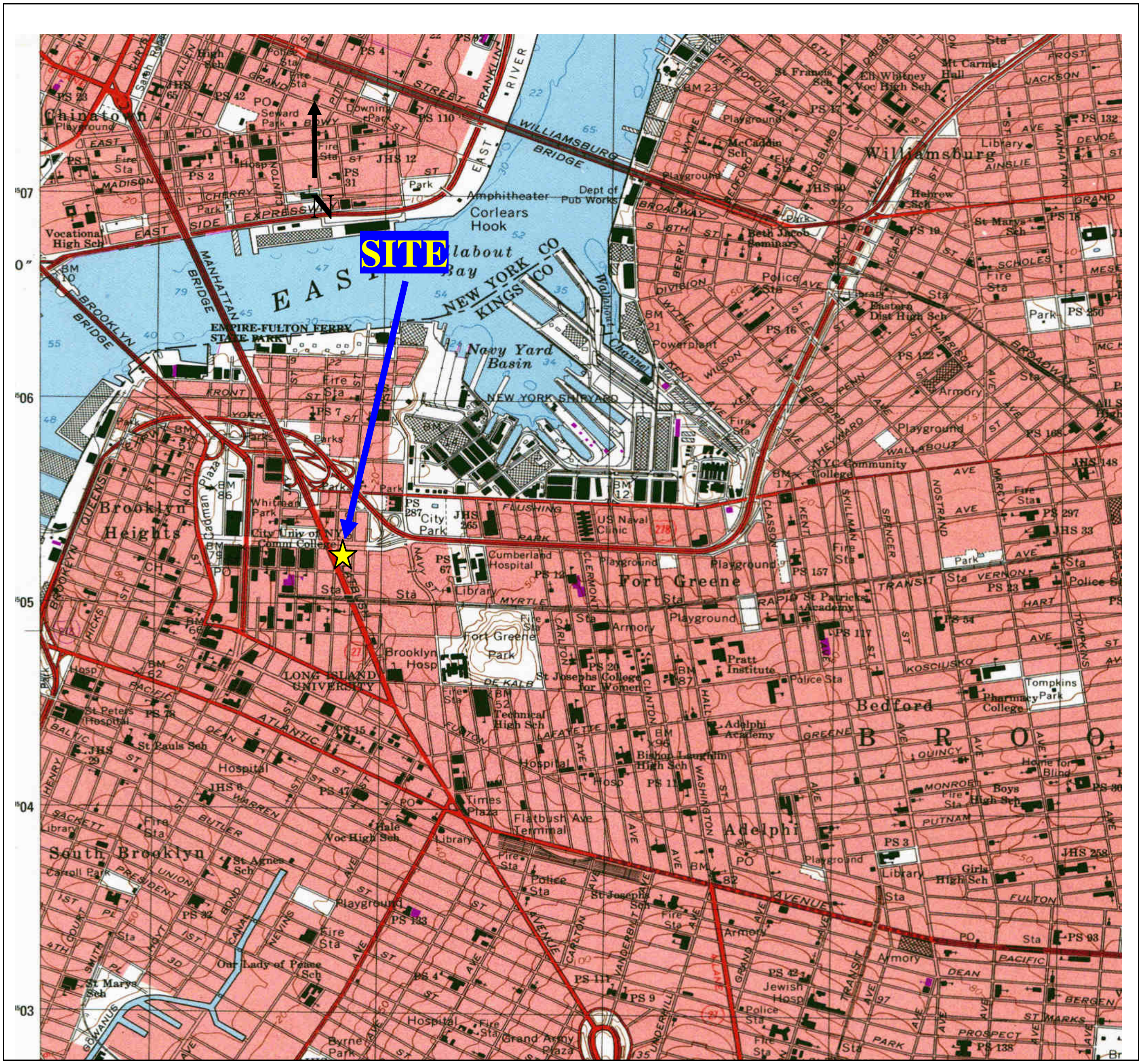
For

Senior Environmental Scientist

Robert Wolff

Principal Environmental Scientist

FIGURE



156 Tillary Street Brooklyn, NY	
URS Corporation	
Date: January 2013	**SITE LOCATION MAP**
Reference: USGS 7.5 Minute Quadrangle: Brooklyn, NY 1995 **Photorevised: NA**	**FIGURE 1**

APPENDIX A

USER QUESTIONNAIRE

E 1527 – 05
USER QUESTIONNAIRE

INTRODUCTION

To qualify for one of the *Landowner Liability Protections (LLPs)*[1] offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"),[2] the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?

*Response:*_____

(2.) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Are you aware of any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

*Response:*_____

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

As the *user* of this *ESA* do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

*Response:*_____

(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

*Response:*_____

---

1 Landowner Liability Protections, or LLPs, is the term used to describe the three types of potential defenses to Superfund liability in EPA's Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Elements" Guide) issued on March 6, 2003.

2 P.L. 107-118

(5.) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user*,

(a.) Do you know the past uses of the *property*?

*Response:*_____

(b.) Do you know of specific chemicals that are present or once were present at the property?

*Response:*_____

(c.) Do you know of spills or other chemical releases that have taken place at the property?

*Response:*_____

(d.) Do you know of any environmental cleanups that have taken place at the *property*?

*Response:*_____

(6.) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

As the *user* of this *ESA*, based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*?

*Response:*_____

APPENDIX B

EDR RADIUS MAP WITH GEOCHECK

(EXECUTIVE SUMMARY)

156 Tillary Street
156 Tillary St.
Brooklyn, NY 11201

Inquiry Number: 3444910.2s
November 01, 2012

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	988
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-8
Physical Setting Source Map Findings	A-9
Physical Setting Source Records Searched	A-59

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

156 TILLARY ST.
BROOKLYN, NY 11201

COORDINATES

Latitude (North):	40.6959000 - 40˚ 41' 45.24''
Longitude (West):	73.9837000 - 73˚ 59' 1.32''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	585867.0
UTM Y (Meters):	4505285.0
Elevation:	28 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995
West Map:	40074-F1 JERSEY CITY, NJ NY
Most Recent Revision:	1981

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2009, 2010
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
156 TILLARY ST. (DEKO REALTY CORP 156 TILLARY STREET BROOKLYN, NY 11201	UST	N/A
156 TILLARY ST 156 TILLARY ST BROOKLYN, NY	NY Spills Date Closed: 1/7/2004	N/A
LOT 15,TAXBLOCK 133 156 TILLARY STREET BROOKLYN, NY 11201	E DESIGNATION	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

CERCLIS ..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ..... Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls
LUCIS ..... Land Use Control Information System

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

VAPOR REOPENED ..... Vapor Intrusion Legacy Site List

State and tribal leaking storage tank lists

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

CBS UST ..... Chemical Bulk Storage Database

EXECUTIVE SUMMARY

MOSF UST ..... Major Oil Storage Facilities Database
MOSF AST ..... Major Oil Storage Facilities Database
MOSF ..... Major Oil Storage Facility Site Listing
INDIAN UST ..... Underground Storage Tanks on Indian Land
FEMA UST ..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

RES DECL ..... Restrictive Declarations Listing

State and tribal voluntary cleanup sites

INDIAN VCP ..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

ERP ..... Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
ODI ..... Open Dump Inventory
SWTIRE ..... Registered Waste Tire Storage & Facility List
SWRCY ..... Registered Recycling Facility List
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ..... Clandestine Drug Labs
US HIST CDL ..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST AST ..... Historical Petroleum Bulk Storage Database

Local Land Records

LIENS 2 ..... CERCLA Lien Information
LIENS ..... Spill Liens Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System

Other Ascertainable Records

DOT OPS ..... Incident and Accident Data
DOD ..... Department of Defense Sites

EXECUTIVE SUMMARY

CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
UIC	Underground Injection Control Wells
NPDES	State Pollutant Discharge Elimination System
AIRS	Air Emissions Data
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
PRP	Potentially Responsible Parties
COAL ASH	Coal Ash Disposal Site Listing
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
2020 COR ACTION	2020 Corrective Action Program List
FINANCIAL ASSURANCE	Financial Assurance Information Listing
EPA WATCH LIST	EPA WATCH LIST
PCB TRANSFORMER	PCB Transformer Registration Database

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a

recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 12/28/2011 has revealed that there are 4 CERC-NFRAP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMANUEL CELLLARD FEDERAL BUILD	***225 CADMAN PLZ***	***WNW 1/4 - 1/2 (0.309 mi.)***	***211***	***760***
APEX THERMOPLASTICS INC	100-110 BRIDGE ST	N 1/4 - 1/2 (0.385 mi.)	AT225	794
BRADLEY WHITE LEAD CO	***85 JAY ST***	***NNW 1/4 - 1/2 (0.455 mi.)***	***AZ246***	***899***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LENOX SMELTING	68 JAY STREET	NNW 1/4 - 1/2 (0.499 mi.)	257	980

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/15/2012 has revealed that there are 3 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
147 FLATBUSH AVE LLC	***147 FLATBUSH AVE***	***SSW 0 - 1/8 (0.057 mi.)***	***G34***	***164***
AVALON GOLD LLC	343 GOLD ST	SSE 0 - 1/8 (0.097 mi.)	K83	323
RED APPLE MYRTLE AVENUE DEVELO	180 MYRTLE AVE	SSE 1/8 - 1/4 (0.185 mi.)	AD149	525

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/15/2012 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
POLYTECHNIC UNIVERSITY	***333 JAY STREET***	***SW 1/8 - 1/4 (0.227 mi.)***	***AJ174***	***601***
METROTECH - NATIONAL GRID NY O	1 METROTECH CENTER	SW 1/8 - 1/4 (0.231 mi.)	AJ178	635

EXECUTIVE SUMMARY

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/15/2012 has revealed that there are 11 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MERIT OIL CORP	***132 FLATBUSH AVE EXT***	***SW 0 - 1/8 (0.046 mi.)***	***D22***	***102***
GOLD STREET HOLDINGS	***235-263 GOLD STREET***	***NNE 0 - 1/8 (0.076 mi.)***	***J53***	***238***
R & P DRY CLEANERS	***167 MYRTLE AVE***	***SSE 1/8 - 1/4 (0.165 mi.)***	***126***	***465***
SIAC	***2 METROTECH CTR - FLOOR***	***SW 1/8 - 1/4 (0.185 mi.)***	***AC145***	***514***
CON EDISON	JAY ST & CONCORD ST	NW 1/8 - 1/4 (0.213 mi.)	AH165	581
CON EDISON	JAY ST & CONCORD ST	NW 1/8 - 1/4 (0.213 mi.)	AH166	582
CONCORD CLEANERS & LAUNDERER	***65 TILLARY ST***	***W 1/8 - 1/4 (0.231 mi.)***	***AK180***	***638***
NYCTA - JAY STREET SUBSTATION	***212 JAY ST***	***NW 1/8 - 1/4 (0.232 mi.)***	***182***	***651***
VERIZON - BRIDGE ST CO	***360 BRIDGE ST***	***SSW 1/8 - 1/4 (0.237 mi.)***	***AL191***	***680***
NEW YORK TELEPHONE CO	***101 WILLOUGHBY ST***	***SSW 1/8 - 1/4 (0.241 mi.)***	***AM195***	***696***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON	CONCORD ST & NAVY ST	ENE 1/8 - 1/4 (0.198 mi.)	AF156	562

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the SHWS list, as provided by EDR, and dated 08/20/2012 has revealed that there are 3 SHWS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BROOKLYN NAVY YARD 13 ACRE PAR	KENT AVENUE	ENE 1/4 - 1/2 (0.395 mi.)	227	797
Class Code: Significant threat to the public health or environment - action required.				
K - BROOKLYN GAS LIGHT A	MARSHALL ST. & HUDSON A	NNE 1/2 - 1 (0.630 mi.)	260	981
NAVAL STATION-BROOKLYN, TRANSF	***FLUSHING AVENUE***	***ENE 1/2 - 1 (0.940 mi.)***	***262***	***983***
Class Code: Site properly closed, no evidence of present or potential adverse impact - no further action is required.				

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the SWF/LF list, as provided by EDR, and dated 07/06/2012 has revealed that there is 1

SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BABYLON METHANE RECOVERY	166 MONTAGUE ST	WSW 1/4 - 1/2 (0.475 mi.)	248	903

State and tribal leaking storage tank lists

LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the LTANKS list, as provided by EDR, and dated 08/20/2012 has revealed that there are 39 LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYPD 84 PRECINCT Date Closed: 10/6/1993 Date Closed: 12/10/2004 **Additional key fields are available in the Map Findings section*	***301 GOLD ST***	***SSE 0 - 1/8 (0.055 mi.)***	***F31***	***142***
SUNOCO #0007-1548 Date Closed: 11/5/2004	***85 FLATBUSH AVENUE***	***NW 0 - 1/8 (0.064 mi.)***	***H40***	***180***
MOBIL GAS STATION #11861 Date Closed: 7/30/1990 Date Closed: 4/25/2012	***185 FLATBUSH AVENUE***	***S 0 - 1/8 (0.111 mi.)***	***S95***	***386***
130 MYRTLE ST Date Closed: 12/31/1997	***130 MYRTLE ST***	***S 1/8 - 1/4 (0.161 mi.)***	***125***	***463***
COMMERCIAL BUILDING Date Closed: 4/14/2010	200 GOLD STREET	N 1/8 - 1/4 (0.168 mi.)	Z128	476
POLYTECHNIC UNIVERSITY Date Closed: 5/9/2002	***333 JAY STREET***	***SW 1/8 - 1/4 (0.227 mi.)***	***AJ174***	***601***
350 JAY STREET Date Closed: 12/21/2005	***350 JAY STREET***	***SW 1/8 - 1/4 (0.248 mi.)***	***AN198***	***717***
NYTEL Date Closed: 6/23/2004	***101 FLEET PL***	***SSE 1/4 - 1/2 (0.274 mi.)***	***AP204***	***735***
CLOSED-LACKOF RECENT INFO Date Closed: 3/6/2003	***186 JAY STREET***	***NW 1/4 - 1/2 (0.276 mi.)***	***AQ205***	***737***
75 WILLOUGHBY ST Date Closed: 11/8/1994	***75 WILLOUGBY STREET***	***SSW 1/4 - 1/2 (0.282 mi.)***	***207***	***745***
LONG ISLAND UNIVERSITY Date Closed: 1/16/1994 Date Closed: 1/6/1995	***1 UNIVERSITY PLAZA***	***SSE 1/4 - 1/2 (0.292 mi.)***	***AP209***	***749***
HELEN KELLER SCHOOL Date Closed: 1/13/2006	***57 WILLOUGHBY AVE***	***SSW 1/4 - 1/2 (0.296 mi.)***	***210***	***758***
CONSOLIDATED EDISON Date Closed: 1/25/2006	***191 WILLOUGHBY ST***	***SSE 1/4 - 1/2 (0.310 mi.)***	***212***	***763***
COMMERCIAL BUILDING Date Closed: 4/3/2008	408 JAY STREET	SW 1/4 - 1/2 (0.320 mi.)	214	767
PEARL ST/BKLYN-NYCT Date Closed: 7/29/1998	***PEARL STREET***	***SW 1/4 - 1/2 (0.336 mi.)***	***AR215***	***769***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PEARLE ST/BKLYN/NYCTA	***PEARLE STREET***	***SW 1/4 - 1/2 (0.336 mi.)***	***AR216***	***771***
Date Closed: 7/29/1998				
EMANUEL CELLLARD FEDERAL BUILD	***225 CADMAN PLZ***	***WNW 1/4 - 1/2 (0.345 mi.)***	***AS219***	***777***
Date Closed: 1/20/1989				
APARTMENT BUILDING	125 ASHLAND PLACE	SE 1/4 - 1/2 (0.364 mi.)	220	780
APARTMENT BUILDING	1 HOYT STREET	S 1/4 - 1/2 (0.378 mi.)	221	781
Date Closed: 3/8/2005				
FARRAGUT HOUSES	***190 YORK STREET***	***N 1/4 - 1/2 (0.378 mi.)***	***222***	***783***
Date Closed: 1/10/1994				
BROOKLYN LAW SCHOOL	250 JORALEMON ST	SW 1/4 - 1/2 (0.412 mi.)	228	800
Date Closed: 8/3/2004				
HOUSING - ADVANCED MANAGEMENT	***235 LINCOLN PL***	***WSW 1/4 - 1/2 (0.416 mi.)***	***AU231***	***805***
Date Closed: 12/30/1993				
BROOKLYN JEWISH HOSPITAL	***55 PROSPECT PLACE***	***NW 1/4 - 1/2 (0.418 mi.)***	***AV232***	***810***
Date Closed: 10/7/1992				
24-30 CLINTON ST TENANTS INC	***24-30 CLINTON ST***	***W 1/4 - 1/2 (0.422 mi.)***	***234***	***815***
Date Closed: 4/27/2009				
BOARD OF EDUCATION	***409 RED HOOK LANE***	***SW 1/4 - 1/2 (0.431 mi.)***	***235***	***822***
Date Closed: 12/13/1996				
VAULT#V1123	***141 LIVINGSTON STREET***	***SSW 1/4 - 1/2 (0.436 mi.)***	***AX240***	***834***
Date Closed: 2/24/1995				
142 PIERREPOINT STREET	142 PIERREPONT STREET	W 1/4 - 1/2 (0.436 mi.)	241	840
Date Closed: 4/4/2007				
NEW YORK CITY WELFARE FAC	***210 LIVINGSTON STREET***	***SSW 1/4 - 1/2 (0.447 mi.)***	***242***	***841***
Date Closed: 3/19/1999				
Date Closed: 3/6/2006				
NYNEX	***111 LIVINGSTON ST***	***SW 1/4 - 1/2 (0.453 mi.)***	***AY243***	***848***
Date Closed: 5/15/1992				
Date Closed: 4/13/2007				
**Additional key fields are available in the Map Findings section*				
NYC DCAS BROOKLYN CENTRAL COUR	***120 SCHERMERHORN ST***	***SW 1/4 - 1/2 (0.486 mi.)***	***BA250***	***926***
Date Closed: 11/4/1992				
LVINGSTON ASSOC.	88 LIVINGSTON ST	SW 1/4 - 1/2 (0.488 mi.)	BB252	933
Date Closed: 11/12/2003				
86 LIVINGSTON STREET	***86 LIVINGSTON STREET***	***SW 1/4 - 1/2 (0.491 mi.)***	***BB254***	***956***
Date Closed: 9/25/1992				

Lower Elevation	Address	Direction / Distance	Map ID	Page
INGERSOLL HOUSES	***22 MONUMENT WALK***	***ESE 1/4 - 1/2 (0.257 mi.)***	***AO202***	***729***
Date Closed: 1/17/2006				
Not reported	45 N ELLIOT PL	ENE 1/4 - 1/2 (0.344 mi.)	217	774
Date Closed: 5/10/2004				
CLOSED-LACKOF RECENT INFO	***ADMINISTRATION BLDG***	***ENE 1/4 - 1/2 (0.432 mi.)***	***AW236***	***825***
Date Closed: 3/4/2003				
RED HOOK TERM/BKLYN/	***RED HOOK TERMINAL***	***ENE 1/4 - 1/2 (0.432 mi.)***	***AW237***	***828***
Date Closed: 2/10/2003				
RED HOOK MARINE/PT AUTH	***RED HOOK MARINE TERMINA***	***ENE 1/4 - 1/2 (0.432 mi.)***	***AW238***	***830***
Date Closed: 11/14/1994				

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
KINGDOM SUPPORT SERVICES	***74 ADAMS ST***	***NNW 1/4 - 1/2 (0.491 mi.)***	***255***	***959***
58-02 FLUSHING AVE/QUEENS	***58-02 FLUSHING AVENUE***	***ENE 1/4 - 1/2 (0.492 mi.)***	***BC256***	***977***
Date Closed: 8/15/2002				

HIST LTANKS: A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database.

A review of the HIST LTANKS list, as provided by EDR, and dated 01/01/2002 has revealed that there are 33 HIST LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SUNOCO GAS STATION	TILLARY ST & FLATBUSH A	W 0 - 1/8 (0.036 mi.)	C10	46
Date Closed: / /				
NYPD PCT 84	***301 GOLD ST***	***SSE 0 - 1/8 (0.055 mi.)***	***F30***	***137***
Date Closed: 10/06/93				
Date Closed: / /				
**Additional key fields are available in the Map Findings section*				
NYPD 84 PRECINCT	***301 GOLD ST***	***SSE 0 - 1/8 (0.055 mi.)***	***F31***	***142***
Date Closed: / /				
130 MYRTLE ST	***130 MYRTLE ST***	***S 1/8 - 1/4 (0.161 mi.)***	***125***	***463***
Date Closed: 12/31/97				
POLYTECHNIC UNIVERSITY	***333 JAY STREET***	***SW 1/8 - 1/4 (0.227 mi.)***	***AJ174***	***601***
Date Closed: / /				
NYTEL	***101 FLEET PL***	***SSE 1/4 - 1/2 (0.274 mi.)***	***AP204***	***735***
Date Closed: / /				
186 JAY STREET	***186 JAY STREET***	***NW 1/4 - 1/2 (0.276 mi.)***	***AQ206***	***743***
Date Closed: / /				
75 WILLOUGHBY ST	***75 WILLOUGBY STREET***	***SSW 1/4 - 1/2 (0.282 mi.)***	***207***	***745***
Date Closed: 11/08/94				
LONG ISLAND UNIVERSITY	***1 UNIVERSITY PLAZA***	***SSE 1/4 - 1/2 (0.292 mi.)***	***AP209***	***749***
Date Closed: 01/16/94				
Date Closed: 01/06/95				
316 FLATBUSH AV	316 FLATBUSH AV	SSE 1/4 - 1/2 (0.314 mi.)	213	766
Date Closed: 03/23/89				
PEARL ST/BKLYN-NYCT	***PEARL STREET***	***SW 1/4 - 1/2 (0.336 mi.)***	***AR215***	***769***
Date Closed: 07/29/98				
PEARLE ST/BKLYN/NYCTA	***PEARLE STREET***	***SW 1/4 - 1/2 (0.336 mi.)***	***AR216***	***771***
Date Closed: 07/29/98				
225 CADMAN PLAZA E/BKLYN	225 CADMAN PLAZA EAST	WNW 1/4 - 1/2 (0.345 mi.)	AS218	775
Date Closed: 01/20/89				
FARRAGUT HOUSES	***190 YORK STREET***	***N 1/4 - 1/2 (0.378 mi.)***	***222***	***783***
Date Closed: 01/10/94				
Date Closed: / /				
**Additional key fields are available in the Map Findings section*				
WHITMAN HOUSING	***287 MYRTLE AVENUE***	***ESE 1/4 - 1/2 (0.395 mi.)***	***226***	***794***
Date Closed: / /				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
32 COURT STREET Date Closed: / /	***32 COURT ST***	***WSW 1/4 - 1/2 (0.415 mi.)***	***AU230***	***802***
HOUSING - ADVANCED MANAGEMENT Date Closed: 12/30/93	***235 LINCOLN PL***	***WSW 1/4 - 1/2 (0.416 mi.)***	***AU231***	***805***
55 PROSPECT ST/WATCHTOWER Date Closed: 10/07/92	55 PROSPECT ST.	NW 1/4 - 1/2 (0.418 mi.)	AV233	814
BOARD OF EDUCATION Date Closed: 12/13/96	***409 RED HOOK LANE***	***SW 1/4 - 1/2 (0.431 mi.)***	***235***	***822***
MPM REALTY CORP Date Closed: 02/24/95	141 LIVINGSTON STREET	SSW 1/4 - 1/2 (0.436 mi.)	AX239	833
NEW YORK CITY WELFARE FAC Date Closed: 03/19/99	***210 LIVINGSTON STREET***	***SSW 1/4 - 1/2 (0.447 mi.)***	***242***	***841***
NYNEX Date Closed: / /	***111 LIVINGSTON ST***	***SW 1/4 - 1/2 (0.453 mi.)***	***AY243***	***848***
NY TELEPHONE Date Closed: / /	***111 LIVINGSTON STREET***	***SW 1/4 - 1/2 (0.453 mi.)***	***AY244***	***895***
111 LIVINGSTON ST/NY TEL Date Closed: 05/15/92	111 LIVINGSTON ST	SW 1/4 - 1/2 (0.453 mi.)	AY245	897
120 SCHERMERHORN STREET Date Closed: 11/04/92	120 SCHERMERHORN STREET	SW 1/4 - 1/2 (0.486 mi.)	BA251	932
86 LIVINGSTON STREET Date Closed: 09/25/92	***86 LIVINGSTON STREET***	***SW 1/4 - 1/2 (0.491 mi.)***	***BB254***	***956***

Lower Elevation	Address	Direction / Distance	Map ID	Page
INGERSOLL HOUSES Date Closed: / /	8 MONUMENT WALK	ESE 1/4 - 1/2 (0.253 mi.)	AO201	728
INGERSOLL HOUSES Date Closed: / /	***22 MONUMENT WALK***	***ESE 1/4 - 1/2 (0.257 mi.)***	***AO202***	***729***
CLOSED-LACKOF RECENT INFO Date Closed: / /	***ADMINISTRATION BLDG***	***ENE 1/4 - 1/2 (0.432 mi.)***	***AW236***	***825***
RED HOOK TERM/BKLYN/ Date Closed: / /	***RED HOOK TERMINAL***	***ENE 1/4 - 1/2 (0.432 mi.)***	***AW237***	***828***
RED HOOK MARINE/PT AUTH Date Closed: 11/14/94	***RED HOOK MARINE TERMINA***	***ENE 1/4 - 1/2 (0.432 mi.)***	***AW238***	***830***
KINGDOM SUPPORT SERVICES	***74 ADAMS ST***	***NNW 1/4 - 1/2 (0.491 mi.)***	***255***	***959***
58-02 FLUSHING AVE/QUEENS Date Closed: / /	***58-02 FLUSHING AVENUE***	***ENE 1/4 - 1/2 (0.492 mi.)***	***BC256***	***977***

State and tribal registered storage tank lists

TANKS: This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

A review of the TANKS list, as provided by EDR, and dated 07/02/2012 has revealed that there is 1

EXECUTIVE SUMMARY

TANKS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VERIZON - BRIDGE ST CO	***360 BRIDGE ST***	***SSW 1/8 - 1/4 (0.237 mi.)***	***AL191***	***680***

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the UST list, as provided by EDR, and dated 07/02/2012 has revealed that there are 25 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MET TECH MOTOR	***125 FLATBUSH AVENUE EXT***	***SW 0 - 1/8 (0.037 mi.)***	***D15***	***57***
SHELL	***112 FLATBUSH AVE***	***WSW 0 - 1/8 (0.043 mi.)***	***C19***	***77***
MERIT FLATBUSH	132 FLATBUSH AVE EXTENS	SW 0 - 1/8 (0.046 mi.)	D23	109
TA POLICE ACADEMY	***300 GOLD STREET***	***SSE 0 - 1/8 (0.055 mi.)***	***F27***	***121***
NYPD 84TH PRECINCT	301 GOLD STREET	SSE 0 - 1/8 (0.055 mi.)	F32	154
SUNOCO #0007-1548	***85 FLATBUSH AVENUE***	***NW 0 - 1/8 (0.064 mi.)***	***H40***	***180***
AVALON GOLD, LLC	***329 GOLD STREET***	***SSE 0 - 1/8 (0.087 mi.)***	***K73***	***291***
POLYTECHNIC UNIVERSITY	122 JOHNSON STREET	SW 0 - 1/8 (0.102 mi.)	Q87	334
BOLLA EM REALTY LLC #11861	***185 FLATBUSH AVENUE***	***S 0 - 1/8 (0.111 mi.)***	***S94***	***361***
OWENS NEW WORLD TRUCKING	***183 CONCORD ST***	***N 0 - 1/8 (0.116 mi.)***	***V100***	***403***
POLYTECHNIC UNIVERSITY	***305 BRIDGE STREET***	***SW 0 - 1/8 (0.121 mi.)***	***Q113***	***434***
DR WHITE COMMUNITY CENTER	***200 GOLD ST***	***N 1/8 - 1/4 (0.168 mi.)***	***Z127***	***472***
MAYFAIR SHIP SUPPLIES INC	172 NASSAU ST	NNW 1/8 - 1/4 (0.180 mi.)	AA141	507
NEW YORK CITY COLLEGE OF TECHN	300 JAY STREET	W 1/8 - 1/4 (0.185 mi.)	AE154	553
116 NASSAU STREET APARTMENTS	***116 NASSAU ST***	***NW 1/8 - 1/4 (0.213 mi.)***	***AG163***	***575***
147 PRINCE ST.	***147 PRINCE STREET***	***SSE 1/8 - 1/4 (0.223 mi.)***	***171***	***592***
POLYTECHNIC UNIVERSITY, JACOBS	333 JAY STREET	SW 1/8 - 1/4 (0.227 mi.)	AJ176	629
330 JAY STREET CONDOMINIUM ASS	330 JAY ST	SW 1/8 - 1/4 (0.232 mi.)	AJ188	674
BROOKLYN RENAISSANCE PLAZA	350 JAY STREET	SW 1/8 - 1/4 (0.248 mi.)	AN196	711

Lower Elevation	Address	Direction / Distance	Map ID	Page
ENGINE 207 / LADDER 110	***172 TILLARY STREET***	***E 0 - 1/8 (0.029 mi.)***	***B6***	***18***
MIM IMPORT CORP	***78 PRINCE ST***	***SE 0 - 1/8 (0.083 mi.)***	***L62***	***262***
176 JOHNSON ST.	***176 JOHNSON STREET***	***SSE 0 - 1/8 (0.086 mi.)***	***K68***	***279***
2-14 PRINCE ST	***2-14 PRINCE STREET***	***NE 0 - 1/8 (0.121 mi.)***	***P114***	***438***
INGERSOLL HOUSES	85 NAVY WALK	SE 0 - 1/8 (0.122 mi.)	W116	443
PUBLIC SCHOOL 287 - BROOKLYN	***50 NAVY STREET***	***NE 1/8 - 1/4 (0.217 mi.)***	***AI169***	***586***

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the AST list, as provided by EDR, and dated 07/02/2012 has revealed that there are 25 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TA POLICE ACADEMY	***300 GOLD STREET***	***SSE 0 - 1/8 (0.055 mi.)***	***F27***	***121***
NYPD 84TH PRECINCT	301 GOLD STREET	SSE 0 - 1/8 (0.055 mi.)	F28	128
ROBERT T. LANNUCCI & SONIA EWE	325 GOLD ST	SSE 0 - 1/8 (0.085 mi.)	K66	274
AVALON GOLD, LLC	***329 GOLD STREET***	***SSE 0 - 1/8 (0.087 mi.)***	***K73***	***291***
FOREST CITY FLATBUSH ASSOCIATE	9 METROTECH CENTER	SSW 0 - 1/8 (0.100 mi.)	85	328

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SCIENCE SKILLS (K805)	49 FLATBUSH AVENUE EXTE	NW 0 - 1/8 (0.113 mi.)	T96	392
257 GOLD STREET	235-263 GOLD STREET	NNE 0 - 1/8 (0.115 mi.)	U98	398
RED ROCK RESOURCES INC.	177 CONCORD ST	N 0 - 1/8 (0.118 mi.)	V106	418
GEORGE WESTINGHOUSE HS	105 JOHNSON STREET	WSW 1/8 - 1/4 (0.144 mi.)	X122	457
POLYTECHNIC UNIVERSITY	101 JOHNSON STREET	WSW 1/8 - 1/4 (0.150 mi.)	X123	460
133 CONCORD ST	***133 CONCORD STREET***	***NW 1/8 - 1/4 (0.173 mi.)***	***130***	***479***
EDDIE NILAN	***180 NASSAU ST***	***N 1/8 - 1/4 (0.176 mi.)***	***AA132***	***485***
40 FLATBUSH REALTY ASSOCIATES	***25 CHAPEL STREET***	***WNW 1/8 - 1/4 (0.178 mi.)***	***140***	***503***
FOREST CITY BRIDGE STREETS ASS	2 METROTECH CENTER	SW 1/8 - 1/4 (0.185 mi.)	AC144	512
NEW YORK CITY COLLEGE OF TECHN	300 JAY STREET	W 1/8 - 1/4 (0.185 mi.)	AE150	526
JOHN MULLINS & SONS INC	***84 MYRTLE AVENUE***	***SW 1/8 - 1/4 (0.205 mi.)***	***162***	***571***
POLYTECHNIC UNIVERSITY	329 JAY STREET	SW 1/8 - 1/4 (0.221 mi.)	AJ170	590
15 METROTECH CENTER	15 METROTECH CENTER	SW 1/8 - 1/4 (0.225 mi.)	AJ172	596
FOREST CITY TECH PLACE ASSOCIA	11 METROTECH CENTER	SW 1/8 - 1/4 (0.227 mi.)	AJ173	598
FOREST CITY JAY STREET ASSOCIA	ONE METROTECH CENTER	SW 1/8 - 1/4 (0.231 mi.)	AJ177	632
BELLTEL LOFTS	101 WILLOUGHBY STREET	SSW 1/8 - 1/4 (0.241 mi.)	AM192	689
BROOKLYN RENAISSANCE PLAZA	350 JAY STREET	SW 1/8 - 1/4 (0.248 mi.)	AN197	714

Lower Elevation	Address	Direction / Distance	Map ID	Page
ENGINE 207 / LADDER 110	***172 TILLARY STREET***	***E 0 - 1/8 (0.029 mi.)***	***B6***	***18***
SHURGARD STORAGE CENTER	***30 PRINCE STREET***	***NE 0 - 1/8 (0.102 mi.)***	***P86***	***330***
INGERSOLL HOUSES	85 NAVY WALK	SE 0 - 1/8 (0.122 mi.)	W117	447

CBS AST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the CBS AST list, as provided by EDR, and dated 01/01/2002 has revealed that there is 1 CBS AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
COMMODORE BARRY	***PARK AVE, NAVY AVE, FLU***	***NE 1/8 - 1/4 (0.200 mi.)***	***161***	***570***

CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the CBS list, as provided by EDR, and dated 07/02/2012 has revealed that there is 1 CBS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
COMMODORE BARRY	***PARK AVE, NAVY AVE, FLU***	***NE 1/8 - 1/4 (0.200 mi.)***	***161***	***570***

EXECUTIVE SUMMARY

State and tribal institutional control / engineering control registries

ENG CONTROLS: Environmental Remediation sites that have engineering controls in place.

A review of the ENG CONTROLS list, as provided by EDR, and dated 08/20/2012 has revealed that there is 1 ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
220 WATER STREET	***220 WATER STREET***	***N 1/4 - 1/2 (0.476 mi.)***	***249***	***904***

INST CONTROL: Environmental Remediation sites that have institutional controls in place.

A review of the INST CONTROL list, as provided by EDR, and dated 08/20/2012 has revealed that there is 1 INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
220 WATER STREET	***220 WATER STREET***	***N 1/4 - 1/2 (0.476 mi.)***	***249***	***904***

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Agreements. The voluntary remedial program uses private monies to get contaminated sites remediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

A review of the VCP list, as provided by EDR, and dated 08/20/2012 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BROOKLYN NAVY YARD - NYC DEP	***FLUSHING AVE AT CUMBERL***	***E N 1/4 - 1/2 (0.489 mi.)***	***BC253***	***935***

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

A review of the BROWNFIELDS list, as provided by EDR, and dated 08/20/2012 has revealed that there are 3 BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THE GIOVANI (PROPOSED)	160 AND 180 MYRTLE AVEN	SSE 1/8 - 1/4 (0.185 mi.)	AD148	525
388 BRIDGE STREET	388 BRIDGE STREET	SSW 1/4 - 1/2 (0.288 mi.)	208	748
220 WATER STREET	***220 WATER STREET***	***N 1/4 - 1/2 (0.476 mi.)***	***249***	***904***

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

DEL SHWS: A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

A review of the DEL SHWS list, as provided by EDR, and dated 08/20/2012 has revealed that there is 1 DEL SHWS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
APEX THERMOPLASTICS INC.	100-110 BRIDGE STREET	N 1/4 - 1/2 (0.385 mi.)	AT223	790

Local Lists of Registered Storage Tanks

HIST UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 23 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MET TECH MOTOR	***125 FLATBUSH AVENUE EXT***	***SW 0 - 1/8 (0.037 mi.)***	***D15***	***57***
SHELL	***112 FLATBUSH AVE***	***WSW 0 - 1/8 (0.043 mi.)***	***C19***	***77***
MERIT OIL CORP	***132 FLATBUSH AVE EXT***	***SW 0 - 1/8 (0.046 mi.)***	***D22***	***102***
TA POLICE ACADEMY	***300 GOLD STREET***	***SSE 0 - 1/8 (0.055 mi.)***	***F27***	***121***
84TH PRECINCT	301 GOLD ST	SSE 0 - 1/8 (0.055 mi.)	F29	132
SUNOCO #0007-1548	***85 FLATBUSH AVENUE***	***NW 0 - 1/8 (0.064 mi.)***	***H40***	***180***
PEPPER & POTTER, INC	***329 GOLD ST***	***SSE 0 - 1/8 (0.087 mi.)***	***K75***	***301***
POLYTECH	***122 JOHNSON ST***	***SW 0 - 1/8 (0.102 mi.)***	***Q88***	***336***
BOLLA EM REALTY LLC #11861	***185 FLATBUSH AVENUE***	***S 0 - 1/8 (0.111 mi.)***	***S94***	***361***
OWENS NEW WORLD TRUCKING	***183 CONCORD ST***	***N 0 - 1/8 (0.116 mi.)***	***V100***	***403***
POLYTECHNIC UNIVERSITY	***305 BRIDGE STREET***	***SW 0 - 1/8 (0.121 mi.)***	***Q113***	***434***
DR WHITE COMMUNITY CENTER	***200 GOLD ST***	***N 1/8 - 1/4 (0.168 mi.)***	***Z127***	***472***
MAYFAIR SHIP SUPPLIES INC	172 NASSAU ST	NNW 1/8 - 1/4 (0.180 mi.)	AA142	509
NASSAU STREET PARTNERS	***116 NASSAU ST***	***NW 1/8 - 1/4 (0.213 mi.)***	***AG164***	***577***
147 PRINCE ST.	***147 PRINCE STREET***	***SSE 1/8 - 1/4 (0.223 mi.)***	***171***	***592***
POLYTECHNIC UNIVERSITY	***333 JAY STREET***	***SW 1/8 - 1/4 (0.227 mi.)***	***AJ174***	***601***
NEW YORK CITY TECH COLLEGE	55 JOHNSON STREET	WSW 1/8 - 1/4 (0.250 mi.)	200	726

Lower Elevation	Address	Direction / Distance	Map ID	Page
ENGINE 207 / LADDER 110	***172 TILLARY STREET***	***E 0 - 1/8 (0.029 mi.)***	***B6***	***18***
MIM IMPORT CORP	***78 PRINCE ST***	***SE 0 - 1/8 (0.083 mi.)***	***L62***	***262***
176 JOHNSON ST.	***176 JOHNSON STREET***	***SSE 0 - 1/8 (0.086 mi.)***	***K68***	***279***
2-14 PRINCE ST	***2-14 PRINCE STREET***	***NE 0 - 1/8 (0.121 mi.)***	***P114***	***438***
INGERSOLL	85 NAVY WALK	SE 0 - 1/8 (0.122 mi.)	W118	449
PUBLIC SCHOOL 287 - BROOKLYN	***50 NAVY STREET***	***NE 1/8 - 1/4 (0.217 mi.)***	***AI169***	***586***

EXECUTIVE SUMMARY

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 08/20/2012 has revealed that there are 39 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MANHOLE 753	***FLATBUSH AV/TILLERY ST***	***W 0 - 1/8 (0.036 mi.)***	***C11***	***48***
Date Closed: 11/9/1999				
DRUM RUN	FLATBUSH AVE AND TILLER	W 0 - 1/8 (0.036 mi.)	C12	50
Date Closed: 8/9/2007				
MANHOLE 753	***FLATBUSH AVE & TILLARY***	***W 0 - 1/8 (0.036 mi.)***	***C13***	***52***
Date Closed: 11/30/1999				
TRANSORMER MANHOLE TM128	***TILLARY ST &FLATBUSH AV***	***W 0 - 1/8 (0.036 mi.)***	***C14***	***54***
Date Closed: 11/9/1999				
11 METROTECH CENTER	***11 METROTECH CENTER***	***WNW 0 - 1/8 (0.043 mi.)***	***C21***	***98***
Date Closed: 12/30/2009				
TA POLICE ACADEMY	***300 GOLD STREET***	***SSE 0 - 1/8 (0.055 mi.)***	***F27***	***121***
Date Closed: 3/16/2007				
NYPD 84 PRECINCT	***301 GOLD ST***	***SSE 0 - 1/8 (0.055 mi.)***	***F31***	***142***
Date Closed: 7/11/2008				
SUNOCO #0007-1548	***85 FLATBUSH AVENUE***	***NW 0 - 1/8 (0.064 mi.)***	***H40***	***180***
Date Closed: 4/30/1995				
MANHOLE #62493	***FLAT BUSH & TILLERY***	***W 0 - 1/8 (0.068 mi.)***	***43***	***211***
Date Closed: 12/14/1999				
MANHOLE #712	***259 GOLD ST***	***NNE 0 - 1/8 (0.070 mi.)***	***E49***	***226***
Date Closed: 8/17/2001				
COMMERCIAL FACILITY	***235-263 GOLD STREET***	***NNE 0 - 1/8 (0.076 mi.)***	***J51***	***230***
Date Closed: 11/6/2007				
TWO GALLONS FOUND IN MH 712	***257 GOLD STREET***	***NNE 0 - 1/8 (0.076 mi.)***	***J52***	***235***
Date Closed: 7/23/2007				
RECONSTRUCTION SITE	167 JOHNSON STREET	SSE 0 - 1/8 (0.078 mi.)	F56	247
VACANT LOT	49 DUFFIELD STREET	NNW 0 - 1/8 (0.087 mi.)	N71	288
Date Closed: 3/28/2007				
CONSTRUCTION SITE	329 GOLD STREET	SSE 0 - 1/8 (0.087 mi.)	K74	299
Date Closed: 6/9/2006				
Date Closed: 4/10/2008				
**Additional key fields are available in the Map Findings section*				
MANHOLE 750	***CATHEDRAL PL/FLATBUSH A***	***NW 0 - 1/8 (0.091 mi.)***	***O78***	***311***
Date Closed: 7/10/2001				
CATHEDRAL PL & BRIDGE ST	***CATHEDRAL PL & BRIDGE S***	***NW 0 - 1/8 (0.095 mi.)***	***O80***	***316***
BRIDGE ST & CATHEDRAL PL	***BRIDGE ST & CATHEDRAL P***	***NW 0 - 1/8 (0.095 mi.)***	***O81***	***319***
MAHOLE #1929	***IFO 343 GOLD ST***	***SSE 0 - 1/8 (0.097 mi.)***	***K84***	***325***
Date Closed: 7/2/2004				
POLYTECH	***122 JOHNSON ST***	***SW 0 - 1/8 (0.102 mi.)***	***Q88***	***336***
MOBIL GAS STATION #11861	***185 FLATBUSH AVENUE***	***S 0 - 1/8 (0.111 mi.)***	***S95***	***386***
Date Closed: 5/19/2003				
Date Closed: 7/10/1992				
**Additional key fields are available in the Map Findings section*				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MANHOLE 712 Date Closed: 1/10/2008	GOLD ST & CONCORD ST	NNE 0 - 1/8 (0.117 mi.)	U101	407
GOLD ST & CONCORD ST Date Closed: 3/30/2009	GOLD ST & CONCORD ST	NNE 0 - 1/8 (0.117 mi.)	U103	412
MANHOLE 747 Date Closed: 12/14/2001	***CHAPEL ST AND FLATBUSH***	***NW 0 - 1/8 (0.119 mi.)***	***T107***	***420***
IN PARKING LOT Date Closed: 9/7/2010	FLATBUSH AVE/CHAPLE ST	NW 0 - 1/8 (0.119 mi.)	T108	423
218791; CHAPEL ST AND FLATBUSH Date Closed: 10/24/2009	CHAPEL ST AND FLATBUSH	NW 0 - 1/8 (0.119 mi.)	T109	424

Lower Elevation	Address	Direction / Distance	Map ID	Page
MANHOLE 711 Date Closed: 3/14/2001	***TILLARY ST/GOLD ST***	***ENE 0 - 1/8 (0.028 mi.)***	***B4***	***14***
GROUND Date Closed: 8/24/2009	TILLARY ST AND GOLD ST	ENE 0 - 1/8 (0.028 mi.)	B5	17
ENGINE 207 / LADDER 110 Date Closed: 10/30/1992	***172 TILLARY STREET***	***E 0 - 1/8 (0.029 mi.)***	***B6***	***18***
MCDONALDS Date Closed: 2/26/1998	***169 TILLARY ST/GOLD ST***	***ENE 0 - 1/8 (0.030 mi.)***	***B8***	***41***
TILLARY & PRINCE ST/BKLYN Date Closed: 4/6/1990	***TILLARY ST & PRINCE ST***	***E 0 - 1/8 (0.065 mi.)***	***I42***	***209***
VAULT #3213 Date Closed: 8/30/2002	TILLARY ST / PRINCE ST	E 0 - 1/8 (0.070 mi.)	I44	214
VAULT 4147 Date Closed: 11/9/1999	***TILLERY ST / PRINCE ST***	***E 0 - 1/8 (0.070 mi.)***	***I45***	***215***
MANHOLE 60577 Date Closed: 5/18/2000	***PRINCE ST & TILLERY ST***	***E 0 - 1/8 (0.070 mi.)***	***I46***	***218***
176 JOHNSON STREET Date Closed: 12/8/1992	***176 JOHNSON ST***	***SSE 0 - 1/8 (0.086 mi.)***	***K67***	***276***
MANHOLE Date Closed: 2/28/2002	***JOHNSON ST & PRINCE ST***	***SE 0 - 1/8 (0.102 mi.)***	***R89***	***346***
MANHOLE #60331 Date Closed: 2/28/2002	***PRINCE ST & JOHNSON AVE***	***SE 0 - 1/8 (0.102 mi.)***	***R91***	***350***
INGERSOLL HOUSES Date Closed: 3/13/2009	***85 NAVY WALK***	***SE 0 - 1/8 (0.121 mi.)***	***W112***	***431***
INGERSOLL HOUSES Date Closed: 5/1/1995	***5 FLEETWALK & TILARY ST***	***E 0 - 1/8 (0.123 mi.)***	***119***	***452***

NY Hist Spills: This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database.

A review of the NY Hist Spills list, as provided by EDR, and dated 01/01/2002 has revealed that there

are 28 NY Hist Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MANHOLE 753	***FLATBUSH AV/TILLERY ST***	***W 0 - 1/8 (0.036 mi.)***	***C11***	***48***
MANHOLE 753	***FLATBUSH AVE & TILLARY***	***W 0 - 1/8 (0.036 mi.)***	***C13***	***52***
TRANSORMER MANHOLE TM128	***TILLARY ST &FLATBUSH AV***	***W 0 - 1/8 (0.036 mi.)***	***C14***	***54***
11 METROTECH CENTER	***11 METROTECH CENTER***	***WNW 0 - 1/8 (0.043 mi.)***	***C21***	***98***
132 FLATBUSH AVE/MERIT	132 FLATBUSH AVENUE	SW 0 - 1/8 (0.048 mi.)	D24	115
NYPD PCT 84	***301 GOLD ST***	***SSE 0 - 1/8 (0.055 mi.)***	***F30***	***137***
85 FLATBUSH AVENUE EXT.	85 FLATBUSH AVENUE EXT.	NW 0 - 1/8 (0.064 mi.)	H37	174
MANHOLE #62493	***FLAT BUSH & TILLERY***	***W 0 - 1/8 (0.068 mi.)***	***43***	***211***
MANHOLE #712	***259 GOLD ST***	***NNE 0 - 1/8 (0.070 mi.)***	***E49***	***226***
MANHOLE 750	***CATHEDRAL PL/FLATBUSH A***	***NW 0 - 1/8 (0.091 mi.)***	***O78***	***311***
CATHEDRAL PL & BRIDGE ST	***CATHEDRAL PL & BRIDGE S***	***NW 0 - 1/8 (0.095 mi.)***	***O80***	***316***
BRIDGE ST & CATHEDRAL PL	***BRIDGE ST & CATHEDRAL P***	***NW 0 - 1/8 (0.095 mi.)***	***O81***	***319***
MAHOLE #1929	***IFO 343 GOLD ST***	***SSE 0 - 1/8 (0.097 mi.)***	***K84***	***325***
MOBIL OIL CORP SS #EGA	***185 FLATBUSH AVE EXT***	***S 0 - 1/8 (0.111 mi.)***	***S93***	***358***
MOBIL GAS STATION #11861	***185 FLATBUSH AVENUE***	***S 0 - 1/8 (0.111 mi.)***	***S95***	***386***
MANHOLE 747	***CHAPEL ST AND FLATBUSH***	***NW 0 - 1/8 (0.119 mi.)***	***T107***	***420***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MANHOLE 711	***TILLARY ST/GOLD ST***	***ENE 0 - 1/8 (0.028 mi.)***	***B4***	***14***
ENGINE 207 / LADDER 110	***172 TILLARY STREET***	***E 0 - 1/8 (0.029 mi.)***	***B6***	***18***
172 TIILARY STREET	172 TILLARY STREET	E 0 - 1/8 (0.029 mi.)	B7	40
MCDONALDS	***169 TILLARY ST/GOLD ST***	***ENE 0 - 1/8 (0.030 mi.)***	***B8***	***41***
TILLARY & PRINCE ST/BKLYN	***TILLARY ST & PRINCE ST***	***E 0 - 1/8 (0.065 mi.)***	***I42***	***209***
VAULT 4147	***TILLERY ST / PRINCE ST***	***E 0 - 1/8 (0.070 mi.)***	***I45***	***215***
MANHOLE 60577	***PRINCE ST & TILLERY ST***	***E 0 - 1/8 (0.070 mi.)***	***I46***	***218***
176 JOHNSON STREET	***176 JOHNSON ST***	***SSE 0 - 1/8 (0.086 mi.)***	***K67***	***276***
MANHOLE	***JOHNSON ST & PRINCE ST***	***SE 0 - 1/8 (0.102 mi.)***	***R89***	***346***
MANHOLE #60331	***PRINCE ST & JOHNSON AVE***	***SE 0 - 1/8 (0.102 mi.)***	***R91***	***350***
INGERSOLL HOUSES	***85 NAVY WALK***	***SE 0 - 1/8 (0.121 mi.)***	***W112***	***431***
INGERSOLL HOUSES	***5 FLEETWALK & TILARY ST***	***E 0 - 1/8 (0.123 mi.)***	***119***	***452***

Other Ascertainable Records

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 03/15/2012 has revealed that there are 30 RCRA-NonGen sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHELL SERVICE STATION	112 FLATBUSH AVE	WSW 0 - 1/8 (0.043 mi.)	C20	96
300 GOLD ST	***300 GOLD ST***	***SSE 0 - 1/8 (0.055 mi.)***	***F26***	***119***
SUNOCO SERVICE STATION	85 FLATBUSH AVE EXT	NW 0 - 1/8 (0.064 mi.)	H38	176
SUNOCO SERVICE STATION	***85 FLATBUSH EXT***	***NW 0 - 1/8 (0.064 mi.)***	***H41***	***207***
CON EDISION - MH712	***259 GOLD ST. 259 GOLD S***	***NNE 0 - 1/8 (0.070 mi.)***	***E48***	***224***
TEAM OBSOLETE	***315 GOLD ST***	***SSE 0 - 1/8 (0.075 mi.)***	***F50***	***228***
CON ED - V 3268	***264 BRIDGE ST***	***WSW 0 - 1/8 (0.081 mi.)***	***59***	***254***
PEPPER & POTTER INC	***329 GOLD ST***	***SSE 0 - 1/8 (0.087 mi.)***	***K72***	***290***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON ED - MH 10126	***BRIDGE ST & JOHNSON AVE***	***SW 0 - 1/8 (0.103 mi.)***	***Q92***	***353***
MOBIL OIL CORP SS #EGA	***185 FLATBUSH AVE EXT***	***S 0 - 1/8 (0.111 mi.)***	***S93***	***358***
CON ED-GOLD & CONCORD ST	***GOLD ST & CONCORD ST***	***NNE 0 - 1/8 (0.117 mi.)***	***U102***	***409***
CON ED - MH60506	***GOLD ST & CONCORD ST***	***NNE 0 - 1/8 (0.117 mi.)***	***U104***	***413***
CHASE MANHATTAN BANK	***4 CHASE METROTECH CENTE***	***S 1/8 - 1/4 (0.173 mi.)***	***Y129***	***477***
CON EDISON	***NAUSSAU ST & GOLD ST***	***NNE 1/8 - 1/4 (0.174 mi.)***	***Z131***	***483***
FOREST CITY BRIDGE STREET ASSO	***2 METROTECH CTR***	***SW 1/8 - 1/4 (0.185 mi.)***	***AC146***	***520***
NYC COLLEGE OF TECHNOLOGY	***300 JAY ST***	***W 1/8 - 1/4 (0.185 mi.)***	***AE152***	***547***
CON EDISON MANHOLE 65431	***JAY ST & MYRTLE AVE***	***SW 1/8 - 1/4 (0.232 mi.)***	***AJ189***	***677***
CON EDISION - V 462	***349 BRIDGE ST 349 BRIDG***	***SSW 1/8 - 1/4 (0.241 mi.)***	***AM194***	***695***
CON EDISON - MANHOLE 65430	***JAY ST AND NASSAU ST***	***NW 1/8 - 1/4 (0.248 mi.)***	***199***	***721***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISION - MH1942	***31 JOHNSON DRIVE 31 JOH***	***SE 0 - 1/8 (0.102 mi.)***	***R90***	***348***
F B E PRINCE ST	214 PRINCE ST	NE 0 - 1/8 (0.121 mi.)	P115	442
NYCHA - INGERSOL HOUSES	***120 NAVY WALK***	***SE 1/8 - 1/4 (0.132 mi.)***	***W121***	***455***
CON ED - MH 60182	PARK AVE & NAVY ST	ENE 1/8 - 1/4 (0.178 mi.)	AB135	493
CON EDISON	PARK AVE & NAVY ST.	ENE 1/8 - 1/4 (0.178 mi.)	AB136	494
CON EDISION - MH60182	***PARK & NAVY PARK & NAVY***	***ENE 1/8 - 1/4 (0.178 mi.)***	***AB137***	***495***
CON ED - M/H 60182	***PARK & NAVY ST***	***ENE 1/8 - 1/4 (0.178 mi.)***	***AB138***	***499***
NYCHA - FARRAGUT	***251 NASSAU ST***	***NNE 1/8 - 1/4 (0.197 mi.)***	***155***	***558***
NYC BD OF ED - PUBLIC SCHOOL 2	***50 NAVY ST***	***NE 1/8 - 1/4 (0.217 mi.)***	***AI168***	***584***
CON EDISON MANHOLE 619	NAVY ST & NASSAU ST	NE 1/8 - 1/4 (0.232 mi.)	AI183	666
CON ED-MH 60095	***NAVY ST & NASSAU AVE***	***NE 1/8 - 1/4 (0.232 mi.)***	***AI186***	***670***

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 12/31/2009 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NAVY BARRACKS BKLYN		E 1/2 - 1 (0.691 mi.)	261	982

HSWDS: The List includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity The latest version of the study is frozen in time. The sites on the study will not automatically be made superfund sites, rather each site will be further evaluated for listing in the registry. So overtime they will be added to the registry or not.

A review of the HSWDS list, as provided by EDR, and dated 01/01/2003 has revealed that there are 4 HSWDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMANUEL CELLLARD FEDERAL BUILD	***225 CADMAN PLZ***	***WNW 1/4 - 1/2 (0.345 mi.)***	***AS219***	***777***
APEX THERMOPLASTICS INC.	100-110 BRIDGE ST	N 1/4 - 1/2 (0.385 mi.)	AT224	792
BRADLEY WHITE LEAD CO.	85 JAY ST.	NNW 1/4 - 1/2 (0.455 mi.)	AZ247	902

Lower Elevation	Address	Direction / Distance	Map ID	Page
NASSAU TANK CLEANING CO.	323 NASSAU STREET	NE 1/4 - 1/2 (0.259 mi.)	203	733

EXECUTIVE SUMMARY

MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the MANIFEST list, as provided by EDR, and dated 08/01/2012 has revealed that there are 49 MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
300 GOLD ST	***300 GOLD ST***	***SSE 0 - 1/8 (0.055 mi.)***	***F26***	***119***
147 FLATBUSH AVE LLC	***147 FLATBUSH AVE***	***SSW 0 - 1/8 (0.057 mi.)***	***G34***	***164***
SUNOCO #0007-1548	***85 FLATBUSH AVENUE***	***NW 0 - 1/8 (0.064 mi.)***	***H40***	***180***
CON EDISION - MH712	***259 GOLD ST. 259 GOLD S***	***NNE 0 - 1/8 (0.070 mi.)***	***E48***	***224***
COMMERCIAL FACILITY	***235-263 GOLD STREET***	***NNE 0 - 1/8 (0.076 mi.)***	***J51***	***230***
TWO GALLONS FOUND IN MH 712	***257 GOLD STREET***	***NNE 0 - 1/8 (0.076 mi.)***	***J52***	***235***
CONSOLIDATED EDISON	GOLD ST & JOHNSON ST	SSE 0 - 1/8 (0.079 mi.)	K57	249
CON ED - V 3268	***264 BRIDGE ST***	***WSW 0 - 1/8 (0.081 mi.)***	***59***	***254***
AVALON GOLD LLC	343 GOLD STREET	SSE 0 - 1/8 (0.097 mi.)	K82	321
CON ED - MH 10126	***BRIDGE ST & JOHNSON AVE***	***SW 0 - 1/8 (0.103 mi.)***	***Q92***	***353***
CON ED-GOLD & CONCORD ST	***GOLD ST & CONCORD ST***	***NNE 0 - 1/8 (0.117 mi.)***	***U102***	***409***
CON ED - MH60506	***GOLD ST & CONCORD ST***	***NNE 0 - 1/8 (0.117 mi.)***	***U104***	***413***
CONSOLIDATED EDISON - MH2643	198 FLATBUSH AVE	S 0 - 1/8 (0.124 mi.)	S120	454
CONSOLIDATED EDISON	MYRTLE AVE & FLATBUSH A	S 1/8 - 1/4 (0.156 mi.)	Y124	462
R & P DRY CLEANERS	***167 MYRTLE AVE***	***SSE 1/8 - 1/4 (0.165 mi.)***	***126***	***465***
CHASE MANHATTAN BANK	***4 CHASE METROTECH CENTE***	***S 1/8 - 1/4 (0.173 mi.)***	***Y129***	***477***
CON EDISON	***NAUSSAU ST & GOLD ST***	***NNE 1/8 - 1/4 (0.174 mi.)***	***Z131***	***483***
CONSOLIDATED EDISON	FLATBUSH AVE & CONCORD	NW 1/8 - 1/4 (0.184 mi.)	143	510
SIAC	***2 METROTECH CTR - FLOOR***	***SW 1/8 - 1/4 (0.185 mi.)***	***AC145***	***514***
LOT 1,TAXBLOCK 2061	***180 MYRTLE AVENUE***	***SSE 1/8 - 1/4 (0.185 mi.)***	***AD147***	***521***
NYC TECHNICAL COLLEGE	300 JAY ST	W 1/8 - 1/4 (0.185 mi.)	AE151	534
CONSOLIDATED EDISON	MYRTLE AVE & HUDSON WAL	SE 1/8 - 1/4 (0.215 mi.)	167	583
POLYTECHNIC UNIVERSITY	***333 JAY STREET***	***SW 1/8 - 1/4 (0.227 mi.)***	***AJ174***	***601***
METROTECH - NATIONAL GRID NY O	1 METROTECH CENTER	SW 1/8 - 1/4 (0.231 mi.)	AJ179	637
CONCORD CLEANERS & LAUNDERER	***65 TILLARY ST***	***W 1/8 - 1/4 (0.231 mi.)***	***AK180***	***638***
NYCTA - JAY STREET SUBSTATION	***212 JAY ST***	***NW 1/8 - 1/4 (0.232 mi.)***	***182***	***651***
CON EDISON MANHOLE 65431	***JAY ST & MYRTLE AVE***	***SW 1/8 - 1/4 (0.232 mi.)***	***AJ189***	***677***
VERIZON - BRIDGE ST CO	***360 BRIDGE ST***	***SSW 1/8 - 1/4 (0.237 mi.)***	***AL191***	***680***
NYNEX	101 WILLOUGHBY ST	SSW 1/8 - 1/4 (0.241 mi.)	AM193	694
CON EDISION - V 462	***349 BRIDGE ST 349 BRIDG***	***SSW 1/8 - 1/4 (0.241 mi.)***	***AM194***	***695***
NEW YORK TELEPHONE CO	***101 WILLOUGHBY ST***	***SSW 1/8 - 1/4 (0.241 mi.)***	***AM195***	***696***
CON EDISON - MANHOLE 65430	***JAY ST AND NASSAU ST***	***NW 1/8 - 1/4 (0.248 mi.)***	***199***	***721***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISION - MH1942	***31 JOHNSON DRIVE 31 JOH***	***SE 0 - 1/8 (0.102 mi.)***	***R90***	***348***
NYCHA - INGERSOL HOUSES	***120 NAVY WALK***	***SE 1/8 - 1/4 (0.132 mi.)***	***W121***	***455***
CONSOLIATED EDISON	TILLARY ST & NAVY ST	ENE 1/8 - 1/4 (0.178 mi.)	AB133	488
CONSOLIDATED EDISON	PARK AVE & NAVY ST	ENE 1/8 - 1/4 (0.178 mi.)	AB134	490
CON EDISION - MH60182	***PARK & NAVY PARK & NAVY***	***ENE 1/8 - 1/4 (0.178 mi.)***	***AB137***	***495***
CON ED - M/H 60182	***PARK & NAVY ST***	***ENE 1/8 - 1/4 (0.178 mi.)***	***AB138***	***499***
CONSOLIDATED EDISON	TILLARY AVE & NAVY ST	ENE 1/8 - 1/4 (0.178 mi.)	AB139	502
NYCHA - FARRAGUT	***251 NASSAU ST***	***NNE 1/8 - 1/4 (0.197 mi.)***	***155***	***558***
CONSOLIDATED EDISON	NAVY ST & CONCORDE ST	ENE 1/8 - 1/4 (0.198 mi.)	AF157	563
CONSOLIDATED EDISON - MH 69585	NAVY & CONCORD	ENE 1/8 - 1/4 (0.198 mi.)	AF158	565
CONSOLIDATED EDISON	NAVY STREET AND CONCORD	ENE 1/8 - 1/4 (0.198 mi.)	AF159	567
CONSOLIDATED EDISON	NAVY & CONCORD ST	ENE 1/8 - 1/4 (0.198 mi.)	AF160	568
NYC BD OF ED - PUBLIC SCHOOL 2	***50 NAVY ST***	***NE 1/8 - 1/4 (0.217 mi.)***	***AI168***	***584***
CONSOLIDATED EDISON	NAVY ST & NASSAU ST	NE 1/8 - 1/4 (0.232 mi.)	AI184	667
CONSOLIDATED EDISON	NASSAU ST & NAVY ST	NE 1/8 - 1/4 (0.232 mi.)	AI185	669
CON ED-MH 60095	***NAVY ST & NASSAU AVE***	***NE 1/8 - 1/4 (0.232 mi.)***	***AI186***	***670***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONSOLIDATED EDISON	NASSAU ST AND NAVY ST	NE 1/8 - 1/4 (0.232 mi.)	AI187	673

DRYCLEANERS: A listing of all registered drycleaning facilities.

A review of the DRYCLEANERS list, as provided by EDR, and dated 06/20/2012 has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CONCORD/M & O CLEANERS	65 TILLARY ST.	W 1/8 - 1/4 (0.231 mi.)	AK181	650

E DESIGNATION: Lots designation with an ?E? on the Zoning Maps of the City of New York for potential hazardous material contamination, air and/or noise quality impacts.

A review of the E DESIGNATION list, as provided by EDR, and dated 09/12/2012 has revealed that there are 28 E DESIGNATION sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 13,TAXBLOCK 133	125 FLATBUSH AVENUE EXT	SW 0 - 1/8 (0.037 mi.)	D16	68
LOT 5,TAXBLOCK 133	131 FLATBUSH AVENUE EXT	SSW 0 - 1/8 (0.042 mi.)	D18	74
LOT 9,TAXBLOCK 122	271 GOLD STREET	NE 0 - 1/8 (0.049 mi.)	E25	116
LOT 1,TAXBLOCK 133	147 FLATBUSH AVENUE EXT	SSW 0 - 1/8 (0.057 mi.)	G33	161
LOT 10,TAXBLOCK 122	265 GOLD STREET	NNE 0 - 1/8 (0.059 mi.)	E35	168
LOT 12,TAXBLOCK 121	DUFFIELD STREET	N 0 - 1/8 (0.059 mi.)	36	171
LOT 45,TAXBLOCK 120	85 FLATBUSH AVENUE EXT	NW 0 - 1/8 (0.064 mi.)	H39	177
LOT 1,TAXBLOCK 134	311 GOLD STREET	SSE 0 - 1/8 (0.070 mi.)	F47	221
LOT 13,TAXBLOCK 120	75 FLATBUSH AVENUE EXT	NW 0 - 1/8 (0.076 mi.)	H54	240
LOT 37,TAXBLOCK 121	246 GOLD STREET	NNE 0 - 1/8 (0.078 mi.)	J55	244
LOT 36,TAXBLOCK 121	244 GOLD STREET	NNE 0 - 1/8 (0.082 mi.)	J61	258
LOT 33,TAXBLOCK 121	GOLD STREET	N 0 - 1/8 (0.083 mi.)	M64	268
LOT 18,TAXBLOCK 121	DUFFIELD STREET	N 0 - 1/8 (0.084 mi.)	M65	271
LOT 8,TAXBLOCK 2049	327 GOLD STREET	SSE 0 - 1/8 (0.086 mi.)	K69	282
LOT 34,TAXBLOCK 120	DUFFIELD STREET	NNW 0 - 1/8 (0.087 mi.)	N70	285
LOT 19,TAXBLOCK 121	DUFFIELD STREET	N 0 - 1/8 (0.089 mi.)	M76	304
LOT 32,TAXBLOCK 121	GOLD STREET	N 0 - 1/8 (0.089 mi.)	J77	307
LOT 2,TAXBLOCK 2049	335 GOLD STREET	SSE 0 - 1/8 (0.092 mi.)	K79	313
LOT 13,TAXBLOCK 122	235 GOLD STREET	NNE 0 - 1/8 (0.115 mi.)	U97	395
LOT 28,TAXBLOCK 121	194 CONCORD STREET	N 0 - 1/8 (0.115 mi.)	U99	400
LOT 25,TAXBLOCK 109	177 CONCORD STREET	N 0 - 1/8 (0.118 mi.)	V105	415
LOT 24,TAXBLOCK 108	171 CONCORD STREET	NNW 0 - 1/8 (0.120 mi.)	111	428

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOT 3,TAXBLOCK 121	67 DUFFIELD STREET	ENE 0 - 1/8 (0.030 mi.)	B9	43
LOT 5,TAXBLOCK 122	277 GOLD STREET	NE 0 - 1/8 (0.038 mi.)	B17	71
LOT 41,TAXBLOCK 134	171 JOHNSON STREET	SSE 0 - 1/8 (0.080 mi.)	K58	251
LOT 38,TAXBLOCK 134	173 JOHNSON STREET	SSE 0 - 1/8 (0.082 mi.)	K60	255
LOT 30,TAXBLOCK 134	78 PRINCE STREET	SE 0 - 1/8 (0.083 mi.)	L63	265
LOT 32,TAXBLOCK 122	14 PRINCE STREET	NE 0 - 1/8 (0.120 mi.)	P110	425

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there are 3 Manufactured Gas Plants sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FRONT STREET STATION	BRIDGE ST, FRONT ST, GO	N 1/4 - 1/2 (0.413 mi.)	229	802
PLYMOUTH STATION	PLYMOUTH, HUDSON, WATER	N 1/2 - 1 (0.519 mi.)	258	981

Lower Elevation	Address	Direction / Distance	Map ID	Page
BROOKLYN GAS AND LIGHT	MARSHALL ST., ST. JOHN	NNE 1/2 - 1 (0.620 mi.)	259	981

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
BELL ATLANTIC-NY	MANIFEST
GMD SHIPYARD	RCRA-NLR,MANIFEST
DEALER ELECTRIC CO	FINDS,RCRA-NLR,MANIFEST
CONSOLIDATED EDISON	MANIFEST
CONSOLIDATED EDISON	MANIFEST
CONSOLIDATED EDISON	RCRA-NLR,MANIFEST
CON EDISON OF NYC,INC.	MANIFEST
CONSOLIDATED EDISON	RCRA-NLR,MANIFEST
CONSOLIDATED EDISON	MANIFEST
NYSDOT	FINDS,MANIFEST,RCRA-NLR
NYS DOT BIN 106539A	MANIFEST
SCOTT JORDAN FURNITURE	FINDS,RCRA-NLR
E 29TH ST & KINGS HWY	SPILLS,HIST SPILLS
BETW/AVE X &	SPILLS
BOX 38486	SPILLS,HIST SPILLS
TO ROADWAY	SPILLS
ROADWAY	SPILLS
KINGS HIGHWAY MOBIL	SPILLS
205842; KINGS HWY	SPILLS
ROUTE 9A - MANHATTAN	HSWDS

APPENDIX C

EDR AERIAL PHOTO DECADE PACKAGE

156 Tillary Street
156 Tillary St.
Brooklyn, NY 11201

Inquiry Number: 3444910.5
November 01, 2012

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography November 01, 2012

Target Property:

156 Tillary St.

Brooklyn, NY 11201

Year	***Scale***	***Details***	***Source***
1924	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: July 01, 1924	EDR
1954	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: February 18, 1954	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: February 23, 1966	EDR
1975	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: April 01, 1975	EDR
1984	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: April 27, 1984	EDR
1994,1995	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Composite DOQQ - acquisition dates: April 04, 1994,March 13, 1995	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Year: 2006	EDR

INQUIRY #: 3444910.5

YEAR: 1924

= 500'

N

INQUIRY #: 3444910.5
YEAR: 1954
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3444910.5
YEAR: 1966
= 500'
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EDR Environmental Data Resources Inc

INQUIRY #: 3444910.5
YEAR: 1975
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EDR Environmental Data Resources Inc

INQUIRY #: 3444910.5
YEAR: 1984
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N
EDR Environmental Data Resources Inc

INQUIRY #: 3444910.5
YEAR: 1994,1995 (DOQQ)
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INQUIRY #: 3444910.5
YEAR: 2006
= 500'
N

APPENDIX D

EDR SANBORN MAP REPORT

156 Tillary Street
156 Tillary St.
Brooklyn, NY 11201

Inquiry Number: 3444910.3
November 01, 2012

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

11/01/12

Site Name:
156 Tillary Street
156 Tillary St.
Brooklyn, NY 11201

Client Name:
URS Corporation
5 Penn Plaza
New York, NY 10001

EDR Inquiry # 3444910.3

Contact: Mira Abdelaziz

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by URS Corporation were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 156 Tillary Street
Address: 156 Tillary St.
City, State, Zip: Brooklyn, NY 11201
Cross Street:
P.O. # 11140187
Project: 156 Tillary St. Phase I
Certification # 1FE4-43B7-A394

Maps Provided:

2007	2001	1989	1980	1915
2006	1996	1988	1979	1904
2005	1995	1987	1977	1887
2004	1993	1986	1969	
2003	1992	1982	1950	
2002	1991	1981	1938	

Sanborn® Library search results
Certification # 1FE4-43B7-A394

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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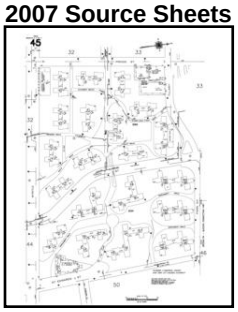
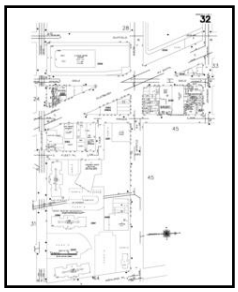
Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets



Volume 2, Sheet 45



Volume 2, Sheet 32

Volume 2, Sheet 33

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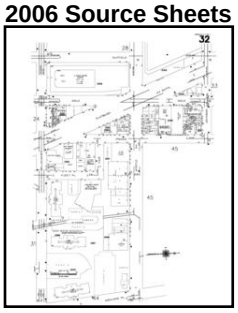

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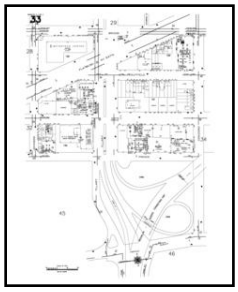

Volume 2, Sheet 33

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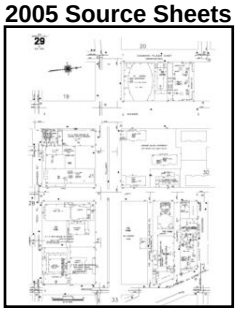
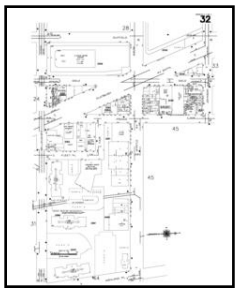


Volume 2, Sheet 29



Volume 2, Sheet 32

Volume 2, Sheet 33

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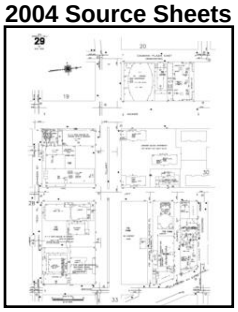

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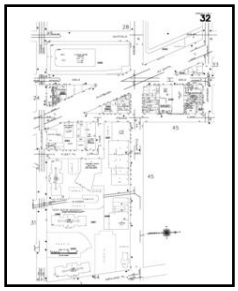

Volume 2, Sheet 32

Volume 2, Sheet 33

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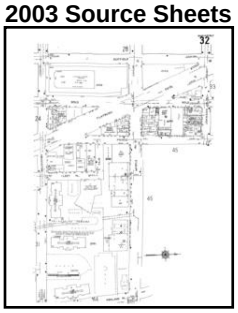

Volume 2, Sheet 32

Volume 2, Sheet 33

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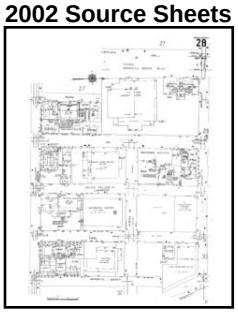
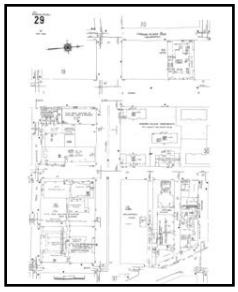


Volume 2, Sheet 28



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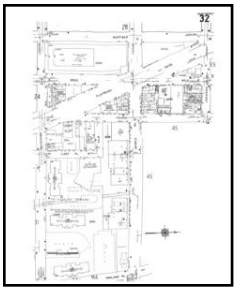

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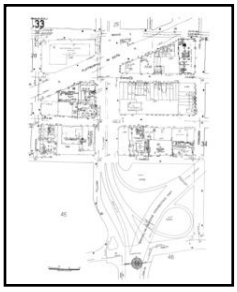

Volume 2, Sheet 33

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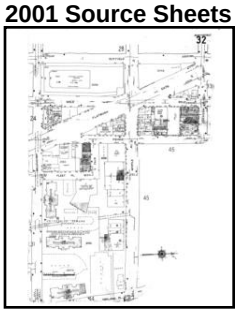

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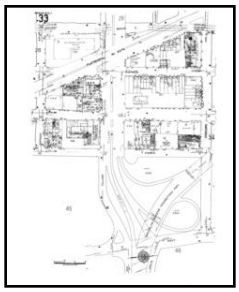

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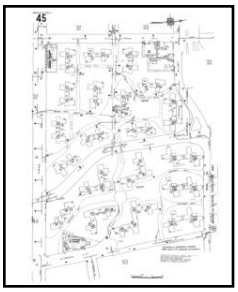

Volume 2, Sheet 45

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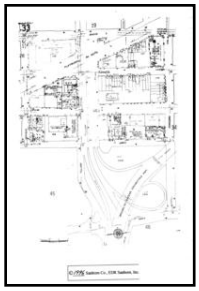
Volume 2, Sheet 32



Volume 2, Sheet 33

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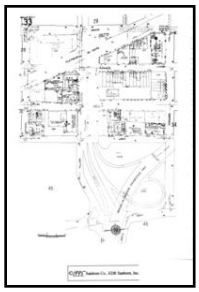
Volume 2, Sheet 32



Volume 2, Sheet 33

Volume 2, Sheet 45

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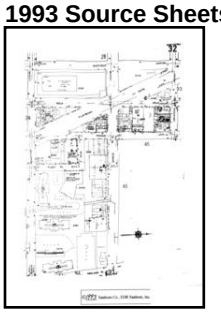

Volume 2, Sheet 32

Volume 2, Sheet 33

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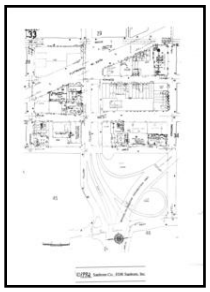

Volume 2, Sheet 33

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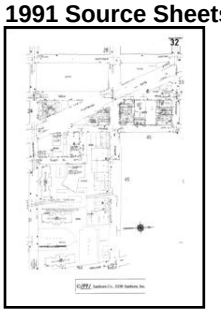

Volume 2, Sheet 32

Volume 2, Sheet 33

Volume 2, Sheet 45

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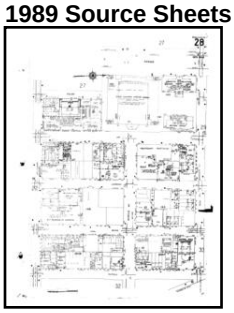
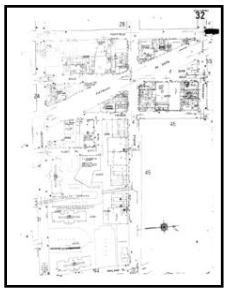


Volume 2, Sheet 28



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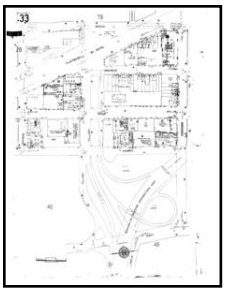

Volume 2, Sheet 33

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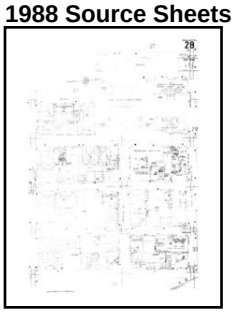

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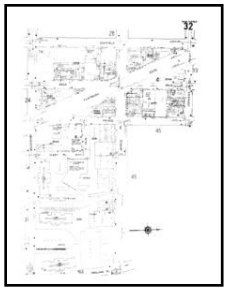

Volume 2, Sheet 32

Volume 2, Sheet 33

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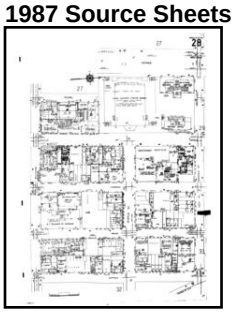

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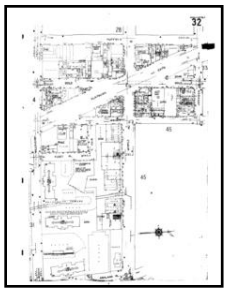

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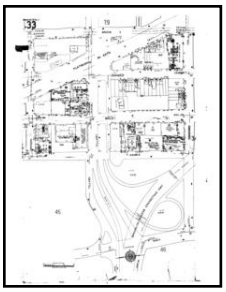

Volume 2, Sheet 33

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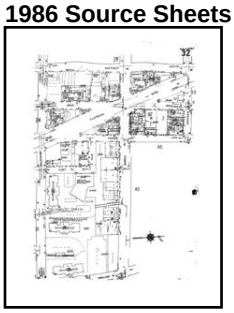
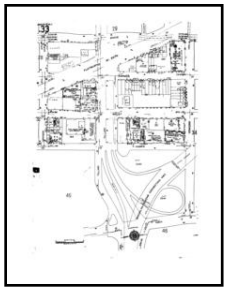


Volume 2, Sheet 32



Volume 2, Sheet 33

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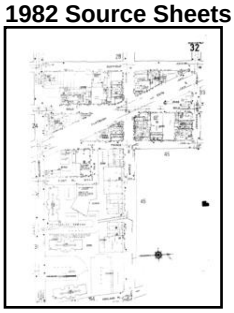
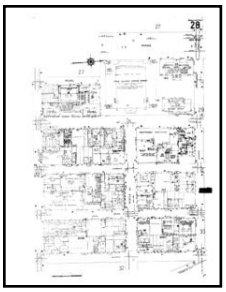


Volume 2, Sheet 32

Volume 2, Sheet 33



Volume 2, Sheet 28

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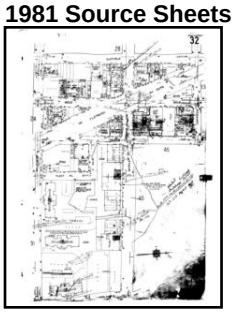

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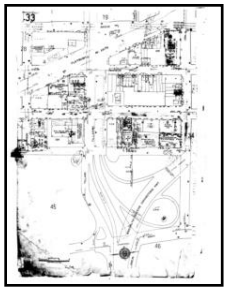

Volume 2, Sheet 33

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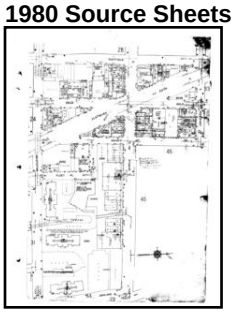
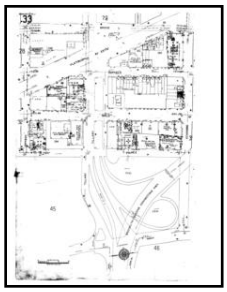
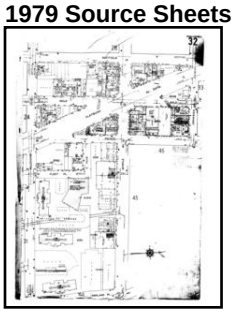


Volume 2, Sheet 32

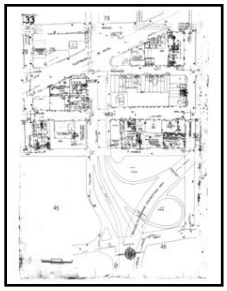


Volume 2, Sheet 33

1979 Source Sheets

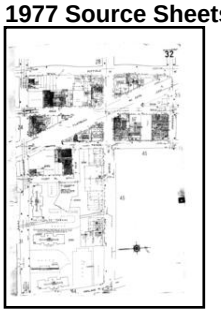


Volume 2, Sheet 32



Volume 2, Sheet 33

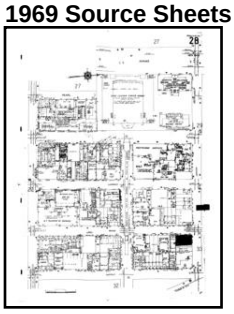
1977 Source Sheets



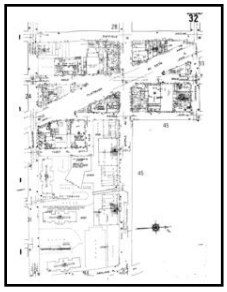
Volume 2, Sheet 32

Volume 2, Sheet 33

1969 Source Sheets



Volume 2, Sheet 28



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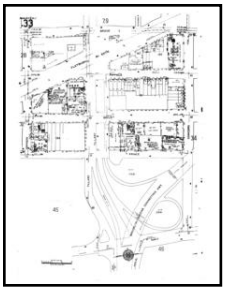
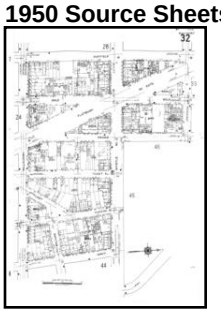


Volume 2, Sheet 33

1950 Source Sheets



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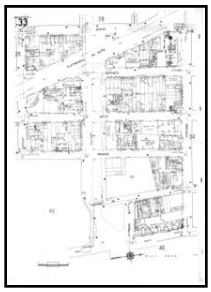


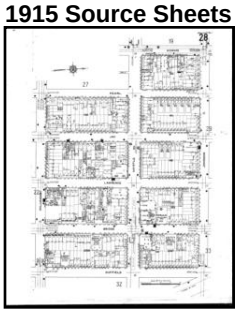
Volume 2, Sheet 33

1938 Source Sheets

Volume 2, Sheet 32

Volume 2, Sheet 33

1915 Source Sheets

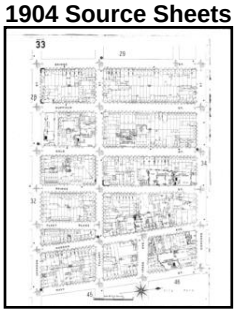


Volume 2, Sheet 28

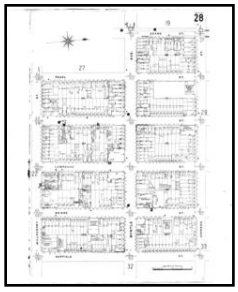
Volume 2, Sheet 32

Volume 2, Sheet 33

1904 Source Sheets



Volume 2, Sheet 33



Volume 2, Sheet 28

Volume 2, Sheet 32

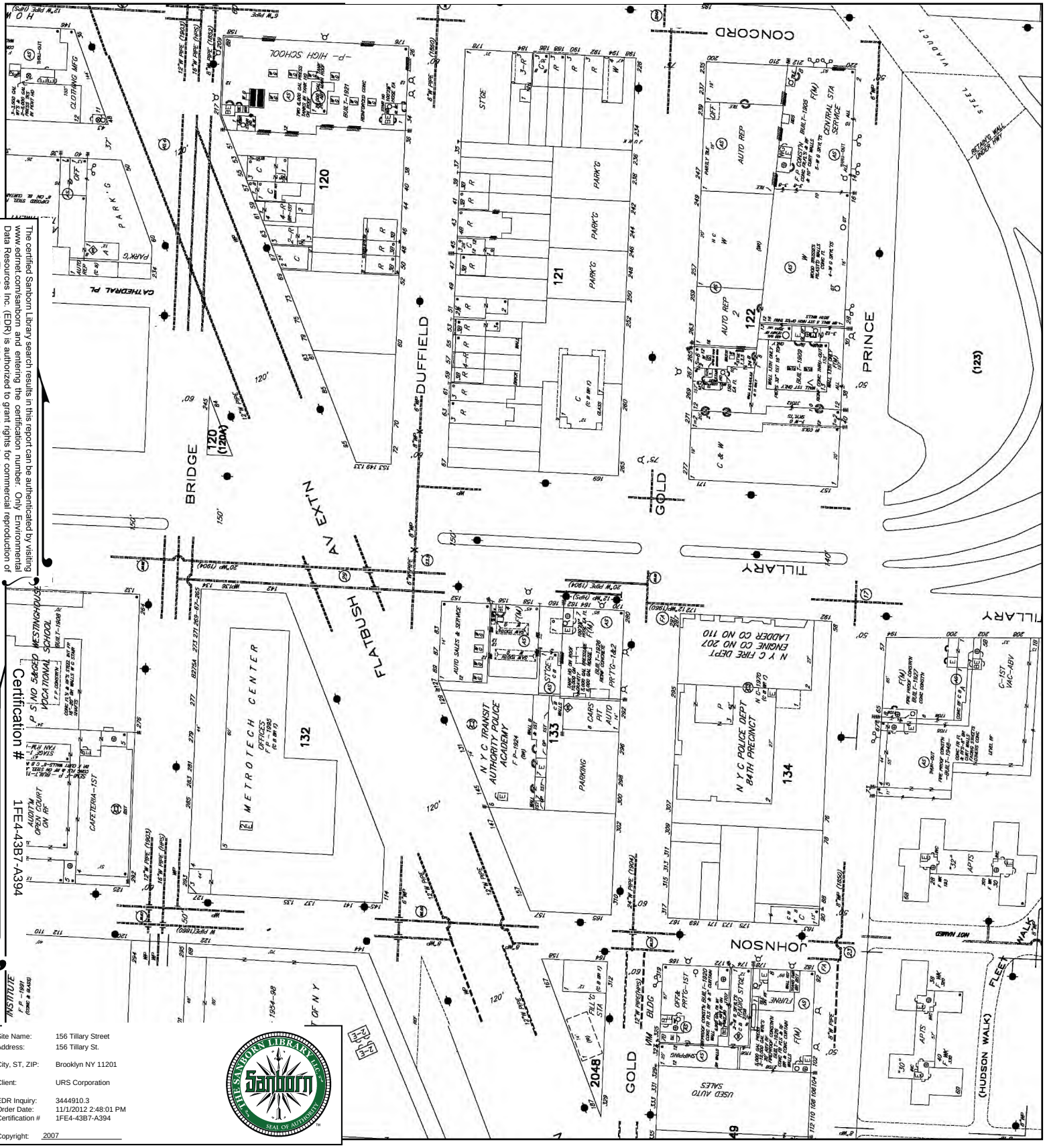
1887 Source Sheets

Volume 2, Sheet 41

Volume 2, Sheet 42

Volume 2, Sheet 42

2007 Certified Sanborn Map



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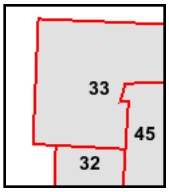

Volume 2, Sheet 45
Volume 2, Sheet 32
Volume 2, Sheet 33

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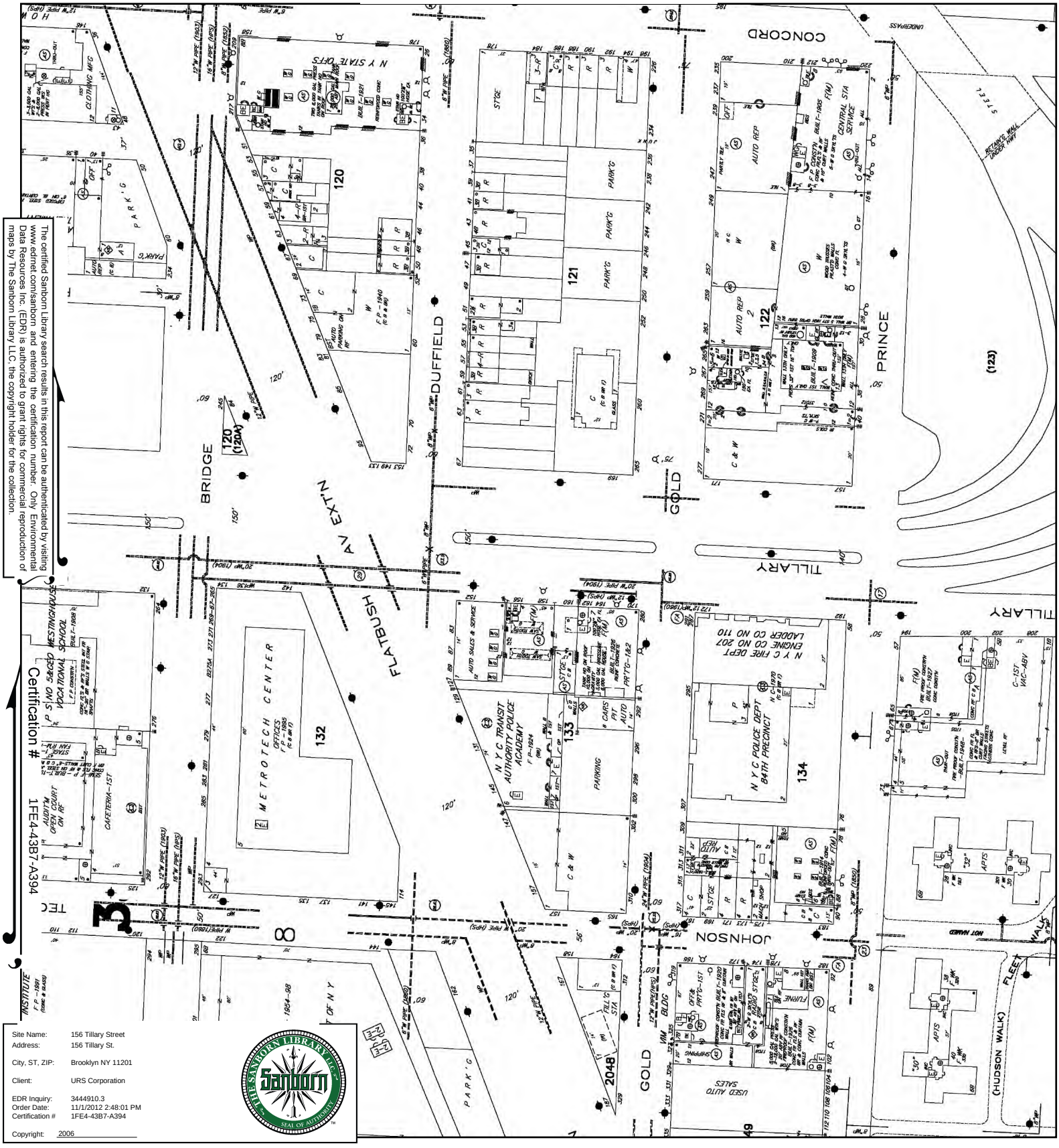

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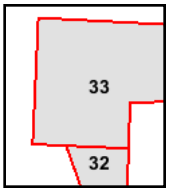

Volume 2, Sheet 32
Volume 2, Sheet 33

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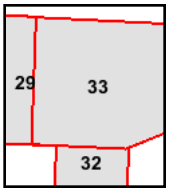

Volume 2, Sheet 29
Volume 2, Sheet 32
Volume 2, Sheet 33

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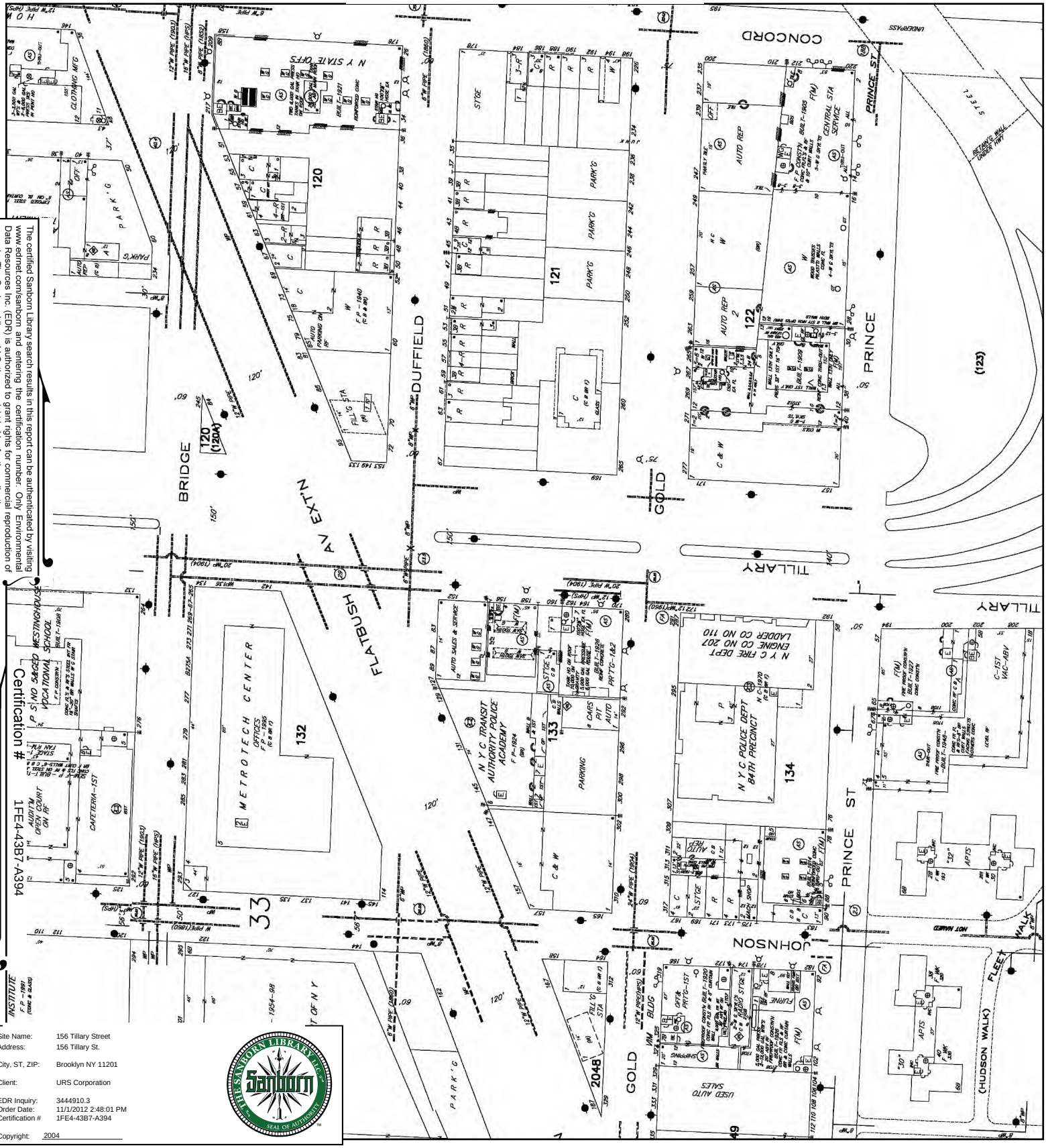

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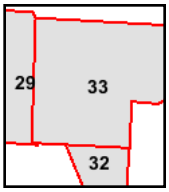

Volume 2, Sheet 29
Volume 2, Sheet 32
Volume 2, Sheet 33

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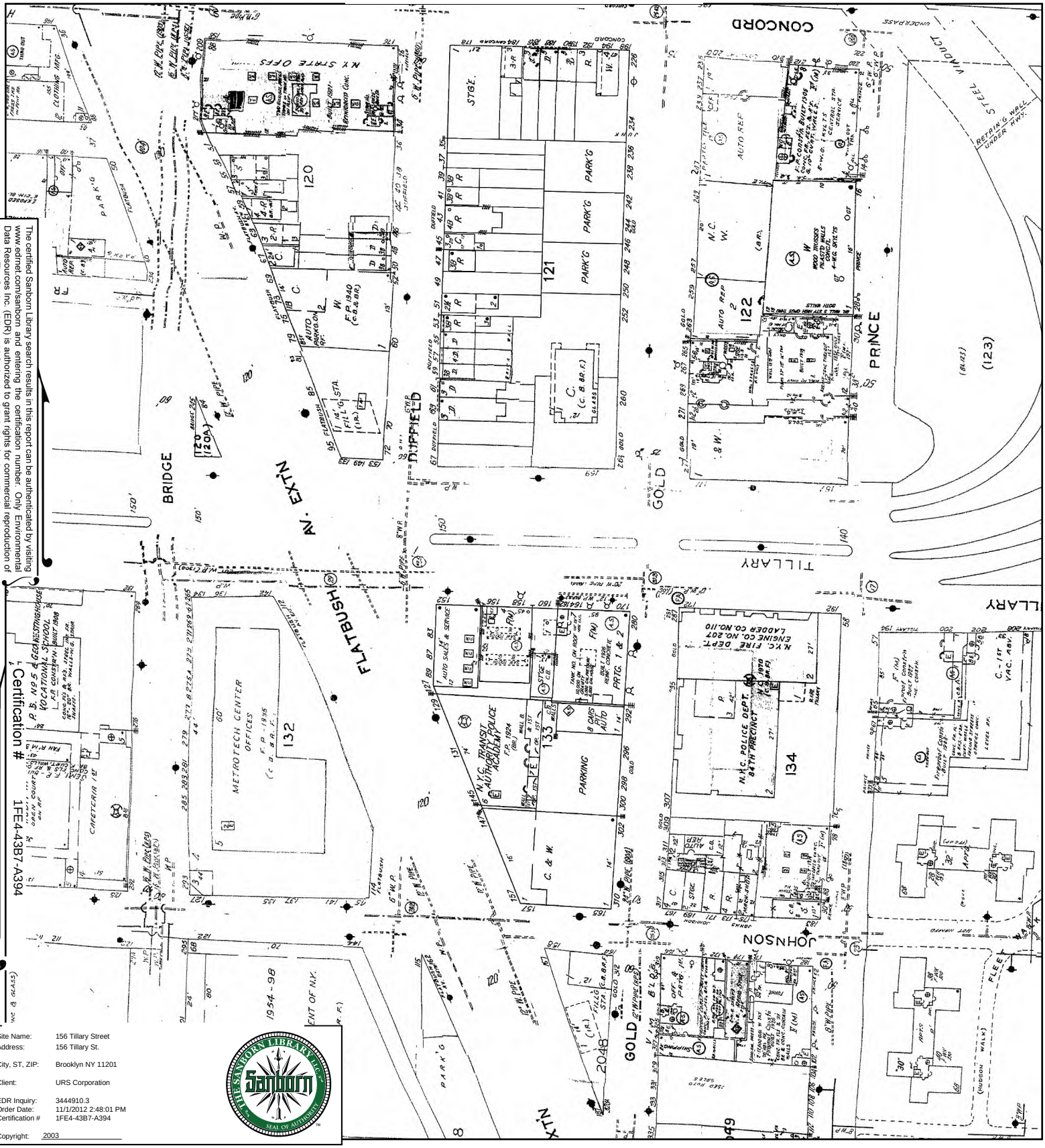

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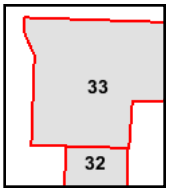

Volume 2, Sheet 32
Volume 2, Sheet 33

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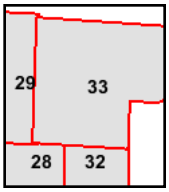

Volume 2, Sheet 28
Volume 2, Sheet 29
Volume 2, Sheet 32
Volume 2, Sheet 33

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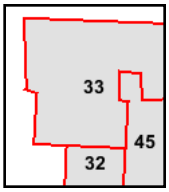

Volume 2, Sheet 32
Volume 2, Sheet 33
Volume 2, Sheet 45

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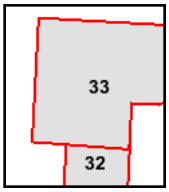

Volume 2, Sheet 32
Volume 2, Sheet 33

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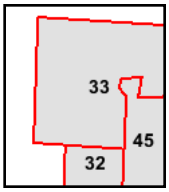

Volume 2, Sheet 32
Volume 2, Sheet 33
Volume 2, Sheet 45

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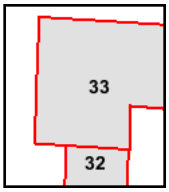

Volume 2, Sheet 32
Volume 2, Sheet 33

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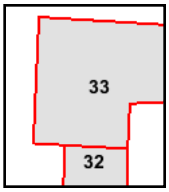

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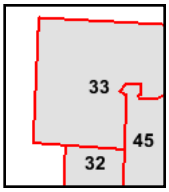

Volume 2, Sheet 32
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Volume 2, Sheet 45

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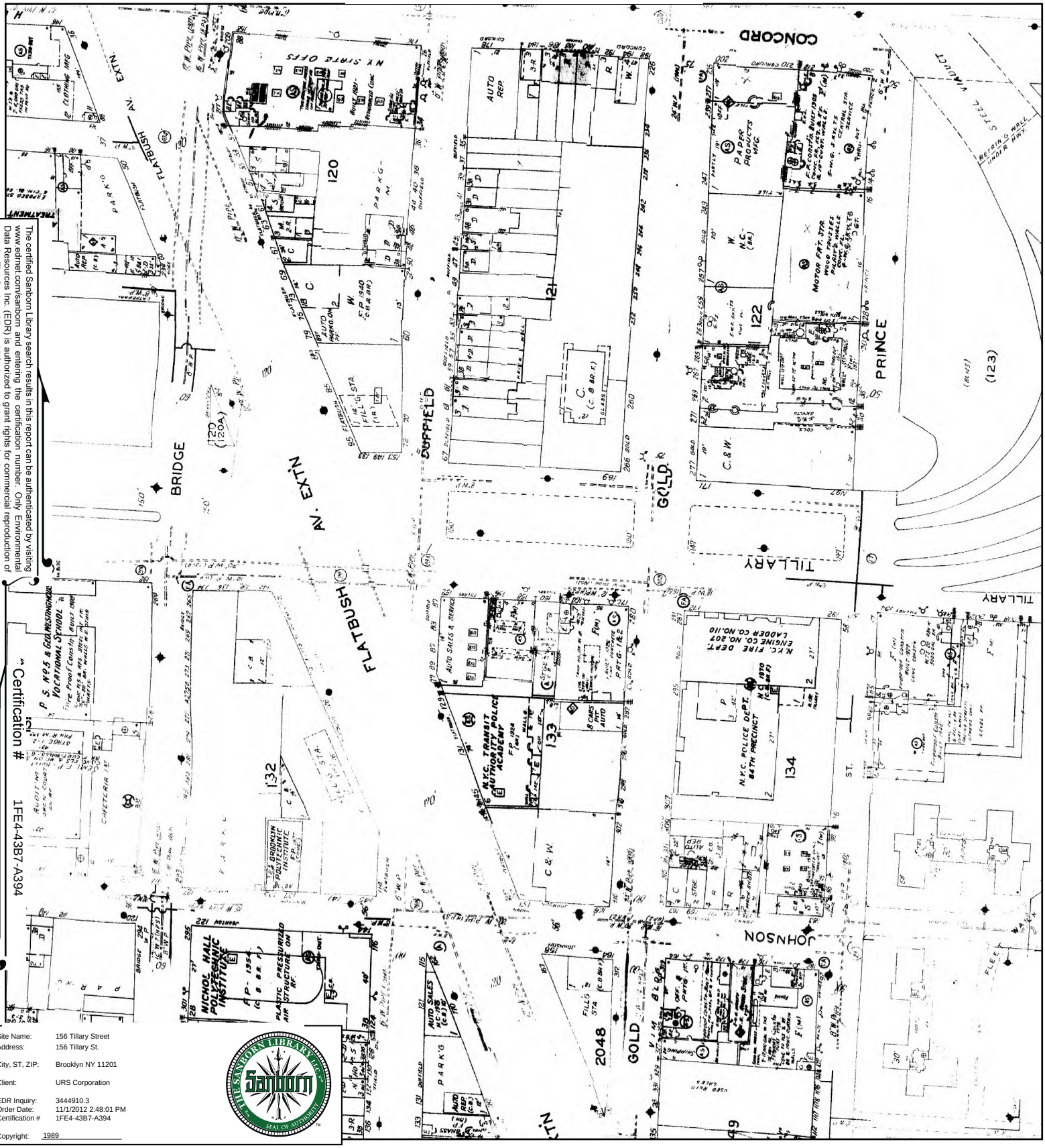

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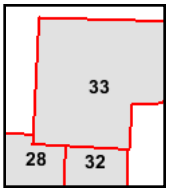

Volume 2, Sheet 28
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Volume 2, Sheet 33

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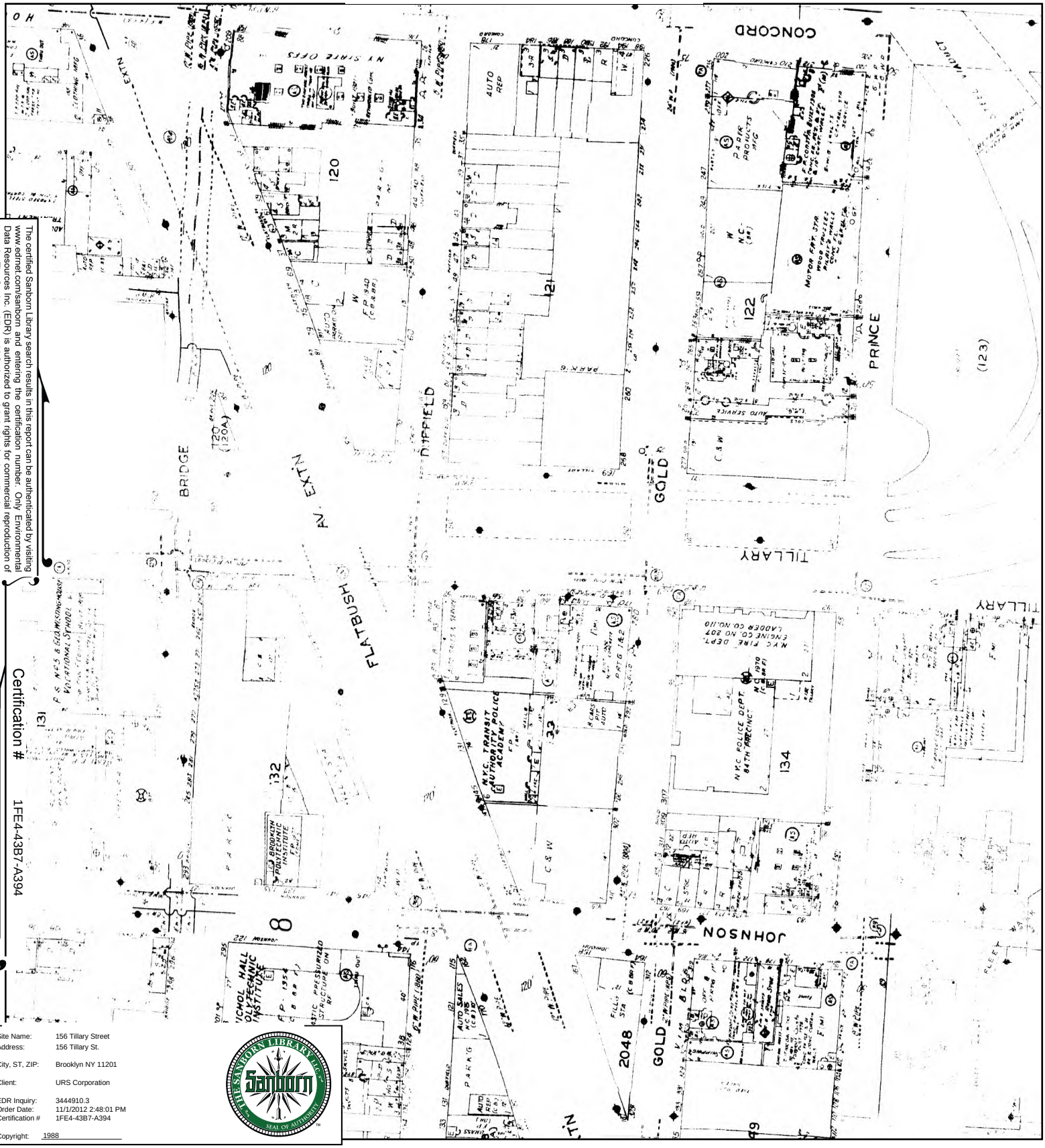

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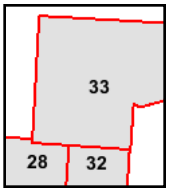

Volume 2, Sheet 28
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Volume 2, Sheet 33

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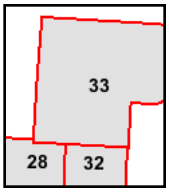

Volume 2, Sheet 28
Volume 2, Sheet 32
Volume 2, Sheet 33

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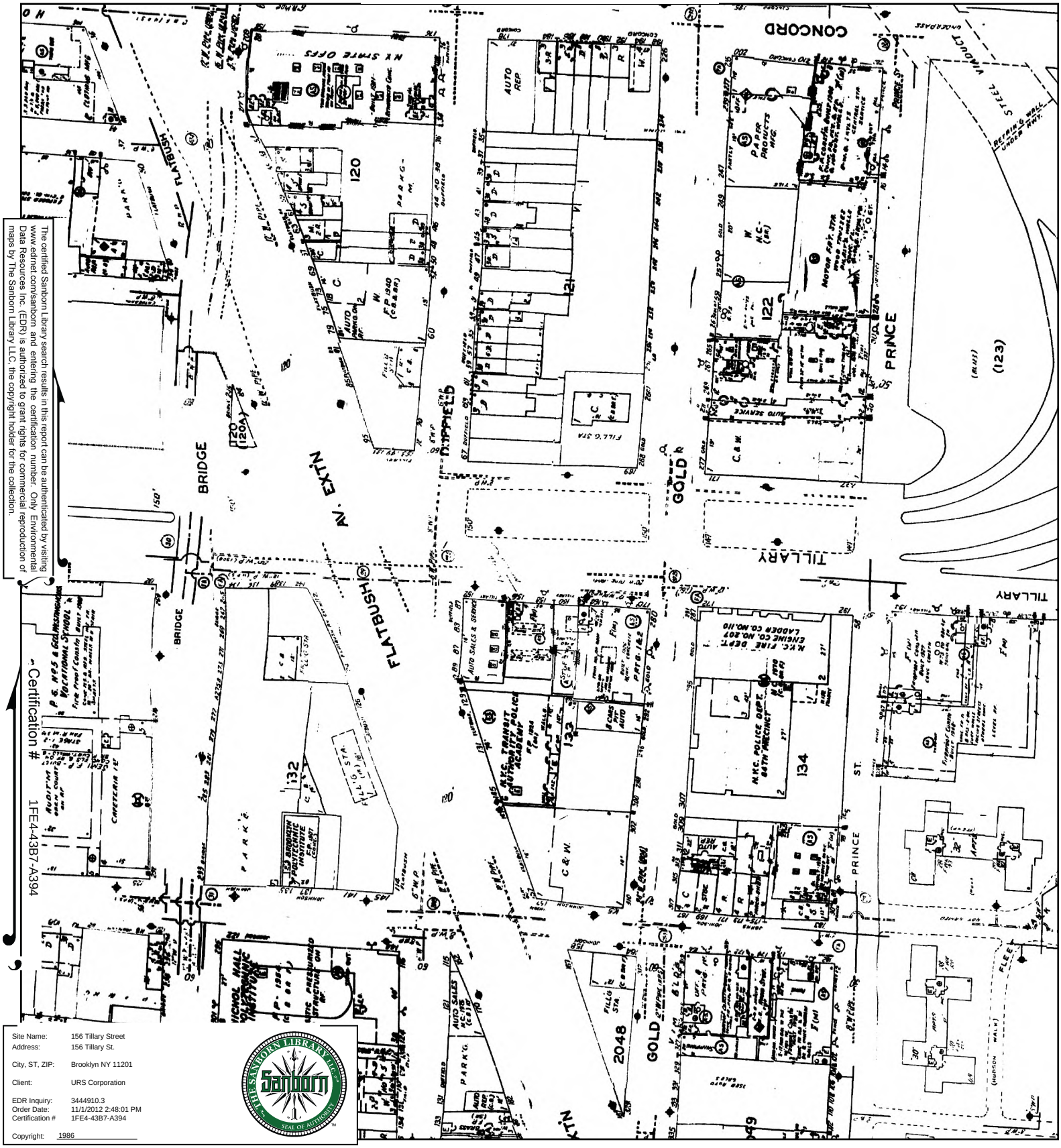

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Site Name:	156 Tillary Street
Address:	156 Tillary St.
City, ST, ZIP:	Brooklyn NY 11201
Client:	URS Corporation
EDR Inquiry:	3444910.3
Order Date:	11/1/2012 2:48:01 PM
Certification #	1FE4-43B7-A394
Copyright:	1986

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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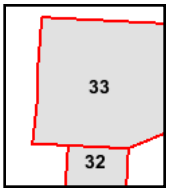

Volume 2, Sheet 32
Volume 2, Sheet 33

N

1982 Certified Sanborn Map

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Certification # 1FE4-43B7-A394

Site Name:	156 Tillary Street
Address:	156 Tillary St.
City, ST, ZIP:	Brooklyn NY 11201
Client:	URS Corporation
EDR Inquiry:	3444910.3
Order Date:	11/1/2012 2:48:01 PM
Certification #	1FE4-43B7-A394
Copyright:	1982

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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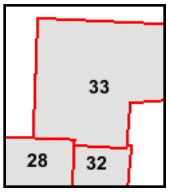
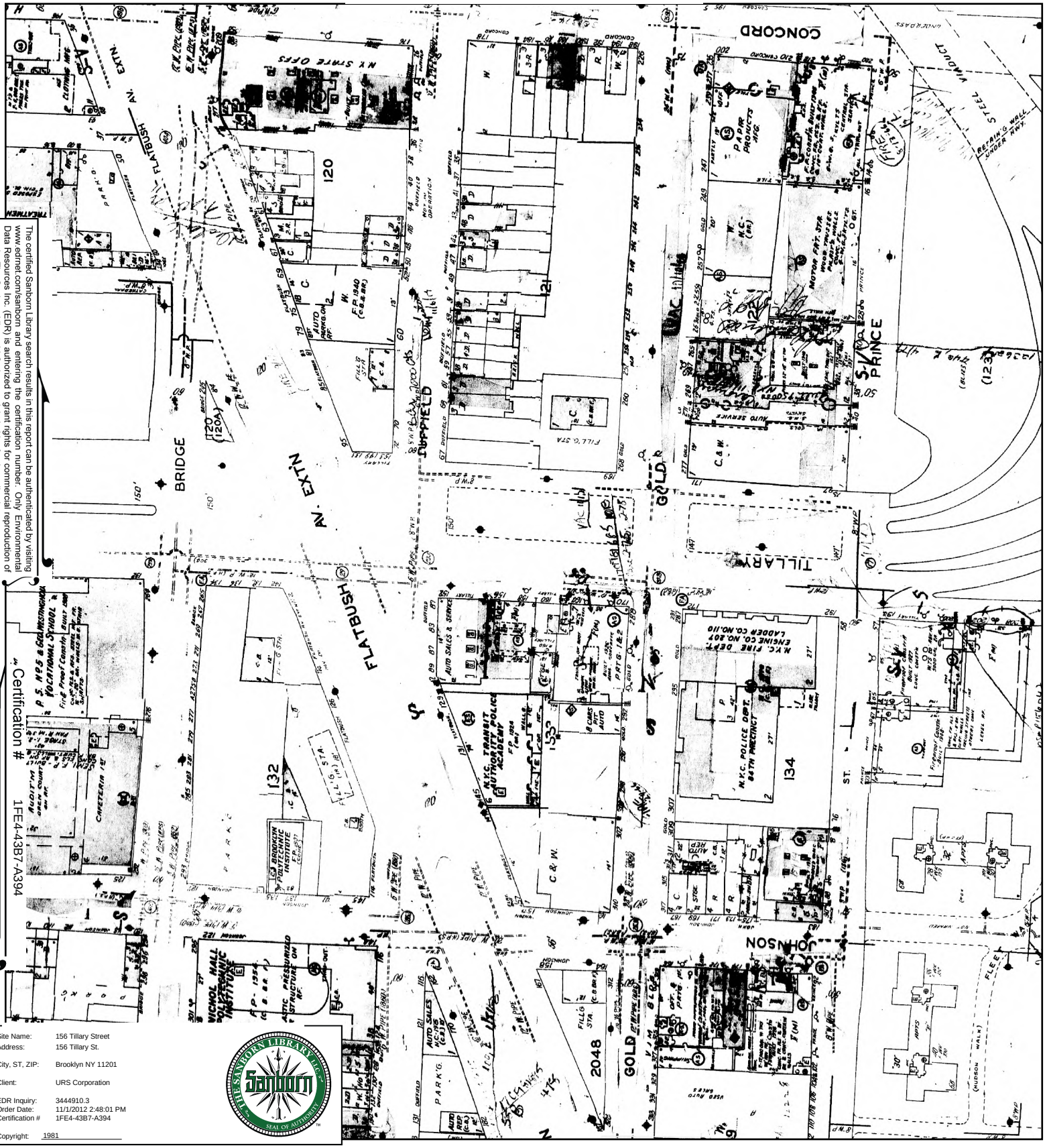


Volume 2, Sheet 32
Volume 2, Sheet 33
Volume 2, Sheet 28

N

1981 Certified Sanborn Map



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Certification # 1FE4-43B7-A394

Site Name:	156 Tillary Street
Address:	156 Tillary St.
City, ST, ZIP:	Brooklyn NY 11201
Client:	URS Corporation
EDR Inquiry:	3444910.3
Order Date:	11/1/2012 2:48:01 PM
Certification #	1FE4-43B7-A394
Copyright:	1981

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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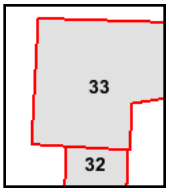
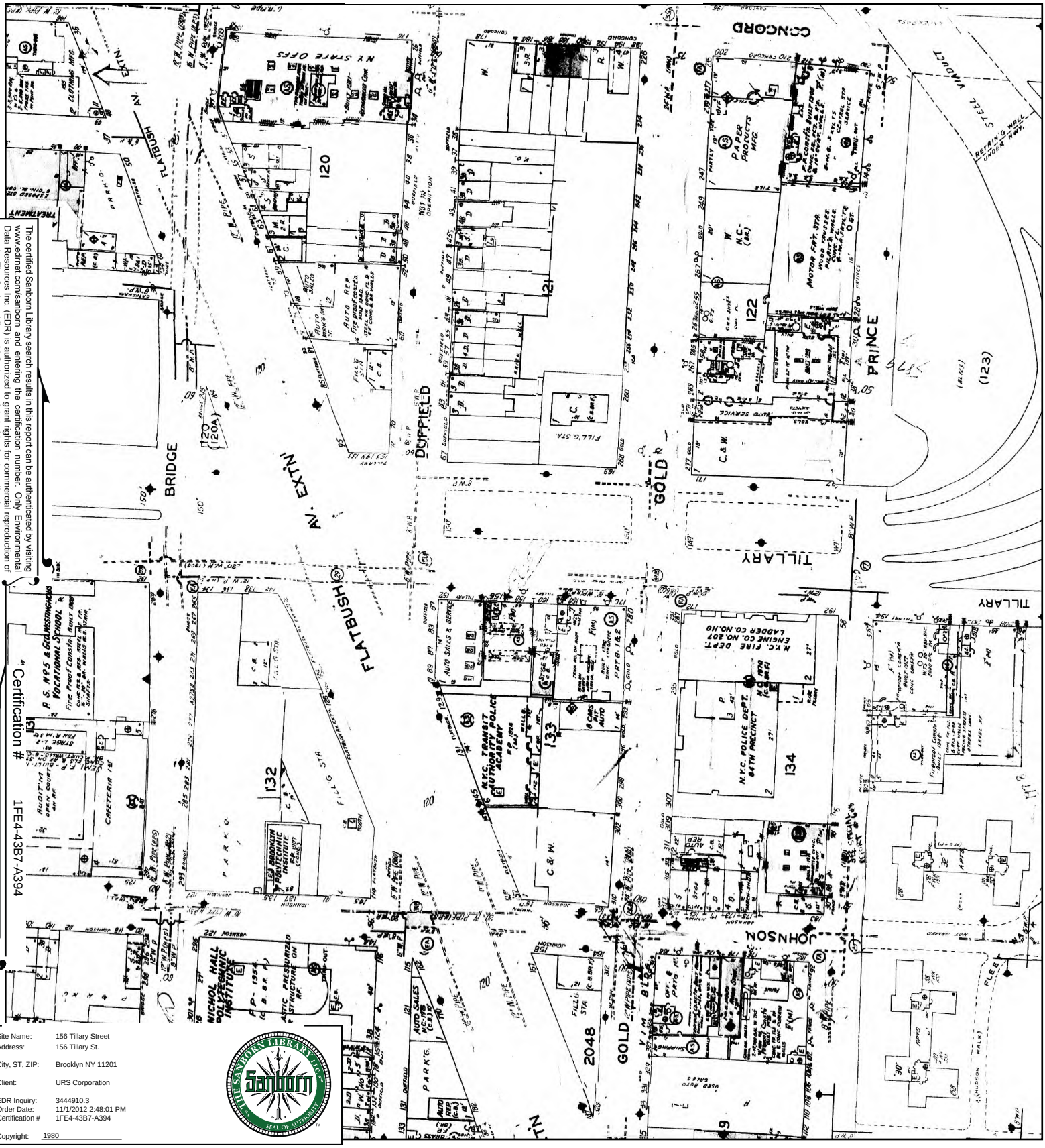


Volume 2, Sheet 32
Volume 2, Sheet 33

N

1980 Certified Sanborn Map



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Certification # 1FE4-43B7-A394

Site Name:	156 Tillary Street
Address:	156 Tillary St.
City, ST, ZIP:	Brooklyn NY 11201
Client:	URS Corporation
EDR Inquiry:	3444910.3
Order Date:	11/1/2012 2:48:01 PM
Certification #	1FE4-43B7-A394
Copyright:	1980

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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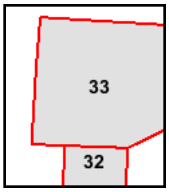
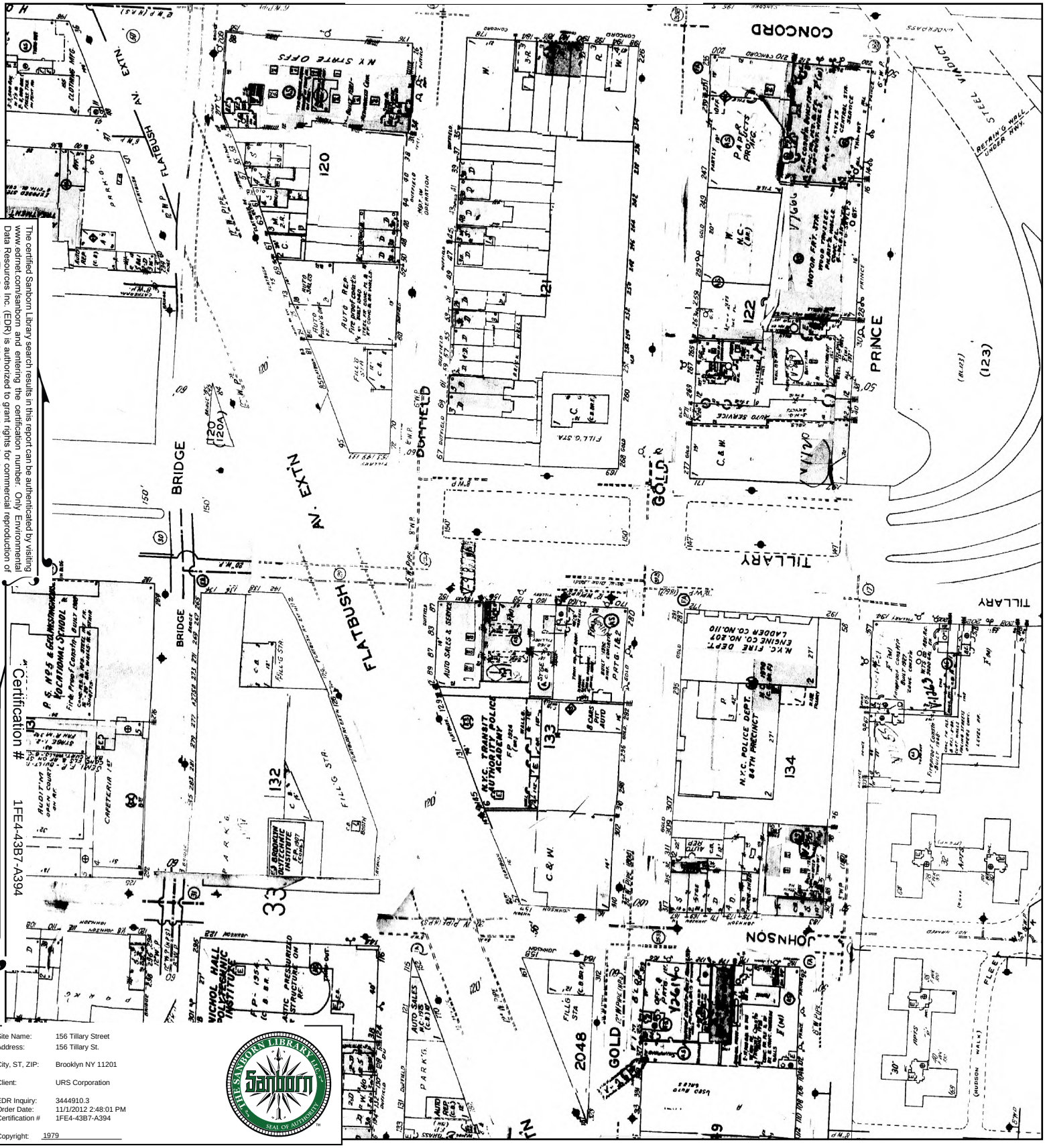


Volume 2, Sheet 32
Volume 2, Sheet 33

N

1979 Certified Sanborn Map



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Certification # 1FE4-43B7-A394

Site Name:	156 Tillary Street
Address:	156 Tillary St.
City, ST, ZIP:	Brooklyn NY 11201
Client:	URS Corporation
EDR Inquiry:	3444910.3
Order Date:	11/1/2012 2:48:01 PM
Certification #	1FE4-43B7-A394
Copyright:	1979

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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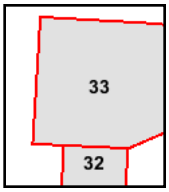

Volume 2, Sheet 32
Volume 2, Sheet 33

N

1977 Certified Sanborn Map

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Certification # 1FE4-43B7-A394

Site Name:	156 Tillary Street
Address:	156 Tillary St.
City, ST, ZIP:	Brooklyn NY 11201
Client:	URS Corporation
EDR Inquiry:	3444910.3
Order Date:	11/1/2012 2:48:01 PM
Certification #	1FE4-43B7-A394
Copyright:	1977

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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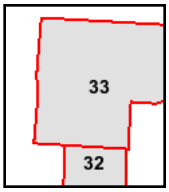

Volume 2, Sheet 32
Volume 2, Sheet 33

N

1969 Certified Sanborn Map

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Certification # 1FE4-43B7-A394

Site Name:	156 Tillary Street
Address:	156 Tillary St.
City, ST, ZIP:	Brooklyn NY 11201
Client:	URS Corporation
EDR Inquiry:	3444910.3
Order Date:	11/1/2012 2:48:01 PM
Certification #	1FE4-43B7-A394
Copyright:	1969

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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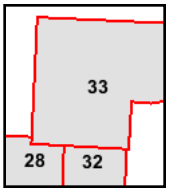
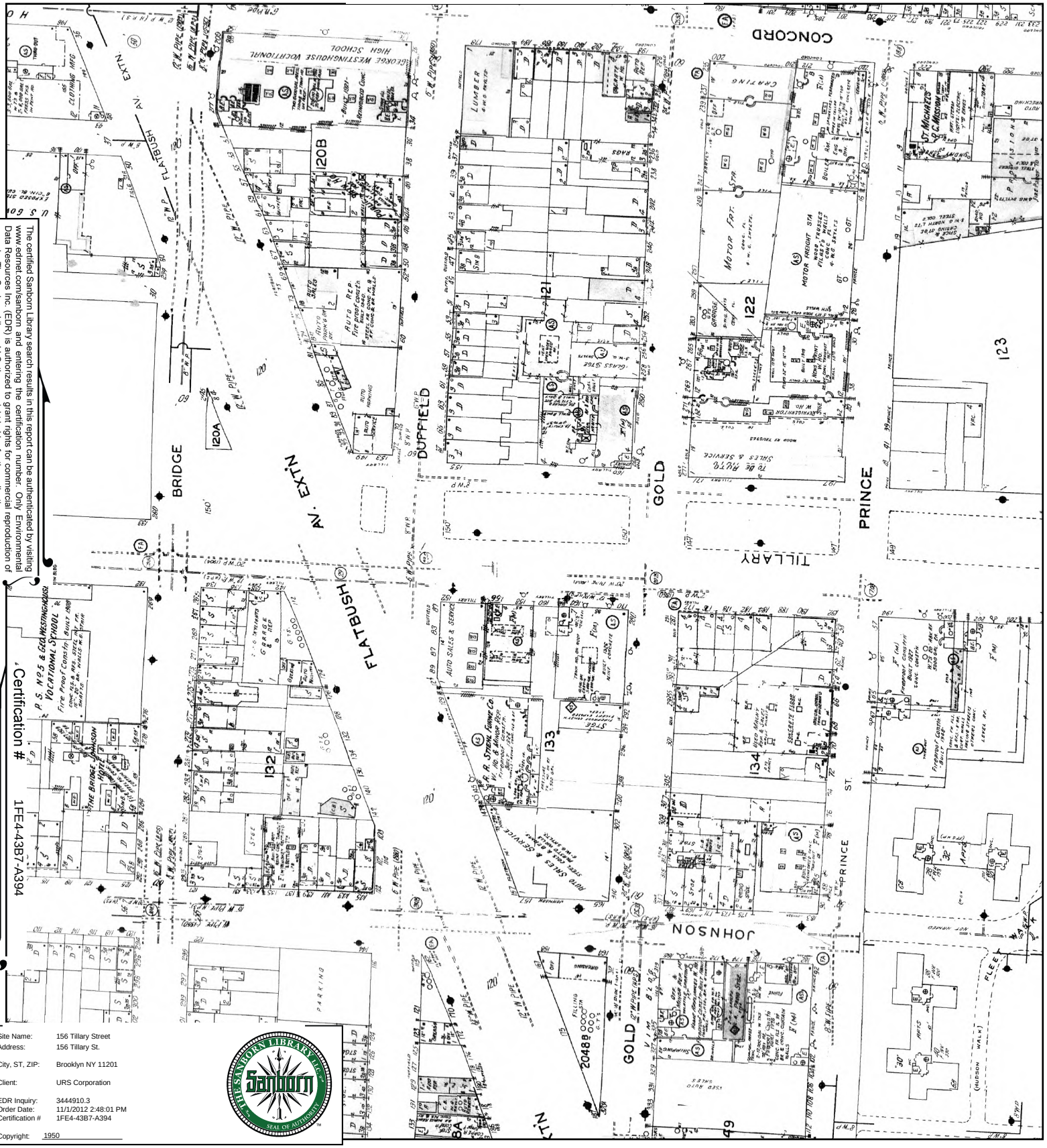


Volume 2, Sheet 28
Volume 2, Sheet 32
Volume 2, Sheet 33

N

1950 Certified Sanborn Map



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Certification # 1FE4-43B7-A394

Site Name:	156 Tillary Street
Address:	156 Tillary St.
City, ST, ZIP:	Brooklyn NY 11201
Client:	URS Corporation
EDR Inquiry:	3444910.3
Order Date:	11/1/2012 2:48:01 PM
Certification #	1FE4-43B7-A394
Copyright:	1950

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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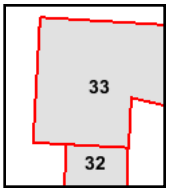
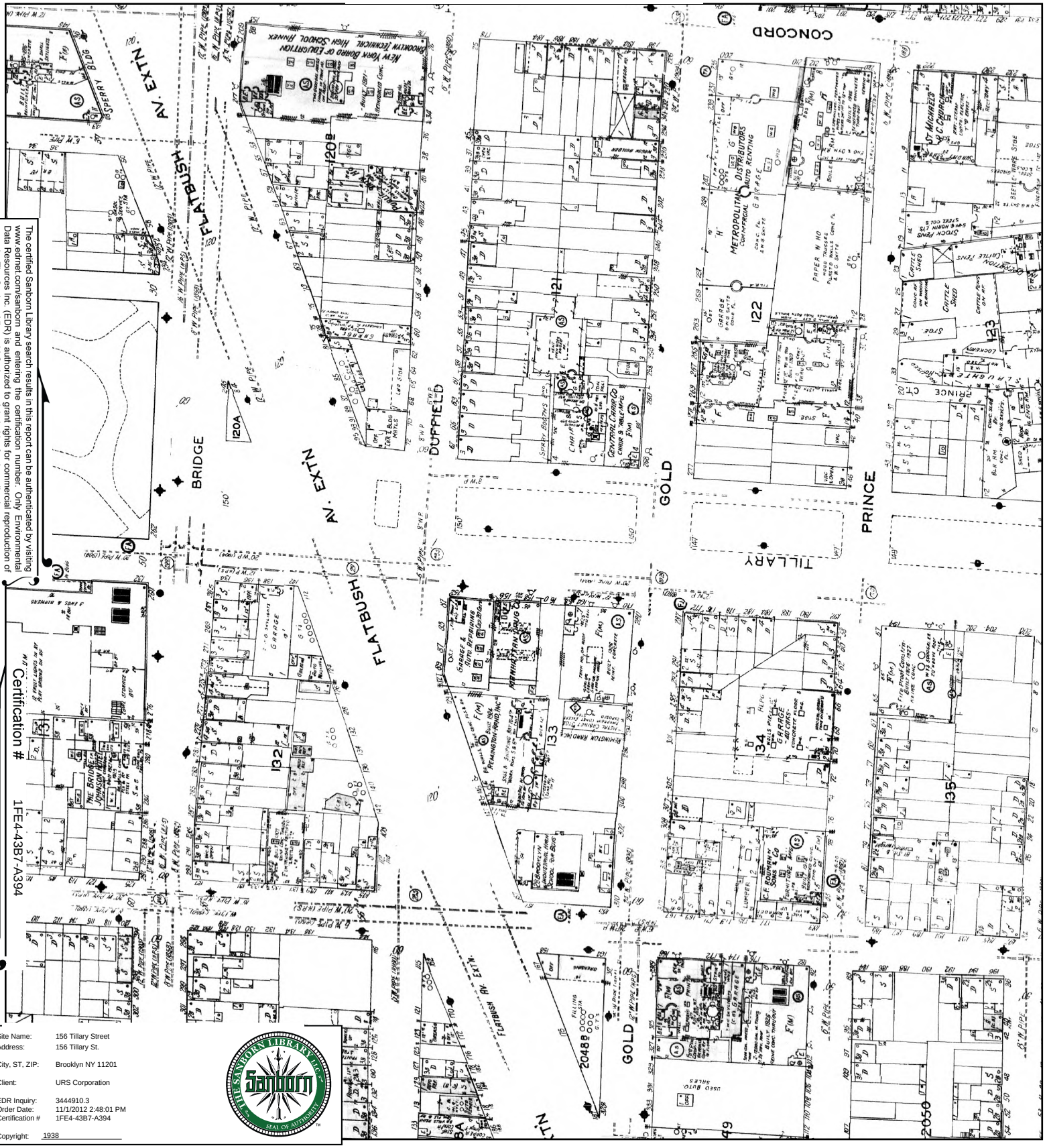


Volume 2, Sheet 32
Volume 2, Sheet 33

N

1938 Certified Sanborn Map



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Certification # 1FE4-43B7-A394

Site Name:	156 Tillary Street
Address:	156 Tillary St.
City, ST, ZIP:	Brooklyn NY 11201
Client:	URS Corporation
EDR Inquiry:	3444910.3
Order Date:	11/1/2012 2:48:01 PM
Certification #	1FE4-43B7-A394
Copyright:	1938

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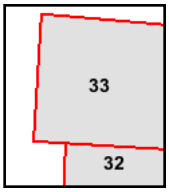

Volume 2, Sheet 32
Volume 2, Sheet 33

N

1915 Certified Sanborn Map

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Certification # 1FE4-43B7-A394

Site Name:	156 Tillary Street
Address:	156 Tillary St.
City, ST, ZIP:	Brooklyn NY 11201
Client:	URS Corporation
EDR Inquiry:	3444910.3
Order Date:	11/1/2012 2:48:01 PM
Certification #	1FE4-43B7-A394
Copyright:	1915

This Certified Sanborn Map combines the following sheets.
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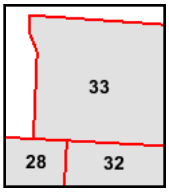

Volume 2, Sheet 28
Volume 2, Sheet 32
Volume 2, Sheet 33

N

1904 Certified Sanborn Map

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Certification # 1FE4-43B7-A394

Site Name:	156 Tillary Street
Address:	156 Tillary St.
City, ST, ZIP:	Brooklyn NY 11201
Client:	URS Corporation
EDR Inquiry:	3444910.3
Order Date:	11/1/2012 2:48:01 PM
Certification #	1FE4-43B7-A394
Copyright:	1904

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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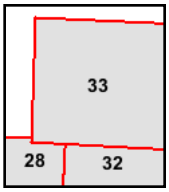
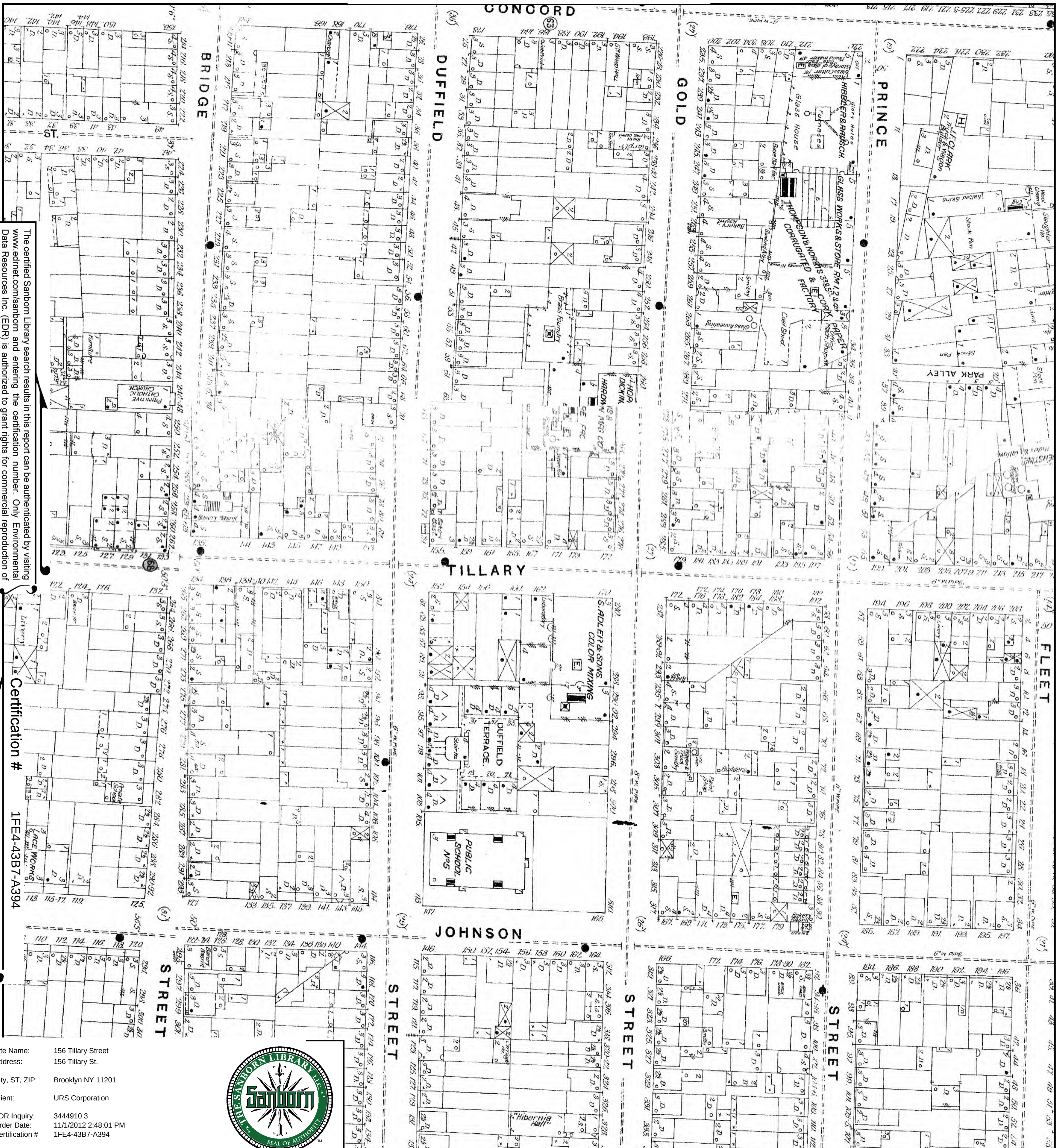


Volume 2, Sheet 33
Volume 2, Sheet 28
Volume 2, Sheet 32

N

1887 Certified Sanborn Map



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Certification # 1FE4-43B7-A394

Site Name:	156 Tillary Street
Address:	156 Tillary St.
City, ST, ZIP:	Brooklyn NY 11201
Client:	URS Corporation
EDR Inquiry:	3444910.3
Order Date:	11/1/2012 2:48:01 PM
Certification #	1FE4-43B7-A394
Copyright:	1887

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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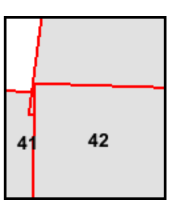

Volume 2, Sheet 41
Volume 2, Sheet 42
Volume 2, Sheet 42

N

APPENDIX E

EDR - CITY DIRECTORY ABSTRACT

156 Tillary Street
156 Tillary St.
Brooklyn, NY 11201

Inquiry Number: 3444910.6
November 01, 2012

The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1928 through 2012. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2012	Cole Information Services	-	-	-	-
2007	Cole Information Services	-	-	-	-
2005	Hill-Donnelly Corporation	X	-	X	-
2000	Cole Information Services	-	-	-	-
1997	NYNEX	-	-	-	-
1992	NYNEX Informantion Resource Co.	X	-	X	-
1985	NYNEX Information Resources Company	X	-	X	-
1980	New York Telephone	-	-	-	-
1976	New York Telephone	-	-	-	-
1973	New York Telephone	-	-	-	-
1970	New York Telephone	-	X	X	-
1965	New York Telephone	-	X	X	-
1960	New York Telephone	-	X	X	-
	New York Telephone Company	-	X	X	-
1949	New York Telephone Company	-	-	-	-
1945	New York Telephone	X	-	X	-
1940	New York Telephone	X	-	X	-
1934	R. L. Polk & Co.	X	X	X	-
1928	New York Telephone	-	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

156 Tillary St.
Brooklyn, NY 11201

FINDINGS DETAIL

Target Property research detail.

TILLARY

156 TILLARY

Year	Uses	Source
1992	JONES FAYE	NYNEX Informantion Resource Co.
1985	CHOCOLATE CHIP PRODCTNS	NYNEX Information Resources Company
	PERLA AUDREY	NYNEX Information Resources Company
	RICHARD KUHN PRODCTNS	NYNEX Information Resources Company
1934	HORGAN CHAS V PRES MHN DRUG CO	R. L. Polk & Co.
	MANHATTAN DRUG CO JAS O FLAHERTY PRES CHAS HORGAN V-PRES JOHN J HAIGNEY SE	R. L. Polk & Co.

TILLARY ST

156 TILLARY ST

Year	Uses	Source
2005	Guest House Intl	Hill-Donnelly Corporation
1945	Manhatn Drug Co	New York Telephone Company
1940	Manhatn Drug Co	New York Telephone Company

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BRIDGE

259 BRIDGE

Year	Uses	Source
1934	MANHATTAN AUTO RADLATOR WORKS	R. L. Polk & Co.
1928	DITCHEK S AUTO RADTRS	New York Telephone
	MANHATTAN AUTO RADIATOR WORKS	New York Telephone

261 BRIDGE

Year	Uses	Source
1934	CORELLI THOS CLK R	R. L. Polk & Co.
	CORELLI ANTHONY H	R. L. Polk & Co.
	CORELLI CHAS R	R. L. Polk & Co.
	STAMATIS LINAKIS H	R. L. Polk & Co.
	CORELLI JAS H	R. L. Polk & Co.
	NUGENT MICHL F H	R. L. Polk & Co.
	HENRY L LAB H	R. L. Polk & Co.
	CORELLI THOS MACH R	R. L. Polk & Co.
	COVLE CHAS GAS R	R. L. Polk & Co.
	WM LAB H	R. L. Polk & Co.
	KOLLAR ANDREW H	R. L. Polk & Co.
	LINKIS SAML R	R. L. Polk & Co.
1928	TRIANGLE CYCLE & CAMERA EXCHANGE	New York Telephone
	SAMARTINO MARY	New York Telephone

263 BRIDGE

Year	Uses	Source
1934	VIGNOLA ALEX R	R. L. Polk & Co.
	VIGNOLA ANGELO H	R. L. Polk & Co.
	VIGNOLA LORETTA CLK R	R. L. Polk & Co.
	VIGNOLA LOUIS CLK R	R. L. Polk & Co.
1928	PITTARELLI MATTHEW R	New York Telephone

FINDINGS

TILLARY

155 TILLARY

Year	Uses	Source
1934	MCTIRE JOS TAILOR H	R. L. Polk & Co.
	BRAUN LOUIS J AUTO ENG R	R. L. Polk & Co.

159 TILLARY

Year	Uses	Source
1934	JOHNSTON WM PRINTER H	R. L. Polk & Co.
	BARRETT JOS P SLSMN H	R. L. Polk & Co.
	SNYDER ANDREW MTRMN H	R. L. Polk & Co.

161 TILLARY

Year	Uses	Source
1934	DENSING LUCAS WALTER	R. L. Polk & Co.
	SCHILLING ELIZ HLPR R	R. L. Polk & Co.
	KELLY CATH CLK R	R. L. Polk & Co.
	KELLY GEO DRIVER R	R. L. Polk & Co.
	KELLY LILY MAID R	R. L. Polk & Co.
	KENNEDY RAYMOND BLDG SUPT H	R. L. Polk & Co.
	MARTIN JAS H	R. L. Polk & Co.

163 TILLARY

Year	Uses	Source
1960	LORRAINE METAL SPECIALTIES CO	New York Telephone
	LORRAINE LIGHTING PRODS CO	New York Telephone

164 TILLARY

Year	Uses	Source
1934	CURTSHIGER HONY SEC TREAS MILDRED SHOE CO INC	R. L. Polk & Co.
	DRITSAS ATHAN SHOE MFR	R. L. Polk & Co.
	DRITSAS TERESA V-PRES MILDRED SHOE CO INC	R. L. Polk & Co.
	KURZ & LAPIDUS INC T KURZ PRES H LAPIDUS SEC-TREAS SHOE MFRS	R. L. Polk & Co.
	MILDRED SHOE CO INC ALHAN DRITSAS PRES TREESA DRITSAS V PRES H CURTSINGER	R. L. Polk & Co.
	SORUBBII SHOE CO INC T KURZ PRES H LAPIDUS SEC-TREAS SHOE MFR	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1934	BURNS JAS SEC-TREAS WARP TWISTING-IN MACHINE CO INC	R. L. Polk & Co.
	WARP TWISTIN-IN-MACHINE CO INC THOS HACNEY V-PRES JAS J BURNS TREASSEN	R. L. Polk & Co.

TILLARY ST

163 TILLARY ST

Year	Uses	Source
1970	Silberhartz Louis lightng fixts	New York Telephone
1965	Silberhartz Louis lightng fixts	New York Telephone
	Lorraine Metal Specialties Co	New York Telephone
1960	Lorraine Lighting Prods Co	New York Telephone Company
	Lorraine Metal Specialties Co	New York Telephone Company

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
156 Tillary St.	2012, 2007, 2000, 1997, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1928

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
155 TILLARY	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
159 TILLARY	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
161 TILLARY	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
163 TILLARY	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1949, 1945, 1940, 1934, 1928
163 TILLARY ST	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1949, 1945, 1940, 1934, 1928
164 TILLARY	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
259 BRIDGE	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940
261 BRIDGE	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940
263 BRIDGE	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940

APPENDIX F

EDR HISTORICAL TOPHOGRAPHIC MAP REPORT

156 Tillary Street
156 Tillary St.
Brooklyn, NY 11201

Inquiry Number: 3444910.4
November 01, 2012

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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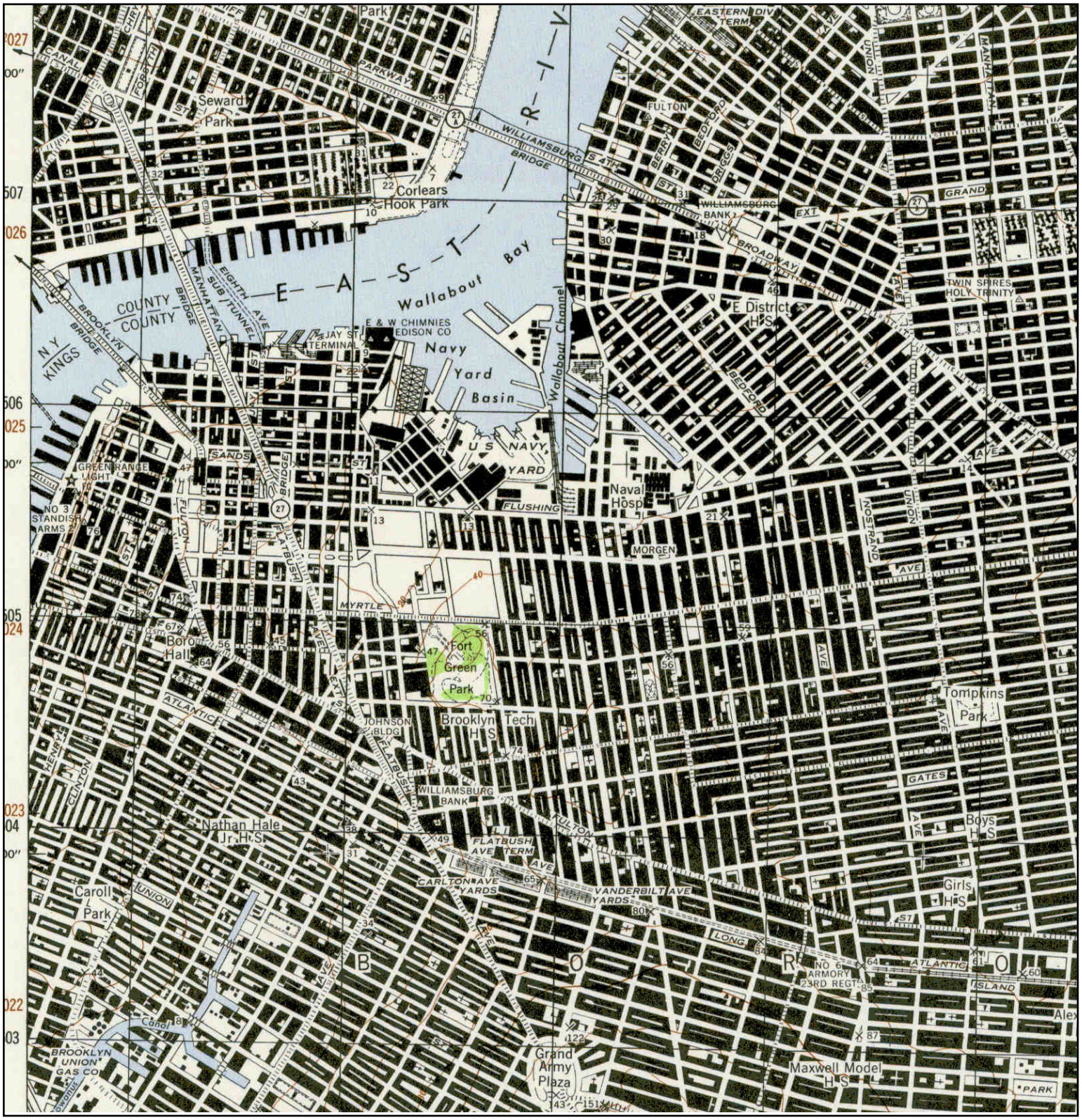
Historical Topographic Map

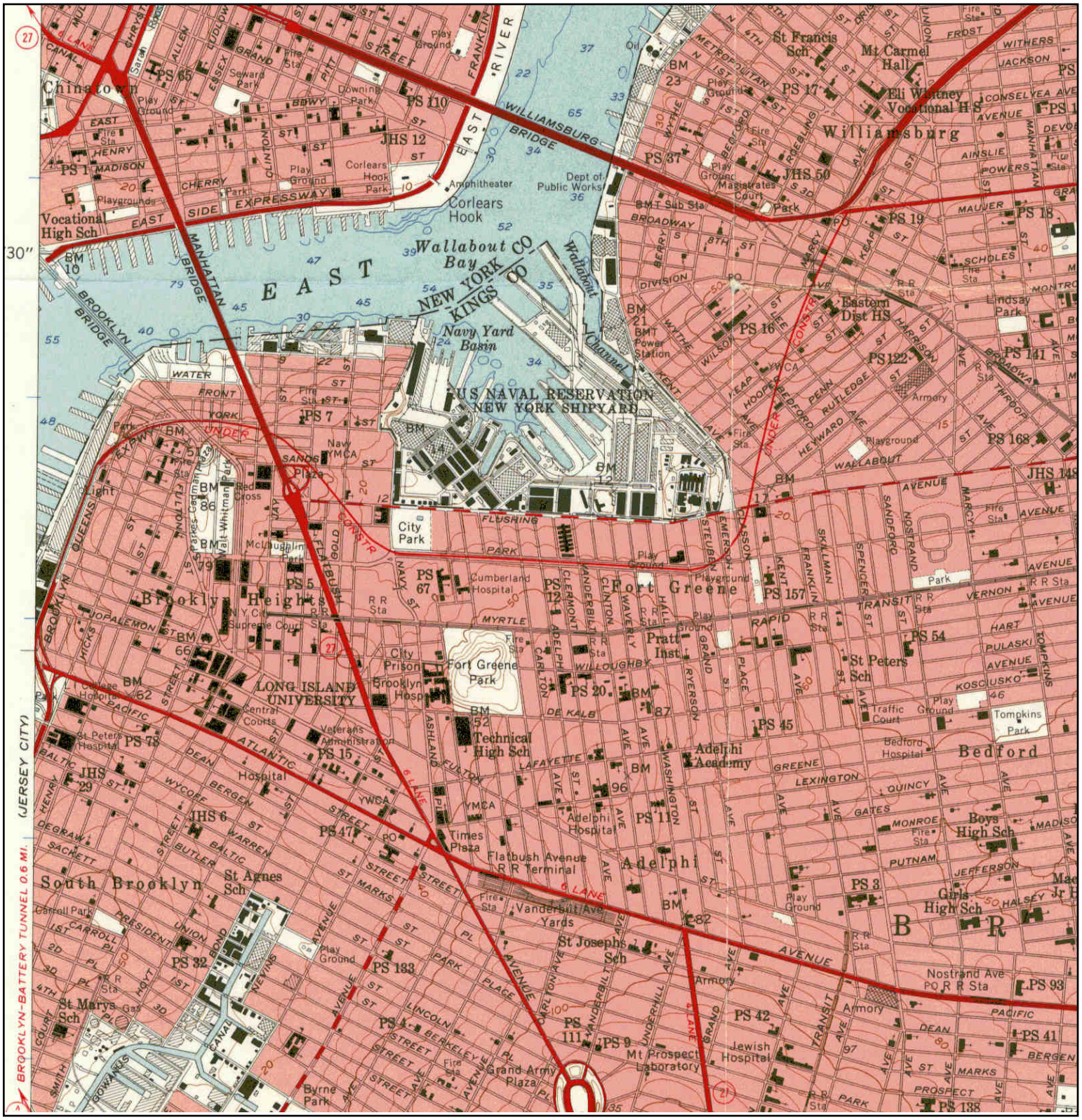
N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1900 SERIES: 15 SCALE: 1:62500	SITE NAME: 156 Tillary Street ADDRESS: 156 Tillary St. Brooklyn, NY 11201 LAT/LONG: 40.6959 / -73.9837	CLIENT: URS Corporation CONTACT: Mira Abdelaziz INQUIRY#: 3444910.4 RESEARCH DATE: 11/01/2012

Historical Topographic Map



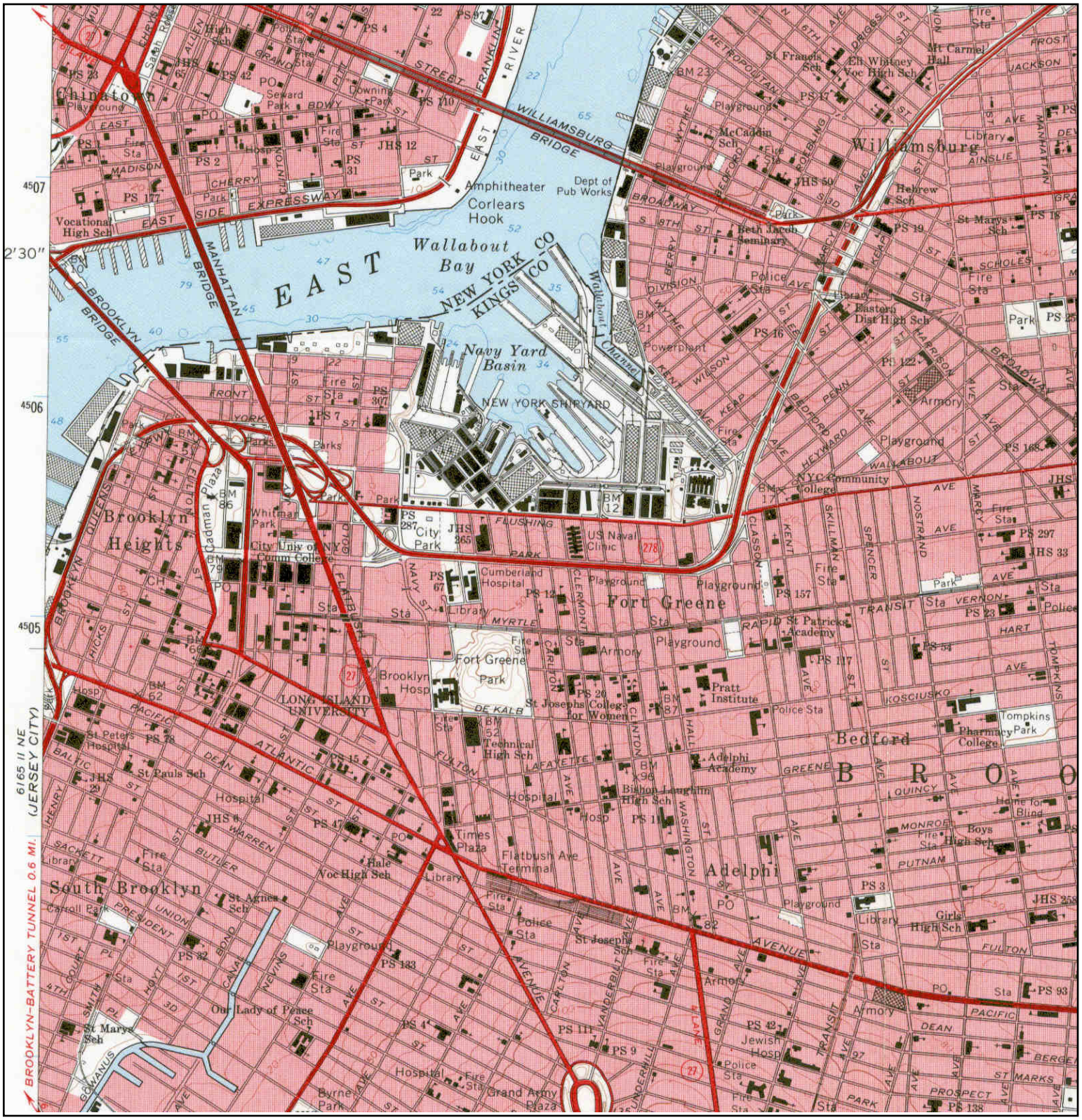
N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:25000	SITE NAME: 156 Tillary Street ADDRESS: 156 Tillary St. Brooklyn, NY 11201 LAT/LONG: 40.6959 / -73.9837	CLIENT: URS Corporation CONTACT: Mira Abdelaziz INQUIRY#: 3444910.4 RESEARCH DATE: 11/01/2012

Historical Topographic Map



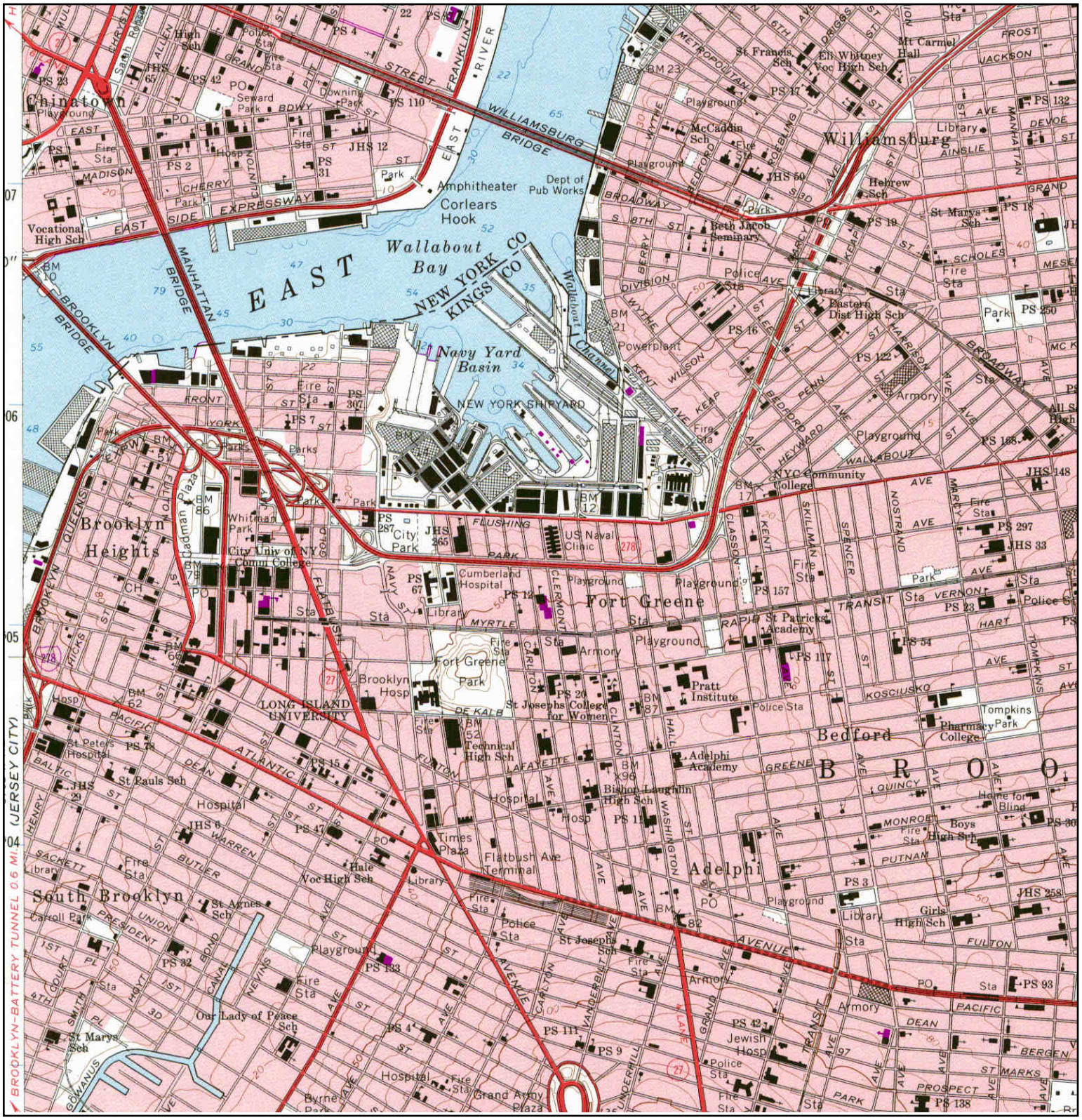
N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1956 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 156 Tillary Street ADDRESS: 156 Tillary St. Brooklyn, NY 11201 LAT/LONG: 40.6959 / -73.9837	CLIENT: URS Corporation CONTACT: Mira Abdelaziz INQUIRY#: 3444910.4 RESEARCH DATE: 11/01/2012

Historical Topographic Map



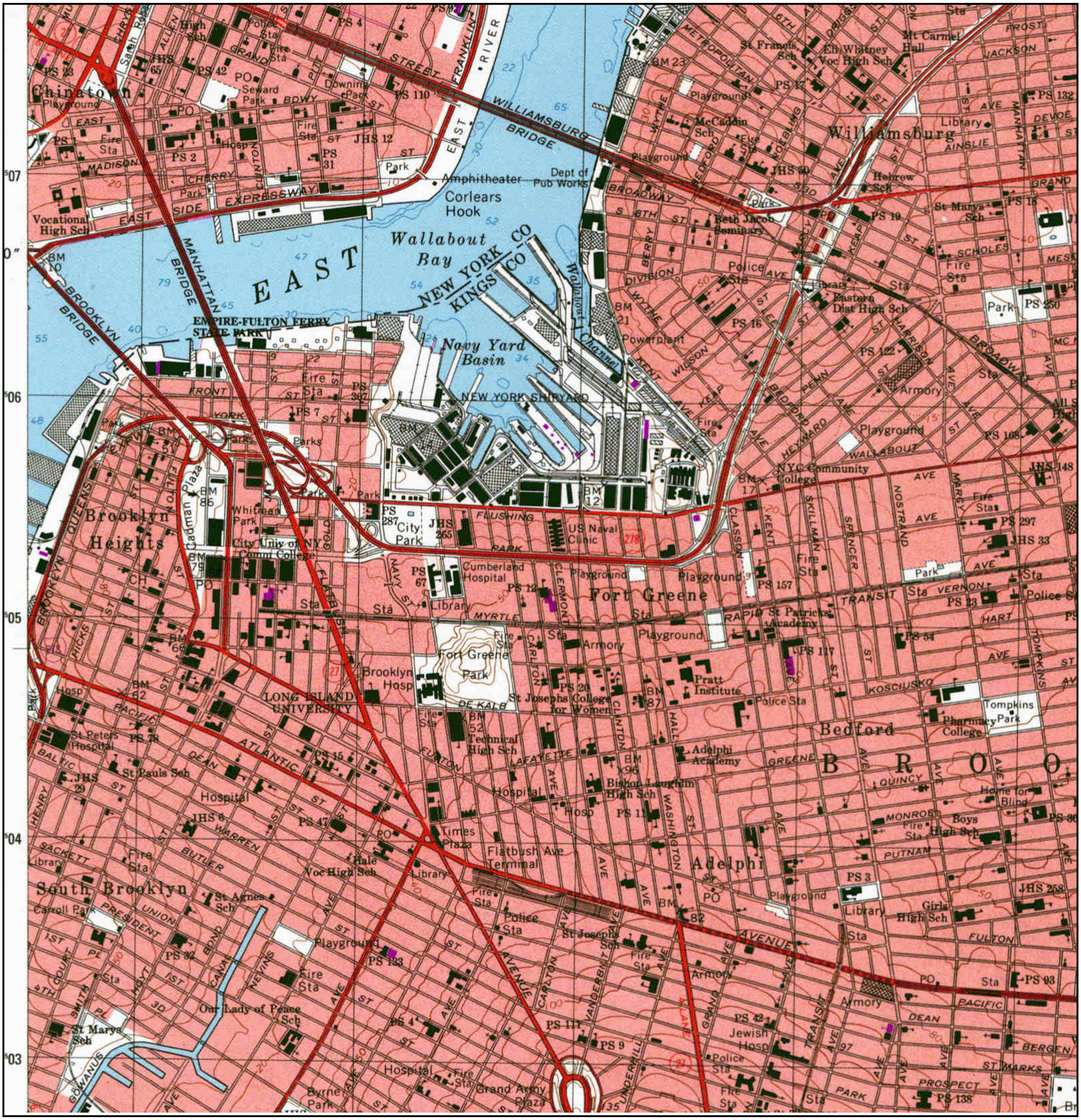
N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 156 Tillary Street ADDRESS: 156 Tillary St. Brooklyn, NY 11201 LAT/LONG: 40.6959 / -73.9837	CLIENT: URS Corporation CONTACT: Mira Abdelaziz INQUIRY#: 3444910.4 RESEARCH DATE: 11/01/2012

Historical Topographic Map



N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1979 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 156 Tillary Street ADDRESS: 156 Tillary St. Brooklyn, NY 11201 LAT/LONG: 40.6959 / -73.9837	CLIENT: URS Corporation CONTACT: Mira Abdelaziz INQUIRY#: 3444910.4 RESEARCH DATE: 11/01/2012

Historical Topographic Map



TARGET QUAD NAME: BROOKLYN MAP YEAR: 1995 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 156 Tillary Street ADDRESS: 156 Tillary St. Brooklyn, NY 11201 LAT/LONG: 40.6959 / -73.9837	CLIENT: URS Corporation CONTACT: Mira Abdelaziz INQUIRY#: 3444910.4 RESEARCH DATE: 11/01/2012

N

APPENDIX G

PHOTOGRAPHS

URS
1 Penn Plaza, 7th Floor
New York, NY 10019
Phone: 212.736.4444
Facsimile: 212.629.4249

PHOTOGRAPHIC DOCUMENTATION

CLIENT NAME:	PROJECT NAME:	URS PROJECT NO:
Brooklyn LW Associates	Phase I Environmental Assessment – 156 Tillary Street, Brooklyn, New York	11140192.00001

Photo No.	Date:
1	12/20/12

Description:

View of front of 156 Tillary looking south

Photo No.	Date:
2	12/20/12

Description:

View of ground floor space

URS
1 Penn Plaza, 7th Floor
New York, NY 10019
Phone: 212.736.4444
Facsimile: 212.629.4249

PHOTOGRAPHIC DOCUMENTATION

CLIENT NAME:	PROJECT NAME:	URS PROJECT NO:
Brooklyn LW Associates	Phase I Environmental Assessment – 156 Tillary Street, Brooklyn, New York	11140192.00001

Photo No.	Date:
3	12/20/12

Description:

Storage of waste oil or cooking grease in ground floor space

Photo No.	Date:
4	12/20/12

Description:

View of basement space

URS
1 Penn Plaza, 7th Floor
New York, NY 10019
Phone: 212.736.4444
Facsimile: 212.629.4249

PHOTOGRAPHIC DOCUMENTATION

CLIENT NAME:	PROJECT NAME:	URS PROJECT NO:
Brooklyn LW Associates	Phase I Environmental Assessment – 156 Tillary Street, Brooklyn, New York	11140192.00001

Photo No.	Date:
5	12/20/12

Description:

View of boiler in basement

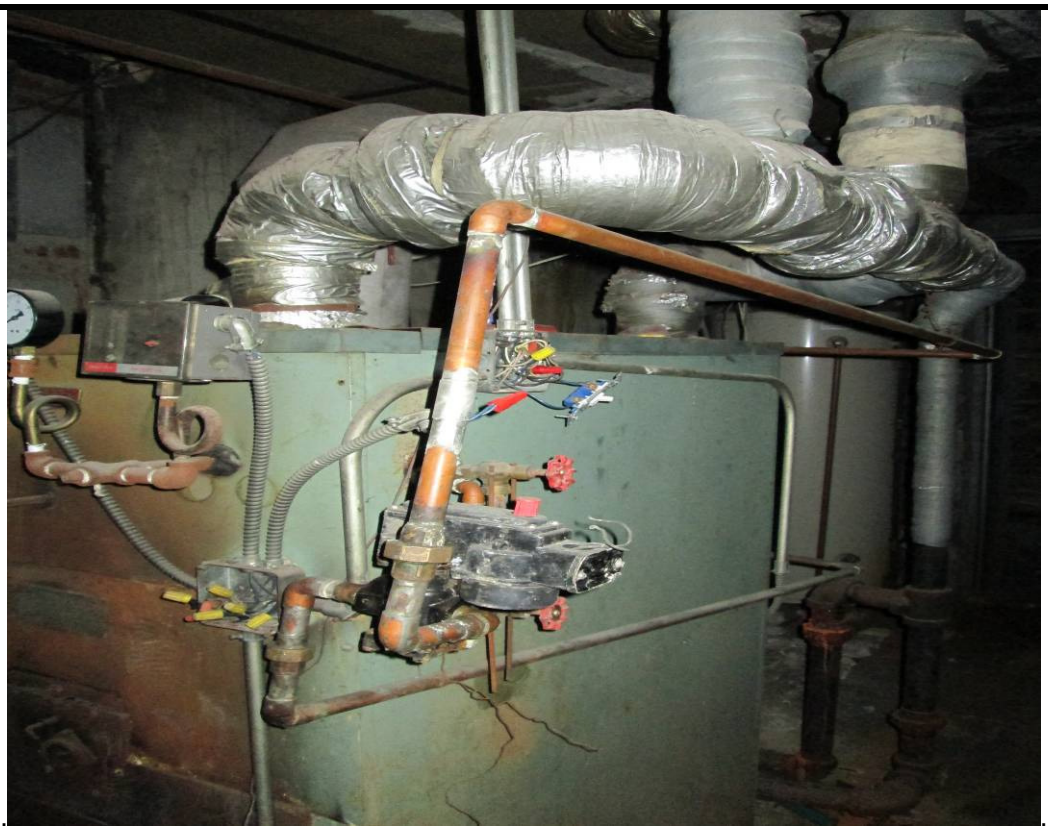


Photo No.	Date:
6	12/20/12

Description:

View of waste oil in buckets in basement

URS
1 Penn Plaza, 7th Floor
New York, NY 10019
Phone: 212.736.4444
Facsimile: 212.629.4249

PHOTOGRAPHIC DOCUMENTATION

CLIENT NAME:	PROJECT NAME:	URS PROJECT NO:
Brooklyn LW Associates	Phase I Environmental Assessment – 156 Tillary Street, Brooklyn, New York	11140192.00001

Photo No.	Date:
7	12/20/12

Description:

View of typical upper floor space

Photo No.	Date:
8	12/20/12

Description:

View of rear alley on south side of building

URS
1 Penn Plaza, 7th Floor
New York, NY 10019
Phone: 212.736.4444
Facsimile: 212.629.4249

PHOTOGRAPHIC DOCUMENTATION

CLIENT NAME:	PROJECT NAME:	URS PROJECT NO:
Brooklyn LW Associates	Phase I Environmental Assessment – 156 Tillary Street, Brooklyn, New York	11140192.00001

Photo No.	Date:
9	12/20/12

Description:

View of 4th Floor space

Photo No.	Date:
10	12/20/12

Description:

Typical bathroom

URS
1 Penn Plaza, 7th Floor
New York, NY 10019
Phone: 212.736.4444
Facsimile: 212.629.4249

PHOTOGRAPHIC DOCUMENTATION

CLIENT NAME:	PROJECT NAME:	URS PROJECT NO:
Brooklyn LW Associates	Phase I Environmental Assessment – 156 Tillary Street, Brooklyn, New York	11140192.00001

Photo No.	Date:
11	12/20/12

Description:

View of Roof with skylights.

Photo No.	Date:
12	12/20/12

Description:

View of neighborhood from roof. Looking northwest

APPENDIX H

CURRICULA VITAE OF URS PERSONNEL

URS

Robert J. Wolff

Principal Environmental Scientist

Overview

Mr. Wolff has over 20 years of experience in a wide variety of environmental project management capacities. His background includes the application of engineering and scientific principles to a broad range of environmental compliance, assessment and remedial activities. In addition Mr. Wolff has also completed numerous air permitting projects, federal and state regulatory compliance evaluations and environmental due diligence/assessments for private industry in New Jersey, New York and Pennsylvania and Department of Defense facilities throughout the United States, Puerto Rico and Europe.

Areas of Expertise

Project Management
Environmental Due Diligence
Environmental Compliance
Industrial Hygiene
Air Quality Evaluations

Years of Experience

With URS: 18 Years
With Other Firms: 3 Years

Education

MA/1996/Environmental Management/Montclair State University
Graduate Studies in Meteorology/ Rutgers University
BS/1982/Exercise Physiology/ University of Massachusetts

Registration/Certification

NYS Project Designer (1996)
NYS/AHERA Inspector (1996)

Project Specific Experience

Project Management

National Account Manager for Continental Airlines, Inc. Manage ten to fifteen diverse projects at airports country-wide. The projects include asbestos abatement, subsurface environmental and geotechnical investigations and environmental permitting. Established, achieved and charted project budgets of two to three million dollars. Additional duties include preparation of Tenant Alteration Applications for submittal to the Port Authority of New York and New Jersey.

Program Manager for New York City Economic Development Corporation. Mr. Wolff is the EDC's primary point of contact for the Toxic Retainer Contract. He coordinates, manages and facilitates the completion of each environmental task. The projects include including lead-in-paint and asbestos assessments, preliminary site assessments, including "E" designated sites, remedial investigations and remedial actions under a multitude of regulatory programs.

Project Manager for the Stratford Army Engine Plan, Stratford, Connecticut, Remedial Investigation. Directed, supervised and coordinated soil, groundwater, biota and risk assessment investigations. Crafted and negotiated contracts with the Army Corps of Engineers, New England District. Presented results, conclusions and recommendations to the Base Realignment Closure Team consisting of representatives from the Army, EPA, Connecticut DEP and Army Corps of Engineers. Conducted public meetings for the Stratford Restoration Advisory Board.

Managed, directed and conducted lead-based-paint, asbestos and radon risk assessments in U.S. Coast Guard Family Housing in the Continental United States, Alaska and Puerto Rico. The project was conducted in accordance with U.S. Coast Guard Facilities Design & Construction Center (Atlantic) (FDCC LANT) specifications, U.S. Housing and Urban Development (HUD) guidelines and AHERA guidelines. The project included report preparation, cost estimating and briefings to senior USCG personnel.

Brownfields Environmental Engineering, Nassau County Office of Economic Development, Navy/Grumman Site, Bethpage, NY

Supplemental Environmental Investigation. Senior Project Manager, work for this assignment involved the compilation of extensive existing environmental data for the 96-acre site. The data involved soil sample chemical analyses, soil vapor testing results and remedial excavation mapping and evaluation. This data was compiled into an extensive database and the soil results compared to NYSDEC TAGMS Recommended Soil Cleanup Objectives (RSCOs). Additionally multiple GIS maps were prepared for the site and linked to the database showing the hundreds of soil sample locations, limits of the remedial excavations and areas of residual soil contamination above the NYSDEC TAGM RSCOs. The GIS maps were completed for select depth horizons and composite maps were also produced for the site. URS also completed supplemental soil gas sampling, analyses and reporting at the Plant 3 (main manufacturing plant) building following the recently developed NYSDOH soil vapor assessment guidance.

New York City Housing Authority (NYCHA) Environmental Consulting Contract, Five Boroughs of New York City - Project manager Phase I, Phase II and asbestos abatement projects throughout various housing complexes. Managed URS staff as well as subconsultants during multiple abatement projects. Work included overseeing multiple contractors performing the removal work as well as providing air sample collection during the abatement work. The Phase I and Phase II work including providing NYCHA with an evaluation of Recognized Environmental Conditions on prospective property acquisitions.

Asbestos Investigation and Design and Subsurface Environmental Investigations, United States Military Academy (USMA) – West Point, New York - Projects involved the asbestos assessment and design of five structures on campus that included Hayes Gymnasium, the Library Building, Bartlett Hall, Ike Hall and Michie Stadium used by the USMA in West Point, New York. URS issued asbestos assessment reports for each of the facilities as well as updated design plans based on areas to be impacted during the overall upgrade of the campus buildings. Additionally, supervised a field investigation at Building 697 (former Post Exchange Service Station) on the campus of West Point Military Academy. The purpose of the investigation was to determine if there were any environmental impacts remaining in the subsurface soils at the site, which would need to be addressed as part of the planned redevelopment of the site. The investigation activities consisted of ten geoprobe borings, soil sampling and analysis..

Environmental Compliance

Project Manager for a variety of compliance projects at USPS facilities in the New York District. The projects included Phase I and Phase II environmental site assessments at existing USPS sites or

proposed acquisition sites in New Jersey and the Virgin Islands. Other compliance projects included updating boiler and UST/AST databases, completing NYSDEC registration renewals of boilers and ASTs, updating Emergency Planning and Community Right to Know (EPCRA) submittals and revising facility information listed in the USEPA's RCRIS database.

Fuel Storage Tank Environmental Compliance and Risk Mitigation Assessments, United States Postal Service. Conducted in-depth compliance assessments of underground and above ground tank systems and related environmental management systems at locations with-in the Postal Service's former New York Metro Area. Facilities assessed ranged from large facilities with more than 20 tanks containing a variety of fuels, products, and wastes to small facilities with a single tank. These assessments were designed to determine if the tank systems were installed properly, operated and maintained according to Federal, State, and local regulations and codes, and that the tank systems, including leak detection systems were functioning correctly. The assessments also included a review and evaluation of permit status, on-site record keeping, employee training, and employee knowledge of system operation.

"E Designated Site" Assessments. Project Manager for several E Designated Sites in New York City involving the preparation of Phase I Environmental Site Assessments, Health and Safety Plans, and Remedial Actions Work (RAW) Plans for review by the NYCDEP to investigate the identified Recognized Environmental Conditions.

Environmental Specialist for the New Jersey School Construction Corporation Hudson County Projects; in a joint venture with Turner Construction, was responsible for review of preliminary assessments, site investigations and hazardous material surveys. Worked with consultants, architects and construction management personnel as part of the land acquisition team.

Environmental Compliance Assessment Protocol (ECAP) Assessments, Federal Aviation Administration (FAA), U.S. Army Corps of Engineers (USACE) Seattle District, various locations. Team Leader for the ECAP assessments conducted at FAA facilities in Montana. Specific responsibilities included coordinating field activities and logistics, performing multi-media environmental compliance assessments. Air Quality, Cultural and Historic Resources, Hazardous Waste and Materials, Natural Resources, Pesticides, Petroleum, Oil and Lubricants, Solid Waste, Special Pollutants, Underground Storage Tanks, and Water Quality. The ECAP assessments identified specific regulatory criteria and developed corrective action programs for non-compliance issues. In addition, developed cost estimates for all corrective actions identified during the assessments and briefed FAA management.

European Environmental Compliance Assessment System (ECAS) Assessments, U.S. Army Europe, USACE, Transatlantic Programs Center, Europe. Team Leader for the performance of ECAS

assessments at U.S. Army bases in Germany. Specific responsibilities included identifying air quality, asbestos, radon, medical waste, potable water, wastewater, PCB/T management and noise non-compliance issues, developing corrective actions, and writing summary reports and briefed Army personnel.

Conducted a compliance assessment of New Jersey air quality issues at a resin manufacturing facility. The assessment included evaluation of VOC Reasonable Available Control Technology (RACT) requirements for various VOC source operations.

Conducted an air quality compliance evaluation as part of a due diligence study for the purchase of the Exxon Bayway Refinery. His responsibilities included preparation of a comprehensive air permit inventory and inspection and compliance evaluation of source operations throughout the facility.

Evaluated noise regulatory compliance for industrial, commercial and manufacturing facilities. This included developing and implementing baseline monitoring programs for various multi-use commercial and residential developments, transportation noise sources (i.e. highways and rail lines) and industrial manufacturing facilities.

Directed and conducted field operations for a lead-based paint survey for U.S. Army Europe, USACE, Transatlantic Programs Center, Europe at installations throughout Germany. Project responsibilities included conducting briefings to the military hierarchy, coordinating media interviews and ensuring project QA/QC while achieving project objectives in a compressed time frame.

Air Quality

Completed a Title V applicability analysis and permitting strategy for American Airlines facilities at John F. Kennedy and LaGuardia Airports in New York. The project produced an emissions assessment/regulatory risk analysis for each facility. The applicability determination included a facility compliance audit, data collection, emissions inventory and developing a regulatory compliance strategy.

Completed an air emissions inventory at a major ribbon and bow manufacturing facility in Pennsylvania. The inventory included calculating actual and potential emissions from the processes. In addition, he assisted in preparing a NO_x and VOC RACT Determination and Initial Compliance Plan for submission to the Pennsylvania Department of Environmental Protection. Various compliance measures were evaluated for each of the RACT source candidates to select the preferred method of compliance for the facility. The plan also included completing operating permit applications for various equipment and filing a federally enforceable emissions cap under a synthetic minor classification for Title V compliance.

Completed New York State Department of Environmental Conservation (NYSDEC) operating permits in accordance with 6 N.Y.C.R.R. Part 201, for a large manufacturing facility. The permitting process was two-fold: bringing the facility into compliance with the Part 201 regulations and creating an emissions cap to allow the facility to "cap out" as a synthetic minor. A

synthetic minor application for the facility was completed and submitted to NYSDEC that included the operating permit applications for welding and painting operations, sandblasting units, and combustion units. The application also included monitoring and recordkeeping specifications and evaluated air guide/air quality impacts from toxic air pollutants.

Prepared, completed and submitted air permit applications in accordance with N.J.A.C. 7:27-8 to the NJDEP for a large Pharmaceutical Research and Development facility in New Jersey. The applications involved computation of Volatile Organic Compounds (VOCs) and particulate emissions from tablet coating operations, combustion sources and spray dryers. By working closely with the NJDEP, the application process was expedited and approved by the NJDEP in time for the facility to begin operation ahead of schedule.

Supervised and completed emission inventories, Title V applications and Synthetic Minor applications at ten US Army installations in ten states and the District of Columbia. Mr. Wolff directed a project team that conducted a field survey at each installation that documented all sources of criteria pollutants and Hazardous Air Pollutants, evaluated regulatory compliance of each source and established Title V regulatory strategy. The installations' operations included depots, arsenals, air fields and manufacturing centers.

Managed field operations for air toxics, personnel sampling, ambient criteria pollutants and soil flux emissions. Responsible for implementing QA/QC protocols, coordinating routine field operations and collecting, validating and analyzing data. The projects included landfills, hazardous waste remediation sites involving the clean-up of coal tar, mercury and arsenic-contaminated soil.

Utilized a variety of EPA air quality models to simulate pollution concentration from industrial and transportation sources. He has used HIWAY2, and CALINE3 to simulate carbon monoxide concentrations from vehicular sources at critical intersections and MOBILE4 to determine emission factors. The CO modeling also included evaluating impacts from parking garages and Volume 9 procedures for CO "hot spot" modeling of intersections in Trenton, NJ. He has used the Industrial Source Complex Short Term model (ISCST) to model fugitive dust impacts from the construction and clearing operations as part of Environmental Impact Statements.

Conducted a screening air dispersion model analysis as part of a NYSDEC permit application state-of-the-art thermal desorption of PCB contaminated soil. The model (SCREEN2) predicted downwind impacts of the thermal desorption process on sensitive receptors. The application was part of a site remediation project in Glens Falls, New York for General Electric Research and Development.

Analyzed the impact from proposed exhaust stacks on fresh air intakes on the roof of a Research and Development (Bayer Corporation) in New Jersey. He utilized the ISCST model and throughput rates from air permits to complete the project. The results indicated that the stacks were properly and located and posed no adverse health impacts to personnel inside the building.

URS

Professional Societies/Affiliates

Air and Waste Management Association

Languages

English

Specialized Training

1988/Hazardous Materials Health and Safety Training, 40 Hours

Hazardous Materials Health and Safety Training, Annual Refreshers

1991/Waste Site Supervisor Training

2002/New York City Transit Authority, Track Safety Training

1998/AHERA Certified (AH 96-06121) Asbestos Inspector and Project Designer

1997/New Jersey/EPA-Model Lead Inspector/Risk Assessor Training Program

Cook College, Office of Continuing Education, "NJDEP Air Permit Workshop" and "NJDEP Advanced Air Permit Workshop"

1995/Air and Waste Management Professional Development Program; Operating Permits Workshop

1996/URS Professional Development Institute; Phase I Environmental Site Assessment Training

2002/NJDEP Advanced Radius Air Permitting, Cook College Training, Office of Continuing Education

2003/Certified Microbial Remediation Supervisor

Publications

"Air Quality Characterization from an Inactive Landfill" (with R.D. Petherbridge). Presented at the 86th Annual Meeting and Exhibition of the Air and Waste Management Association. Denver, CO. June 13-18, 1993.

"Criteria and Fundamentals for Siting Low Level Radioactive Waste Disposal for New Jersey" (with Dr. David k. Robertson et.al.). Department of Earth and Environmental Studies, Montclair State University, Upper Montclair, NJ, 1994.

APPENDIX 2

URS Corporation

TEST BORING LOG

BORING/WELL NO:	Sump 1
SHEET:	1 of 1
JOB NO.:	11140247.00001
BORING LOCATION:	
GROUND ELEVATION:	
DATE STARTED:	05/19/14
DATE FINISHED:	05/19/14
DRILLER:	Charles Green
GEOLOGIST:	John Crespo
REVIEWED BY:	

PROJECT:	156 Tillary Street
CLIENT:	NYCDDC
BORING CONTRACTOR:	Zebra

GROUNDWATER (BTOC):					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.		2"		
				WT.				
				FALL				

DEPTH FEET	STRAT. SYMBOL	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6"	REC. RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS CLASS	PID	Moist.
						grey		concrete 5"		0.8	
		1			61%	brown	medium	fine to med sand, concrete	SP	1.1	Moist.
								fine pebbles and gravel imbeded		1.5	
										0.0	
		2			61%					0.0	
5										0.0	
								End of boring at 6'			
10											
15											
20											
25											
30											

COMMENTS:	Collected samples Sump 1(0 - 2') at 10:20 and Sump 1(3 - 5") at 11:05. Sampled for VOC's
PROJECT NO.	11140247.00001
BORING/WELL NO.	Sump 1

URS Corporation

TEST BORING LOG

BORING/WELL NO:	Base 1
SHEET:	1 of 1
JOB NO.:	11140247.00001
BORING LOCATION:	
GROUND ELEVATION:	
DATE STARTED:	05/19/14
DATE FINISHED:	05/19/14
DRILLER:	Charles Green
GEOLOGIST:	John Crespo
REVIEWED BY:	

PROJECT:	156 Tillary Street
CLIENT:	NYCDDC
BORING CONTRACTOR:	Zebra

GROUNDWATER (BTOC):					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.		2"		
				WT.				
				FALL				

DEPTH FEET	STRAT. SYMBOL	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6"	REC. RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS CLASS	REMARKS PID	REMARKS Moist.
		1			47%	grey brown/ brick	medium/loose	concrete 5". Fill. Fine to med sand, brick, crushed stone, black band of clay	SP	4.1 3.5 2.1	Moist.
		2			61%	brown beige brown	medium	fine to med sand, trace mica, fine pebbels and gravel.		3.7 2.7 2.1	
5											
10								End of boring at 6'			
15											
20											
25											
30											

COMMENTS: Collected samples Base 1(0 - 2') at 13:05 and Base 1(3 - 5") at 13:15. Sampled for VOC's and SVOC, Tal metals, Pest, PCB

PROJECT NO. 11140247.00001
BORING/WELL NO. Base 1

URS Corporation

TEST BORING LOG

BORING/WELL NO:	Base 2
SHEET:	1 of 1
JOB NO.:	11140247.00001
BORING LOCATION:	
GROUND ELEVATION:	
DATE STARTED:	05/19/14
DATE FINISHED:	05/19/14
DRILLER:	Charles Green
GEOLOGIST:	John Crespo
REVIEWED BY:	

PROJECT:	156 Tillary Street
CLIENT:	NYCDDC
BORING CONTRACTOR:	Zebra

GROUNDWATER (BTOC):					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.		2"		
				WT.				
				FALL				

DEPTH FEET	STRAT. SYMBOL	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6"	REC. RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS CLASS	PID	Moist.
		1			69%	grey brown	medium	concrete 5". Fill. Fine to med sand, brick, crushed stone,	SP	1.0 1.5 3.5	Moist.
		2			67%	greenish brown		fine to med sand, trace mica and silt, crushed stone.		3.8 1.9 1.2	
5											
								End of boring at 6'			
10											
15											
20											
25											
30											

COMMENTS: Collected samples Base 2(0 - 2') at 11:55 and Base 2(3 - 5") at 12:05. Sampled for VOC's and SVOC, Tal metals, Pest, PCB

PROJECT NO. 11140247.00001
BORING/WELL NO. Base 2

URS Corporation

TEST BORING LOG

BORING/WELL NO:	Base 3
SHEET:	1 of 1
JOB NO.:	11140247.00001
BORING LOCATION:	
GROUND ELEVATION:	
DATE STARTED:	05/19/14
DATE FINISHED:	05/19/14
DRILLER:	Charles Green
GEOLOGIST:	John Crespo
REVIEWED BY:	

PROJECT:	156 Tillary Street
CLIENT:	NYCDDC
BORING CONTRACTOR:	Zebra

GROUNDWATER (BTOC):					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.		2"		
				WT.				
				FALL				

DEPTH FEET	STRAT. SYMBOL	SAMPLE NO.	TYPE	BLOWS PER 6"		REC. RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS CLASS	REMARKS PID	Moist.
		1				61%	grey brown	medium	concrete 5". Fill. Fine to med sand, brick, crushed stone, some large gravel imbeded	SP	0.8 0.0	Moist.
		2				64%			same as above with trace mica			
5												
									End of boring at 6'			
10												
15												
20												
25												
30												

COMMENTS: Collected samples Base 3(0 - 2') at 11:25 and Base 2(3 - 5") at 11:30. Sampled for VOC's and SVOC, Tal metals, Pest, PCB

PROJECT NO. 11140247.00001
BORING/WELL NO. Base 3

URS Corporation

TEST BORING LOG

BORING/WELL NO:	Ext 1
SHEET:	1 of 1
JOB NO.:	11140247.00001
BORING LOCATION:	
GROUND ELEVATION:	
DATE STARTED:	05/20/14
DATE FINISHED:	05/20/14
DRILLER:	Charles Green
GEOLOGIST:	John Crespo
REVIEWED BY:	

PROJECT:	156 Tillary Street
CLIENT:	NYCDDC
BORING CONTRACTOR:	Zebra

GROUNDWATER (BTOC):					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.		2"		
				WT.				
				FALL				

DEPTH FEET	STRAT. SYMBOL	SAMPLE NO.	TYPE	BLOWS PER 6"	REC. RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS CLASS	PID	Moist.
		1			22%	grey/ black	medium	concrete 9" fill. Med sand, brick, broken concrete, mixed with black top	SM	0.0	moist
5		2			42%	grey/ beige dark brown brown		brick med sand, some gravel imbeded fine pebbles, 2" layer of dark green sand, silt.			
10		3			83%	grey/brick black/brown brown	medium/dense	pulverized schist, med gravel fine to med sand, silt and mica			
15		4			97%	brown beige brown		same as above with a layer of brick at 12'. pulverized rock, fine gravel and sand		0.2	
20		5			84%	orange/ beige brown		layer of fill with brick, glass and black top. fine, med sand, pulverized rock silt and med to large gravel.			
25								NO SAMPLE WAS TAKEN			wet
30								End of boring at 33'			

COMMENTS: Collected samples Ext 1 (0 - 2') at 9:30 and Ext 1(15 - 17") at 10:20. Sampled for VOC's and SVOC, Tal metals, Pest, PCB Set screen to 33' and Collected GW sample Ext 1 and sample for VO, BNA, Pest/PCB -Aq, Metals, Metals Dissolved (lab filtered)

PROJECT NO. 11140247.00001
BORING/WELL NO. Ext 1

H:\DM\Projects\11140247 - Bk LW Htl_Ph II 156 NOTE Ground water level at 27.26' below grade.

URS Corporation

TEST BORING LOG

PROJECT:	156 Tillary Street	BORING/WELL NO:	Ext 2
CLIENT:	NYCDDC	SHEET:	1 of 1
BORING CONTRACTOR:	Zebra	JOB NO.:	11140247.00001
GROUNDWATER (BTOC):		BORING LOCATION:	
		GROUND ELEVATION:	
		DATE STARTED:	05/20/14
		DATE FINISHED:	05/20/14
		DRILLER:	Charles Green
		GEOLOGIST:	John Crespo
		REVIEWED BY:	

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	CORE	TUBE
				TYPE				
				DIA.		2"		
				WT.				
				FALL				

DEPTH FEET	STRAT. SYMBOL	SAMPLE NO.	TYPE	BLOWS PER 6"	REC. RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS CLASS	REMARKS PID	Moist.
		1			38%	grey black/grey br./beige	medium/loose	concrete 9" Fill. Fine to med sand, brick crushed concrete and fine pebbles	SM	0.0	moist
5		2			33%	black/grey beige brown		same as above with blacktop fine gravel and brick and some clay.			
10		3			68%		medium	fine to med sand, fine gravel and some brick at 10'. pulverized schist, and some large gravel imbeded.			
15		4			88%	black/grey brown	medium/dense	layer of fine to med sand, fine pebbles and gravel pulverized grey rock at 18' with sand and silt			
20		5			83%	black/grey brown	medium	fine to med sand, trace silt, fine pebbles layer of black and grey rock pulverized. Some crushed schist imbeded.			
25		6			100%	beige brown		fine to med sand, some pink and black color rock pulverized. Also beige and green color gravel weather schist.			wet
30								End of boring at 33'			

COMMENTS: Collected samples Ext 2 (0 - 2') at 11:40 and Ext 2(15 - 17") at 12:20. Sampled for VOC's and SVOC, Tal metals, Pest, PCB Set screen to 30.5' and Collected GW sample Ext 2, sample for VO, BNA, Pest/PCB -Aq, Metals, Metals Dissolved (lab filtered)

PROJECT NO. 11140247.00001
BORING/WELL NO. Ext 2

H:\DM\Projects\11140247 - Bk LW Htl_Ph II 156 NOTE Ground water level at 27.45' below grade.
Collected duplicate sample DUP052014 at 8:00

URS Corporation

TEST BORING LOG

BORING/WELL NO:	Ext 3
SHEET:	1 of 1
JOB NO.:	11140247.00001
BORING LOCATION:	
GROUND ELEVATION:	
DATE STARTED:	05/20/14
DATE FINISHED:	05/20/14
DRILLER:	Charles Green
GEOLOGIST:	John Crespo
REVIEWED BY:	

PROJECT:	156 Tillary Street
CLIENT:	NYCDDC
BORING CONTRACTOR:	Zebra

GROUNDWATER (BTOC):					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.		2"		
				WT.				
				FALL				

DEPTH FEET	STRAT. SYMBOL	SAMPLE NO.	TYPE	BLOWS PER 6"	REC. RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS CLASS	PID	Moist.
		1			48%	grey black/grey brick	medium/loose	concrete 4" Fill. Fine to med sand, crushed concrete and blackstone fine gravel and pebbles Med sand and brick	SM GP	0.0	moist
5		2			47%	grey brick brown		Med sand and concrete crushed brick fill. Fine to med sand, gravel	SM		
10		3			55%	dk, brown brown	loose medium	Pulverized brick 3" layer of silt, clay over pulverized rock. fine to med sand, fine pebbles larger imbeded gravel.	GP SM		
15		4			93%	br./brick brown		same as above with brick. and crushed stone. fine to med sand, large gravel imbeded with med green and grey rock pulverized imbeded	GP SM		
20		5			38%		medium/loose	med sand, trace silt, brick and crushed s layer of black and grey			
25		6			98%		loose	fine to med sand, large gravel imbeded. One 2" layer of stained sand with strong odor (~ 28').		30.5 25.6 0.2	wet
30								End of boring at 33'			

COMMENTS: Collected samples Ext 3 (0 - 2') at 14:20, Ext 3(15 - 17") at 14:35 and Ext 3(27 -29') at 15:05. Sampled for VOC's and SVOC, Tal metals, Pest, PCB Set screen to 31.5' and Collected GW sample Ext 3. Sample for VO, BNA, Pest/PCB -Aq, Metals, and Metals Dissolved (lab filtered).

PROJECT NO. 11140247.00001
BORING/WELL NO. Ext 3

H:\DM\Projects\11140247 - Bk LW Htl_Ph II 156 NOTE IP malfunctioned so ground water level was determined to be at around 27.0' below grade.

Summa Canister Sampling Field Data Sheet

Site: 156 Tillary St.
Samplers: J. CRESPO
Date: 6/4/14

Sample #	BASE 1	BASE 2	BASE 3	AMB060414	
Location	BASEMENT 1639	BASEMENT	BASEMENT	BACK YARD	
Summa Canister ID (Pace)	~~[illegible]~~	0851	2374	2312	
Flow Controller ID	FC0422	FC0192	FC0239	FC0170	
Additional Tubing Added	**YES** - How much 1ft	**YES** - How much 1ft	No/ YES - How much 1ft	**YES** - How much 1ft	No
Purge Time (Start)	10:02	10:24	10:53	—	
Purge Time (Stop)	10:07	10:28	10:56	—	
Total Purge Time (min)	5	4	3	—	
Purge Volume	2 l	2 l	2 l	—	
PID Test of Purge Air	1.7	1.1	0.5	—	
Initial Tracer Gas Results	100 ppm	25 ppm	75 ppm	—	
Pressure Gauge - before sampling	-28	-29	-30	-30	
Sample Time (Start)	10:12	10:33	11:00	10:39	
Sample Time (Stop)	12:12	12:33	13:00	12:39	
Total Sample Time (min)	120	120	120	120	
Pressure Gauge - after sampling	-5	-3	-10	-8	
Sample Volume	6 l	6 l	6 l	6 l	
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / **NO**
~~Final Tracer~~ Gas Results	—	—	—		
~~Associated Ambient Air Sample Number~~	AMB060414	→	→		

General Comments:

APPENDIX 3

HC·V
HAMPTONCLARKE·VERITECH

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787

WWW.HCVLAB.COM

Project: 156 Tillary St.

Client PO: 11140247.00001

Report To: URS Corp.
One Penn Plaza
Suite 600
New York, NY 10119

Attn: Robert Wolff

Received Date: 5/20/2014

Report Date: 6/13/2014

Deliverables: NYSDEC-CatB

Lab ID: AC78787

Lab Project No: 4052101

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

Robin Cousineau - Quality Assurance Director OR **Stanley Gilewicz - Laboratory Director**

NJ	(07071)	NY	(ELAP11408)	CT	(PH-0671)
PA	(68-00463)	KY	(90124)		

NELAP ACCREDITED TNI LABORATORY

Table of Contents

SDG Narrative..... 1

Reporting Limit Definitions..... 5

Data Package Summary Forms..... 7

Chain of Custody Forms..... 225

GC/MS Volatiles Data..... 235

GC/MS Semi-Volatiles Data..... 552

GC PCB Data..... 920

GC Pesticide Data..... 1184

Metal Data..... 1423

SDG Narrative

HCV Case Narrative/Conformance Summary

Client: URS Corporation
Project: 156 Tillary St.

HCV Project: 4052101

Hampton-Clarke/Veritech (HC·V) received the following samples on May 20, 2014:

Client ID	HCV Sample ID	Matrix	Analysis
EXT1 (0-2)	AC78787-001	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
EXT1 (15-17)	AC78787-002	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
EXT 1 unfiltered	AC78787-003	Aqueous	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7470A)
EXT 1 filtered	AC78787-004	Aqueous	Metals (6010C/6020A/7470A)
FB052014 unfiltered	AC78787-005	Aqueous	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7470A)
FB052014 filtered	AC78787-006	Aqueous	Metals (6010C/6020A/7470A)
EXT2 (0-2)	AC78787-007	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
EXT2 (15-17)	AC78787-008	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
DUP022014 unfiltered	AC78787-009	Aqueous	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7470A)
DUP022014 filtered	AC78787-010	Aqueous	Metals (6010C/6020A/7470A)
EXT2 unfiltered	AC78787-011	Aqueous	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7470A)
EXT2 filtered	AC78787-012	Aqueous	Metals (6010C/6020A/7470A)
TB	AC78787-013	Aqueous	Volatiles (8260C
EXT3 (0-2)	AC78787-014	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
EXT3 (15-17)	AC78787-015	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
EXT3 unfiltered	AC78787-016	Aqueous	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7470A)
EXT3 filtered	AC78787-017	Aqueous	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7470A)
EXT3 (27-29)	AC78787-018	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
SUMP (0-2)	AC78787-019	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
SUMP (3-5)	AC78787-020	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
BASE 1 (0-2)	AC78787-021	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
BASE 1 (3-5)	AC78787-022	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
BASE 2 (0-2)	AC78787-023	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
BASE 2 (3-5)	AC78787-024	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
BASE 3 (0-2)	AC78787-025	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)
BASE 3 (3-5)	AC78787-026	Soil	Volatiles (8260C), Semi-Volatiles (8270D), PCB (8082A), Pesticides (8081B), Metals (6010C/6020A/7471B)

Volatile Organic Analysis:

The VO soil samples were not collected as encores. Any reported sample concentrations below 200 ug/kg may be biased low due to the samples not being collected according to 5035A low-level specifications.

Methylene chloride was recovered in samples AC78778-001, -007, -015, -021 suggesting possible laboratory contamination.

Base Neutral/Acid Extractable Analysis:

Samples AC78787-001, -002 and -016 were analyzed at a dilution due to high concentration of target analytes.

The Matrix Spike and Matrix Spike Duplicate for batch 33889 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

The Matrix Spike Duplicate for batch 33917 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

The RPD between Matrix Spike and Matrix Spike Duplicate for batch 33917 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

Samples AC78787-003, -008, -015, -023, -024, -026, and in QC samples AC78787-003MS, and AC78787-003MSD have a surrogate recovery outside QC limits, but the recovery is greater than 10%, therefore, no corrective action was necessary.

QC samples AC78692-028 had one or more surrogates outside QC limits. Since the original sample and the Matrix Spike recovered within QC limits, no further action was required.

There is no surrogate recovery data for sample AC78787-002 due to high sample dilution.

The surrogates were double spiked in sample AC78787-003. Percent recoveries on form 2 were adjusted to reflect spiking error.

PCB Analysis:

Data conforms to method requirements.

Pesticide Analysis:

The Matrix Spike Duplicate for batch 30773 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

The Matrix Spike and Matrix Spike Duplicate for batch 33933 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

Metals Analysis:

Samples AC78787-001, -003, -007, -011, -014, -015 and -016 were analyzed at a dilution due to high concentration of certain elements.

Samples AC787-003, -011, and -016, were analyzed at a dilution due interference with the internal standard.

The Matrix Spike and Matrix Spike Duplicate for batch (es) 32818, 32817 and 32819 have recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

The Post Spike 32819 has recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batch 32817. The RPD criteria were met between the LCS/LCS Method Replicate.

The MS/MSD RPD had recoveries outside QC limits in batch 32818. The RPD criteria were met between the LCS/LCS Method Replicate.

The serial dilution for batches 32818 and 32819 is outside QC limits for one or more analytes, suggesting matrix interference.

Samples AC78787-004, 006, 010 and -017 were lab filtered and preserved per clients request.

Wet Chemistry Analysis:

Data conforms to method requirements.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Robin Cousineau Quality Assurance Director	Or	Stanley Gilewicz Laboratory Director	Date

Reporting Limit Definitions

HCV Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

MDL = Method Detection Limit

RL* = Reporting Limit

ND = Not Detected

RT = Retention Time

NA = Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

Data Package Summary Forms

HCV Report Of Analysis

Client: URS Corp.
Project: 156 Tillary St.

HCV Project #: 4052101

Sample ID: EXT1(0-2')
Lab#: AC78787-001
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		82

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	40	mg/kg	4.1	170

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0061	ND
Alpha-BHC	1	mg/kg	0.0012	ND
beta-BHC	1	mg/kg	0.0012	ND
Chlordane	1	mg/kg	0.030	ND
delta-BHC	1	mg/kg	0.0061	ND
Dieldrin	1	mg/kg	0.0012	ND
Endosulfan I	1	mg/kg	0.0061	ND
Endosulfan II	1	mg/kg	0.0061	ND
Endosulfan Sulfate	1	mg/kg	0.0061	ND
Endrin	1	mg/kg	0.0061	ND
Endrin Aldehyde	1	mg/kg	0.0061	ND
Endrin Ketone	1	mg/kg	0.0061	ND
gamma-BHC	1	mg/kg	0.0012	ND
Heptachlor	1	mg/kg	0.0061	ND
Heptachlor Epoxide	1	mg/kg	0.0061	ND
Methoxychlor	1	mg/kg	0.0061	ND
p,p'-DDD	1	mg/kg	0.0030	ND
p,p'-DDE	1	mg/kg	0.0030	ND
p,p'-DDT	1	mg/kg	0.0030	ND
Toxaphene	1	mg/kg	0.030	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	10	mg/kg	0.41	ND
1,2,4,5-Tetrachlorobenzene	10	mg/kg	0.41	ND
2,3,4,6-Tetrachlorophenol	10	mg/kg	0.41	ND
2,4,5-Trichlorophenol	10	mg/kg	0.41	ND
2,4,6-Trichlorophenol	10	mg/kg	0.41	ND

Sample ID: EXT1(0-2') **Collection Date: 5/20/2014**
Lab#: AC78787-001 **Receipt Date: 5/20/2014**
Matrix: Soil

2,4-Dichlorophenol	10	mg/kg	0.10	ND
2,4-Dimethylphenol	10	mg/kg	0.10	ND
2,4-Dinitrophenol	10	mg/kg	2.0	ND
2,4-Dinitrotoluene	10	mg/kg	0.41	ND
2,6-Dinitrotoluene	10	mg/kg	0.41	ND
2-Chloronaphthalene	10	mg/kg	0.41	ND
2-Chlorophenol	10	mg/kg	0.41	ND
2-Methylnaphthalene	10	mg/kg	0.41	ND
2-Methylphenol	10	mg/kg	0.10	ND
2-Nitroaniline	10	mg/kg	0.41	ND
2-Nitrophenol	10	mg/kg	0.41	ND
3&4-Methylphenol	10	mg/kg	0.10	ND
3,3'-Dichlorobenzidine	10	mg/kg	0.41	ND
3-Nitroaniline	10	mg/kg	0.41	ND
4,6-Dinitro-2-methylphenol	10	mg/kg	2.0	ND
4-Bromophenyl-phenylether	10	mg/kg	0.41	ND
4-Chloro-3-methylphenol	10	mg/kg	0.41	ND
4-Chloroaniline	10	mg/kg	0.19	ND
4-Chlorophenyl-phenylether	10	mg/kg	0.41	ND
4-Nitroaniline	10	mg/kg	0.41	ND
4-Nitrophenol	10	mg/kg	0.41	ND
Acenaphthene	**10**	**mg/kg**	**0.41**	**0.60**
Acenaphthylene	10	mg/kg	0.41	ND
Acetophenone	10	mg/kg	0.41	ND
Anthracene	**10**	**mg/kg**	**0.41**	**1.5**
Atrazine	10	mg/kg	0.41	ND
Benzaldehyde	10	mg/kg	0.41	ND
Benzo[a]anthracene	**10**	**mg/kg**	**0.41**	**6.1**
Benzo[a]pyrene	**10**	**mg/kg**	**0.41**	**5.3**
Benzo[b]fluoranthene	**10**	**mg/kg**	**0.41**	**6.7**
Benzo[g,h,i]perylene	**10**	**mg/kg**	**0.41**	**3.1**
Benzo[k]fluoranthene	**10**	**mg/kg**	**0.41**	**2.4**
bis(2-Chloroethoxy)methane	10	mg/kg	0.41	ND
bis(2-Chloroethyl)ether	10	mg/kg	0.10	ND
bis(2-Chloroisopropyl)ether	10	mg/kg	0.41	ND
bis(2-Ethylhexyl)phthalate	10	mg/kg	0.41	ND
Butylbenzylphthalate	10	mg/kg	0.41	ND
Caprolactam	10	mg/kg	0.41	ND
Carbazole	**10**	**mg/kg**	**0.41**	**0.53**
Chrysene	**10**	**mg/kg**	**0.41**	**5.2**
Dibenzo[a,h]anthracene	**10**	**mg/kg**	**0.41**	**0.80**
Dibenzofuran	**10**	**mg/kg**	**0.10**	**0.24**
Diethylphthalate	10	mg/kg	0.41	ND
Dimethylphthalate	10	mg/kg	0.41	ND
Di-n-butylphthalate	10	mg/kg	0.20	ND
Di-n-octylphthalate	10	mg/kg	0.41	ND
Fluoranthene	**10**	**mg/kg**	**0.41**	**11**
Fluorene	**10**	**mg/kg**	**0.41**	**0.42**
Hexachlorobenzene	10	mg/kg	0.41	ND
Hexachlorobutadiene	10	mg/kg	0.41	ND
Hexachlorocyclopentadiene	10	mg/kg	0.41	ND
Hexachloroethane	10	mg/kg	0.41	ND
Indeno[1,2,3-cd]pyrene	**10**	**mg/kg**	**0.41**	**2.7**
Isophorone	10	mg/kg	0.41	ND
Naphthalene	**10**	**mg/kg**	**0.10**	**0.15**
Nitrobenzene	10	mg/kg	0.41	ND
N-Nitroso-di-n-propylamine	10	mg/kg	0.10	ND

Sample ID: EXT1(0-2')
Lab#: AC78787-001
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

N-Nitrosodiphenylamine	10	mg/kg	0.41	ND
Pentachlorophenol	10	mg/kg	2.0	ND
Phenanthrene	**10**	**mg/kg**	**0.41**	**7.4**
Phenol	10	mg/kg	0.41	ND
Pyrene	**10**	**mg/kg**	**0.41**	**11**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**240**	**3500**
Arsenic	**1**	**mg/kg**	**4.9**	**660**
Barium	**1**	**mg/kg**	**12**	**630**
Calcium	**1**	**mg/kg**	**1200**	**5400**
Chromium	**1**	**mg/kg**	**6.1**	**20**
Cobalt	**1**	**mg/kg**	**3.0**	**8.5**
Copper	**1**	**mg/kg**	**6.1**	**540**
Iron	**1**	**mg/kg**	**240**	**33000**
Lead	**1**	**mg/kg**	**6.1**	**1200**
Magnesium	**1**	**mg/kg**	**610**	**1100**
Manganese	**1**	**mg/kg**	**12**	**280**
Nickel	**1**	**mg/kg**	**6.1**	**58**
Potassium	**1**	**mg/kg**	**610**	**690**
Sodium	1	mg/kg	300	ND
Thallium	1	mg/kg	1.8	ND
Vanadium	**1**	**mg/kg**	**12**	**16**
Zinc	**1**	**mg/kg**	**12**	**610**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	**1**	**mg/kg**	**0.98**	**6.3**
Beryllium	**1**	**mg/kg**	**0.24**	**0.30**
Cadmium	**1**	**mg/kg**	**0.49**	**1.6**
Selenium	1	mg/kg	2.4	ND
Silver	**1**	**mg/kg**	**0.24**	**0.74**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.996	mg/kg	0.0024	ND
1,1,2,2-Tetrachloroethane	0.996	mg/kg	0.0024	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.996	mg/kg	0.0024	ND
1,1,2-Trichloroethane	0.996	mg/kg	0.0024	ND
1,1-Dichloroethane	0.996	mg/kg	0.0024	ND
1,1-Dichloroethene	0.996	mg/kg	0.0024	ND
1,2,3-Trichlorobenzene	0.996	mg/kg	0.0024	ND
1,2,4-Trichlorobenzene	0.996	mg/kg	0.0024	ND
1,2-Dibromo-3-chloropropane	0.996	mg/kg	0.0024	ND
1,2-Dibromoethane	0.996	mg/kg	0.0024	ND
1,2-Dichlorobenzene	0.996	mg/kg	0.0024	ND
1,2-Dichloroethane	0.996	mg/kg	0.0024	ND
1,2-Dichloropropane	0.996	mg/kg	0.0024	ND
1,3-Dichlorobenzene	0.996	mg/kg	0.0024	ND
1,4-Dichlorobenzene	0.996	mg/kg	0.0024	ND
1,4-Dioxane	0.996	mg/kg	0.12	ND
2-Butanone	0.996	mg/kg	0.0024	ND
2-Hexanone	0.996	mg/kg	0.0024	ND
4-Methyl-2-pentanone	0.996	mg/kg	0.0024	ND
Acetone	0.996	mg/kg	0.012	ND
Benzene	0.996	mg/kg	0.0012	ND
Bromochloromethane	0.996	mg/kg	0.0024	ND

Sample ID: EXT1(0-2')
Lab#: AC78787-001
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Bromodichloromethane	0.996	mg/kg	0.0024	ND
Bromoform	0.996	mg/kg	0.0024	ND
Bromomethane	0.996	mg/kg	0.0024	ND
Carbon disulfide	0.996	mg/kg	0.0024	ND
Carbon tetrachloride	0.996	mg/kg	0.0024	ND
Chlorobenzene	0.996	mg/kg	0.0024	ND
Chloroethane	0.996	mg/kg	0.0024	ND
Chloroform	0.996	mg/kg	0.0024	ND
Chloromethane	0.996	mg/kg	0.0024	ND
cis-1,2-Dichloroethene	0.996	mg/kg	0.0024	ND
cis-1,3-Dichloropropene	0.996	mg/kg	0.0024	ND
Cyclohexane	0.996	mg/kg	0.0024	ND
Dibromochloromethane	0.996	mg/kg	0.0024	ND
Dichlorodifluoromethane	0.996	mg/kg	0.0024	ND
Ethylbenzene	0.996	mg/kg	0.0012	ND
Isopropylbenzene	0.996	mg/kg	0.0012	ND
m&p-Xylenes	0.996	mg/kg	0.0012	ND
Methyl Acetate	0.996	mg/kg	0.0024	ND
Methylcyclohexane	0.996	mg/kg	0.0024	ND
Methylene chloride	**0.996**	**mg/kg**	**0.0024**	**0.0034**
Methyl-t-butyl ether	0.996	mg/kg	0.0012	ND
o-Xylene	0.996	mg/kg	0.0012	ND
Styrene	0.996	mg/kg	0.0024	ND
Tetrachloroethene	0.996	mg/kg	0.0024	ND
Toluene	0.996	mg/kg	0.0012	ND
trans-1,2-Dichloroethene	0.996	mg/kg	0.0024	ND
trans-1,3-Dichloropropene	0.996	mg/kg	0.0024	ND
Trichloroethene	0.996	mg/kg	0.0024	ND
Trichlorofluoromethane	0.996	mg/kg	0.0024	ND
Vinyl chloride	0.996	mg/kg	0.0024	ND
Xylenes (Total)	0.996	mg/kg	0.0012	ND

Sample ID: EXT1(15-17')
Lab#: AC78787-002
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		87

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.096	4.0

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0057	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	**1**	**mg/kg**	**0.029**	**0.12**
delta-BHC	1	mg/kg	0.0057	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0057	ND
Endosulfan II	1	mg/kg	0.0057	ND
Endosulfan Sulfate	1	mg/kg	0.0057	ND
Endrin	1	mg/kg	0.0057	ND
Endrin Aldehyde	1	mg/kg	0.0057	ND
Endrin Ketone	1	mg/kg	0.0057	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0057	ND
Heptachlor Epoxide	1	mg/kg	0.0057	ND
Methoxychlor	1	mg/kg	0.0057	ND
p,p'-DDD	1	mg/kg	0.0029	ND
p,p'-DDE	1	mg/kg	0.0029	ND
p,p'-DDT	1	mg/kg	0.0029	ND
Toxaphene	1	mg/kg	0.029	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	50	mg/kg	1.9	ND
1,2,4,5-Tetrachlorobenzene	50	mg/kg	1.9	ND
2,3,4,6-Tetrachlorophenol	50	mg/kg	1.9	ND
2,4,5-Trichlorophenol	50	mg/kg	1.9	ND
2,4,6-Trichlorophenol	50	mg/kg	1.9	ND
2,4-Dichlorophenol	50	mg/kg	0.48	ND
2,4-Dimethylphenol	50	mg/kg	0.48	ND
2,4-Dinitrophenol	50	mg/kg	9.6	ND
2,4-Dinitrotoluene	50	mg/kg	1.9	ND
2,6-Dinitrotoluene	50	mg/kg	1.9	ND
2-Chloronaphthalene	50	mg/kg	1.9	ND

Sample ID: EXT1(15-17') **Collection Date: 5/20/2014**
Lab#: AC78787-002 **Receipt Date: 5/20/2014**
Matrix: Soil

2-Chlorophenol	50	mg/kg	1.9	ND
2-Methylnaphthalene	**50**	**mg/kg**	**1.9**	**3.2**
2-Methylphenol	50	mg/kg	0.48	ND
2-Nitroaniline	50	mg/kg	1.9	ND
2-Nitrophenol	50	mg/kg	1.9	ND
3&4-Methylphenol	50	mg/kg	0.48	ND
3,3'-Dichlorobenzidine	50	mg/kg	1.9	ND
3-Nitroaniline	50	mg/kg	1.9	ND
4,6-Dinitro-2-methylphenol	50	mg/kg	9.6	ND
4-Bromophenyl-phenylether	50	mg/kg	1.9	ND
4-Chloro-3-methylphenol	50	mg/kg	1.9	ND
4-Chloroaniline	50	mg/kg	0.91	ND
4-Chlorophenyl-phenylether	50	mg/kg	1.9	ND
4-Nitroaniline	50	mg/kg	1.9	ND
4-Nitrophenol	50	mg/kg	1.9	ND
Acenaphthene	**50**	**mg/kg**	**1.9**	**9.6**
Acenaphthylene	50	mg/kg	1.9	ND
Acetophenone	50	mg/kg	1.9	ND
Anthracene	**50**	**mg/kg**	**1.9**	**15**
Atrazine	50	mg/kg	1.9	ND
Benzaldehyde	50	mg/kg	1.9	ND
Benzo[a]anthracene	**50**	**mg/kg**	**1.9**	**27**
Benzo[a]pyrene	**50**	**mg/kg**	**1.9**	**21**
Benzo[b]fluoranthene	**50**	**mg/kg**	**1.9**	**29**
Benzo[g,h,i]perylene	**50**	**mg/kg**	**1.9**	**11**
Benzo[k]fluoranthene	**50**	**mg/kg**	**1.9**	**6.7**
bis(2-Chloroethoxy)methane	50	mg/kg	1.9	ND
bis(2-Chloroethyl)ether	50	mg/kg	0.48	ND
bis(2-Chloroisopropyl)ether	50	mg/kg	1.9	ND
bis(2-Ethylhexyl)phthalate	50	mg/kg	1.9	ND
Butylbenzylphthalate	50	mg/kg	1.9	ND
Caprolactam	50	mg/kg	1.9	ND
Carbazole	**50**	**mg/kg**	**1.9**	**5.8**
Chrysene	**50**	**mg/kg**	**1.9**	**22**
Dibenzo[a,h]anthracene	**50**	**mg/kg**	**1.9**	**2.7**
Dibenzofuran	**50**	**mg/kg**	**0.48**	**6.9**
Diethylphthalate	50	mg/kg	1.9	ND
Dimethylphthalate	50	mg/kg	1.9	ND
Di-n-butylphthalate	50	mg/kg	0.96	ND
Di-n-octylphthalate	50	mg/kg	1.9	ND
Fluoranthene	**50**	**mg/kg**	**1.9**	**65**
Fluorene	**50**	**mg/kg**	**1.9**	**6.7**
Hexachlorobenzene	50	mg/kg	1.9	ND
Hexachlorobutadiene	50	mg/kg	1.9	ND
Hexachlorocyclopentadiene	50	mg/kg	1.9	ND
Hexachloroethane	50	mg/kg	1.9	ND
Indeno[1,2,3-cd]pyrene	**50**	**mg/kg**	**1.9**	**10**
Isophorone	50	mg/kg	1.9	ND
Naphthalene	**50**	**mg/kg**	**0.48**	**7.1**
Nitrobenzene	50	mg/kg	1.9	ND
N-Nitroso-di-n-propylamine	50	mg/kg	0.48	ND
N-Nitrosodiphenylamine	50	mg/kg	1.9	ND
Pentachlorophenol	50	mg/kg	9.6	ND
Phenanthrene	**50**	**mg/kg**	**1.9**	**80**
Phenol	50	mg/kg	1.9	ND
Pyrene	**50**	**mg/kg**	**1.9**	**57**

Sample ID: EXT1(15-17')
Lab#: AC78787-002
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**230**	**5200**
Arsenic	**1**	**mg/kg**	**4.6**	**48**
Barium	**1**	**mg/kg**	**11**	**280**
Calcium	**1**	**mg/kg**	**1100**	**62000**
Chromium	**1**	**mg/kg**	**5.7**	**14**
Cobalt	**1**	**mg/kg**	**2.9**	**4.7**
Copper	**1**	**mg/kg**	**5.7**	**47**
Iron	**1**	**mg/kg**	**230**	**12000**
Lead	**1**	**mg/kg**	**5.7**	**660**
Magnesium	**1**	**mg/kg**	**570**	**6600**
Manganese	**1**	**mg/kg**	**11**	**430**
Nickel	**1**	**mg/kg**	**5.7**	**16**
Potassium	**1**	**mg/kg**	**570**	**950**
Sodium	1	mg/kg	290	ND
Thallium	1	mg/kg	1.7	ND
Vanadium	**1**	**mg/kg**	**11**	**22**
Zinc	**1**	**mg/kg**	**11**	**230**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.92	ND
Beryllium	1	mg/kg	0.23	ND
Cadmium	1	mg/kg	0.46	ND
Selenium	1	mg/kg	2.3	ND
Silver	1	mg/kg	0.23	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.998	mg/kg	0.0023	ND
1,1,2,2-Tetrachloroethane	0.998	mg/kg	0.0023	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.998	mg/kg	0.0023	ND
1,1,2-Trichloroethane	0.998	mg/kg	0.0023	ND
1,1-Dichloroethane	0.998	mg/kg	0.0023	ND
1,1-Dichloroethene	0.998	mg/kg	0.0023	ND
1,2,3-Trichlorobenzene	0.998	mg/kg	0.0023	ND
1,2,4-Trichlorobenzene	0.998	mg/kg	0.0023	ND
1,2-Dibromo-3-chloropropane	0.998	mg/kg	0.0023	ND
1,2-Dibromoethane	0.998	mg/kg	0.0023	ND
1,2-Dichlorobenzene	0.998	mg/kg	0.0023	ND
1,2-Dichloroethane	0.998	mg/kg	0.0023	ND
1,2-Dichloropropane	0.998	mg/kg	0.0023	ND
1,3-Dichlorobenzene	0.998	mg/kg	0.0023	ND
1,4-Dichlorobenzene	0.998	mg/kg	0.0023	ND
1,4-Dioxane	0.998	mg/kg	0.11	ND
2-Butanone	0.998	mg/kg	0.0023	ND
2-Hexanone	0.998	mg/kg	0.0023	ND
4-Methyl-2-pentanone	0.998	mg/kg	0.0023	ND
Acetone	0.998	mg/kg	0.011	ND
Benzene	0.998	mg/kg	0.0011	ND
Bromochloromethane	0.998	mg/kg	0.0023	ND
Bromodichloromethane	0.998	mg/kg	0.0023	ND
Bromoform	0.998	mg/kg	0.0023	ND
Bromomethane	0.998	mg/kg	0.0023	ND
Carbon disulfide	0.998	mg/kg	0.0023	ND
Carbon tetrachloride	0.998	mg/kg	0.0023	ND

Sample ID: EXT1(15-17')
Lab#: AC78787-002
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Chlorobenzene	0.998	mg/kg	0.0023	ND
Chloroethane	0.998	mg/kg	0.0023	ND
Chloroform	0.998	mg/kg	0.0023	ND
Chloromethane	0.998	mg/kg	0.0023	ND
cis-1,2-Dichloroethene	0.998	mg/kg	0.0023	ND
cis-1,3-Dichloropropene	0.998	mg/kg	0.0023	ND
Cyclohexane	0.998	mg/kg	0.0023	ND
Dibromochloromethane	0.998	mg/kg	0.0023	ND
Dichlorodifluoromethane	0.998	mg/kg	0.0023	ND
Ethylbenzene	0.998	mg/kg	0.0011	ND
Isopropylbenzene	0.998	mg/kg	0.0011	ND
m&p-Xylenes	0.998	mg/kg	0.0011	ND
Methyl Acetate	0.998	mg/kg	0.0023	ND
Methylcyclohexane	0.998	mg/kg	0.0023	ND
Methylene chloride	0.998	mg/kg	0.0023	ND
Methyl-t-butyl ether	0.998	mg/kg	0.0011	ND
o-Xylene	0.998	mg/kg	0.0011	ND
Styrene	0.998	mg/kg	0.0023	ND
Tetrachloroethene	0.998	mg/kg	0.0023	ND
Toluene	0.998	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.998	mg/kg	0.0023	ND
trans-1,3-Dichloropropene	0.998	mg/kg	0.0023	ND
Trichloroethene	0.998	mg/kg	0.0023	ND
Trichlorofluoromethane	0.998	mg/kg	0.0023	ND
Vinyl chloride	0.998	mg/kg	0.0023	ND
Xylenes (Total)	0.998	mg/kg	0.0011	ND

Sample ID: EXT 1 U
Lab#: AC78787-003
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	ug/l	0.010	ND
Alpha-BHC	1	ug/l	0.010	ND
beta-BHC	1	ug/l	0.010	ND
Chlordane	1	ug/l	0.10	ND
delta-BHC	1	ug/l	0.010	ND
Dieldrin	1	ug/l	0.010	ND
Endosulfan I	1	ug/l	0.010	ND
Endosulfan II	1	ug/l	0.010	ND
Endosulfan Sulfate	1	ug/l	0.010	ND
Endrin	1	ug/l	0.010	ND
Endrin Aldehyde	1	ug/l	0.010	ND
Endrin Ketone	1	ug/l	0.010	ND
gamma-BHC	1	ug/l	0.010	ND
Heptachlor	1	ug/l	0.010	ND
Heptachlor Epoxide	1	ug/l	0.010	ND
Methoxychlor	1	ug/l	0.010	ND
p,p'-DDD	1	ug/l	0.010	ND
p,p'-DDE	1	ug/l	0.010	ND
p,p'-DDT	1	ug/l	0.010	ND
Toxaphene	1	ug/l	0.25	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	2.0	ND
2,4-Dimethylphenol	1	ug/l	0.50	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND

Sample ID: EXT 1 U **Collection Date: 5/20/2014**
Lab#: AC78787-003 **Receipt Date: 5/20/2014**
Matrix: Aqueous

2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.50	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.50	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.50	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**ug/l**	**200**	**260000**
Barium	**1**	**ug/l**	**50**	**2700**

Sample ID: EXT 1 U **Collection Date: 5/20/2014**
Lab#: AC78787-003 **Receipt Date: 5/20/2014**
Matrix: Aqueous

Calcium	**1**	**ug/l**	**5000**	**86000**
Chromium	**1**	**ug/l**	**50**	**1100**
Copper	**1**	**ug/l**	**50**	**1000**
Iron	**2**	**ug/l**	**600**	**590000**
Magnesium	**1**	**ug/l**	**5000**	**250000**
Manganese	**1**	**ug/l**	**40**	**14000**
Nickel	**1**	**ug/l**	**50**	**2000**
Potassium	**2**	**ug/l**	**10000**	**79000**
Silver	1	ug/l	20	ND
Sodium	**2**	**ug/l**	**10000**	**41000**
Vanadium	**1**	**ug/l**	**50**	**700**
Zinc	**1**	**ug/l**	**50**	**2300**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.0	ND
Arsenic	**5**	**ug/l**	**10**	**6500**
Beryllium	**5**	**ug/l**	**5.0**	**16**
Cadmium	**1**	**ug/l**	**2.0**	**6.2**
Cobalt	**5**	**ug/l**	**10**	**390**
Lead	**1**	**ug/l**	**3.0**	**510**
Selenium	**1**	**ug/l**	**10**	**37**
Thallium	**1**	**ug/l**	**2.0**	**4.0**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	10	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	**1**	**ug/l**	**1.0**	**1.3**
Bromoform	**1**	**ug/l**	**1.0**	**2.2**
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	**1**	**ug/l**	**1.0**	**1.3**
Chloromethane	1	ug/l	1.0	ND

Sample ID: EXT 1 U
Lab#: AC78787-003
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	**1**	**ug/l**	**1.0**	**2.5**
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: EXT 1 F
Lab#: AC78787-004
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	1	ug/l	50	ND
Calcium	**1**	**ug/l**	**5000**	**16000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	ND
Magnesium	**1**	**ug/l**	**5000**	**6300**
Manganese	1	ug/l	40	ND
Nickel	1	ug/l	50	ND
Potassium	**1**	**ug/l**	**5000**	**5100**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**32000**
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**490**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID: FB052014 U
Lab#: AC78787-005
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	ug/l	0.010	ND
Alpha-BHC	1	ug/l	0.010	ND
beta-BHC	1	ug/l	0.010	ND
Chlordane	1	ug/l	0.10	ND
delta-BHC	1	ug/l	0.010	ND
Dieldrin	1	ug/l	0.010	ND
Endosulfan I	1	ug/l	0.010	ND
Endosulfan II	1	ug/l	0.010	ND
Endosulfan Sulfate	1	ug/l	0.010	ND
Endrin	1	ug/l	0.010	ND
Endrin Aldehyde	1	ug/l	0.010	ND
Endrin Ketone	1	ug/l	0.010	ND
gamma-BHC	1	ug/l	0.010	ND
Heptachlor	1	ug/l	0.010	ND
Heptachlor Epoxide	1	ug/l	0.010	ND
Methoxychlor	1	ug/l	0.010	ND
p,p'-DDD	1	ug/l	0.010	ND
p,p'-DDE	1	ug/l	0.010	ND
p,p'-DDT	1	ug/l	0.010	ND
Toxaphene	1	ug/l	0.25	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	2.0	ND
2,4-Dimethylphenol	1	ug/l	0.50	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND

Sample ID: FB052014 U **Collection Date: 5/20/2014**
Lab#: AC78787-005 **Receipt Date: 5/20/2014**
Matrix: Aqueous

2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.50	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.50	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.50	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	1	ug/l	50	ND

Sample ID: FB052014 U **Collection Date: 5/20/2014**
Lab#: AC78787-005 **Receipt Date: 5/20/2014**
Matrix: Aqueous

Calcium	1	ug/l	5000	ND
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	ND
Magnesium	1	ug/l	5000	ND
Manganese	1	ug/l	40	ND
Nickel	1	ug/l	50	ND
Potassium	1	ug/l	5000	ND
Silver	1	ug/l	20	ND
Sodium	1	ug/l	5000	ND
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	10	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND

Sample ID: FB052014 U
Lab#: AC78787-005
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: FB052014 F
Lab#: AC78787-006
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	1	ug/l	50	ND
Calcium	1	ug/l	5000	ND
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	ND
Magnesium	1	ug/l	5000	ND
Manganese	1	ug/l	40	ND
Nickel	1	ug/l	50	ND
Potassium	1	ug/l	5000	ND
Silver	1	ug/l	20	ND
Sodium	1	ug/l	5000	ND
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID: EXT 2(0-2')
Lab#: AC78787-007
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		83

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	20	mg/kg	2.0	90

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0060	ND
Alpha-BHC	1	mg/kg	0.0012	ND
beta-BHC	1	mg/kg	0.0012	ND
Chlordane	1	mg/kg	0.030	ND
delta-BHC	1	mg/kg	0.0060	ND
Dieldrin	1	mg/kg	0.0012	ND
Endosulfan I	1	mg/kg	0.0060	ND
Endosulfan II	1	mg/kg	0.0060	ND
Endosulfan Sulfate	1	mg/kg	0.0060	ND
Endrin	1	mg/kg	0.0060	ND
Endrin Aldehyde	1	mg/kg	0.0060	ND
Endrin Ketone	1	mg/kg	0.0060	ND
gamma-BHC	1	mg/kg	0.0012	ND
Heptachlor	1	mg/kg	0.0060	ND
Heptachlor Epoxide	1	mg/kg	0.0060	ND
Methoxychlor	1	mg/kg	0.0060	ND
p,p'-DDD	1	mg/kg	0.0030	ND
p,p'-DDE	1	mg/kg	0.0030	ND
p,p'-DDT	1	mg/kg	0.0030	ND
Toxaphene	1	mg/kg	0.030	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.040	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.040	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.040	ND
2,4,5-Trichlorophenol	1	mg/kg	0.040	ND
2,4,6-Trichlorophenol	1	mg/kg	0.040	ND
2,4-Dichlorophenol	1	mg/kg	0.010	ND
2,4-Dimethylphenol	1	mg/kg	0.010	ND
2,4-Dinitrophenol	1	mg/kg	0.20	ND
2,4-Dinitrotoluene	1	mg/kg	0.040	ND
2,6-Dinitrotoluene	1	mg/kg	0.040	ND
2-Chloronaphthalene	1	mg/kg	0.040	ND

Sample ID: EXT 2(0-2') **Collection Date: 5/20/2014**
Lab#: AC78787-007 **Receipt Date: 5/20/2014**
Matrix: Soil

2-Chlorophenol	1	mg/kg	0.040	ND
2-Methylnaphthalene	1	mg/kg	0.040	ND
2-Methylphenol	1	mg/kg	0.010	ND
2-Nitroaniline	1	mg/kg	0.040	ND
2-Nitrophenol	1	mg/kg	0.040	ND
3&4-Methylphenol	1	mg/kg	0.010	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.040	ND
3-Nitroaniline	1	mg/kg	0.040	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.20	ND
4-Bromophenyl-phenylether	1	mg/kg	0.040	ND
4-Chloro-3-methylphenol	1	mg/kg	0.040	ND
4-Chloroaniline	1	mg/kg	0.019	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.040	ND
4-Nitroaniline	1	mg/kg	0.040	ND
4-Nitrophenol	1	mg/kg	0.040	ND
Acenaphthene	**1**	**mg/kg**	**0.040**	**0.045**
Acenaphthylene	1	mg/kg	0.040	ND
Acetophenone	1	mg/kg	0.040	ND
Anthracene	**1**	**mg/kg**	**0.040**	**0.12**
Atrazine	1	mg/kg	0.040	ND
Benzaldehyde	1	mg/kg	0.040	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.040**	**0.58**
Benzo[a]pyrene	**1**	**mg/kg**	**0.040**	**0.50**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.040**	**0.70**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.040**	**0.31**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.040**	**0.22**
bis(2-Chloroethoxy)methane	1	mg/kg	0.040	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.010	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.040	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.040**	**0.047**
Butylbenzylphthalate	1	mg/kg	0.040	ND
Caprolactam	1	mg/kg	0.040	ND
Carbazole	**1**	**mg/kg**	**0.040**	**0.043**
Chrysene	**1**	**mg/kg**	**0.040**	**0.55**
Dibenzo[a,h]anthracene	**1**	**mg/kg**	**0.040**	**0.078**
Dibenzofuran	**1**	**mg/kg**	**0.010**	**0.025**
Diethylphthalate	1	mg/kg	0.040	ND
Dimethylphthalate	1	mg/kg	0.040	ND
Di-n-butylphthalate	1	mg/kg	0.020	ND
Di-n-octylphthalate	1	mg/kg	0.040	ND
Fluoranthene	**1**	**mg/kg**	**0.040**	**0.95**
Fluorene	1	mg/kg	0.040	ND
Hexachlorobenzene	1	mg/kg	0.040	ND
Hexachlorobutadiene	1	mg/kg	0.040	ND
Hexachlorocyclopentadiene	1	mg/kg	0.040	ND
Hexachloroethane	1	mg/kg	0.040	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.040**	**0.26**
Isophorone	1	mg/kg	0.040	ND
Naphthalene	**1**	**mg/kg**	**0.010**	**0.022**
Nitrobenzene	1	mg/kg	0.040	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.010	ND
N-Nitrosodiphenylamine	1	mg/kg	0.040	ND
Pentachlorophenol	1	mg/kg	0.20	ND
Phenanthrene	**1**	**mg/kg**	**0.040**	**0.57**
Phenol	1	mg/kg	0.040	ND
Pyrene	**1**	**mg/kg**	**0.040**	**0.99**

Sample ID: EXT 2(0-2')
Lab#: AC78787-007
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	mg/kg	240	3500
Arsenic	1	mg/kg	4.8	480
Barium	1	mg/kg	12	570
Calcium	1	mg/kg	1200	4400
Chromium	1	mg/kg	6.0	27
Cobalt	1	mg/kg	3.0	9.2
Copper	1	mg/kg	6.0	1200
Iron	1	mg/kg	240	14000
Lead	1	mg/kg	6.0	810
Magnesium	1	mg/kg	600	600
Manganese	1	mg/kg	12	120
Nickel	1	mg/kg	6.0	18
Potassium	1	mg/kg	600	ND
Sodium	1	mg/kg	300	ND
Thallium	1	mg/kg	1.8	ND
Vanadium	1	mg/kg	12	15
Zinc	1	mg/kg	12	200

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.96	0.97
Beryllium	1	mg/kg	0.24	0.43
Cadmium	1	mg/kg	0.48	ND
Selenium	1	mg/kg	2.4	2.7
Silver	1	mg/kg	0.24	0.25

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	mg/kg	0.0024	ND
1,1,2,2-Tetrachloroethane	1	mg/kg	0.0024	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	mg/kg	0.0024	ND
1,1,2-Trichloroethane	1	mg/kg	0.0024	ND
1,1-Dichloroethane	1	mg/kg	0.0024	ND
1,1-Dichloroethene	1	mg/kg	0.0024	ND
1,2,3-Trichlorobenzene	1	mg/kg	0.0024	ND
1,2,4-Trichlorobenzene	1	mg/kg	0.0024	ND
1,2-Dibromo-3-chloropropane	1	mg/kg	0.0024	ND
1,2-Dibromoethane	1	mg/kg	0.0024	ND
1,2-Dichlorobenzene	1	mg/kg	0.0024	ND
1,2-Dichloroethane	1	mg/kg	0.0024	ND
1,2-Dichloropropane	1	mg/kg	0.0024	ND
1,3-Dichlorobenzene	1	mg/kg	0.0024	ND
1,4-Dichlorobenzene	1	mg/kg	0.0024	ND
1,4-Dioxane	1	mg/kg	0.12	ND
2-Butanone	1	mg/kg	0.0024	ND
2-Hexanone	1	mg/kg	0.0024	ND
4-Methyl-2-pentanone	1	mg/kg	0.0024	ND
Acetone	1	mg/kg	0.012	ND
Benzene	1	mg/kg	0.0012	ND
Bromochloromethane	1	mg/kg	0.0024	ND
Bromodichloromethane	1	mg/kg	0.0024	ND
Bromoform	1	mg/kg	0.0024	ND
Bromomethane	1	mg/kg	0.0024	ND
Carbon disulfide	1	mg/kg	0.0024	ND
Carbon tetrachloride	1	mg/kg	0.0024	ND

Sample ID: EXT 2(0-2')
Lab#: AC78787-007
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Chlorobenzene	1	mg/kg	0.0024	ND
Chloroethane	1	mg/kg	0.0024	ND
Chloroform	1	mg/kg	0.0024	ND
Chloromethane	1	mg/kg	0.0024	ND
cis-1,2-Dichloroethene	1	mg/kg	0.0024	ND
cis-1,3-Dichloropropene	1	mg/kg	0.0024	ND
Cyclohexane	1	mg/kg	0.0024	ND
Dibromochloromethane	1	mg/kg	0.0024	ND
Dichlorodifluoromethane	1	mg/kg	0.0024	ND
Ethylbenzene	1	mg/kg	0.0012	ND
Isopropylbenzene	1	mg/kg	0.0012	ND
m&p-Xylenes	1	mg/kg	0.0012	ND
Methyl Acetate	1	mg/kg	0.0024	ND
Methylcyclohexane	1	mg/kg	0.0024	ND
Methylene chloride	**1**	**mg/kg**	**0.0024**	**0.0045**
Methyl-t-butyl ether	1	mg/kg	0.0012	ND
o-Xylene	1	mg/kg	0.0012	ND
Styrene	1	mg/kg	0.0024	ND
Tetrachloroethene	1	mg/kg	0.0024	ND
Toluene	1	mg/kg	0.0012	ND
trans-1,2-Dichloroethene	1	mg/kg	0.0024	ND
trans-1,3-Dichloropropene	1	mg/kg	0.0024	ND
Trichloroethene	1	mg/kg	0.0024	ND
Trichlorofluoromethane	1	mg/kg	0.0024	ND
Vinyl chloride	1	mg/kg	0.0024	ND
Xylenes (Total)	1	mg/kg	0.0012	ND

Sample ID: EXT 2(15-17')
Lab#: AC78787-008
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		95

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.088	0.90

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0053	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.026	ND
delta-BHC	1	mg/kg	0.0053	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0053	ND
Endosulfan II	1	mg/kg	0.0053	ND
Endosulfan Sulfate	1	mg/kg	0.0053	ND
Endrin	1	mg/kg	0.0053	ND
Endrin Aldehyde	1	mg/kg	0.0053	ND
Endrin Ketone	1	mg/kg	0.0053	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0053	ND
Heptachlor Epoxide	1	mg/kg	0.0053	ND
Methoxychlor	1	mg/kg	0.0053	ND
p,p'-DDD	1	mg/kg	0.0026	ND
p,p'-DDE	1	mg/kg	0.0026	ND
p,p'-DDT	1	mg/kg	0.0026	ND
Toxaphene	1	mg/kg	0.026	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	ND
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	ND
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	ND
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.035	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.035	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.035	ND
2,4,5-Trichlorophenol	1	mg/kg	0.035	ND
2,4,6-Trichlorophenol	1	mg/kg	0.035	ND
2,4-Dichlorophenol	1	mg/kg	0.0088	ND
2,4-Dimethylphenol	1	mg/kg	0.0088	ND
2,4-Dinitrophenol	1	mg/kg	0.18	ND
2,4-Dinitrotoluene	1	mg/kg	0.035	ND
2,6-Dinitrotoluene	1	mg/kg	0.035	ND
2-Chloronaphthalene	1	mg/kg	0.035	ND

Sample ID: EXT 2(15-17')
Lab#: AC78787-008
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

2-Chlorophenol	1	mg/kg	0.035	ND
2-Methylnaphthalene	1	mg/kg	0.035	ND
2-Methylphenol	1	mg/kg	0.0088	ND
2-Nitroaniline	1	mg/kg	0.035	ND
2-Nitrophenol	1	mg/kg	0.035	ND
3&4-Methylphenol	1	mg/kg	0.0088	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.035	ND
3-Nitroaniline	1	mg/kg	0.035	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.18	ND
4-Bromophenyl-phenylether	1	mg/kg	0.035	ND
4-Chloro-3-methylphenol	1	mg/kg	0.035	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.035	ND
4-Nitroaniline	1	mg/kg	0.035	ND
4-Nitrophenol	1	mg/kg	0.035	ND
Acenaphthene	1	mg/kg	0.035	ND
Acenaphthylene	1	mg/kg	0.035	ND
Acetophenone	1	mg/kg	0.035	ND
Anthracene	1	mg/kg	0.035	ND
Atrazine	1	mg/kg	0.035	ND
Benzaldehyde	1	mg/kg	0.035	ND
Benzo[a]anthracene	1	mg/kg	0.035	ND
Benzo[a]pyrene	1	mg/kg	0.035	ND
Benzo[b]fluoranthene	1	mg/kg	0.035	ND
Benzo[g,h,i]perylene	1	mg/kg	0.035	ND
Benzo[k]fluoranthene	1	mg/kg	0.035	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.035	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0088	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.035	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.035**	**0.042**
Butylbenzylphthalate	1	mg/kg	0.035	ND
Caprolactam	1	mg/kg	0.035	ND
Carbazole	1	mg/kg	0.035	ND
Chrysene	1	mg/kg	0.035	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.035	ND
Dibenzofuran	1	mg/kg	0.0088	ND
Diethylphthalate	1	mg/kg	0.035	ND
Dimethylphthalate	1	mg/kg	0.035	ND
Di-n-butylphthalate	1	mg/kg	0.018	ND
Di-n-octylphthalate	1	mg/kg	0.035	ND
Fluoranthene	**1**	**mg/kg**	**0.035**	**0.058**
Fluorene	1	mg/kg	0.035	ND
Hexachlorobenzene	1	mg/kg	0.035	ND
Hexachlorobutadiene	1	mg/kg	0.035	ND
Hexachlorocyclopentadiene	1	mg/kg	0.035	ND
Hexachloroethane	1	mg/kg	0.035	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.035	ND
Isophorone	1	mg/kg	0.035	ND
Naphthalene	1	mg/kg	0.0088	ND
Nitrobenzene	1	mg/kg	0.035	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0088	ND
N-Nitrosodiphenylamine	1	mg/kg	0.035	ND
Pentachlorophenol	1	mg/kg	0.18	ND
Phenanthrene	**1**	**mg/kg**	**0.035**	**0.045**
Phenol	1	mg/kg	0.035	ND
Pyrene	**1**	**mg/kg**	**0.035**	**0.058**

Sample ID: EXT 2(15-17')
Lab#: AC78787-008
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**210**	**5000**
Arsenic	**1**	**mg/kg**	**4.2**	**6.7**
Barium	**1**	**mg/kg**	**11**	**45**
Calcium	**1**	**mg/kg**	**1100**	**2900**
Chromium	**1**	**mg/kg**	**5.3**	**16**
Cobalt	**1**	**mg/kg**	**2.6**	**6.6**
Copper	**1**	**mg/kg**	**5.3**	**17**
Iron	**1**	**mg/kg**	**210**	**11000**
Lead	**1**	**mg/kg**	**5.3**	**24**
Magnesium	**1**	**mg/kg**	**530**	**2700**
Manganese	**1**	**mg/kg**	**11**	**220**
Nickel	**1**	**mg/kg**	**5.3**	**39**
Potassium	**1**	**mg/kg**	**530**	**930**
Sodium	1	mg/kg	260	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**19**
Zinc	**1**	**mg/kg**	**11**	**38**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.84	ND
Beryllium	1	mg/kg	0.21	ND
Cadmium	1	mg/kg	0.42	ND
Selenium	1	mg/kg	2.1	ND
Silver	1	mg/kg	0.21	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	mg/kg	0.0021	ND
1,1,2,2-Tetrachloroethane	1	mg/kg	0.0021	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	mg/kg	0.0021	ND
1,1,2-Trichloroethane	1	mg/kg	0.0021	ND
1,1-Dichloroethane	1	mg/kg	0.0021	ND
1,1-Dichloroethene	1	mg/kg	0.0021	ND
1,2,3-Trichlorobenzene	1	mg/kg	0.0021	ND
1,2,4-Trichlorobenzene	1	mg/kg	0.0021	ND
1,2-Dibromo-3-chloropropane	1	mg/kg	0.0021	ND
1,2-Dibromoethane	1	mg/kg	0.0021	ND
1,2-Dichlorobenzene	1	mg/kg	0.0021	ND
1,2-Dichloroethane	1	mg/kg	0.0021	ND
1,2-Dichloropropane	1	mg/kg	0.0021	ND
1,3-Dichlorobenzene	1	mg/kg	0.0021	ND
1,4-Dichlorobenzene	1	mg/kg	0.0021	ND
1,4-Dioxane	1	mg/kg	0.11	ND
2-Butanone	1	mg/kg	0.0021	ND
2-Hexanone	1	mg/kg	0.0021	ND
4-Methyl-2-pentanone	1	mg/kg	0.0021	ND
Acetone	1	mg/kg	0.011	ND
Benzene	1	mg/kg	0.0011	ND
Bromochloromethane	1	mg/kg	0.0021	ND
Bromodichloromethane	1	mg/kg	0.0021	ND
Bromoform	1	mg/kg	0.0021	ND
Bromomethane	1	mg/kg	0.0021	ND
Carbon disulfide	1	mg/kg	0.0021	ND
Carbon tetrachloride	1	mg/kg	0.0021	ND

Sample ID: EXT 2(15-17') **Collection Date: 5/20/2014**
Lab#: AC78787-008 **Receipt Date: 5/20/2014**
Matrix: Soil

Chlorobenzene	1	mg/kg	0.0021	ND
Chloroethane	1	mg/kg	0.0021	ND
Chloroform	1	mg/kg	0.0021	ND
Chloromethane	1	mg/kg	0.0021	ND
cis-1,2-Dichloroethene	1	mg/kg	0.0021	ND
cis-1,3-Dichloropropene	1	mg/kg	0.0021	ND
Cyclohexane	1	mg/kg	0.0021	ND
Dibromochloromethane	1	mg/kg	0.0021	ND
Dichlorodifluoromethane	1	mg/kg	0.0021	ND
Ethylbenzene	1	mg/kg	0.0011	ND
Isopropylbenzene	1	mg/kg	0.0011	ND
m&p-Xylenes	1	mg/kg	0.0011	ND
Methyl Acetate	1	mg/kg	0.0021	ND
Methylcyclohexane	1	mg/kg	0.0021	ND
Methylene chloride	1	mg/kg	0.0021	ND
Methyl-t-butyl ether	1	mg/kg	0.0011	ND
o-Xylene	1	mg/kg	0.0011	ND
Styrene	1	mg/kg	0.0021	ND
Tetrachloroethene	1	mg/kg	0.0021	ND
Toluene	1	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	1	mg/kg	0.0021	ND
trans-1,3-Dichloropropene	1	mg/kg	0.0021	ND
Trichloroethene	1	mg/kg	0.0021	ND
Trichlorofluoromethane	1	mg/kg	0.0021	ND
Vinyl chloride	1	mg/kg	0.0021	ND
Xylenes (Total)	1	mg/kg	0.0011	ND

Sample ID: DUP052014 U
Lab#: AC78787-009
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	14

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	ug/l	0.010	ND
Alpha-BHC	1	ug/l	0.010	ND
beta-BHC	1	ug/l	0.010	ND
Chlordane	1	ug/l	0.10	ND
delta-BHC	1	ug/l	0.010	ND
Dieldrin	1	ug/l	0.010	ND
Endosulfan I	1	ug/l	0.010	ND
Endosulfan II	1	ug/l	0.010	ND
Endosulfan Sulfate	1	ug/l	0.010	ND
Endrin	1	ug/l	0.010	ND
Endrin Aldehyde	1	ug/l	0.010	ND
Endrin Ketone	1	ug/l	0.010	ND
gamma-BHC	1	ug/l	0.010	ND
Heptachlor	1	ug/l	0.010	ND
Heptachlor Epoxide	1	ug/l	0.010	ND
Methoxychlor	1	ug/l	0.010	ND
p,p'-DDD	1	ug/l	0.010	ND
p,p'-DDE	1	ug/l	0.010	ND
p,p'-DDT	1	ug/l	0.010	ND
Toxaphene	1	ug/l	0.25	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	2.0	ND
2,4-Dimethylphenol	1	ug/l	0.50	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND

Sample ID: DUP052014 U **Collection Date: 5/20/2014**
Lab#: AC78787-009 **Receipt Date: 5/20/2014**
Matrix: Aqueous

2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.50	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.50	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.50	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**ug/l**	**200**	**48000**
Barium	**1**	**ug/l**	**50**	**880**

Sample ID: DUP052014 U
Lab#: AC78787-009
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Calcium	**1**	**ug/l**	**5000**	**63000**
Chromium	**1**	**ug/l**	**50**	**190**
Copper	**1**	**ug/l**	**50**	**170**
Iron	**1**	**ug/l**	**300**	**100000**
Magnesium	**1**	**ug/l**	**5000**	**69000**
Manganese	**1**	**ug/l**	**40**	**4600**
Nickel	**1**	**ug/l**	**50**	**840**
Potassium	**1**	**ug/l**	**5000**	**19000**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**20000**
Vanadium	**1**	**ug/l**	**50**	**160**
Zinc	**1**	**ug/l**	**50**	**460**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**2800**
Beryllium	**1**	**ug/l**	**1.0**	**2.5**
Cadmium	1	ug/l	2.0	ND
Cobalt	**1**	**ug/l**	**2.0**	**100**
Lead	**1**	**ug/l**	**3.0**	**710**
Selenium	**1**	**ug/l**	**10**	**23**
Thallium	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	10	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND

Sample ID: DUP052014 U
Lab#: AC78787-009
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: DUP052014 F
Lab#: AC78787-010
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	1	ug/l	50	ND
Calcium	**1**	**ug/l**	**5000**	**29000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	ND
Magnesium	**1**	**ug/l**	**5000**	**9100**
Manganese	1	ug/l	40	ND
Nickel	1	ug/l	50	ND
Potassium	**1**	**ug/l**	**5000**	**6700**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**19000**
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**1400**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	**1**	**ug/l**	**10**	**17**
Thallium	1	ug/l	2.0	ND

Sample ID: EXT 2 U
Lab#: AC78787-011
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	10	ug/l	7.0	250

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	ug/l	0.010	ND
Alpha-BHC	1	ug/l	0.010	ND
beta-BHC	1	ug/l	0.010	ND
Chlordane	1	ug/l	0.10	ND
delta-BHC	1	ug/l	0.010	ND
Dieldrin	1	ug/l	0.010	ND
Endosulfan I	1	ug/l	0.010	ND
Endosulfan II	1	ug/l	0.010	ND
Endosulfan Sulfate	1	ug/l	0.010	ND
Endrin	1	ug/l	0.010	ND
Endrin Aldehyde	1	ug/l	0.010	ND
Endrin Ketone	1	ug/l	0.010	ND
gamma-BHC	1	ug/l	0.010	ND
Heptachlor	1	ug/l	0.010	ND
Heptachlor Epoxide	1	ug/l	0.010	ND
Methoxychlor	1	ug/l	0.010	ND
p,p'-DDD	1	ug/l	0.010	ND
p,p'-DDE	1	ug/l	0.010	ND
p,p'-DDT	1	ug/l	0.010	ND
Toxaphene	1	ug/l	0.25	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	2.0	ND
2,4-Dimethylphenol	1	ug/l	0.50	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND

Sample ID: EXT 2 U **Collection Date: 5/20/2014**
Lab#: AC78787-011 **Receipt Date: 5/20/2014**
Matrix: Aqueous

2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.50	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.50	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.50	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**2**	**ug/l**	**400**	**470000**
Barium	**2**	**ug/l**	**100**	**11000**

Sample ID: EXT 2 U **Collection Date: 5/20/2014**
Lab#: AC78787-011 **Receipt Date: 5/20/2014**
Matrix: Aqueous

Calcium	2	ug/l	10000	450000
Chromium	2	ug/l	100	1400
Copper	2	ug/l	100	1800
Iron	4	ug/l	1200	1100000
Magnesium	2	ug/l	10000	720000
Manganese	2	ug/l	80	40000
Nickel	2	ug/l	100	8500
Potassium	2	ug/l	10000	130000
Silver	2	ug/l	40	ND
Sodium	2	ug/l	10000	25000
Vanadium	2	ug/l	100	1500
Zinc	2	ug/l	100	4900

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.0	ND
Arsenic	5	ug/l	10	13000
Beryllium	5	ug/l	5.0	23
Cadmium	1	ug/l	2.0	17
Cobalt	5	ug/l	10	1100
Lead	5	ug/l	15	11000
Selenium	1	ug/l	10	87
Thallium	1	ug/l	2.0	8.1

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	10	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND

Sample ID: EXT 2 U
Lab#: AC78787-011
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: EXT 2 F
Lab#: AC78787-012
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	1	ug/l	50	ND
Calcium	**1**	**ug/l**	**5000**	**31000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	ND
Magnesium	**1**	**ug/l**	**5000**	**9500**
Manganese	1	ug/l	40	ND
Nickel	1	ug/l	50	ND
Potassium	**1**	**ug/l**	**5000**	**7600**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**18000**
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**600**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	**1**	**ug/l**	**10**	**23**
Thallium	1	ug/l	2.0	ND

Sample ID: TB
Lab#: AC78787-013
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	10	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: EXT 3(0-2')
Lab#: AC78787-014
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	2	mg/kg	0.18	7.1

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0055	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND
delta-BHC	1	mg/kg	0.0055	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0055	ND
Endosulfan II	1	mg/kg	0.0055	ND
Endosulfan Sulfate	1	mg/kg	0.0055	ND
Endrin	1	mg/kg	0.0055	ND
Endrin Aldehyde	1	mg/kg	0.0055	ND
Endrin Ketone	1	mg/kg	0.0055	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0055	ND
Heptachlor Epoxide	1	mg/kg	0.0055	ND
Methoxychlor	1	mg/kg	0.0055	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	1	mg/kg	0.0027	ND
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.037	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.037	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.037	ND
2,4,5-Trichlorophenol	1	mg/kg	0.037	ND
2,4,6-Trichlorophenol	1	mg/kg	0.037	ND
2,4-Dichlorophenol	1	mg/kg	0.0092	ND
2,4-Dimethylphenol	1	mg/kg	0.0092	ND
2,4-Dinitrophenol	1	mg/kg	0.18	ND
2,4-Dinitrotoluene	1	mg/kg	0.037	ND
2,6-Dinitrotoluene	1	mg/kg	0.037	ND
2-Chloronaphthalene	1	mg/kg	0.037	ND

Sample ID: EXT 3(0-2') **Collection Date: 5/20/2014**
Lab#: AC78787-014 **Receipt Date: 5/20/2014**
Matrix: Soil

2-Chlorophenol	1	mg/kg	0.037	ND
2-Methylnaphthalene	1	mg/kg	0.037	ND
2-Methylphenol	1	mg/kg	0.0092	ND
2-Nitroaniline	1	mg/kg	0.037	ND
2-Nitrophenol	1	mg/kg	0.037	ND
3&4-Methylphenol	1	mg/kg	0.0092	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.037	ND
3-Nitroaniline	1	mg/kg	0.037	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.18	ND
4-Bromophenyl-phenylether	1	mg/kg	0.037	ND
4-Chloro-3-methylphenol	1	mg/kg	0.037	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.037	ND
4-Nitroaniline	1	mg/kg	0.037	ND
4-Nitrophenol	1	mg/kg	0.037	ND
Acenaphthene	**1**	**mg/kg**	**0.037**	**0.12**
Acenaphthylene	1	mg/kg	0.037	ND
Acetophenone	1	mg/kg	0.037	ND
Anthracene	**1**	**mg/kg**	**0.037**	**0.30**
Atrazine	1	mg/kg	0.037	ND
Benzaldehyde	1	mg/kg	0.037	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.037**	**0.96**
Benzo[a]pyrene	**1**	**mg/kg**	**0.037**	**0.81**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.037**	**0.99**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.037**	**0.51**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.037**	**0.32**
bis(2-Chloroethoxy)methane	1	mg/kg	0.037	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0092	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.037	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.037**	**0.042**
Butylbenzylphthalate	1	mg/kg	0.037	ND
Caprolactam	1	mg/kg	0.037	ND
Carbazole	**1**	**mg/kg**	**0.037**	**0.10**
Chrysene	**1**	**mg/kg**	**0.037**	**0.83**
Dibenzo[a,h]anthracene	**1**	**mg/kg**	**0.037**	**0.15**
Dibenzofuran	**1**	**mg/kg**	**0.0092**	**0.062**
Diethylphthalate	1	mg/kg	0.037	ND
Dimethylphthalate	1	mg/kg	0.037	ND
Di-n-butylphthalate	1	mg/kg	0.018	ND
Di-n-octylphthalate	1	mg/kg	0.037	ND
Fluoranthene	**1**	**mg/kg**	**0.037**	**1.5**
Fluorene	**1**	**mg/kg**	**0.037**	**0.081**
Hexachlorobenzene	1	mg/kg	0.037	ND
Hexachlorobutadiene	1	mg/kg	0.037	ND
Hexachlorocyclopentadiene	1	mg/kg	0.037	ND
Hexachloroethane	1	mg/kg	0.037	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.037**	**0.46**
Isophorone	1	mg/kg	0.037	ND
Naphthalene	**1**	**mg/kg**	**0.0092**	**0.034**
Nitrobenzene	1	mg/kg	0.037	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0092	ND
N-Nitrosodiphenylamine	1	mg/kg	0.037	ND
Pentachlorophenol	1	mg/kg	0.18	ND
Phenanthrene	**1**	**mg/kg**	**0.037**	**1.4**
Phenol	1	mg/kg	0.037	ND
Pyrene	**1**	**mg/kg**	**0.037**	**1.7**

Sample ID: EXT 3(0-2')
Lab#: AC78787-014
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**220**	**5400**
Arsenic	**1**	**mg/kg**	**4.4**	**20**
Barium	**1**	**mg/kg**	**11**	**88**
Calcium	**1**	**mg/kg**	**1100**	**13000**
Chromium	**1**	**mg/kg**	**5.5**	**12**
Cobalt	**1**	**mg/kg**	**2.7**	**5.2**
Copper	**1**	**mg/kg**	**5.5**	**34**
Iron	**1**	**mg/kg**	**220**	**11000**
Lead	**1**	**mg/kg**	**5.5**	**160**
Magnesium	**1**	**mg/kg**	**550**	**3400**
Manganese	**1**	**mg/kg**	**11**	**180**
Nickel	**1**	**mg/kg**	**5.5**	**23**
Potassium	**1**	**mg/kg**	**550**	**1100**
Sodium	1	mg/kg	270	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**18**
Zinc	**1**	**mg/kg**	**11**	**71**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	**1**	**mg/kg**	**0.88**	**0.97**
Beryllium	**1**	**mg/kg**	**0.22**	**0.24**
Cadmium	1	mg/kg	0.44	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.996	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.996	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.996	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.996	mg/kg	0.0022	ND
1,1-Dichloroethane	0.996	mg/kg	0.0022	ND
1,1-Dichloroethene	0.996	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.996	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.996	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.996	mg/kg	0.0022	ND
1,2-Dibromoethane	0.996	mg/kg	0.0022	ND
1,2-Dichlorobenzene	0.996	mg/kg	0.0022	ND
1,2-Dichloroethane	0.996	mg/kg	0.0022	ND
1,2-Dichloropropane	0.996	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.996	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.996	mg/kg	0.0022	ND
1,4-Dioxane	0.996	mg/kg	0.11	ND
2-Butanone	0.996	mg/kg	0.0022	ND
2-Hexanone	0.996	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.996	mg/kg	0.0022	ND
Acetone	0.996	mg/kg	0.011	ND
Benzene	0.996	mg/kg	0.0011	ND
Bromochloromethane	0.996	mg/kg	0.0022	ND
Bromodichloromethane	0.996	mg/kg	0.0022	ND
Bromoform	0.996	mg/kg	0.0022	ND
Bromomethane	0.996	mg/kg	0.0022	ND
Carbon disulfide	0.996	mg/kg	0.0022	ND
Carbon tetrachloride	0.996	mg/kg	0.0022	ND

Sample ID: EXT 3(0-2')
Lab#: AC78787-014
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Chlorobenzene	0.996	mg/kg	0.0022	ND
Chloroethane	0.996	mg/kg	0.0022	ND
Chloroform	0.996	mg/kg	0.0022	ND
Chloromethane	0.996	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.996	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.996	mg/kg	0.0022	ND
Cyclohexane	0.996	mg/kg	0.0022	ND
Dibromochloromethane	0.996	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.996	mg/kg	0.0022	ND
Ethylbenzene	0.996	mg/kg	0.0011	ND
Isopropylbenzene	0.996	mg/kg	0.0011	ND
m&p-Xylenes	0.996	mg/kg	0.0011	ND
Methyl Acetate	0.996	mg/kg	0.0022	ND
Methylcyclohexane	0.996	mg/kg	0.0022	ND
Methylene chloride	0.996	mg/kg	0.0022	ND
Methyl-t-butyl ether	0.996	mg/kg	0.0011	ND
o-Xylene	0.996	mg/kg	0.0011	ND
Styrene	0.996	mg/kg	0.0022	ND
Tetrachloroethene	0.996	mg/kg	0.0022	ND
Toluene	0.996	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.996	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.996	mg/kg	0.0022	ND
Trichloroethene	0.996	mg/kg	0.0022	ND
Trichlorofluoromethane	0.996	mg/kg	0.0022	ND
Vinyl chloride	0.996	mg/kg	0.0022	ND
Xylenes (Total)	0.996	mg/kg	0.0011	ND

Sample ID: EXT 3(15-17')
Lab#: AC78787-015
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		89

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	2	mg/kg	0.19	5.1

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0056	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.028	ND
delta-BHC	1	mg/kg	0.0056	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0056	ND
Endosulfan II	1	mg/kg	0.0056	ND
Endosulfan Sulfate	1	mg/kg	0.0056	ND
Endrin	1	mg/kg	0.0056	ND
Endrin Aldehyde	1	mg/kg	0.0056	ND
Endrin Ketone	1	mg/kg	0.0056	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0056	ND
Heptachlor Epoxide	1	mg/kg	0.0056	ND
Methoxychlor	1	mg/kg	0.0056	ND
p,p'-DDD	1	mg/kg	0.0028	ND
p,p'-DDE	1	mg/kg	0.0028	ND
p,p'-DDT	1	mg/kg	0.0028	ND
Toxaphene	1	mg/kg	0.028	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.037	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.037	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.037	ND
2,4,5-Trichlorophenol	1	mg/kg	0.037	ND
2,4,6-Trichlorophenol	1	mg/kg	0.037	ND
2,4-Dichlorophenol	1	mg/kg	0.0094	ND
2,4-Dimethylphenol	1	mg/kg	0.0094	ND
2,4-Dinitrophenol	1	mg/kg	0.19	ND
2,4-Dinitrotoluene	1	mg/kg	0.037	ND
2,6-Dinitrotoluene	1	mg/kg	0.037	ND
2-Chloronaphthalene	1	mg/kg	0.037	ND

Sample ID: EXT 3(15-17')
Lab#: AC78787-015
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

2-Chlorophenol	1	mg/kg	0.037	ND
2-Methylnaphthalene	**1**	**mg/kg**	**0.037**	**0.049**
2-Methylphenol	1	mg/kg	0.0094	ND
2-Nitroaniline	1	mg/kg	0.037	ND
2-Nitrophenol	1	mg/kg	0.037	ND
3&4-Methylphenol	1	mg/kg	0.0094	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.037	ND
3-Nitroaniline	1	mg/kg	0.037	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.19	ND
4-Bromophenyl-phenylether	1	mg/kg	0.037	ND
4-Chloro-3-methylphenol	1	mg/kg	0.037	ND
4-Chloroaniline	1	mg/kg	0.018	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.037	ND
4-Nitroaniline	1	mg/kg	0.037	ND
4-Nitrophenol	1	mg/kg	0.037	ND
Acenaphthene	**1**	**mg/kg**	**0.037**	**0.25**
Acenaphthylene	**1**	**mg/kg**	**0.037**	**0.082**
Acetophenone	1	mg/kg	0.037	ND
Anthracene	**1**	**mg/kg**	**0.037**	**0.53**
Atrazine	1	mg/kg	0.037	ND
Benzaldehyde	1	mg/kg	0.037	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.037**	**1.5**
Benzo[a]pyrene	**1**	**mg/kg**	**0.037**	**1.3**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.037**	**1.5**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.037**	**0.82**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.037**	**0.58**
bis(2-Chloroethoxy)methane	1	mg/kg	0.037	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0094	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.037	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.037**	**0.43**
Butylbenzylphthalate	1	mg/kg	0.037	ND
Caprolactam	1	mg/kg	0.037	ND
Carbazole	**1**	**mg/kg**	**0.037**	**0.13**
Chrysene	**1**	**mg/kg**	**0.037**	**1.2**
Dibenzo[a,h]anthracene	**1**	**mg/kg**	**0.037**	**0.21**
Dibenzofuran	**1**	**mg/kg**	**0.0094**	**0.090**
Diethylphthalate	1	mg/kg	0.037	ND
Dimethylphthalate	1	mg/kg	0.037	ND
Di-n-butylphthalate	1	mg/kg	0.019	ND
Di-n-octylphthalate	1	mg/kg	0.037	ND
Fluoranthene	**1**	**mg/kg**	**0.037**	**2.8**
Fluorene	**1**	**mg/kg**	**0.037**	**0.17**
Hexachlorobenzene	1	mg/kg	0.037	ND
Hexachlorobutadiene	1	mg/kg	0.037	ND
Hexachlorocyclopentadiene	1	mg/kg	0.037	ND
Hexachloroethane	1	mg/kg	0.037	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.037**	**0.71**
Isophorone	1	mg/kg	0.037	ND
Naphthalene	**1**	**mg/kg**	**0.0094**	**0.073**
Nitrobenzene	1	mg/kg	0.037	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0094	ND
N-Nitrosodiphenylamine	1	mg/kg	0.037	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	**1**	**mg/kg**	**0.037**	**2.7**
Phenol	1	mg/kg	0.037	ND
Pyrene	**1**	**mg/kg**	**0.037**	**3.0**

Sample ID: EXT 3(15-17')
Lab#: AC78787-015
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	mg/kg	220	6100
Arsenic	1	mg/kg	4.5	14
Barium	1	mg/kg	11	80
Calcium	1	mg/kg	1100	25000
Chromium	1	mg/kg	5.6	21
Cobalt	1	mg/kg	2.8	4.5
Copper	1	mg/kg	5.6	21
Iron	1	mg/kg	220	9900
Lead	1	mg/kg	5.6	250
Magnesium	1	mg/kg	560	4400
Manganese	1	mg/kg	11	270
Nickel	1	mg/kg	5.6	23
Potassium	1	mg/kg	560	830
Sodium	1	mg/kg	280	380
Thallium	1	mg/kg	1.7	ND
Vanadium	1	mg/kg	11	16
Zinc	1	mg/kg	11	64

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.90	ND
Beryllium	1	mg/kg	0.22	ND
Cadmium	1	mg/kg	0.45	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.998	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.998	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.998	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.998	mg/kg	0.0022	ND
1,1-Dichloroethane	0.998	mg/kg	0.0022	ND
1,1-Dichloroethene	0.998	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.998	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.998	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.998	mg/kg	0.0022	ND
1,2-Dibromoethane	0.998	mg/kg	0.0022	ND
1,2-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,2-Dichloroethane	0.998	mg/kg	0.0022	ND
1,2-Dichloropropane	0.998	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,4-Dioxane	0.998	mg/kg	0.11	ND
2-Butanone	0.998	mg/kg	0.0022	ND
2-Hexanone	0.998	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.998	mg/kg	0.0022	ND
Acetone	0.998	mg/kg	0.011	ND
Benzene	0.998	mg/kg	0.0011	ND
Bromochloromethane	0.998	mg/kg	0.0022	ND
Bromodichloromethane	0.998	mg/kg	0.0022	ND
Bromoform	0.998	mg/kg	0.0022	ND
Bromomethane	0.998	mg/kg	0.0022	ND
Carbon disulfide	0.998	mg/kg	0.0022	ND
Carbon tetrachloride	0.998	mg/kg	0.0022	ND

Sample ID: EXT 3(15-17')
Lab#: AC78787-015
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Chlorobenzene	0.998	mg/kg	0.0022	ND
Chloroethane	0.998	mg/kg	0.0022	ND
Chloroform	0.998	mg/kg	0.0022	ND
Chloromethane	0.998	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.998	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.998	mg/kg	0.0022	ND
Cyclohexane	0.998	mg/kg	0.0022	ND
Dibromochloromethane	0.998	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.998	mg/kg	0.0022	ND
Ethylbenzene	0.998	mg/kg	0.0011	ND
Isopropylbenzene	0.998	mg/kg	0.0011	ND
m&p-Xylenes	0.998	mg/kg	0.0011	ND
Methyl Acetate	0.998	mg/kg	0.0022	ND
Methylcyclohexane	0.998	mg/kg	0.0022	ND
Methylene chloride	**0.998**	**mg/kg**	**0.0022**	**0.0031**
Methyl-t-butyl ether	0.998	mg/kg	0.0011	ND
o-Xylene	0.998	mg/kg	0.0011	ND
Styrene	0.998	mg/kg	0.0022	ND
Tetrachloroethene	0.998	mg/kg	0.0022	ND
Toluene	0.998	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.998	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.998	mg/kg	0.0022	ND
Trichloroethene	0.998	mg/kg	0.0022	ND
Trichlorofluoromethane	0.998	mg/kg	0.0022	ND
Vinyl chloride	0.998	mg/kg	0.0022	ND
Xylenes (Total)	0.998	mg/kg	0.0011	ND

Sample ID: EXT 3 U
Lab#: AC78787-016
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	**10**	**ug/l**	**7.0**	**220**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	ug/l	0.011	ND
Alpha-BHC	1	ug/l	0.011	ND
beta-BHC	1	ug/l	0.011	ND
Chlordane	1	ug/l	0.11	ND
delta-BHC	1	ug/l	0.011	ND
Dieldrin	1	ug/l	0.011	ND
Endosulfan I	1	ug/l	0.011	ND
Endosulfan II	1	ug/l	0.011	ND
Endosulfan Sulfate	1	ug/l	0.011	ND
Endrin	1	ug/l	0.011	ND
Endrin Aldehyde	1	ug/l	0.011	ND
Endrin Ketone	1	ug/l	0.011	ND
gamma-BHC	1	ug/l	0.011	ND
Heptachlor	1	ug/l	0.011	ND
Heptachlor Epoxide	1	ug/l	0.011	ND
Methoxychlor	1	ug/l	0.011	ND
p,p'-DDD	1	ug/l	0.011	ND
p,p'-DDE	1	ug/l	0.011	ND
p,p'-DDT	1	ug/l	0.011	ND
Toxaphene	1	ug/l	0.28	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.28	ND
Aroclor-1016	1	ug/l	0.28	ND
Aroclor-1221	1	ug/l	0.28	ND
Aroclor-1232	1	ug/l	0.28	ND
Aroclor-1242	1	ug/l	0.28	ND
Aroclor-1248	1	ug/l	0.28	ND
Aroclor-1254	1	ug/l	0.28	ND
Aroclor-1260	1	ug/l	0.28	ND
Aroclor-1262	1	ug/l	0.28	ND
Aroclor-1268	1	ug/l	0.28	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	**3**	**ug/l**	**3.7**	**32**
1,2,4,5-Tetrachlorobenzene	3	ug/l	3.7	ND
2,3,4,6-Tetrachlorophenol	3	ug/l	3.7	ND
2,4,5-Trichlorophenol	3	ug/l	3.7	ND
2,4,6-Trichlorophenol	3	ug/l	3.7	ND
2,4-Dichlorophenol	3	ug/l	3.7	ND
2,4-Dimethylphenol	3	ug/l	0.93	ND
2,4-Dinitrophenol	3	ug/l	19	ND
2,4-Dinitrotoluene	3	ug/l	3.7	ND
2,6-Dinitrotoluene	3	ug/l	3.7	ND
2-Chloronaphthalene	3	ug/l	3.7	ND
2-Chlorophenol	3	ug/l	3.7	ND
2-Methylnaphthalene	3	ug/l	3.7	ND
2-Methylphenol	3	ug/l	0.93	ND
2-Nitroaniline	3	ug/l	3.7	ND

Sample ID: EXT 3 U **Collection Date: 5/20/2014**
Lab#: AC78787-016 **Receipt Date: 5/20/2014**
Matrix: Aqueous

2-Nitrophenol	3	ug/l	3.7	ND
3&4-Methylphenol	3	ug/l	0.93	ND
3,3'-Dichlorobenzidine	3	ug/l	3.7	ND
3-Nitroaniline	3	ug/l	3.7	ND
4,6-Dinitro-2-methylphenol	3	ug/l	19	ND
4-Bromophenyl-phenylether	3	ug/l	3.7	ND
4-Chloro-3-methylphenol	3	ug/l	3.7	ND
4-Chloroaniline	3	ug/l	0.93	ND
4-Chlorophenyl-phenylether	3	ug/l	3.7	ND
4-Nitroaniline	3	ug/l	3.7	ND
4-Nitrophenol	3	ug/l	3.7	ND
Acenaphthene	**3**	**ug/l**	**3.7**	**32**
Acenaphthylene	3	ug/l	3.7	ND
Acetophenone	3	ug/l	3.7	ND
Anthracene	**3**	**ug/l**	**3.7**	**18**
Atrazine	3	ug/l	3.7	ND
Benzaldehyde	3	ug/l	3.7	ND
Benzo[a]anthracene	**3**	**ug/l**	**3.7**	**3.9**
Benzo[a]pyrene	3	ug/l	3.7	ND
Benzo[b]fluoranthene	3	ug/l	3.7	ND
Benzo[g,h,i]perylene	3	ug/l	3.7	ND
Benzo[k]fluoranthene	3	ug/l	3.7	ND
bis(2-Chloroethoxy)methane	3	ug/l	3.7	ND
bis(2-Chloroethyl)ether	3	ug/l	0.93	ND
bis(2-Chloroisopropyl)ether	3	ug/l	3.7	ND
bis(2-Ethylhexyl)phthalate	**3**	**ug/l**	**3.7**	**7.1**
Butylbenzylphthalate	3	ug/l	3.7	ND
Caprolactam	3	ug/l	3.7	ND
Carbazole	3	ug/l	3.7	ND
Chrysene	**3**	**ug/l**	**3.7**	**4.7**
Dibenzo[a,h]anthracene	3	ug/l	3.7	ND
Dibenzofuran	**3**	**ug/l**	**0.93**	**13**
Diethylphthalate	3	ug/l	3.7	ND
Dimethylphthalate	3	ug/l	3.7	ND
Di-n-butylphthalate	3	ug/l	0.93	ND
Di-n-octylphthalate	3	ug/l	3.7	ND
Fluoranthene	**3**	**ug/l**	**3.7**	**15**
Fluorene	**3**	**ug/l**	**3.7**	**48**
Hexachlorobenzene	3	ug/l	3.7	ND
Hexachlorobutadiene	3	ug/l	3.7	ND
Hexachlorocyclopentadiene	3	ug/l	3.7	ND
Hexachloroethane	3	ug/l	3.7	ND
Indeno[1,2,3-cd]pyrene	3	ug/l	3.7	ND
Isophorone	3	ug/l	3.7	ND
Naphthalene	3	ug/l	0.93	ND
Nitrobenzene	3	ug/l	3.7	ND
N-Nitroso-di-n-propylamine	3	ug/l	0.93	ND
N-Nitrosodiphenylamine	3	ug/l	3.7	ND
Pentachlorophenol	3	ug/l	19	ND
Phenanthrene	**3**	**ug/l**	**3.7**	**94**
Phenol	3	ug/l	3.7	ND
Pyrene	**3**	**ug/l**	**3.7**	**34**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**2**	**ug/l**	**800**	**1400000**
Barium	**2**	**ug/l**	**200**	**20000**

Sample ID: EXT 3 U
Lab#: AC78787-016
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Calcium	**2**	**ug/l**	**20000**	**1300000**
Chromium	**2**	**ug/l**	**200**	**4500**
Copper	**2**	**ug/l**	**200**	**6900**
Iron	**4**	**ug/l**	**2400**	**3000000**
Magnesium	**2**	**ug/l**	**20000**	**2300000**
Manganese	**2**	**ug/l**	**160**	**99000**
Nickel	**2**	**ug/l**	**200**	**32000**
Potassium	**4**	**ug/l**	**40000**	**420000**
Silver	2	ug/l	80	ND
Sodium	**4**	**ug/l**	**40000**	**81000**
Vanadium	**2**	**ug/l**	**200**	**3400**
Zinc	**2**	**ug/l**	**200**	**17000**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	**1**	**ug/l**	**4.0**	**5.0**
Arsenic	**10**	**ug/l**	**40**	**36000**
Beryllium	**10**	**ug/l**	**20**	**84**
Cadmium	**1**	**ug/l**	**4.0**	**55**
Cobalt	**10**	**ug/l**	**40**	**2800**
Lead	**10**	**ug/l**	**60**	**48000**
Selenium	**1**	**ug/l**	**20**	**220**
Thallium	**1**	**ug/l**	**4.0**	**21**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	10	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	**1**	**ug/l**	**1.0**	**2.6**
Chloromethane	1	ug/l	1.0	ND

Sample ID: EXT 3 U **Collection Date: 5/20/2014**
Lab#: AC78787-016 **Receipt Date: 5/20/2014**
Matrix: Aqueous

cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	**1**	**ug/l**	**1.0**	**2.3**
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: EXT 3 F
Lab#: AC78787-017
Matrix: Aqueous

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	1	ug/l	50	ND
Calcium	**1**	**ug/l**	**5000**	**80000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	ND
Magnesium	**1**	**ug/l**	**5000**	**14000**
Manganese	1	ug/l	40	ND
Nickel	1	ug/l	50	ND
Potassium	**1**	**ug/l**	**5000**	**14000**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**49000**
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**460**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID: EXT 3(27-29')
Lab#: AC78787-018
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		87

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.096	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0057	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.029	ND
delta-BHC	1	mg/kg	0.0057	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0057	ND
Endosulfan II	1	mg/kg	0.0057	ND
Endosulfan Sulfate	1	mg/kg	0.0057	ND
Endrin	1	mg/kg	0.0057	ND
Endrin Aldehyde	1	mg/kg	0.0057	ND
Endrin Ketone	1	mg/kg	0.0057	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0057	ND
Heptachlor Epoxide	1	mg/kg	0.0057	ND
Methoxychlor	1	mg/kg	0.0057	ND
p,p'-DDD	1	mg/kg	0.0029	ND
p,p'-DDE	1	mg/kg	0.0029	ND
p,p'-DDT	1	mg/kg	0.0029	ND
Toxaphene	1	mg/kg	0.029	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.038	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.038	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.038	ND
2,4,5-Trichlorophenol	1	mg/kg	0.038	ND
2,4,6-Trichlorophenol	1	mg/kg	0.038	ND
2,4-Dichlorophenol	1	mg/kg	0.0096	ND
2,4-Dimethylphenol	1	mg/kg	0.0096	ND
2,4-Dinitrophenol	1	mg/kg	0.19	ND
2,4-Dinitrotoluene	1	mg/kg	0.038	ND
2,6-Dinitrotoluene	1	mg/kg	0.038	ND
2-Chloronaphthalene	1	mg/kg	0.038	ND

Sample ID: EXT 3(27-29')
Lab#: AC78787-018
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

2-Chlorophenol	1	mg/kg	0.038	ND
2-Methylnaphthalene	1	mg/kg	0.038	ND
2-Methylphenol	1	mg/kg	0.0096	ND
2-Nitroaniline	1	mg/kg	0.038	ND
2-Nitrophenol	1	mg/kg	0.038	ND
3&4-Methylphenol	1	mg/kg	0.0096	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.038	ND
3-Nitroaniline	1	mg/kg	0.038	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.19	ND
4-Bromophenyl-phenylether	1	mg/kg	0.038	ND
4-Chloro-3-methylphenol	1	mg/kg	0.038	ND
4-Chloroaniline	1	mg/kg	0.018	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.038	ND
4-Nitroaniline	1	mg/kg	0.038	ND
4-Nitrophenol	1	mg/kg	0.038	ND
Acenaphthene	1	mg/kg	0.038	ND
Acenaphthylene	1	mg/kg	0.038	ND
Acetophenone	1	mg/kg	0.038	ND
Anthracene	1	mg/kg	0.038	ND
Atrazine	1	mg/kg	0.038	ND
Benzaldehyde	1	mg/kg	0.038	ND
Benzo[a]anthracene	1	mg/kg	0.038	ND
Benzo[a]pyrene	1	mg/kg	0.038	ND
Benzo[b]fluoranthene	1	mg/kg	0.038	ND
Benzo[g,h,i]perylene	1	mg/kg	0.038	ND
Benzo[k]fluoranthene	1	mg/kg	0.038	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.038	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0096	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.038	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.038**	**0.10**
Butylbenzylphthalate	1	mg/kg	0.038	ND
Caprolactam	1	mg/kg	0.038	ND
Carbazole	1	mg/kg	0.038	ND
Chrysene	1	mg/kg	0.038	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.038	ND
Dibenzofuran	**1**	**mg/kg**	**0.0096**	**0.016**
Diethylphthalate	1	mg/kg	0.038	ND
Dimethylphthalate	1	mg/kg	0.038	ND
Di-n-butylphthalate	1	mg/kg	0.019	ND
Di-n-octylphthalate	1	mg/kg	0.038	ND
Fluoranthene	**1**	**mg/kg**	**0.038**	**0.057**
Fluorene	**1**	**mg/kg**	**0.038**	**0.063**
Hexachlorobenzene	1	mg/kg	0.038	ND
Hexachlorobutadiene	1	mg/kg	0.038	ND
Hexachlorocyclopentadiene	1	mg/kg	0.038	ND
Hexachloroethane	1	mg/kg	0.038	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.038	ND
Isophorone	1	mg/kg	0.038	ND
Naphthalene	1	mg/kg	0.0096	ND
Nitrobenzene	1	mg/kg	0.038	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0096	ND
N-Nitrosodiphenylamine	1	mg/kg	0.038	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	**1**	**mg/kg**	**0.038**	**0.12**
Phenol	1	mg/kg	0.038	ND
Pyrene	**1**	**mg/kg**	**0.038**	**0.099**

Sample ID: EXT 3(27-29')
Lab#: AC78787-018
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	mg/kg	230	3700
Arsenic	1	mg/kg	4.6	66
Barium	1	mg/kg	11	33
Calcium	1	mg/kg	1100	5800
Chromium	1	mg/kg	5.7	21
Cobalt	1	mg/kg	2.9	9.9
Copper	1	mg/kg	5.7	16
Iron	1	mg/kg	230	13000
Lead	1	mg/kg	5.7	27
Magnesium	1	mg/kg	570	12000
Manganese	1	mg/kg	11	180
Nickel	1	mg/kg	5.7	150
Potassium	1	mg/kg	570	1200
Sodium	1	mg/kg	290	ND
Thallium	1	mg/kg	1.7	ND
Vanadium	1	mg/kg	11	18
Zinc	1	mg/kg	11	55

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.92	ND
Beryllium	1	mg/kg	0.23	ND
Cadmium	1	mg/kg	0.46	ND
Selenium	1	mg/kg	2.3	ND
Silver	1	mg/kg	0.23	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.998	mg/kg	0.0023	ND
1,1,2,2-Tetrachloroethane	0.998	mg/kg	0.0023	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.998	mg/kg	0.0023	ND
1,1,2-Trichloroethane	0.998	mg/kg	0.0023	ND
1,1-Dichloroethane	0.998	mg/kg	0.0023	ND
1,1-Dichloroethene	0.998	mg/kg	0.0023	ND
1,2,3-Trichlorobenzene	0.998	mg/kg	0.0023	ND
1,2,4-Trichlorobenzene	0.998	mg/kg	0.0023	ND
1,2-Dibromo-3-chloropropane	0.998	mg/kg	0.0023	ND
1,2-Dibromoethane	0.998	mg/kg	0.0023	ND
1,2-Dichlorobenzene	0.998	mg/kg	0.0023	ND
1,2-Dichloroethane	0.998	mg/kg	0.0023	ND
1,2-Dichloropropane	0.998	mg/kg	0.0023	ND
1,3-Dichlorobenzene	0.998	mg/kg	0.0023	ND
1,4-Dichlorobenzene	0.998	mg/kg	0.0023	ND
1,4-Dioxane	0.998	mg/kg	0.11	ND
2-Butanone	0.998	mg/kg	0.0023	ND
2-Hexanone	0.998	mg/kg	0.0023	ND
4-Methyl-2-pentanone	0.998	mg/kg	0.0023	ND
Acetone	0.998	mg/kg	0.011	ND
Benzene	0.998	mg/kg	0.0011	ND
Bromochloromethane	0.998	mg/kg	0.0023	ND
Bromodichloromethane	0.998	mg/kg	0.0023	ND
Bromoform	0.998	mg/kg	0.0023	ND
Bromomethane	0.998	mg/kg	0.0023	ND
Carbon disulfide	0.998	mg/kg	0.0023	ND
Carbon tetrachloride	0.998	mg/kg	0.0023	ND

Sample ID: EXT 3(27-29')
Lab#: AC78787-018
Matrix: Soil

Collection Date: 5/20/2014
Receipt Date: 5/20/2014

Chlorobenzene	0.998	mg/kg	0.0023	ND
Chloroethane	0.998	mg/kg	0.0023	ND
Chloroform	0.998	mg/kg	0.0023	ND
Chloromethane	0.998	mg/kg	0.0023	ND
cis-1,2-Dichloroethene	0.998	mg/kg	0.0023	ND
cis-1,3-Dichloropropene	0.998	mg/kg	0.0023	ND
Cyclohexane	0.998	mg/kg	0.0023	ND
Dibromochloromethane	0.998	mg/kg	0.0023	ND
Dichlorodifluoromethane	0.998	mg/kg	0.0023	ND
Ethylbenzene	**0.998**	**mg/kg**	**0.0011**	**0.0029**
Isopropylbenzene	0.998	mg/kg	0.0011	ND
m&p-Xylenes	**0.998**	**mg/kg**	**0.0011**	**0.014**
Methyl Acetate	0.998	mg/kg	0.0023	ND
Methylcyclohexane	**0.998**	**mg/kg**	**0.0023**	**0.0052**
Methylene chloride	0.998	mg/kg	0.0023	ND
Methyl-t-butyl ether	0.998	mg/kg	0.0011	ND
o-Xylene	**0.998**	**mg/kg**	**0.0011**	**0.0050**
Styrene	0.998	mg/kg	0.0023	ND
Tetrachloroethene	0.998	mg/kg	0.0023	ND
Toluene	**0.998**	**mg/kg**	**0.0011**	**0.0029**
trans-1,2-Dichloroethene	0.998	mg/kg	0.0023	ND
trans-1,3-Dichloropropene	0.998	mg/kg	0.0023	ND
Trichloroethene	0.998	mg/kg	0.0023	ND
Trichlorofluoromethane	0.998	mg/kg	0.0023	ND
Vinyl chloride	0.998	mg/kg	0.0023	ND
Xylenes (Total)	**0.998**	**mg/kg**	**0.0011**	**0.019**

Sample ID: SUMP1(0-2')
Lab#: AC78787-019
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		92

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.091	0.16

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0054	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND
delta-BHC	1	mg/kg	0.0054	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0054	ND
Endosulfan II	1	mg/kg	0.0054	ND
Endosulfan Sulfate	1	mg/kg	0.0054	ND
Endrin	1	mg/kg	0.0054	ND
Endrin Aldehyde	1	mg/kg	0.0054	ND
Endrin Ketone	1	mg/kg	0.0054	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0054	ND
Heptachlor Epoxide	1	mg/kg	0.0054	ND
Methoxychlor	1	mg/kg	0.0054	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	1	mg/kg	0.0027	ND
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.036	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.036	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.036	ND
2,4,5-Trichlorophenol	1	mg/kg	0.036	ND
2,4,6-Trichlorophenol	1	mg/kg	0.036	ND
2,4-Dichlorophenol	1	mg/kg	0.0091	ND
2,4-Dimethylphenol	1	mg/kg	0.0091	ND
2,4-Dinitrophenol	1	mg/kg	0.18	ND
2,4-Dinitrotoluene	1	mg/kg	0.036	ND
2,6-Dinitrotoluene	1	mg/kg	0.036	ND
2-Chloronaphthalene	1	mg/kg	0.036	ND

Sample ID: SUMP1(0-2') **Collection Date: 5/19/2014**
Lab#: AC78787-019 **Receipt Date: 5/20/2014**
Matrix: Soil

2-Chlorophenol	1	mg/kg	0.036	ND
2-Methylnaphthalene	1	mg/kg	0.036	ND
2-Methylphenol	1	mg/kg	0.0091	ND
2-Nitroaniline	1	mg/kg	0.036	ND
2-Nitrophenol	1	mg/kg	0.036	ND
3&4-Methylphenol	1	mg/kg	0.0091	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.036	ND
3-Nitroaniline	1	mg/kg	0.036	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.18	ND
4-Bromophenyl-phenylether	1	mg/kg	0.036	ND
4-Chloro-3-methylphenol	1	mg/kg	0.036	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.036	ND
4-Nitroaniline	1	mg/kg	0.036	ND
4-Nitrophenol	1	mg/kg	0.036	ND
Acenaphthene	1	mg/kg	0.036	ND
Acenaphthylene	1	mg/kg	0.036	ND
Acetophenone	1	mg/kg	0.036	ND
Anthracene	1	mg/kg	0.036	ND
Atrazine	1	mg/kg	0.036	ND
Benzaldehyde	1	mg/kg	0.036	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.036**	**0.16**
Benzo[a]pyrene	**1**	**mg/kg**	**0.036**	**0.13**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.036**	**0.17**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.036**	**0.069**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.036**	**0.055**
bis(2-Chloroethoxy)methane	1	mg/kg	0.036	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0091	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.036	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.036**	**0.21**
Butylbenzylphthalate	1	mg/kg	0.036	ND
Caprolactam	1	mg/kg	0.036	ND
Carbazole	1	mg/kg	0.036	ND
Chrysene	**1**	**mg/kg**	**0.036**	**0.14**
Dibenzo[a,h]anthracene	1	mg/kg	0.036	ND
Dibenzofuran	1	mg/kg	0.0091	ND
Diethylphthalate	1	mg/kg	0.036	ND
Dimethylphthalate	1	mg/kg	0.036	ND
Di-n-butylphthalate	1	mg/kg	0.018	ND
Di-n-octylphthalate	1	mg/kg	0.036	ND
Fluoranthene	**1**	**mg/kg**	**0.036**	**0.25**
Fluorene	1	mg/kg	0.036	ND
Hexachlorobenzene	1	mg/kg	0.036	ND
Hexachlorobutadiene	1	mg/kg	0.036	ND
Hexachlorocyclopentadiene	1	mg/kg	0.036	ND
Hexachloroethane	1	mg/kg	0.036	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.036**	**0.059**
Isophorone	1	mg/kg	0.036	ND
Naphthalene	**1**	**mg/kg**	**0.0091**	**0.011**
Nitrobenzene	1	mg/kg	0.036	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0091	ND
N-Nitrosodiphenylamine	1	mg/kg	0.036	ND
Pentachlorophenol	1	mg/kg	0.18	ND
Phenanthrene	**1**	**mg/kg**	**0.036**	**0.16**
Phenol	1	mg/kg	0.036	ND
Pyrene	**1**	**mg/kg**	**0.036**	**0.25**

Sample ID: SUMP1(0-2')
Lab#: AC78787-019
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**220**	**6700**
Arsenic	**1**	**mg/kg**	**4.3**	**97**
Barium	**1**	**mg/kg**	**11**	**62**
Calcium	**1**	**mg/kg**	**1100**	**7300**
Chromium	**1**	**mg/kg**	**5.4**	**16**
Cobalt	**1**	**mg/kg**	**2.7**	**5.5**
Copper	**1**	**mg/kg**	**5.4**	**65**
Iron	**1**	**mg/kg**	**220**	**11000**
Lead	**1**	**mg/kg**	**5.4**	**38**
Magnesium	**1**	**mg/kg**	**540**	**3200**
Manganese	**1**	**mg/kg**	**11**	**180**
Nickel	**1**	**mg/kg**	**5.4**	**44**
Potassium	**1**	**mg/kg**	**540**	**1200**
Sodium	1	mg/kg	270	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**19**
Zinc	**1**	**mg/kg**	**11**	**53**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.87	ND
Beryllium	**1**	**mg/kg**	**0.22**	**0.29**
Cadmium	1	mg/kg	0.43	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	1	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	mg/kg	0.0022	ND
1,1,2-Trichloroethane	1	mg/kg	0.0022	ND
1,1-Dichloroethane	1	mg/kg	0.0022	ND
1,1-Dichloroethene	1	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	1	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	1	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	1	mg/kg	0.0022	ND
1,2-Dibromoethane	1	mg/kg	0.0022	ND
1,2-Dichlorobenzene	1	mg/kg	0.0022	ND
1,2-Dichloroethane	1	mg/kg	0.0022	ND
1,2-Dichloropropane	1	mg/kg	0.0022	ND
1,3-Dichlorobenzene	1	mg/kg	0.0022	ND
1,4-Dichlorobenzene	1	mg/kg	0.0022	ND
1,4-Dioxane	1	mg/kg	0.11	ND
2-Butanone	1	mg/kg	0.0022	ND
2-Hexanone	1	mg/kg	0.0022	ND
4-Methyl-2-pentanone	1	mg/kg	0.0022	ND
Acetone	1	mg/kg	0.011	ND
Benzene	1	mg/kg	0.0011	ND
Bromochloromethane	1	mg/kg	0.0022	ND
Bromodichloromethane	1	mg/kg	0.0022	ND
Bromoform	1	mg/kg	0.0022	ND
Bromomethane	1	mg/kg	0.0022	ND
Carbon disulfide	1	mg/kg	0.0022	ND
Carbon tetrachloride	1	mg/kg	0.0022	ND

Sample ID: SUMP1(0-2')
Lab#: AC78787-019
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

Chlorobenzene	1	mg/kg	0.0022	ND
Chloroethane	1	mg/kg	0.0022	ND
Chloroform	1	mg/kg	0.0022	ND
Chloromethane	1	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	1	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	1	mg/kg	0.0022	ND
Cyclohexane	1	mg/kg	0.0022	ND
Dibromochloromethane	1	mg/kg	0.0022	ND
Dichlorodifluoromethane	1	mg/kg	0.0022	ND
Ethylbenzene	1	mg/kg	0.0011	ND
Isopropylbenzene	1	mg/kg	0.0011	ND
m&p-Xylenes	1	mg/kg	0.0011	ND
Methyl Acetate	1	mg/kg	0.0022	ND
Methylcyclohexane	1	mg/kg	0.0022	ND
Methylene chloride	1	mg/kg	0.0022	ND
Methyl-t-butyl ether	1	mg/kg	0.0011	ND
o-Xylene	1	mg/kg	0.0011	ND
Styrene	1	mg/kg	0.0022	ND
Tetrachloroethene	1	mg/kg	0.0022	ND
Toluene	1	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	1	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	1	mg/kg	0.0022	ND
Trichloroethene	1	mg/kg	0.0022	ND
Trichlorofluoromethane	1	mg/kg	0.0022	ND
Vinyl chloride	1	mg/kg	0.0022	ND
Xylenes (Total)	1	mg/kg	0.0011	ND

Sample ID: SUMP1(3-5')
Lab#: AC78787-020
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		94

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.089	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0053	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND
delta-BHC	1	mg/kg	0.0053	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0053	ND
Endosulfan II	1	mg/kg	0.0053	ND
Endosulfan Sulfate	1	mg/kg	0.0053	ND
Endrin	1	mg/kg	0.0053	ND
Endrin Aldehyde	1	mg/kg	0.0053	ND
Endrin Ketone	1	mg/kg	0.0053	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0053	ND
Heptachlor Epoxide	1	mg/kg	0.0053	ND
Methoxychlor	1	mg/kg	0.0053	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	1	mg/kg	0.0027	ND
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.035	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.035	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.035	ND
2,4,5-Trichlorophenol	1	mg/kg	0.035	ND
2,4,6-Trichlorophenol	1	mg/kg	0.035	ND
2,4-Dichlorophenol	1	mg/kg	0.0089	ND
2,4-Dimethylphenol	1	mg/kg	0.0089	ND
2,4-Dinitrophenol	1	mg/kg	0.18	ND
2,4-Dinitrotoluene	1	mg/kg	0.035	ND
2,6-Dinitrotoluene	1	mg/kg	0.035	ND
2-Chloronaphthalene	1	mg/kg	0.035	ND

Sample ID: SUMP1(3-5')
Lab#: AC78787-020
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

2-Chlorophenol	1	mg/kg	0.035	ND
2-Methylnaphthalene	1	mg/kg	0.035	ND
2-Methylphenol	1	mg/kg	0.0089	ND
2-Nitroaniline	1	mg/kg	0.035	ND
2-Nitrophenol	1	mg/kg	0.035	ND
3&4-Methylphenol	1	mg/kg	0.0089	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.035	ND
3-Nitroaniline	1	mg/kg	0.035	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.18	ND
4-Bromophenyl-phenylether	1	mg/kg	0.035	ND
4-Chloro-3-methylphenol	1	mg/kg	0.035	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.035	ND
4-Nitroaniline	1	mg/kg	0.035	ND
4-Nitrophenol	1	mg/kg	0.035	ND
Acenaphthene	1	mg/kg	0.035	ND
Acenaphthylene	1	mg/kg	0.035	ND
Acetophenone	1	mg/kg	0.035	ND
Anthracene	1	mg/kg	0.035	ND
Atrazine	1	mg/kg	0.035	ND
Benzaldehyde	1	mg/kg	0.035	ND
Benzo[a]anthracene	1	mg/kg	0.035	ND
Benzo[a]pyrene	1	mg/kg	0.035	ND
Benzo[b]fluoranthene	1	mg/kg	0.035	ND
Benzo[g,h,i]perylene	1	mg/kg	0.035	ND
Benzo[k]fluoranthene	1	mg/kg	0.035	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.035	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0089	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.035	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.035**	**0.39**
Butylbenzylphthalate	1	mg/kg	0.035	ND
Caprolactam	1	mg/kg	0.035	ND
Carbazole	1	mg/kg	0.035	ND
Chrysene	1	mg/kg	0.035	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.035	ND
Dibenzofuran	1	mg/kg	0.0089	ND
Diethylphthalate	1	mg/kg	0.035	ND
Dimethylphthalate	1	mg/kg	0.035	ND
Di-n-butylphthalate	1	mg/kg	0.018	ND
Di-n-octylphthalate	1	mg/kg	0.035	ND
Fluoranthene	1	mg/kg	0.035	ND
Fluorene	1	mg/kg	0.035	ND
Hexachlorobenzene	1	mg/kg	0.035	ND
Hexachlorobutadiene	1	mg/kg	0.035	ND
Hexachlorocyclopentadiene	1	mg/kg	0.035	ND
Hexachloroethane	1	mg/kg	0.035	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.035	ND
Isophorone	1	mg/kg	0.035	ND
Naphthalene	1	mg/kg	0.0089	ND
Nitrobenzene	1	mg/kg	0.035	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0089	ND
N-Nitrosodiphenylamine	1	mg/kg	0.035	ND
Pentachlorophenol	1	mg/kg	0.18	ND
Phenanthrene	1	mg/kg	0.035	ND
Phenol	1	mg/kg	0.035	ND
Pyrene	1	mg/kg	0.035	ND

Sample ID: SUMP1(3-5')
Lab#: AC78787-020
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**210**	**6600**
Arsenic	**1**	**mg/kg**	**4.3**	**10**
Barium	**1**	**mg/kg**	**11**	**55**
Calcium	**1**	**mg/kg**	**1100**	**6000**
Chromium	**1**	**mg/kg**	**5.3**	**22**
Cobalt	**1**	**mg/kg**	**2.7**	**11**
Copper	**1**	**mg/kg**	**5.3**	**32**
Iron	**1**	**mg/kg**	**210**	**12000**
Lead	**1**	**mg/kg**	**5.3**	**10**
Magnesium	**1**	**mg/kg**	**530**	**3700**
Manganese	**1**	**mg/kg**	**11**	**350**
Nickel	**1**	**mg/kg**	**5.3**	**48**
Potassium	**1**	**mg/kg**	**530**	**1100**
Sodium	1	mg/kg	270	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**20**
Zinc	**1**	**mg/kg**	**11**	**34**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.85	ND
Beryllium	**1**	**mg/kg**	**0.21**	**0.25**
Cadmium	1	mg/kg	0.43	ND
Selenium	1	mg/kg	2.1	ND
Silver	1	mg/kg	0.21	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	mg/kg	0.0021	ND
1,1,2,2-Tetrachloroethane	1	mg/kg	0.0021	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	mg/kg	0.0021	ND
1,1,2-Trichloroethane	1	mg/kg	0.0021	ND
1,1-Dichloroethane	1	mg/kg	0.0021	ND
1,1-Dichloroethene	1	mg/kg	0.0021	ND
1,2,3-Trichlorobenzene	1	mg/kg	0.0021	ND
1,2,4-Trichlorobenzene	1	mg/kg	0.0021	ND
1,2-Dibromo-3-chloropropane	1	mg/kg	0.0021	ND
1,2-Dibromoethane	1	mg/kg	0.0021	ND
1,2-Dichlorobenzene	1	mg/kg	0.0021	ND
1,2-Dichloroethane	1	mg/kg	0.0021	ND
1,2-Dichloropropane	1	mg/kg	0.0021	ND
1,3-Dichlorobenzene	1	mg/kg	0.0021	ND
1,4-Dichlorobenzene	1	mg/kg	0.0021	ND
1,4-Dioxane	1	mg/kg	0.11	ND
2-Butanone	1	mg/kg	0.0021	ND
2-Hexanone	1	mg/kg	0.0021	ND
4-Methyl-2-pentanone	1	mg/kg	0.0021	ND
Acetone	1	mg/kg	0.011	ND
Benzene	1	mg/kg	0.0011	ND
Bromochloromethane	1	mg/kg	0.0021	ND
Bromodichloromethane	1	mg/kg	0.0021	ND
Bromoform	1	mg/kg	0.0021	ND
Bromomethane	1	mg/kg	0.0021	ND
Carbon disulfide	1	mg/kg	0.0021	ND
Carbon tetrachloride	1	mg/kg	0.0021	ND

Sample ID: SUMP1(3-5')
Lab#: AC78787-020
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

Chlorobenzene	1	mg/kg	0.0021	ND
Chloroethane	1	mg/kg	0.0021	ND
Chloroform	1	mg/kg	0.0021	ND
Chloromethane	1	mg/kg	0.0021	ND
cis-1,2-Dichloroethene	1	mg/kg	0.0021	ND
cis-1,3-Dichloropropene	1	mg/kg	0.0021	ND
Cyclohexane	1	mg/kg	0.0021	ND
Dibromochloromethane	1	mg/kg	0.0021	ND
Dichlorodifluoromethane	1	mg/kg	0.0021	ND
Ethylbenzene	1	mg/kg	0.0011	ND
Isopropylbenzene	1	mg/kg	0.0011	ND
m&p-Xylenes	1	mg/kg	0.0011	ND
Methyl Acetate	1	mg/kg	0.0021	ND
Methylcyclohexane	1	mg/kg	0.0021	ND
Methylene chloride	1	mg/kg	0.0021	ND
Methyl-t-butyl ether	1	mg/kg	0.0011	ND
o-Xylene	1	mg/kg	0.0011	ND
Styrene	1	mg/kg	0.0021	ND
Tetrachloroethene	1	mg/kg	0.0021	ND
Toluene	1	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	1	mg/kg	0.0021	ND
trans-1,3-Dichloropropene	1	mg/kg	0.0021	ND
Trichloroethene	1	mg/kg	0.0021	ND
Trichlorofluoromethane	1	mg/kg	0.0021	ND
Vinyl chloride	1	mg/kg	0.0021	ND
Xylenes (Total)	1	mg/kg	0.0011	ND

Sample ID: BASE 1(0-2')
Lab#: AC78787-021
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		89

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.094**	**3.7**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0056	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.028	ND
delta-BHC	1	mg/kg	0.0056	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0056	ND
Endosulfan II	1	mg/kg	0.0056	ND
Endosulfan Sulfate	1	mg/kg	0.0056	ND
Endrin	1	mg/kg	0.0056	ND
Endrin Aldehyde	1	mg/kg	0.0056	ND
Endrin Ketone	1	mg/kg	0.0056	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0056	ND
Heptachlor Epoxide	1	mg/kg	0.0056	ND
Methoxychlor	1	mg/kg	0.0056	ND
p,p'-DDD	1	mg/kg	0.0028	ND
p,p'-DDE	1	mg/kg	0.0028	ND
p,p'-DDT	**1**	**mg/kg**	**0.0028**	**0.0063d**
Toxaphene	1	mg/kg	0.028	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	**1**	**mg/kg**	**0.037**	**0.056**
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.037	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.037	ND
2,4,5-Trichlorophenol	1	mg/kg	0.037	ND
2,4,6-Trichlorophenol	1	mg/kg	0.037	ND
2,4-Dichlorophenol	1	mg/kg	0.0094	ND
2,4-Dimethylphenol	1	mg/kg	0.0094	ND
2,4-Dinitrophenol	1	mg/kg	0.19	ND
2,4-Dinitrotoluene	1	mg/kg	0.037	ND
2,6-Dinitrotoluene	1	mg/kg	0.037	ND
2-Chloronaphthalene	1	mg/kg	0.037	ND

Sample ID: BASE 1(0-2') **Collection Date: 5/19/2014**
Lab#: AC78787-021 **Receipt Date: 5/20/2014**
Matrix: Soil

2-Chlorophenol	1	mg/kg	0.037	ND
2-Methylnaphthalene	**1**	**mg/kg**	**0.037**	**0.30**
2-Methylphenol	1	mg/kg	0.0094	ND
2-Nitroaniline	1	mg/kg	0.037	ND
2-Nitrophenol	1	mg/kg	0.037	ND
3&4-Methylphenol	1	mg/kg	0.0094	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.037	ND
3-Nitroaniline	1	mg/kg	0.037	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.19	ND
4-Bromophenyl-phenylether	1	mg/kg	0.037	ND
4-Chloro-3-methylphenol	1	mg/kg	0.037	ND
4-Chloroaniline	1	mg/kg	0.018	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.037	ND
4-Nitroaniline	1	mg/kg	0.037	ND
4-Nitrophenol	1	mg/kg	0.037	ND
Acenaphthene	1	mg/kg	0.037	ND
Acenaphthylene	1	mg/kg	0.037	ND
Acetophenone	1	mg/kg	0.037	ND
Anthracene	**1**	**mg/kg**	**0.037**	**0.051**
Atrazine	1	mg/kg	0.037	ND
Benzaldehyde	1	mg/kg	0.037	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.037**	**0.19**
Benzo[a]pyrene	**1**	**mg/kg**	**0.037**	**0.15**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.037**	**0.21**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.037**	**0.17**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.037**	**0.071**
bis(2-Chloroethoxy)methane	1	mg/kg	0.037	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0094	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.037	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.037**	**0.61**
Butylbenzylphthalate	1	mg/kg	0.037	ND
Caprolactam	1	mg/kg	0.037	ND
Carbazole	1	mg/kg	0.037	ND
Chrysene	**1**	**mg/kg**	**0.037**	**0.17**
Dibenzo[a,h]anthracene	1	mg/kg	0.037	ND
Dibenzofuran	**1**	**mg/kg**	**0.0094**	**0.036**
Diethylphthalate	1	mg/kg	0.037	ND
Dimethylphthalate	1	mg/kg	0.037	ND
Di-n-butylphthalate	**1**	**mg/kg**	**0.019**	**0.044**
Di-n-octylphthalate	1	mg/kg	0.037	ND
Fluoranthene	**1**	**mg/kg**	**0.037**	**0.32**
Fluorene	1	mg/kg	0.037	ND
Hexachlorobenzene	1	mg/kg	0.037	ND
Hexachlorobutadiene	1	mg/kg	0.037	ND
Hexachlorocyclopentadiene	1	mg/kg	0.037	ND
Hexachloroethane	1	mg/kg	0.037	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.037**	**0.13**
Isophorone	1	mg/kg	0.037	ND
Naphthalene	**1**	**mg/kg**	**0.0094**	**0.11**
Nitrobenzene	1	mg/kg	0.037	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0094	ND
N-Nitrosodiphenylamine	1	mg/kg	0.037	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	**1**	**mg/kg**	**0.037**	**0.28**
Phenol	1	mg/kg	0.037	ND
Pyrene	**1**	**mg/kg**	**0.037**	**0.36**

Sample ID: BASE 1(0-2')
Lab#: AC78787-021
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**220**	**7300**
Arsenic	**1**	**mg/kg**	**4.5**	**37**
Barium	**1**	**mg/kg**	**11**	**130**
Calcium	**1**	**mg/kg**	**1100**	**20000**
Chromium	**1**	**mg/kg**	**5.6**	**560**
Cobalt	**1**	**mg/kg**	**2.8**	**6.8**
Copper	**1**	**mg/kg**	**5.6**	**48**
Iron	**1**	**mg/kg**	**220**	**15000**
Lead	**1**	**mg/kg**	**5.6**	**370**
Magnesium	**1**	**mg/kg**	**560**	**4800**
Manganese	**1**	**mg/kg**	**11**	**360**
Nickel	**1**	**mg/kg**	**5.6**	**43**
Potassium	**1**	**mg/kg**	**560**	**1900**
Sodium	1	mg/kg	280	ND
Thallium	1	mg/kg	1.7	ND
Vanadium	**1**	**mg/kg**	**11**	**24**
Zinc	**1**	**mg/kg**	**11**	**330**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.90	ND
Beryllium	**1**	**mg/kg**	**0.22**	**0.28**
Cadmium	**1**	**mg/kg**	**0.45**	**1.5**
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.998	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.998	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.998	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.998	mg/kg	0.0022	ND
1,1-Dichloroethane	0.998	mg/kg	0.0022	ND
1,1-Dichloroethene	0.998	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.998	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.998	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.998	mg/kg	0.0022	ND
1,2-Dibromoethane	0.998	mg/kg	0.0022	ND
1,2-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,2-Dichloroethane	0.998	mg/kg	0.0022	ND
1,2-Dichloropropane	0.998	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,4-Dioxane	0.998	mg/kg	0.11	ND
2-Butanone	0.998	mg/kg	0.0022	ND
2-Hexanone	0.998	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.998	mg/kg	0.0022	ND
Acetone	0.998	mg/kg	0.011	ND
Benzene	0.998	mg/kg	0.0011	ND
Bromochloromethane	0.998	mg/kg	0.0022	ND
Bromodichloromethane	0.998	mg/kg	0.0022	ND
Bromoform	0.998	mg/kg	0.0022	ND
Bromomethane	0.998	mg/kg	0.0022	ND
Carbon disulfide	0.998	mg/kg	0.0022	ND
Carbon tetrachloride	0.998	mg/kg	0.0022	ND

Sample ID: BASE 1(0-2')
Lab#: AC78787-021
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

Chlorobenzene	0.998	mg/kg	0.0022	ND
Chloroethane	0.998	mg/kg	0.0022	ND
Chloroform	0.998	mg/kg	0.0022	ND
Chloromethane	0.998	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.998	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.998	mg/kg	0.0022	ND
Cyclohexane	0.998	mg/kg	0.0022	ND
Dibromochloromethane	0.998	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.998	mg/kg	0.0022	ND
Ethylbenzene	0.998	mg/kg	0.0011	ND
Isopropylbenzene	0.998	mg/kg	0.0011	ND
m&p-Xylenes	0.998	mg/kg	0.0011	ND
Methyl Acetate	0.998	mg/kg	0.0022	ND
Methylcyclohexane	0.998	mg/kg	0.0022	ND
Methylene chloride	**0.998**	**mg/kg**	**0.0022**	**0.0046**
Methyl-t-butyl ether	0.998	mg/kg	0.0011	ND
o-Xylene	0.998	mg/kg	0.0011	ND
Styrene	0.998	mg/kg	0.0022	ND
Tetrachloroethene	**0.998**	**mg/kg**	**0.0022**	**0.0078**
Toluene	0.998	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.998	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.998	mg/kg	0.0022	ND
Trichloroethene	0.998	mg/kg	0.0022	ND
Trichlorofluoromethane	0.998	mg/kg	0.0022	ND
Vinyl chloride	0.998	mg/kg	0.0022	ND
Xylenes (Total)	0.998	mg/kg	0.0011	ND

Sample ID: BASE 1(3-5')
Lab#: AC78787-022
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		93

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.090	1.1

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0054	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND
delta-BHC	1	mg/kg	0.0054	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0054	ND
Endosulfan II	1	mg/kg	0.0054	ND
Endosulfan Sulfate	1	mg/kg	0.0054	ND
Endrin	1	mg/kg	0.0054	ND
Endrin Aldehyde	1	mg/kg	0.0054	ND
Endrin Ketone	1	mg/kg	0.0054	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0054	ND
Heptachlor Epoxide	1	mg/kg	0.0054	ND
Methoxychlor	1	mg/kg	0.0054	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	1	mg/kg	0.0027	ND
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.036	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.036	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.036	ND
2,4,5-Trichlorophenol	1	mg/kg	0.036	ND
2,4,6-Trichlorophenol	1	mg/kg	0.036	ND
2,4-Dichlorophenol	1	mg/kg	0.0090	ND
2,4-Dimethylphenol	1	mg/kg	0.0090	ND
2,4-Dinitrophenol	1	mg/kg	0.18	ND
2,4-Dinitrotoluene	1	mg/kg	0.036	ND
2,6-Dinitrotoluene	1	mg/kg	0.036	ND
2-Chloronaphthalene	1	mg/kg	0.036	ND

Sample ID: BASE 1(3-5')
Lab#: AC78787-022
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

2-Chlorophenol	1	mg/kg	0.036	ND
2-Methylnaphthalene	1	mg/kg	0.036	ND
2-Methylphenol	1	mg/kg	0.0090	ND
2-Nitroaniline	1	mg/kg	0.036	ND
2-Nitrophenol	1	mg/kg	0.036	ND
3&4-Methylphenol	1	mg/kg	0.0090	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.036	ND
3-Nitroaniline	1	mg/kg	0.036	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.18	ND
4-Bromophenyl-phenylether	1	mg/kg	0.036	ND
4-Chloro-3-methylphenol	1	mg/kg	0.036	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.036	ND
4-Nitroaniline	1	mg/kg	0.036	ND
4-Nitrophenol	1	mg/kg	0.036	ND
Acenaphthene	1	mg/kg	0.036	ND
Acenaphthylene	1	mg/kg	0.036	ND
Acetophenone	1	mg/kg	0.036	ND
Anthracene	1	mg/kg	0.036	ND
Atrazine	1	mg/kg	0.036	ND
Benzaldehyde	1	mg/kg	0.036	ND
Benzo[a]anthracene	1	mg/kg	0.036	ND
Benzo[a]pyrene	1	mg/kg	0.036	ND
Benzo[b]fluoranthene	1	mg/kg	0.036	ND
Benzo[g,h,i]perylene	1	mg/kg	0.036	ND
Benzo[k]fluoranthene	1	mg/kg	0.036	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.036	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0090	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.036	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.036**	**0.34**
Butylbenzylphthalate	1	mg/kg	0.036	ND
Caprolactam	1	mg/kg	0.036	ND
Carbazole	1	mg/kg	0.036	ND
Chrysene	1	mg/kg	0.036	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.036	ND
Dibenzofuran	1	mg/kg	0.0090	ND
Diethylphthalate	1	mg/kg	0.036	ND
Dimethylphthalate	1	mg/kg	0.036	ND
Di-n-butylphthalate	1	mg/kg	0.018	ND
Di-n-octylphthalate	1	mg/kg	0.036	ND
Fluoranthene	**1**	**mg/kg**	**0.036**	**0.039**
Fluorene	1	mg/kg	0.036	ND
Hexachlorobenzene	1	mg/kg	0.036	ND
Hexachlorobutadiene	1	mg/kg	0.036	ND
Hexachlorocyclopentadiene	1	mg/kg	0.036	ND
Hexachloroethane	1	mg/kg	0.036	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.036	ND
Isophorone	1	mg/kg	0.036	ND
Naphthalene	1	mg/kg	0.0090	ND
Nitrobenzene	1	mg/kg	0.036	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0090	ND
N-Nitrosodiphenylamine	1	mg/kg	0.036	ND
Pentachlorophenol	1	mg/kg	0.18	ND
Phenanthrene	1	mg/kg	0.036	ND
Phenol	1	mg/kg	0.036	ND
Pyrene	**1**	**mg/kg**	**0.036**	**0.048**

Sample ID: BASE 1(3-5')
Lab#: AC78787-022
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	mg/kg	220	5900
Arsenic	1	mg/kg	4.3	5.4
Barium	1	mg/kg	11	41
Calcium	1	mg/kg	1100	11000
Chromium	1	mg/kg	5.4	53
Cobalt	1	mg/kg	2.7	5.8
Copper	1	mg/kg	5.4	21
Iron	1	mg/kg	220	12000
Lead	1	mg/kg	5.4	77
Magnesium	1	mg/kg	540	9800
Manganese	1	mg/kg	11	190
Nickel	1	mg/kg	5.4	40
Potassium	1	mg/kg	540	2000
Sodium	1	mg/kg	270	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	1	mg/kg	11	18
Zinc	1	mg/kg	11	87

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.86	ND
Beryllium	1	mg/kg	0.22	ND
Cadmium	1	mg/kg	0.43	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.998	mg/kg	0.0021	ND
1,1,2,2-Tetrachloroethane	0.998	mg/kg	0.0021	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.998	mg/kg	0.0021	ND
1,1,2-Trichloroethane	0.998	mg/kg	0.0021	ND
1,1-Dichloroethane	0.998	mg/kg	0.0021	ND
1,1-Dichloroethene	0.998	mg/kg	0.0021	ND
1,2,3-Trichlorobenzene	0.998	mg/kg	0.0021	ND
1,2,4-Trichlorobenzene	0.998	mg/kg	0.0021	ND
1,2-Dibromo-3-chloropropane	0.998	mg/kg	0.0021	ND
1,2-Dibromoethane	0.998	mg/kg	0.0021	ND
1,2-Dichlorobenzene	0.998	mg/kg	0.0021	ND
1,2-Dichloroethane	0.998	mg/kg	0.0021	ND
1,2-Dichloropropane	0.998	mg/kg	0.0021	ND
1,3-Dichlorobenzene	0.998	mg/kg	0.0021	ND
1,4-Dichlorobenzene	0.998	mg/kg	0.0021	ND
1,4-Dioxane	0.998	mg/kg	0.11	ND
2-Butanone	0.998	mg/kg	0.0021	ND
2-Hexanone	0.998	mg/kg	0.0021	ND
4-Methyl-2-pentanone	0.998	mg/kg	0.0021	ND
Acetone	0.998	mg/kg	0.011	ND
Benzene	0.998	mg/kg	0.0011	ND
Bromochloromethane	0.998	mg/kg	0.0021	ND
Bromodichloromethane	0.998	mg/kg	0.0021	ND
Bromoform	0.998	mg/kg	0.0021	ND
Bromomethane	0.998	mg/kg	0.0021	ND
Carbon disulfide	0.998	mg/kg	0.0021	ND
Carbon tetrachloride	0.998	mg/kg	0.0021	ND

Sample ID: BASE 1(3-5')
Lab#: AC78787-022
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

Chlorobenzene	0.998	mg/kg	0.0021	ND
Chloroethane	0.998	mg/kg	0.0021	ND
Chloroform	0.998	mg/kg	0.0021	ND
Chloromethane	0.998	mg/kg	0.0021	ND
cis-1,2-Dichloroethene	0.998	mg/kg	0.0021	ND
cis-1,3-Dichloropropene	0.998	mg/kg	0.0021	ND
Cyclohexane	0.998	mg/kg	0.0021	ND
Dibromochloromethane	0.998	mg/kg	0.0021	ND
Dichlorodifluoromethane	0.998	mg/kg	0.0021	ND
Ethylbenzene	0.998	mg/kg	0.0011	ND
Isopropylbenzene	0.998	mg/kg	0.0011	ND
m&p-Xylenes	0.998	mg/kg	0.0011	ND
Methyl Acetate	0.998	mg/kg	0.0021	ND
Methylcyclohexane	0.998	mg/kg	0.0021	ND
Methylene chloride	0.998	mg/kg	0.0021	ND
Methyl-t-butyl ether	0.998	mg/kg	0.0011	ND
o-Xylene	0.998	mg/kg	0.0011	ND
Styrene	0.998	mg/kg	0.0021	ND
Tetrachloroethene	0.998	mg/kg	0.0021	ND
Toluene	0.998	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.998	mg/kg	0.0021	ND
trans-1,3-Dichloropropene	0.998	mg/kg	0.0021	ND
Trichloroethene	0.998	mg/kg	0.0021	ND
Trichlorofluoromethane	0.998	mg/kg	0.0021	ND
Vinyl chloride	0.998	mg/kg	0.0021	ND
Xylenes (Total)	0.998	mg/kg	0.0011	ND

Sample ID: BASE 2 (0-2')
Lab#: AC78787-023
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		93

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.090	0.091

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0054	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND
delta-BHC	1	mg/kg	0.0054	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0054	ND
Endosulfan II	1	mg/kg	0.0054	ND
Endosulfan Sulfate	1	mg/kg	0.0054	ND
Endrin	1	mg/kg	0.0054	ND
Endrin Aldehyde	1	mg/kg	0.0054	ND
Endrin Ketone	1	mg/kg	0.0054	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0054	ND
Heptachlor Epoxide	1	mg/kg	0.0054	ND
Methoxychlor	1	mg/kg	0.0054	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	1	mg/kg	0.0027	ND
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.036	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.036	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.036	ND
2,4,5-Trichlorophenol	1	mg/kg	0.036	ND
2,4,6-Trichlorophenol	1	mg/kg	0.036	ND
2,4-Dichlorophenol	1	mg/kg	0.0090	ND
2,4-Dimethylphenol	1	mg/kg	0.0090	ND
2,4-Dinitrophenol	1	mg/kg	0.18	ND
2,4-Dinitrotoluene	1	mg/kg	0.036	ND
2,6-Dinitrotoluene	1	mg/kg	0.036	ND
2-Chloronaphthalene	1	mg/kg	0.036	ND

Sample ID: BASE 2 (0-2')
Lab#: AC78787-023
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

2-Chlorophenol	1	mg/kg	0.036	ND
2-Methylnaphthalene	1	mg/kg	0.036	ND
2-Methylphenol	1	mg/kg	0.0090	ND
2-Nitroaniline	1	mg/kg	0.036	ND
2-Nitrophenol	1	mg/kg	0.036	ND
3&4-Methylphenol	1	mg/kg	0.0090	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.036	ND
3-Nitroaniline	1	mg/kg	0.036	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.18	ND
4-Bromophenyl-phenylether	1	mg/kg	0.036	ND
4-Chloro-3-methylphenol	1	mg/kg	0.036	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.036	ND
4-Nitroaniline	1	mg/kg	0.036	ND
4-Nitrophenol	1	mg/kg	0.036	ND
Acenaphthene	1	mg/kg	0.036	ND
Acenaphthylene	1	mg/kg	0.036	ND
Acetophenone	1	mg/kg	0.036	ND
Anthracene	1	mg/kg	0.036	ND
Atrazine	1	mg/kg	0.036	ND
Benzaldehyde	1	mg/kg	0.036	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.036**	**0.046**
Benzo[a]pyrene	**1**	**mg/kg**	**0.036**	**0.040**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.036**	**0.050**
Benzo[g,h,i]perylene	1	mg/kg	0.036	ND
Benzo[k]fluoranthene	1	mg/kg	0.036	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.036	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0090	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.036	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.036**	**0.18**
Butylbenzylphthalate	1	mg/kg	0.036	ND
Caprolactam	1	mg/kg	0.036	ND
Carbazole	1	mg/kg	0.036	ND
Chrysene	**1**	**mg/kg**	**0.036**	**0.044**
Dibenzo[a,h]anthracene	1	mg/kg	0.036	ND
Dibenzofuran	1	mg/kg	0.0090	ND
Diethylphthalate	1	mg/kg	0.036	ND
Dimethylphthalate	1	mg/kg	0.036	ND
Di-n-butylphthalate	1	mg/kg	0.018	ND
Di-n-octylphthalate	1	mg/kg	0.036	ND
Fluoranthene	**1**	**mg/kg**	**0.036**	**0.081**
Fluorene	1	mg/kg	0.036	ND
Hexachlorobenzene	1	mg/kg	0.036	ND
Hexachlorobutadiene	1	mg/kg	0.036	ND
Hexachlorocyclopentadiene	1	mg/kg	0.036	ND
Hexachloroethane	1	mg/kg	0.036	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.036	ND
Isophorone	1	mg/kg	0.036	ND
Naphthalene	1	mg/kg	0.0090	ND
Nitrobenzene	1	mg/kg	0.036	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0090	ND
N-Nitrosodiphenylamine	1	mg/kg	0.036	ND
Pentachlorophenol	1	mg/kg	0.18	ND
Phenanthrene	**1**	**mg/kg**	**0.036**	**0.057**
Phenol	1	mg/kg	0.036	ND
Pyrene	**1**	**mg/kg**	**0.036**	**0.080**

Sample ID: BASE 2 (0-2')
Lab#: AC78787-023
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	mg/kg	220	4800
Arsenic	1	mg/kg	4.3	19
Barium	1	mg/kg	11	43
Calcium	1	mg/kg	1100	15000
Chromium	1	mg/kg	5.4	11
Cobalt	1	mg/kg	2.7	4.1
Copper	1	mg/kg	5.4	17
Iron	1	mg/kg	220	8300
Lead	1	mg/kg	5.4	37
Magnesium	1	mg/kg	540	3900
Manganese	1	mg/kg	11	240
Nickel	1	mg/kg	5.4	24
Potassium	1	mg/kg	540	1300
Sodium	1	mg/kg	270	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	1	mg/kg	11	15
Zinc	1	mg/kg	11	27

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.86	ND
Beryllium	1	mg/kg	0.22	0.22
Cadmium	1	mg/kg	0.43	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	1	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	mg/kg	0.0022	ND
1,1,2-Trichloroethane	1	mg/kg	0.0022	ND
1,1-Dichloroethane	1	mg/kg	0.0022	ND
1,1-Dichloroethene	1	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	1	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	1	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	1	mg/kg	0.0022	ND
1,2-Dibromoethane	1	mg/kg	0.0022	ND
1,2-Dichlorobenzene	1	mg/kg	0.0022	ND
1,2-Dichloroethane	1	mg/kg	0.0022	ND
1,2-Dichloropropane	1	mg/kg	0.0022	ND
1,3-Dichlorobenzene	1	mg/kg	0.0022	ND
1,4-Dichlorobenzene	1	mg/kg	0.0022	ND
1,4-Dioxane	1	mg/kg	0.11	ND
2-Butanone	1	mg/kg	0.0022	ND
2-Hexanone	1	mg/kg	0.0022	ND
4-Methyl-2-pentanone	1	mg/kg	0.0022	ND
Acetone	1	mg/kg	0.011	ND
Benzene	1	mg/kg	0.0011	ND
Bromochloromethane	1	mg/kg	0.0022	ND
Bromodichloromethane	1	mg/kg	0.0022	ND
Bromoform	1	mg/kg	0.0022	ND
Bromomethane	1	mg/kg	0.0022	ND
Carbon disulfide	1	mg/kg	0.0022	ND
Carbon tetrachloride	1	mg/kg	0.0022	ND

Sample ID: BASE 2 (0-2') **Collection Date: 5/19/2014**
Lab#: AC78787-023 **Receipt Date: 5/20/2014**
Matrix: Soil

Chlorobenzene	1	mg/kg	0.0022	ND
Chloroethane	1	mg/kg	0.0022	ND
Chloroform	1	mg/kg	0.0022	ND
Chloromethane	1	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	1	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	1	mg/kg	0.0022	ND
Cyclohexane	1	mg/kg	0.0022	ND
Dibromochloromethane	1	mg/kg	0.0022	ND
Dichlorodifluoromethane	1	mg/kg	0.0022	ND
Ethylbenzene	1	mg/kg	0.0011	ND
Isopropylbenzene	1	mg/kg	0.0011	ND
m&p-Xylenes	1	mg/kg	0.0011	ND
Methyl Acetate	1	mg/kg	0.0022	ND
Methylcyclohexane	1	mg/kg	0.0022	ND
Methylene chloride	1	mg/kg	0.0022	ND
Methyl-t-butyl ether	1	mg/kg	0.0011	ND
o-Xylene	1	mg/kg	0.0011	ND
Styrene	1	mg/kg	0.0022	ND
Tetrachloroethene	1	mg/kg	0.0022	ND
Toluene	1	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	1	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	1	mg/kg	0.0022	ND
Trichloroethene	1	mg/kg	0.0022	ND
Trichlorofluoromethane	1	mg/kg	0.0022	ND
Vinyl chloride	1	mg/kg	0.0022	ND
Xylenes (Total)	1	mg/kg	0.0011	ND

Sample ID: BASE 2 (3-5')
Lab#: AC78787-024
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		95

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.088	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0053	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.026	ND
delta-BHC	1	mg/kg	0.0053	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0053	ND
Endosulfan II	1	mg/kg	0.0053	ND
Endosulfan Sulfate	1	mg/kg	0.0053	ND
Endrin	1	mg/kg	0.0053	ND
Endrin Aldehyde	1	mg/kg	0.0053	ND
Endrin Ketone	1	mg/kg	0.0053	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0053	ND
Heptachlor Epoxide	1	mg/kg	0.0053	ND
Methoxychlor	1	mg/kg	0.0053	ND
p,p'-DDD	1	mg/kg	0.0026	ND
p,p'-DDE	1	mg/kg	0.0026	ND
p,p'-DDT	1	mg/kg	0.0026	ND
Toxaphene	1	mg/kg	0.026	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	ND
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	ND
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	ND
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.035	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.035	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.035	ND
2,4,5-Trichlorophenol	1	mg/kg	0.035	ND
2,4,6-Trichlorophenol	1	mg/kg	0.035	ND
2,4-Dichlorophenol	1	mg/kg	0.0088	ND
2,4-Dimethylphenol	1	mg/kg	0.0088	ND
2,4-Dinitrophenol	1	mg/kg	0.18	ND
2,4-Dinitrotoluene	1	mg/kg	0.035	ND
2,6-Dinitrotoluene	1	mg/kg	0.035	ND
2-Chloronaphthalene	1	mg/kg	0.035	ND

Sample ID: BASE 2 (3-5') **Collection Date: 5/19/2014**
Lab#: AC78787-024 **Receipt Date: 5/20/2014**
Matrix: Soil

2-Chlorophenol	1	mg/kg	0.035	ND
2-Methylnaphthalene	1	mg/kg	0.035	ND
2-Methylphenol	1	mg/kg	0.0088	ND
2-Nitroaniline	1	mg/kg	0.035	ND
2-Nitrophenol	1	mg/kg	0.035	ND
3&4-Methylphenol	1	mg/kg	0.0088	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.035	ND
3-Nitroaniline	1	mg/kg	0.035	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.18	ND
4-Bromophenyl-phenylether	1	mg/kg	0.035	ND
4-Chloro-3-methylphenol	1	mg/kg	0.035	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.035	ND
4-Nitroaniline	1	mg/kg	0.035	ND
4-Nitrophenol	1	mg/kg	0.035	ND
Acenaphthene	1	mg/kg	0.035	ND
Acenaphthylene	1	mg/kg	0.035	ND
Acetophenone	1	mg/kg	0.035	ND
Anthracene	1	mg/kg	0.035	ND
Atrazine	1	mg/kg	0.035	ND
Benzaldehyde	1	mg/kg	0.035	ND
Benzo[a]anthracene	1	mg/kg	0.035	ND
Benzo[a]pyrene	1	mg/kg	0.035	ND
Benzo[b]fluoranthene	1	mg/kg	0.035	ND
Benzo[g,h,i]perylene	1	mg/kg	0.035	ND
Benzo[k]fluoranthene	1	mg/kg	0.035	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.035	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0088	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.035	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.035**	**0.38**
Butylbenzylphthalate	1	mg/kg	0.035	ND
Caprolactam	1	mg/kg	0.035	ND
Carbazole	1	mg/kg	0.035	ND
Chrysene	1	mg/kg	0.035	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.035	ND
Dibenzofuran	1	mg/kg	0.0088	ND
Diethylphthalate	1	mg/kg	0.035	ND
Dimethylphthalate	1	mg/kg	0.035	ND
Di-n-butylphthalate	1	mg/kg	0.018	ND
Di-n-octylphthalate	1	mg/kg	0.035	ND
Fluoranthene	1	mg/kg	0.035	ND
Fluorene	1	mg/kg	0.035	ND
Hexachlorobenzene	1	mg/kg	0.035	ND
Hexachlorobutadiene	1	mg/kg	0.035	ND
Hexachlorocyclopentadiene	1	mg/kg	0.035	ND
Hexachloroethane	1	mg/kg	0.035	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.035	ND
Isophorone	1	mg/kg	0.035	ND
Naphthalene	1	mg/kg	0.0088	ND
Nitrobenzene	1	mg/kg	0.035	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0088	ND
N-Nitrosodiphenylamine	1	mg/kg	0.035	ND
Pentachlorophenol	1	mg/kg	0.18	ND
Phenanthrene	1	mg/kg	0.035	ND
Phenol	1	mg/kg	0.035	ND
Pyrene	1	mg/kg	0.035	ND

Sample ID: BASE 2 (3-5')
Lab#: AC78787-024
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**210**	**5900**
Arsenic	**1**	**mg/kg**	**4.2**	**5.2**
Barium	**1**	**mg/kg**	**11**	**52**
Calcium	**1**	**mg/kg**	**1100**	**13000**
Chromium	**1**	**mg/kg**	**5.3**	**14**
Cobalt	**1**	**mg/kg**	**2.6**	**4.8**
Copper	**1**	**mg/kg**	**5.3**	**18**
Iron	**1**	**mg/kg**	**210**	**11000**
Lead	**1**	**mg/kg**	**5.3**	**8.6**
Magnesium	**1**	**mg/kg**	**530**	**4000**
Manganese	**1**	**mg/kg**	**11**	**230**
Nickel	**1**	**mg/kg**	**5.3**	**30**
Potassium	**1**	**mg/kg**	**530**	**1900**
Sodium	1	mg/kg	260	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**19**
Zinc	**1**	**mg/kg**	**11**	**34**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.84	ND
Beryllium	1	mg/kg	0.21	ND
Cadmium	1	mg/kg	0.42	ND
Selenium	1	mg/kg	2.1	ND
Silver	1	mg/kg	0.21	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	mg/kg	0.0021	ND
1,1,2,2-Tetrachloroethane	1	mg/kg	0.0021	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	mg/kg	0.0021	ND
1,1,2-Trichloroethane	1	mg/kg	0.0021	ND
1,1-Dichloroethane	1	mg/kg	0.0021	ND
1,1-Dichloroethene	1	mg/kg	0.0021	ND
1,2,3-Trichlorobenzene	1	mg/kg	0.0021	ND
1,2,4-Trichlorobenzene	1	mg/kg	0.0021	ND
1,2-Dibromo-3-chloropropane	1	mg/kg	0.0021	ND
1,2-Dibromoethane	1	mg/kg	0.0021	ND
1,2-Dichlorobenzene	1	mg/kg	0.0021	ND
1,2-Dichloroethane	1	mg/kg	0.0021	ND
1,2-Dichloropropane	1	mg/kg	0.0021	ND
1,3-Dichlorobenzene	1	mg/kg	0.0021	ND
1,4-Dichlorobenzene	1	mg/kg	0.0021	ND
1,4-Dioxane	1	mg/kg	0.11	ND
2-Butanone	1	mg/kg	0.0021	ND
2-Hexanone	1	mg/kg	0.0021	ND
4-Methyl-2-pentanone	1	mg/kg	0.0021	ND
Acetone	1	mg/kg	0.011	ND
Benzene	1	mg/kg	0.0011	ND
Bromochloromethane	1	mg/kg	0.0021	ND
Bromodichloromethane	1	mg/kg	0.0021	ND
Bromoform	1	mg/kg	0.0021	ND
Bromomethane	1	mg/kg	0.0021	ND
Carbon disulfide	1	mg/kg	0.0021	ND
Carbon tetrachloride	1	mg/kg	0.0021	ND

Sample ID: BASE 2 (3-5')
Lab#: AC78787-024
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

Chlorobenzene	1	mg/kg	0.0021	ND
Chloroethane	1	mg/kg	0.0021	ND
Chloroform	1	mg/kg	0.0021	ND
Chloromethane	1	mg/kg	0.0021	ND
cis-1,2-Dichloroethene	1	mg/kg	0.0021	ND
cis-1,3-Dichloropropene	1	mg/kg	0.0021	ND
Cyclohexane	1	mg/kg	0.0021	ND
Dibromochloromethane	1	mg/kg	0.0021	ND
Dichlorodifluoromethane	1	mg/kg	0.0021	ND
Ethylbenzene	1	mg/kg	0.0011	ND
Isopropylbenzene	1	mg/kg	0.0011	ND
m&p-Xylenes	1	mg/kg	0.0011	ND
Methyl Acetate	1	mg/kg	0.0021	ND
Methylcyclohexane	1	mg/kg	0.0021	ND
Methylene chloride	1	mg/kg	0.0021	ND
Methyl-t-butyl ether	1	mg/kg	0.0011	ND
o-Xylene	1	mg/kg	0.0011	ND
Styrene	1	mg/kg	0.0021	ND
Tetrachloroethene	1	mg/kg	0.0021	ND
Toluene	1	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	1	mg/kg	0.0021	ND
trans-1,3-Dichloropropene	1	mg/kg	0.0021	ND
Trichloroethene	1	mg/kg	0.0021	ND
Trichlorofluoromethane	1	mg/kg	0.0021	ND
Vinyl chloride	1	mg/kg	0.0021	ND
Xylenes (Total)	1	mg/kg	0.0011	ND

Sample ID: BASE 3 (0-2')
Lab#: AC78787-025
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		92

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.091	0.16

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0054	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND
delta-BHC	1	mg/kg	0.0054	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0054	ND
Endosulfan II	1	mg/kg	0.0054	ND
Endosulfan Sulfate	1	mg/kg	0.0054	ND
Endrin	1	mg/kg	0.0054	ND
Endrin Aldehyde	1	mg/kg	0.0054	ND
Endrin Ketone	1	mg/kg	0.0054	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0054	ND
Heptachlor Epoxide	1	mg/kg	0.0054	ND
Methoxychlor	1	mg/kg	0.0054	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	1	mg/kg	0.0027	ND
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.036	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.036	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.036	ND
2,4,5-Trichlorophenol	1	mg/kg	0.036	ND
2,4,6-Trichlorophenol	1	mg/kg	0.036	ND
2,4-Dichlorophenol	1	mg/kg	0.0091	ND
2,4-Dimethylphenol	1	mg/kg	0.0091	ND
2,4-Dinitrophenol	1	mg/kg	0.18	ND
2,4-Dinitrotoluene	1	mg/kg	0.036	ND
2,6-Dinitrotoluene	1	mg/kg	0.036	ND
2-Chloronaphthalene	1	mg/kg	0.036	ND

Sample ID: BASE 3 (0-2') **Collection Date: 5/19/2014**
Lab#: AC78787-025 **Receipt Date: 5/20/2014**
Matrix: Soil

2-Chlorophenol	1	mg/kg	0.036	ND
2-Methylnaphthalene	1	mg/kg	0.036	ND
2-Methylphenol	1	mg/kg	0.0091	ND
2-Nitroaniline	1	mg/kg	0.036	ND
2-Nitrophenol	1	mg/kg	0.036	ND
3&4-Methylphenol	1	mg/kg	0.0091	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.036	ND
3-Nitroaniline	1	mg/kg	0.036	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.18	ND
4-Bromophenyl-phenylether	1	mg/kg	0.036	ND
4-Chloro-3-methylphenol	1	mg/kg	0.036	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.036	ND
4-Nitroaniline	1	mg/kg	0.036	ND
4-Nitrophenol	1	mg/kg	0.036	ND
Acenaphthene	1	mg/kg	0.036	ND
Acenaphthylene	1	mg/kg	0.036	ND
Acetophenone	1	mg/kg	0.036	ND
Anthracene	1	mg/kg	0.036	ND
Atrazine	1	mg/kg	0.036	ND
Benzaldehyde	1	mg/kg	0.036	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.036**	**0.077**
Benzo[a]pyrene	**1**	**mg/kg**	**0.036**	**0.061**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.036**	**0.086**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.036**	**0.039**
Benzo[k]fluoranthene	1	mg/kg	0.036	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.036	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0091	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.036	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.036**	**0.12**
Butylbenzylphthalate	1	mg/kg	0.036	ND
Caprolactam	1	mg/kg	0.036	ND
Carbazole	1	mg/kg	0.036	ND
Chrysene	**1**	**mg/kg**	**0.036**	**0.076**
Dibenzo[a,h]anthracene	1	mg/kg	0.036	ND
Dibenzofuran	1	mg/kg	0.0091	ND
Diethylphthalate	1	mg/kg	0.036	ND
Dimethylphthalate	1	mg/kg	0.036	ND
Di-n-butylphthalate	1	mg/kg	0.018	ND
Di-n-octylphthalate	1	mg/kg	0.036	ND
Fluoranthene	**1**	**mg/kg**	**0.036**	**0.16**
Fluorene	1	mg/kg	0.036	ND
Hexachlorobenzene	1	mg/kg	0.036	ND
Hexachlorobutadiene	1	mg/kg	0.036	ND
Hexachlorocyclopentadiene	1	mg/kg	0.036	ND
Hexachloroethane	1	mg/kg	0.036	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.036	ND
Isophorone	1	mg/kg	0.036	ND
Naphthalene	**1**	**mg/kg**	**0.0091**	**0.010**
Nitrobenzene	1	mg/kg	0.036	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0091	ND
N-Nitrosodiphenylamine	1	mg/kg	0.036	ND
Pentachlorophenol	1	mg/kg	0.18	ND
Phenanthrene	**1**	**mg/kg**	**0.036**	**0.11**
Phenol	**1**	**mg/kg**	**0.036**	**0.049**
Pyrene	**1**	**mg/kg**	**0.036**	**0.14**

Sample ID: BASE 3 (0-2')
Lab#: AC78787-025
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**220**	**6600**
Arsenic	**1**	**mg/kg**	**4.3**	**37**
Barium	**1**	**mg/kg**	**11**	**67**
Calcium	**1**	**mg/kg**	**1100**	**20000**
Chromium	**1**	**mg/kg**	**5.4**	**14**
Cobalt	**1**	**mg/kg**	**2.7**	**5.4**
Copper	**1**	**mg/kg**	**5.4**	**30**
Iron	**1**	**mg/kg**	**220**	**12000**
Lead	**1**	**mg/kg**	**5.4**	**79**
Magnesium	**1**	**mg/kg**	**540**	**4700**
Manganese	**1**	**mg/kg**	**11**	**340**
Nickel	**1**	**mg/kg**	**5.4**	**32**
Potassium	**1**	**mg/kg**	**540**	**1700**
Sodium	**1**	**mg/kg**	**270**	**280**
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**21**
Zinc	**1**	**mg/kg**	**11**	**42**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.87	ND
Beryllium	**1**	**mg/kg**	**0.22**	**0.30**
Cadmium	1	mg/kg	0.43	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.996	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.996	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.996	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.996	mg/kg	0.0022	ND
1,1-Dichloroethane	0.996	mg/kg	0.0022	ND
1,1-Dichloroethene	0.996	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.996	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.996	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.996	mg/kg	0.0022	ND
1,2-Dibromoethane	0.996	mg/kg	0.0022	ND
1,2-Dichlorobenzene	0.996	mg/kg	0.0022	ND
1,2-Dichloroethane	0.996	mg/kg	0.0022	ND
1,2-Dichloropropane	0.996	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.996	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.996	mg/kg	0.0022	ND
1,4-Dioxane	0.996	mg/kg	0.11	ND
2-Butanone	0.996	mg/kg	0.0022	ND
2-Hexanone	0.996	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.996	mg/kg	0.0022	ND
Acetone	0.996	mg/kg	0.011	ND
Benzene	0.996	mg/kg	0.0011	ND
Bromochloromethane	0.996	mg/kg	0.0022	ND
Bromodichloromethane	0.996	mg/kg	0.0022	ND
Bromoform	0.996	mg/kg	0.0022	ND
Bromomethane	0.996	mg/kg	0.0022	ND
Carbon disulfide	0.996	mg/kg	0.0022	ND
Carbon tetrachloride	0.996	mg/kg	0.0022	ND

Sample ID: BASE 3 (0-2') **Collection Date: 5/19/2014**
Lab#: AC78787-025 **Receipt Date: 5/20/2014**
Matrix: Soil

Chlorobenzene	0.996	mg/kg	0.0022	ND
Chloroethane	0.996	mg/kg	0.0022	ND
Chloroform	0.996	mg/kg	0.0022	ND
Chloromethane	0.996	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.996	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.996	mg/kg	0.0022	ND
Cyclohexane	0.996	mg/kg	0.0022	ND
Dibromochloromethane	0.996	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.996	mg/kg	0.0022	ND
Ethylbenzene	0.996	mg/kg	0.0011	ND
Isopropylbenzene	0.996	mg/kg	0.0011	ND
m&p-Xylenes	0.996	mg/kg	0.0011	ND
Methyl Acetate	0.996	mg/kg	0.0022	ND
Methylcyclohexane	0.996	mg/kg	0.0022	ND
Methylene chloride	0.996	mg/kg	0.0022	ND
Methyl-t-butyl ether	0.996	mg/kg	0.0011	ND
o-Xylene	0.996	mg/kg	0.0011	ND
Styrene	0.996	mg/kg	0.0022	ND
Tetrachloroethene	**0.996**	**mg/kg**	**0.0022**	**0.0052**
Toluene	0.996	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.996	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.996	mg/kg	0.0022	ND
Trichloroethene	0.996	mg/kg	0.0022	ND
Trichlorofluoromethane	0.996	mg/kg	0.0022	ND
Vinyl chloride	0.996	mg/kg	0.0022	ND
Xylenes (Total)	0.996	mg/kg	0.0011	ND

Sample ID: BASE 3 (3-5')
Lab#: AC78787-026
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		93

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.090	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0054	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND
delta-BHC	1	mg/kg	0.0054	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0054	ND
Endosulfan II	1	mg/kg	0.0054	ND
Endosulfan Sulfate	1	mg/kg	0.0054	ND
Endrin	1	mg/kg	0.0054	ND
Endrin Aldehyde	1	mg/kg	0.0054	ND
Endrin Ketone	1	mg/kg	0.0054	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0054	ND
Heptachlor Epoxide	1	mg/kg	0.0054	ND
Methoxychlor	1	mg/kg	0.0054	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	1	mg/kg	0.0027	ND
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.036	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.036	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.036	ND
2,4,5-Trichlorophenol	1	mg/kg	0.036	ND
2,4,6-Trichlorophenol	1	mg/kg	0.036	ND
2,4-Dichlorophenol	1	mg/kg	0.0090	ND
2,4-Dimethylphenol	1	mg/kg	0.0090	ND
2,4-Dinitrophenol	1	mg/kg	0.18	ND
2,4-Dinitrotoluene	1	mg/kg	0.036	ND
2,6-Dinitrotoluene	1	mg/kg	0.036	ND
2-Chloronaphthalene	1	mg/kg	0.036	ND

Sample ID: BASE 3 (3-5') **Collection Date: 5/19/2014**
Lab#: AC78787-026 **Receipt Date: 5/20/2014**
Matrix: Soil

2-Chlorophenol	1	mg/kg	0.036	ND
2-Methylnaphthalene	1	mg/kg	0.036	ND
2-Methylphenol	1	mg/kg	0.0090	ND
2-Nitroaniline	1	mg/kg	0.036	ND
2-Nitrophenol	1	mg/kg	0.036	ND
3&4-Methylphenol	1	mg/kg	0.0090	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.036	ND
3-Nitroaniline	1	mg/kg	0.036	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.18	ND
4-Bromophenyl-phenylether	1	mg/kg	0.036	ND
4-Chloro-3-methylphenol	1	mg/kg	0.036	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.036	ND
4-Nitroaniline	1	mg/kg	0.036	ND
4-Nitrophenol	1	mg/kg	0.036	ND
Acenaphthene	1	mg/kg	0.036	ND
Acenaphthylene	1	mg/kg	0.036	ND
Acetophenone	1	mg/kg	0.036	ND
Anthracene	1	mg/kg	0.036	ND
Atrazine	1	mg/kg	0.036	ND
Benzaldehyde	1	mg/kg	0.036	ND
Benzo[a]anthracene	1	mg/kg	0.036	ND
Benzo[a]pyrene	1	mg/kg	0.036	ND
Benzo[b]fluoranthene	1	mg/kg	0.036	ND
Benzo[g,h,i]perylene	1	mg/kg	0.036	ND
Benzo[k]fluoranthene	1	mg/kg	0.036	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.036	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0090	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.036	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.036**	**0.59**
Butylbenzylphthalate	1	mg/kg	0.036	ND
Caprolactam	1	mg/kg	0.036	ND
Carbazole	1	mg/kg	0.036	ND
Chrysene	1	mg/kg	0.036	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.036	ND
Dibenzofuran	1	mg/kg	0.0090	ND
Diethylphthalate	1	mg/kg	0.036	ND
Dimethylphthalate	1	mg/kg	0.036	ND
Di-n-butylphthalate	1	mg/kg	0.018	ND
Di-n-octylphthalate	1	mg/kg	0.036	ND
Fluoranthene	1	mg/kg	0.036	ND
Fluorene	1	mg/kg	0.036	ND
Hexachlorobenzene	1	mg/kg	0.036	ND
Hexachlorobutadiene	1	mg/kg	0.036	ND
Hexachlorocyclopentadiene	1	mg/kg	0.036	ND
Hexachloroethane	1	mg/kg	0.036	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.036	ND
Isophorone	1	mg/kg	0.036	ND
Naphthalene	1	mg/kg	0.0090	ND
Nitrobenzene	1	mg/kg	0.036	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0090	ND
N-Nitrosodiphenylamine	1	mg/kg	0.036	ND
Pentachlorophenol	1	mg/kg	0.18	ND
Phenanthrene	1	mg/kg	0.036	ND
Phenol	**1**	**mg/kg**	**0.036**	**0.051**
Pyrene	1	mg/kg	0.036	ND

Sample ID: BASE 3 (3-5')
Lab#: AC78787-026
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**220**	**5900**
Arsenic	**1**	**mg/kg**	**4.3**	**11**
Barium	**1**	**mg/kg**	**11**	**43**
Calcium	**1**	**mg/kg**	**1100**	**6500**
Chromium	**1**	**mg/kg**	**5.4**	**18**
Cobalt	**1**	**mg/kg**	**2.7**	**4.8**
Copper	**1**	**mg/kg**	**5.4**	**19**
Iron	**1**	**mg/kg**	**220**	**12000**
Lead	**1**	**mg/kg**	**5.4**	**23**
Magnesium	**1**	**mg/kg**	**540**	**3800**
Manganese	**1**	**mg/kg**	**11**	**180**
Nickel	**1**	**mg/kg**	**5.4**	**44**
Potassium	**1**	**mg/kg**	**540**	**1600**
Sodium	1	mg/kg	270	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**21**
Zinc	**1**	**mg/kg**	**11**	**37**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.86	ND
Beryllium	1	mg/kg	0.22	ND
Cadmium	1	mg/kg	0.43	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	1	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	mg/kg	0.0022	ND
1,1,2-Trichloroethane	1	mg/kg	0.0022	ND
1,1-Dichloroethane	1	mg/kg	0.0022	ND
1,1-Dichloroethene	1	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	1	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	1	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	1	mg/kg	0.0022	ND
1,2-Dibromoethane	1	mg/kg	0.0022	ND
1,2-Dichlorobenzene	1	mg/kg	0.0022	ND
1,2-Dichloroethane	1	mg/kg	0.0022	ND
1,2-Dichloropropane	1	mg/kg	0.0022	ND
1,3-Dichlorobenzene	1	mg/kg	0.0022	ND
1,4-Dichlorobenzene	1	mg/kg	0.0022	ND
1,4-Dioxane	1	mg/kg	0.11	ND
2-Butanone	1	mg/kg	0.0022	ND
2-Hexanone	1	mg/kg	0.0022	ND
4-Methyl-2-pentanone	1	mg/kg	0.0022	ND
Acetone	1	mg/kg	0.011	ND
Benzene	1	mg/kg	0.0011	ND
Bromochloromethane	1	mg/kg	0.0022	ND
Bromodichloromethane	1	mg/kg	0.0022	ND
Bromoform	1	mg/kg	0.0022	ND
Bromomethane	1	mg/kg	0.0022	ND
Carbon disulfide	1	mg/kg	0.0022	ND
Carbon tetrachloride	1	mg/kg	0.0022	ND

Sample ID: BASE 3 (3-5')
Lab#: AC78787-026
Matrix: Soil

Collection Date: 5/19/2014
Receipt Date: 5/20/2014

Chlorobenzene	1	mg/kg	0.0022	ND
Chloroethane	1	mg/kg	0.0022	ND
Chloroform	1	mg/kg	0.0022	ND
Chloromethane	1	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	1	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	1	mg/kg	0.0022	ND
Cyclohexane	1	mg/kg	0.0022	ND
Dibromochloromethane	1	mg/kg	0.0022	ND
Dichlorodifluoromethane	1	mg/kg	0.0022	ND
Ethylbenzene	1	mg/kg	0.0011	ND
Isopropylbenzene	1	mg/kg	0.0011	ND
m&p-Xylenes	1	mg/kg	0.0011	ND
Methyl Acetate	1	mg/kg	0.0022	ND
Methylcyclohexane	1	mg/kg	0.0022	ND
Methylene chloride	1	mg/kg	0.0022	ND
Methyl-t-butyl ether	1	mg/kg	0.0011	ND
o-Xylene	1	mg/kg	0.0011	ND
Styrene	1	mg/kg	0.0022	ND
Tetrachloroethene	**1**	**mg/kg**	**0.0022**	**0.0029**
Toluene	1	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	1	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	1	mg/kg	0.0022	ND
Trichloroethene	1	mg/kg	0.0022	ND
Trichlorofluoromethane	1	mg/kg	0.0022	ND
Vinyl chloride	1	mg/kg	0.0022	ND
Xylenes (Total)	1	mg/kg	0.0011	ND

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-001
Client Id: EXT1(0-2')
Data File: 6M10534.D
Analysis Date: 05/24/14 00:17
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.02g
Final Vol: NA
Dilution: 0.996
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0024	U	56-23-5	Carbon Tetrachloride	0.0024	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0024	U	108-90-7	Chlorobenzene	0.0024	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0024	U	75-00-3	Chloroethane	0.0024	U
79-00-5	1,1,2-Trichloroethane	0.0024	U	67-66-3	Chloroform	0.0024	U
75-34-3	1,1-Dichloroethane	0.0024	U	74-87-3	Chloromethane	0.0024	U
75-35-4	1,1-Dichloroethene	0.0024	U	156-59-2	cis-1,2-Dichloroethene	0.0024	U
87-61-6	1,2,3-Trichlorobenzene	0.0024	U	10061-01-5	cis-1,3-Dichloropropene	0.0024	U
120-82-1	1,2,4-Trichlorobenzene	0.0024	U	110-82-7	Cyclohexane	0.0024	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0024	U	124-48-1	Dibromochloromethane	0.0024	U
106-93-4	1,2-Dibromoethane	0.0024	U	75-71-8	Dichlorodifluoromethane	0.0024	U
95-50-1	1,2-Dichlorobenzene	0.0024	U	100-41-4	Ethylbenzene	0.0012	U
107-06-2	1,2-Dichloroethane	0.0024	U	98-82-8	Isopropylbenzene	0.0012	U
78-87-5	1,2-Dichloropropane	0.0024	U	136777612	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0024	U	79-20-9	Methyl Acetate	0.0024	U
106-46-7	1,4-Dichlorobenzene	0.0024	U	108-87-2	Methylcyclohexane	0.0024	U
123-91-1	1,4-Dioxane	0.12	U	**75-09-2**	**Methylene Chloride**	**0.0024**	**0.0034**
78-93-3	2-Butanone	0.0024	U	1634-04-4	Methyl-t-butyl ether	0.0012	U
591-78-6	2-Hexanone	0.0024	U	95-47-6	o-Xylene	0.0012	U
108-10-1	4-Methyl-2-Pentanone	0.0024	U	100-42-5	Styrene	0.0024	U
67-64-1	Acetone	0.012	U	127-18-4	Tetrachloroethene	0.0024	U
71-43-2	Benzene	0.0012	U	108-88-3	Toluene	0.0012	U
74-97-5	Bromochloromethane	0.0024	U	156-60-5	trans-1,2-Dichloroethene	0.0024	U
75-27-4	Bromodichloromethane	0.0024	U	10061-02-6	trans-1,3-Dichloropropene	0.0024	U
75-25-2	Bromoform	0.0024	U	79-01-6	Trichloroethene	0.0024	U
74-83-9	Bromomethane	0.0024	U	75-69-4	Trichlorofluoromethane	0.0024	U
75-15-0	Carbon Disulfide	0.0024	U	75-01-4	Vinyl Chloride	0.0024	U
1330-20-7	Xylenes (Total)	0.0012	U				

Worksheet #: 304422

Total Target Concentration 0.0034

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-002
Client Id: EXT1(15-17')
Data File: 6M10535.D
Analysis Date: 05/24/14 00:33
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.01g
Final Vol: NA
Dilution: 0.998
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0023	U	56-23-5	Carbon Tetrachloride	0.0023	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0023	U	108-90-7	Chlorobenzene	0.0023	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0023	U	75-00-3	Chloroethane	0.0023	U
79-00-5	1,1,2-Trichloroethane	0.0023	U	67-66-3	Chloroform	0.0023	U
75-34-3	1,1-Dichloroethane	0.0023	U	74-87-3	Chloromethane	0.0023	U
75-35-4	1,1-Dichloroethene	0.0023	U	156-59-2	cis-1,2-Dichloroethene	0.0023	U
87-61-6	1,2,3-Trichlorobenzene	0.0023	U	10061-01-5	cis-1,3-Dichloropropene	0.0023	U
120-82-1	1,2,4-Trichlorobenzene	0.0023	U	110-82-7	Cyclohexane	0.0023	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0023	U	124-48-1	Dibromochloromethane	0.0023	U
106-93-4	1,2-Dibromoethane	0.0023	U	75-71-8	Dichlorodifluoromethane	0.0023	U
95-50-1	1,2-Dichlorobenzene	0.0023	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0023	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0023	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0023	U	79-20-9	Methyl Acetate	0.0023	U
106-46-7	1,4-Dichlorobenzene	0.0023	U	108-87-2	Methylcyclohexane	0.0023	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0023	U
78-93-3	2-Butanone	0.0023	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0023	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0023	U	100-42-5	Styrene	0.0023	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0023	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0023	U	156-60-5	trans-1,2-Dichloroethene	0.0023	U
75-27-4	Bromodichloromethane	0.0023	U	10061-02-6	trans-1,3-Dichloropropene	0.0023	U
75-25-2	Bromoform	0.0023	U	79-01-6	Trichloroethene	0.0023	U
74-83-9	Bromomethane	0.0023	U	75-69-4	Trichlorofluoromethane	0.0023	U
75-15-0	Carbon Disulfide	0.0023	U	75-01-4	Vinyl Chloride	0.0023	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-003
Client Id: EXT 1 U
Data File: 3M51250.D
Analysis Date: 05/23/14 14:39
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	**67-66-3**	**Chloroform**	**1.0**	**1.3**
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	**124-48-1**	**Dibromochloromethane**	**1.0**	**2.5**
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	136777612	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	10	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	**Bromodichloromethane**	**1.0**	**1.3**	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	**Bromoform**	**1.0**	**2.2**	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 304422 ***Total Target Concentration*** 7.3 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-005
Client Id: FB052014 U
Data File: 3M51245.D
Analysis Date: 05/23/14 13:16
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	136777612	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	10	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-007
Client Id: EXT 2(0-2')
Data File: 6M10536.D
Analysis Date: 05/24/14 00:50
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.99g
Final Vol: NA
Dilution: 1.00
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0024	U	56-23-5	Carbon Tetrachloride	0.0024	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0024	U	108-90-7	Chlorobenzene	0.0024	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0024	U	75-00-3	Chloroethane	0.0024	U
79-00-5	1,1,2-Trichloroethane	0.0024	U	67-66-3	Chloroform	0.0024	U
75-34-3	1,1-Dichloroethane	0.0024	U	74-87-3	Chloromethane	0.0024	U
75-35-4	1,1-Dichloroethene	0.0024	U	156-59-2	cis-1,2-Dichloroethene	0.0024	U
87-61-6	1,2,3-Trichlorobenzene	0.0024	U	10061-01-5	cis-1,3-Dichloropropene	0.0024	U
120-82-1	1,2,4-Trichlorobenzene	0.0024	U	110-82-7	Cyclohexane	0.0024	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0024	U	124-48-1	Dibromochloromethane	0.0024	U
106-93-4	1,2-Dibromoethane	0.0024	U	75-71-8	Dichlorodifluoromethane	0.0024	U
95-50-1	1,2-Dichlorobenzene	0.0024	U	100-41-4	Ethylbenzene	0.0012	U
107-06-2	1,2-Dichloroethane	0.0024	U	98-82-8	Isopropylbenzene	0.0012	U
78-87-5	1,2-Dichloropropane	0.0024	U	136777612	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0024	U	79-20-9	Methyl Acetate	0.0024	U
106-46-7	1,4-Dichlorobenzene	0.0024	U	108-87-2	Methylcyclohexane	0.0024	U
123-91-1	1,4-Dioxane	0.12	U	**75-09-2**	**Methylene Chloride**	**0.0024**	**0.0045**
78-93-3	2-Butanone	0.0024	U	1634-04-4	Methyl-t-butyl ether	0.0012	U
591-78-6	2-Hexanone	0.0024	U	95-47-6	o-Xylene	0.0012	U
108-10-1	4-Methyl-2-Pentanone	0.0024	U	100-42-5	Styrene	0.0024	U
67-64-1	Acetone	0.012	U	127-18-4	Tetrachloroethene	0.0024	U
71-43-2	Benzene	0.0012	U	108-88-3	Toluene	0.0012	U
74-97-5	Bromochloromethane	0.0024	U	156-60-5	trans-1,2-Dichloroethene	0.0024	U
75-27-4	Bromodichloromethane	0.0024	U	10061-02-6	trans-1,3-Dichloropropene	0.0024	U
75-25-2	Bromoform	0.0024	U	79-01-6	Trichloroethene	0.0024	U
74-83-9	Bromomethane	0.0024	U	75-69-4	Trichlorofluoromethane	0.0024	U
75-15-0	Carbon Disulfide	0.0024	U	75-01-4	Vinyl Chloride	0.0024	U
1330-20-7	Xylenes (Total)	0.0012	U				

Worksheet #: 304422

Total Target Concentration 0.0045

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-008
Client Id: EXT 2(15-17')
Data File: 6M10537.D
Analysis Date: 05/24/14 01:07
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0021	U	56-23-5	Carbon Tetrachloride	0.0021	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0021	U	108-90-7	Chlorobenzene	0.0021	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0021	U	75-00-3	Chloroethane	0.0021	U
79-00-5	1,1,2-Trichloroethane	0.0021	U	67-66-3	Chloroform	0.0021	U
75-34-3	1,1-Dichloroethane	0.0021	U	74-87-3	Chloromethane	0.0021	U
75-35-4	1,1-Dichloroethene	0.0021	U	156-59-2	cis-1,2-Dichloroethene	0.0021	U
87-61-6	1,2,3-Trichlorobenzene	0.0021	U	10061-01-5	cis-1,3-Dichloropropene	0.0021	U
120-82-1	1,2,4-Trichlorobenzene	0.0021	U	110-82-7	Cyclohexane	0.0021	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0021	U	124-48-1	Dibromochloromethane	0.0021	U
106-93-4	1,2-Dibromoethane	0.0021	U	75-71-8	Dichlorodifluoromethane	0.0021	U
95-50-1	1,2-Dichlorobenzene	0.0021	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0021	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0021	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0021	U	79-20-9	Methyl Acetate	0.0021	U
106-46-7	1,4-Dichlorobenzene	0.0021	U	108-87-2	Methylcyclohexane	0.0021	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0021	U
78-93-3	2-Butanone	0.0021	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0021	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0021	U	100-42-5	Styrene	0.0021	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0021	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0021	U	156-60-5	trans-1,2-Dichloroethene	0.0021	U
75-27-4	Bromodichloromethane	0.0021	U	10061-02-6	trans-1,3-Dichloropropene	0.0021	U
75-25-2	Bromoform	0.0021	U	79-01-6	Trichloroethene	0.0021	U
74-83-9	Bromomethane	0.0021	U	75-69-4	Trichlorofluoromethane	0.0021	U
75-15-0	Carbon Disulfide	0.0021	U	75-01-4	Vinyl Chloride	0.0021	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-009
Client Id: DUP052014 U
Data File: 3M51251.D
Analysis Date: 05/23/14 14:56
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	136777612	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	10	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 304422

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-011
Client Id: EXT 2 U
Data File: 3M51254.D
Analysis Date: 05/23/14 15:45
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	136777612	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	10	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 304422

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-013
Client Id: TB
Data File: 3M51246.D
Analysis Date: 05/23/14 13:33
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	136777612	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	10	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 304422

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-014
Client Id: EXT 3(0-2')
Data File: 6M10538.D
Analysis Date: 05/24/14 01:23
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.02g
Final Vol: NA
Dilution: 0.996
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0022	U
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0022	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-015
Client Id: EXT 3(15-17')
Data File: 6M10539.D
Analysis Date: 05/24/14 01:40
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.01g
Final Vol: NA
Dilution: 0.998
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	**75-09-2**	**Methylene Chloride**	**0.0022**	**0.0031**
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0022	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422

Total Target Concentration 0.0031

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-016
Client Id: EXT 3 U
Data File: 3M51260.D
Analysis Date: 05/23/14 17:23
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	**67-66-3**	**Chloroform**	**1.0**	**2.6**
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	136777612	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	**108-87-2**	**Methylcyclohexane**	**1.0**	**2.3**
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	10	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 304422 *Total Target Concentration* 4.9 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-018
Client Id: EXT 3(27-29')
Data File: 6M10606.D
Analysis Date: 05/28/14 11:09
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.01g
Final Vol: NA
Dilution: 0.998
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0023	U	56-23-5	Carbon Tetrachloride	0.0023	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0023	U	108-90-7	Chlorobenzene	0.0023	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0023	U	75-00-3	Chloroethane	0.0023	U
79-00-5	1,1,2-Trichloroethane	0.0023	U	67-66-3	Chloroform	0.0023	U
75-34-3	1,1-Dichloroethane	0.0023	U	74-87-3	Chloromethane	0.0023	U
75-35-4	1,1-Dichloroethene	0.0023	U	156-59-2	cis-1,2-Dichloroethene	0.0023	U
87-61-6	1,2,3-Trichlorobenzene	0.0023	U	10061-01-5	cis-1,3-Dichloropropene	0.0023	U
120-82-1	1,2,4-Trichlorobenzene	0.0023	U	110-82-7	Cyclohexane	0.0023	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0023	U	124-48-1	Dibromochloromethane	0.0023	U
106-93-4	1,2-Dibromoethane	0.0023	U	75-71-8	Dichlorodifluoromethane	0.0023	U
95-50-1	1,2-Dichlorobenzene	0.0023	U	**100-41-4**	**Ethylbenzene**	**0.0011**	**0.0029**
107-06-2	1,2-Dichloroethane	0.0023	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0023	U	**136777612**	**m&p-Xylenes**	**0.0011**	**0.014**
541-73-1	1,3-Dichlorobenzene	0.0023	U	79-20-9	Methyl Acetate	0.0023	U
106-46-7	1,4-Dichlorobenzene	0.0023	U	**108-87-2**	**Methylcyclohexane**	**0.0023**	**0.0052**
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0023	U
78-93-3	2-Butanone	0.0023	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0023	U	**95-47-6**	**o-Xylene**	**0.0011**	**0.0050**
108-10-1	4-Methyl-2-Pentanone	0.0023	U	100-42-5	Styrene	0.0023	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0023	U
71-43-2	Benzene	0.0011	U	**108-88-3**	**Toluene**	**0.0011**	**0.0029**
74-97-5	Bromochloromethane	0.0023	U	156-60-5	trans-1,2-Dichloroethene	0.0023	U
75-27-4	Bromodichloromethane	0.0023	U	10061-02-6	trans-1,3-Dichloropropene	0.0023	U
75-25-2	Bromoform	0.0023	U	79-01-6	Trichloroethene	0.0023	U
74-83-9	Bromomethane	0.0023	U	75-69-4	Trichlorofluoromethane	0.0023	U
75-15-0	Carbon Disulfide	0.0023	U	75-01-4	Vinyl Chloride	0.0023	U
1330-20-7	**Xylenes (Total)**	**0.0011**	**0.019**				

Worksheet #: 304422 ***Total Target Concentration*** 0.03 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-019
Client Id: SUMP1(0-2')
Data File: 6M10605.D
Analysis Date: 05/28/14 10:53
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.99g
Final Vol: NA
Dilution: 1.00
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0022	U
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0022	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-020
Client Id: SUMP1(3-5')
Data File: 6M10667.D
Analysis Date: 05/29/14 12:42
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.99g
Final Vol: NA
Dilution: 1.00
Solids: 94

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0021	U	56-23-5	Carbon Tetrachloride	0.0021	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0021	U	108-90-7	Chlorobenzene	0.0021	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0021	U	75-00-3	Chloroethane	0.0021	U
79-00-5	1,1,2-Trichloroethane	0.0021	U	67-66-3	Chloroform	0.0021	U
75-34-3	1,1-Dichloroethane	0.0021	U	74-87-3	Chloromethane	0.0021	U
75-35-4	1,1-Dichloroethene	0.0021	U	156-59-2	cis-1,2-Dichloroethene	0.0021	U
87-61-6	1,2,3-Trichlorobenzene	0.0021	U	10061-01-5	cis-1,3-Dichloropropene	0.0021	U
120-82-1	1,2,4-Trichlorobenzene	0.0021	U	110-82-7	Cyclohexane	0.0021	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0021	U	124-48-1	Dibromochloromethane	0.0021	U
106-93-4	1,2-Dibromoethane	0.0021	U	75-71-8	Dichlorodifluoromethane	0.0021	U
95-50-1	1,2-Dichlorobenzene	0.0021	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0021	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0021	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0021	U	79-20-9	Methyl Acetate	0.0021	U
106-46-7	1,4-Dichlorobenzene	0.0021	U	108-87-2	Methylcyclohexane	0.0021	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0021	U
78-93-3	2-Butanone	0.0021	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0021	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0021	U	100-42-5	Styrene	0.0021	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0021	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0021	U	156-60-5	trans-1,2-Dichloroethene	0.0021	U
75-27-4	Bromodichloromethane	0.0021	U	10061-02-6	trans-1,3-Dichloropropene	0.0021	U
75-25-2	Bromoform	0.0021	U	79-01-6	Trichloroethene	0.0021	U
74-83-9	Bromomethane	0.0021	U	75-69-4	Trichlorofluoromethane	0.0021	U
75-15-0	Carbon Disulfide	0.0021	U	75-01-4	Vinyl Chloride	0.0021	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-021
Client Id: BASE 1(0-2')
Data File: 6M10688.D
Analysis Date: 05/29/14 18:39
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.01g
Final Vol: NA
Dilution: 0.998
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	**75-09-2**	**Methylene Chloride**	**0.0022**	**0.0046**
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	**127-18-4**	**Tetrachloroethene**	**0.0022**	**0.0078**
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422

Total Target Concentration 0.012

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-022
Client Id: BASE 1(3-5')
Data File: 6M10668.D
Analysis Date: 05/29/14 12:59
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.01g
Final Vol: NA
Dilution: 0.998
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0021	U	56-23-5	Carbon Tetrachloride	0.0021	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0021	U	108-90-7	Chlorobenzene	0.0021	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0021	U	75-00-3	Chloroethane	0.0021	U
79-00-5	1,1,2-Trichloroethane	0.0021	U	67-66-3	Chloroform	0.0021	U
75-34-3	1,1-Dichloroethane	0.0021	U	74-87-3	Chloromethane	0.0021	U
75-35-4	1,1-Dichloroethene	0.0021	U	156-59-2	cis-1,2-Dichloroethene	0.0021	U
87-61-6	1,2,3-Trichlorobenzene	0.0021	U	10061-01-5	cis-1,3-Dichloropropene	0.0021	U
120-82-1	1,2,4-Trichlorobenzene	0.0021	U	110-82-7	Cyclohexane	0.0021	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0021	U	124-48-1	Dibromochloromethane	0.0021	U
106-93-4	1,2-Dibromoethane	0.0021	U	75-71-8	Dichlorodifluoromethane	0.0021	U
95-50-1	1,2-Dichlorobenzene	0.0021	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0021	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0021	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0021	U	79-20-9	Methyl Acetate	0.0021	U
106-46-7	1,4-Dichlorobenzene	0.0021	U	108-87-2	Methylcyclohexane	0.0021	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0021	U
78-93-3	2-Butanone	0.0021	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0021	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0021	U	100-42-5	Styrene	0.0021	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0021	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0021	U	156-60-5	trans-1,2-Dichloroethene	0.0021	U
75-27-4	Bromodichloromethane	0.0021	U	10061-02-6	trans-1,3-Dichloropropene	0.0021	U
75-25-2	Bromoform	0.0021	U	79-01-6	Trichloroethene	0.0021	U
74-83-9	Bromomethane	0.0021	U	75-69-4	Trichlorofluoromethane	0.0021	U
75-15-0	Carbon Disulfide	0.0021	U	75-01-4	Vinyl Chloride	0.0021	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-023
Client Id: BASE 2 (0-2')
Data File: 6M10673.D
Analysis Date: 05/29/14 14:25
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.98g
Final Vol: NA
Dilution: 1.00
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0022	U
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0022	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-024
Client Id: BASE 2 (3-5')
Data File: 6M10685.D
Analysis Date: 05/29/14 17:49
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.99g
Final Vol: NA
Dilution: 1.00
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0021	U	56-23-5	Carbon Tetrachloride	0.0021	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0021	U	108-90-7	Chlorobenzene	0.0021	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0021	U	75-00-3	Chloroethane	0.0021	U
79-00-5	1,1,2-Trichloroethane	0.0021	U	67-66-3	Chloroform	0.0021	U
75-34-3	1,1-Dichloroethane	0.0021	U	74-87-3	Chloromethane	0.0021	U
75-35-4	1,1-Dichloroethene	0.0021	U	156-59-2	cis-1,2-Dichloroethene	0.0021	U
87-61-6	1,2,3-Trichlorobenzene	0.0021	U	10061-01-5	cis-1,3-Dichloropropene	0.0021	U
120-82-1	1,2,4-Trichlorobenzene	0.0021	U	110-82-7	Cyclohexane	0.0021	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0021	U	124-48-1	Dibromochloromethane	0.0021	U
106-93-4	1,2-Dibromoethane	0.0021	U	75-71-8	Dichlorodifluoromethane	0.0021	U
95-50-1	1,2-Dichlorobenzene	0.0021	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0021	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0021	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0021	U	79-20-9	Methyl Acetate	0.0021	U
106-46-7	1,4-Dichlorobenzene	0.0021	U	108-87-2	Methylcyclohexane	0.0021	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0021	U
78-93-3	2-Butanone	0.0021	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0021	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0021	U	100-42-5	Styrene	0.0021	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0021	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0021	U	156-60-5	trans-1,2-Dichloroethene	0.0021	U
75-27-4	Bromodichloromethane	0.0021	U	10061-02-6	trans-1,3-Dichloropropene	0.0021	U
75-25-2	Bromoform	0.0021	U	79-01-6	Trichloroethene	0.0021	U
74-83-9	Bromomethane	0.0021	U	75-69-4	Trichlorofluoromethane	0.0021	U
75-15-0	Carbon Disulfide	0.0021	U	75-01-4	Vinyl Chloride	0.0021	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-025
Client Id: BASE 3 (0-2')
Data File: 6M10686.D
Analysis Date: 05/29/14 18:06
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.02g
Final Vol: NA
Dilution: 0.996
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0022	U
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	**127-18-4**	**Tetrachloroethene**	**0.0022**	**0.0052**
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422 ***Total Target Concentration*** 0.0052 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-026
Client Id: BASE 3 (3-5')
Data File: 6M10687.D
Analysis Date: 05/29/14 18:22
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0022	U
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	**127-18-4**	**Tetrachloroethene**	**0.0022**	**0.0029**
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304423 ***Total Target Concentration*** 0.0029 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-001(10X)
Client Id: EXT1(0-2')
Data File: 9M57048.D
Analysis Date: 05/28/14 11:59
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 10
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.41	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.41**	**6.7**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.41	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.41**	**3.1**
58-90-2	2,3,4,6-Tetrachlorophenol	0.41	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.41**	**2.4**
95-95-4	2,4,5-Trichlorophenol	0.41	U	111-91-1	bis(2-Chloroethoxy)methan	0.41	U
88-06-2	2,4,6-Trichlorophenol	0.41	U	111-44-4	bis(2-Chloroethyl)ether	0.10	U
120-83-2	2,4-Dichlorophenol	0.10	U	108-60-1	bis(2-chloroisopropyl)ether	0.41	U
105-67-9	2,4-Dimethylphenol	0.10	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.41	U
51-28-5	2,4-Dinitrophenol	2.0	U	85-68-7	Butylbenzylphthalate	0.41	U
121-14-2	2,4-Dinitrotoluene	0.41	U	105-60-2	Caprolactam	0.41	U
606-20-2	2,6-Dinitrotoluene	0.41	U	**86-74-8**	**Carbazole**	**0.41**	**0.53**
91-58-7	2-Chloronaphthalene	0.41	U	**218-01-9**	**Chrysene**	**0.41**	**5.2**
95-57-8	2-Chlorophenol	0.41	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.41**	**0.80**
91-57-6	2-Methylnaphthalene	0.41	U	**132-64-9**	**Dibenzofuran**	**0.10**	**0.24**
95-48-7	2-Methylphenol	0.10	U	84-66-2	Diethylphthalate	0.41	U
88-74-4	2-Nitroaniline	0.41	U	131-11-3	Dimethylphthalate	0.41	U
88-75-5	2-Nitrophenol	0.41	U	84-74-2	Di-n-butylphthalate	0.20	U
106-44-5	3&4-Methylphenol	0.10	U	117-84-0	Di-n-octylphthalate	0.41	U
91-94-1	3,3'-Dichlorobenzidine	0.41	U	**206-44-0**	**Fluoranthene**	**0.41**	**11**
99-09-2	3-Nitroaniline	0.41	U	**86-73-7**	**Fluorene**	**0.41**	**0.42**
534-52-1	4,6-Dinitro-2-methylphenol	2.0	U	118-74-1	Hexachlorobenzene	0.41	U
101-55-3	4-Bromophenyl-phenylether	0.41	U	87-68-3	Hexachlorobutadiene	0.41	U
59-50-7	4-Chloro-3-methylphenol	0.41	U	77-47-4	Hexachlorocyclopentadiene	0.41	U
106-47-8	4-Chloroaniline	0.19	U	67-72-1	Hexachloroethane	0.41	U
7005-72-3	4-Chlorophenyl-phenylether	0.41	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.41**	**2.7**
100-01-6	4-Nitroaniline	0.41	U	78-59-1	Isophorone	0.41	U
100-02-7	4-Nitrophenol	0.41	U	**91-20-3**	**Naphthalene**	**0.10**	**0.15**
83-32-9	**Acenaphthene**	**0.41**	**0.60**	98-95-3	Nitrobenzene	0.41	U
208-96-8	Acenaphthylene	0.41	U	621-64-7	N-Nitroso-di-n-propylamine	0.10	U
98-86-2	Acetophenone	0.41	U	86-30-6	n-Nitrosodiphenylamine	0.41	U
120-12-7	**Anthracene**	**0.41**	**1.5**	87-86-5	Pentachlorophenol	2.0	U
1912-24-9	Atrazine	0.41	U	**85-01-8**	**Phenanthrene**	**0.41**	**7.4**
100-52-7	Benzaldehyde	0.41	U	108-95-2	Phenol	0.41	U
56-55-3	**Benzo[a]anthracene**	**0.41**	**6.1**	**129-00-0**	**Pyrene**	**0.41**	**11**
50-32-8	**Benzo[a]pyrene**	**0.41**	**5.3**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-002(50X)
Client Id: EXT1(15-17')
Data File: 9M57049.D
Analysis Date: 05/28/14 12:22
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 50
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	1.9	U	**205-99-2**	**Benzo[b]fluoranthene**	**1.9**	**29**
95-94-3	1,2,4,5-Tetrachlorobenzene	1.9	U	**191-24-2**	**Benzo[g,h,i]perylene**	**1.9**	**11**
58-90-2	2,3,4,6-Tetrachlorophenol	1.9	U	**207-08-9**	**Benzo[k]fluoranthene**	**1.9**	**6.7**
95-95-4	2,4,5-Trichlorophenol	1.9	U	111-91-1	bis(2-Chloroethoxy)methan	1.9	U
88-06-2	2,4,6-Trichlorophenol	1.9	U	111-44-4	bis(2-Chloroethyl)ether	0.48	U
120-83-2	2,4-Dichlorophenol	0.48	U	108-60-1	bis(2-chloroisopropyl)ether	1.9	U
105-67-9	2,4-Dimethylphenol	0.48	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.9	U
51-28-5	2,4-Dinitrophenol	9.6	U	85-68-7	Butylbenzylphthalate	1.9	U
121-14-2	2,4-Dinitrotoluene	1.9	U	105-60-2	Caprolactam	1.9	U
606-20-2	2,6-Dinitrotoluene	1.9	U	**86-74-8**	**Carbazole**	**1.9**	**5.8**
91-58-7	2-Chloronaphthalene	1.9	U	**218-01-9**	**Chrysene**	**1.9**	**22**
95-57-8	2-Chlorophenol	1.9	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**1.9**	**2.7**
91-57-6	**2-Methylnaphthalene**	**1.9**	**3.2**	**132-64-9**	**Dibenzofuran**	**0.48**	**6.9**
95-48-7	2-Methylphenol	0.48	U	84-66-2	Diethylphthalate	1.9	U
88-74-4	2-Nitroaniline	1.9	U	131-11-3	Dimethylphthalate	1.9	U
88-75-5	2-Nitrophenol	1.9	U	84-74-2	Di-n-butylphthalate	0.96	U
106-44-5	3&4-Methylphenol	0.48	U	117-84-0	Di-n-octylphthalate	1.9	U
91-94-1	3,3'-Dichlorobenzidine	1.9	U	**206-44-0**	**Fluoranthene**	**1.9**	**65**
99-09-2	3-Nitroaniline	1.9	U	**86-73-7**	**Fluorene**	**1.9**	**6.7**
534-52-1	4,6-Dinitro-2-methylphenol	9.6	U	118-74-1	Hexachlorobenzene	1.9	U
101-55-3	4-Bromophenyl-phenylether	1.9	U	87-68-3	Hexachlorobutadiene	1.9	U
59-50-7	4-Chloro-3-methylphenol	1.9	U	77-47-4	Hexachlorocyclopentadiene	1.9	U
106-47-8	4-Chloroaniline	0.91	U	67-72-1	Hexachloroethane	1.9	U
7005-72-3	4-Chlorophenyl-phenylether	1.9	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**1.9**	**10**
100-01-6	4-Nitroaniline	1.9	U	78-59-1	Isophorone	1.9	U
100-02-7	4-Nitrophenol	1.9	U	**91-20-3**	**Naphthalene**	**0.48**	**7.1**
83-32-9	**Acenaphthene**	**1.9**	**9.6**	98-95-3	Nitrobenzene	1.9	U
208-96-8	Acenaphthylene	1.9	U	621-64-7	N-Nitroso-di-n-propylamine	0.48	U
98-86-2	Acetophenone	1.9	U	86-30-6	n-Nitrosodiphenylamine	1.9	U
120-12-7	**Anthracene**	**1.9**	**15**	87-86-5	Pentachlorophenol	9.6	U
1912-24-9	Atrazine	1.9	U	**85-01-8**	**Phenanthrene**	**1.9**	**80**
100-52-7	Benzaldehyde	1.9	U	108-95-2	Phenol	1.9	U
56-55-3	**Benzo[a]anthracene**	**1.9**	**27**	**129-00-0**	**Pyrene**	**1.9**	**57**
50-32-8	**Benzo[a]pyrene**	**1.9**	**21**				

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R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-003
Client Id: EXT 1 U
Data File: 10M44244.D
Analysis Date: 05/23/14 10:52
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 304385

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-005
Client Id: FB052014 U
Data File: 10M44248.D
Analysis Date: 05/23/14 12:20
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 304385 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-007
Client Id: EXT 2(0-2')
Data File: 10M44299.D
Analysis Date: 05/27/14 17:12
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.040	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.040**	**0.70**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.040	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.040**	**0.31**
58-90-2	2,3,4,6-Tetrachlorophenol	0.040	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.040**	**0.22**
95-95-4	2,4,5-Trichlorophenol	0.040	U	111-91-1	bis(2-Chloroethoxy)methan	0.040	U
88-06-2	2,4,6-Trichlorophenol	0.040	U	111-44-4	bis(2-Chloroethyl)ether	0.010	U
120-83-2	2,4-Dichlorophenol	0.010	U	108-60-1	bis(2-chloroisopropyl)ether	0.040	U
105-67-9	2,4-Dimethylphenol	0.010	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.040**	**0.047**
51-28-5	2,4-Dinitrophenol	0.20	U	85-68-7	Butylbenzylphthalate	0.040	U
121-14-2	2,4-Dinitrotoluene	0.040	U	105-60-2	Caprolactam	0.040	U
606-20-2	2,6-Dinitrotoluene	0.040	U	**86-74-8**	**Carbazole**	**0.040**	**0.043**
91-58-7	2-Chloronaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.55**
95-57-8	2-Chlorophenol	0.040	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.040**	**0.078**
91-57-6	2-Methylnaphthalene	0.040	U	**132-64-9**	**Dibenzofuran**	**0.010**	**0.025**
95-48-7	2-Methylphenol	0.010	U	84-66-2	Diethylphthalate	0.040	U
88-74-4	2-Nitroaniline	0.040	U	131-11-3	Dimethylphthalate	0.040	U
88-75-5	2-Nitrophenol	0.040	U	84-74-2	Di-n-butylphthalate	0.020	U
106-44-5	3&4-Methylphenol	0.010	U	117-84-0	Di-n-octylphthalate	0.040	U
91-94-1	3,3'-Dichlorobenzidine	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.95**
99-09-2	3-Nitroaniline	0.040	U	86-73-7	Fluorene	0.040	U
534-52-1	4,6-Dinitro-2-methylphenol	0.20	U	118-74-1	Hexachlorobenzene	0.040	U
101-55-3	4-Bromophenyl-phenylether	0.040	U	87-68-3	Hexachlorobutadiene	0.040	U
59-50-7	4-Chloro-3-methylphenol	0.040	U	77-47-4	Hexachlorocyclopentadiene	0.040	U
106-47-8	4-Chloroaniline	0.019	U	67-72-1	Hexachloroethane	0.040	U
7005-72-3	4-Chlorophenyl-phenylether	0.040	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.040**	**0.26**
100-01-6	4-Nitroaniline	0.040	U	78-59-1	Isophorone	0.040	U
100-02-7	4-Nitrophenol	0.040	U	**91-20-3**	**Naphthalene**	**0.010**	**0.022**
83-32-9	**Acenaphthene**	**0.040**	**0.045**	98-95-3	Nitrobenzene	0.040	U
208-96-8	Acenaphthylene	0.040	U	621-64-7	N-Nitroso-di-n-propylamine	0.010	U
98-86-2	Acetophenone	0.040	U	86-30-6	n-Nitrosodiphenylamine	0.040	U
120-12-7	**Anthracene**	**0.040**	**0.12**	87-86-5	Pentachlorophenol	0.20	U
1912-24-9	Atrazine	0.040	U	**85-01-8**	**Phenanthrene**	**0.040**	**0.57**
100-52-7	Benzaldehyde	0.040	U	108-95-2	Phenol	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.58**	**129-00-0**	**Pyrene**	**0.040**	**0.99**
50-32-8	**Benzo[a]pyrene**	**0.040**	**0.50**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-008
Client Id: EXT 2(15-17')
Data File: 10M44308.D
Analysis Date: 05/28/14 11:22
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.035	U	205-99-2	Benzo[b]fluoranthene	0.035	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	U	191-24-2	Benzo[g,h,i]perylene	0.035	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.035	U	207-08-9	Benzo[k]fluoranthene	0.035	U
95-95-4	2,4,5-Trichlorophenol	0.035	U	111-91-1	bis(2-Chloroethoxy)methan	0.035	U
88-06-2	2,4,6-Trichlorophenol	0.035	U	111-44-4	bis(2-Chloroethyl)ether	0.0088	U
120-83-2	2,4-Dichlorophenol	0.0088	U	108-60-1	bis(2-chloroisopropyl)ether	0.035	U
105-67-9	2,4-Dimethylphenol	0.0088	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.035**	**0.042**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.035	U
121-14-2	2,4-Dinitrotoluene	0.035	U	105-60-2	Caprolactam	0.035	U
606-20-2	2,6-Dinitrotoluene	0.035	U	86-74-8	Carbazole	0.035	U
91-58-7	2-Chloronaphthalene	0.035	U	218-01-9	Chrysene	0.035	U
95-57-8	2-Chlorophenol	0.035	U	53-70-3	Dibenzo[a,h]anthracene	0.035	U
91-57-6	2-Methylnaphthalene	0.035	U	132-64-9	Dibenzofuran	0.0088	U
95-48-7	2-Methylphenol	0.0088	U	84-66-2	Diethylphthalate	0.035	U
88-74-4	2-Nitroaniline	0.035	U	131-11-3	Dimethylphthalate	0.035	U
88-75-5	2-Nitrophenol	0.035	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0088	U	117-84-0	Di-n-octylphthalate	0.035	U
91-94-1	3,3'-Dichlorobenzidine	0.035	U	**206-44-0**	**Fluoranthene**	**0.035**	**0.058**
99-09-2	3-Nitroaniline	0.035	U	86-73-7	Fluorene	0.035	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.035	U
101-55-3	4-Bromophenyl-phenylether	0.035	U	87-68-3	Hexachlorobutadiene	0.035	U
59-50-7	4-Chloro-3-methylphenol	0.035	U	77-47-4	Hexachlorocyclopentadiene	0.035	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.035	U
7005-72-3	4-Chlorophenyl-phenylether	0.035	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.035	U
100-01-6	4-Nitroaniline	0.035	U	78-59-1	Isophorone	0.035	U
100-02-7	4-Nitrophenol	0.035	U	91-20-3	Naphthalene	0.0088	U
83-32-9	Acenaphthene	0.035	U	98-95-3	Nitrobenzene	0.035	U
208-96-8	Acenaphthylene	0.035	U	621-64-7	N-Nitroso-di-n-propylamine	0.0088	U
98-86-2	Acetophenone	0.035	U	86-30-6	n-Nitrosodiphenylamine	0.035	U
120-12-7	Anthracene	0.035	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.035	U	**85-01-8**	**Phenanthrene**	**0.035**	**0.045**
100-52-7	Benzaldehyde	0.035	U	108-95-2	Phenol	0.035	U
56-55-3	Benzo[a]anthracene	0.035	U	**129-00-0**	**Pyrene**	**0.035**	**0.058**
50-32-8	Benzo[a]pyrene	0.035	U				

Worksheet #: 304385 ***Total Target Concentration*** 0.2 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-009
Client Id: DUP052014 U
Data File: 10M44249.D
Analysis Date: 05/23/14 12:42
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 304385 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-011
Client Id: EXT 2 U
Data File: 10M44250.D
Analysis Date: 05/23/14 13:05
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 304385 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-014
Client Id: EXT 3(0-2')
Data File: 9M57042.D
Analysis Date: 05/27/14 18:25
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.037	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.037**	**0.99**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.037	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.037**	**0.51**
58-90-2	2,3,4,6-Tetrachlorophenol	0.037	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.037**	**0.32**
95-95-4	2,4,5-Trichlorophenol	0.037	U	111-91-1	bis(2-Chloroethoxy)methan	0.037	U
88-06-2	2,4,6-Trichlorophenol	0.037	U	111-44-4	bis(2-Chloroethyl)ether	0.0092	U
120-83-2	2,4-Dichlorophenol	0.0092	U	108-60-1	bis(2-chloroisopropyl)ether	0.037	U
105-67-9	2,4-Dimethylphenol	0.0092	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.037**	**0.042**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.037	U
121-14-2	2,4-Dinitrotoluene	0.037	U	105-60-2	Caprolactam	0.037	U
606-20-2	2,6-Dinitrotoluene	0.037	U	**86-74-8**	**Carbazole**	**0.037**	**0.10**
91-58-7	2-Chloronaphthalene	0.037	U	**218-01-9**	**Chrysene**	**0.037**	**0.83**
95-57-8	2-Chlorophenol	0.037	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.037**	**0.15**
91-57-6	2-Methylnaphthalene	0.037	U	**132-64-9**	**Dibenzofuran**	**0.0092**	**0.062**
95-48-7	2-Methylphenol	0.0092	U	84-66-2	Diethylphthalate	0.037	U
88-74-4	2-Nitroaniline	0.037	U	131-11-3	Dimethylphthalate	0.037	U
88-75-5	2-Nitrophenol	0.037	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0092	U	117-84-0	Di-n-octylphthalate	0.037	U
91-94-1	3,3'-Dichlorobenzidine	0.037	U	**206-44-0**	**Fluoranthene**	**0.037**	**1.5**
99-09-2	3-Nitroaniline	0.037	U	**86-73-7**	**Fluorene**	**0.037**	**0.081**
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.037	U
101-55-3	4-Bromophenyl-phenylether	0.037	U	87-68-3	Hexachlorobutadiene	0.037	U
59-50-7	4-Chloro-3-methylphenol	0.037	U	77-47-4	Hexachlorocyclopentadiene	0.037	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.037	U
7005-72-3	4-Chlorophenyl-phenylether	0.037	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.037**	**0.46**
100-01-6	4-Nitroaniline	0.037	U	78-59-1	Isophorone	0.037	U
100-02-7	4-Nitrophenol	0.037	U	**91-20-3**	**Naphthalene**	**0.0092**	**0.034**
83-32-9	**Acenaphthene**	**0.037**	**0.12**	98-95-3	Nitrobenzene	0.037	U
208-96-8	Acenaphthylene	0.037	U	621-64-7	N-Nitroso-di-n-propylamine	0.0092	U
98-86-2	Acetophenone	0.037	U	86-30-6	n-Nitrosodiphenylamine	0.037	U
120-12-7	**Anthracene**	**0.037**	**0.30**	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.037	U	**85-01-8**	**Phenanthrene**	**0.037**	**1.4**
100-52-7	Benzaldehyde	0.037	U	108-95-2	Phenol	0.037	U
56-55-3	**Benzo[a]anthracene**	**0.037**	**0.96**	**129-00-0**	**Pyrene**	**0.037**	**1.7**
50-32-8	**Benzo[a]pyrene**	**0.037**	**0.81**				

Worksheet #: 304385 ***Total Target Concentration*** 10 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-015
Client Id: EXT 3(15-17')
Data File: 9M57043.D
Analysis Date: 05/27/14 18:48
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.037	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.037**	**1.5**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.037	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.037**	**0.82**
58-90-2	2,3,4,6-Tetrachlorophenol	0.037	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.037**	**0.58**
95-95-4	2,4,5-Trichlorophenol	0.037	U	111-91-1	bis(2-Chloroethoxy)methan	0.037	U
88-06-2	2,4,6-Trichlorophenol	0.037	U	111-44-4	bis(2-Chloroethyl)ether	0.0094	U
120-83-2	2,4-Dichlorophenol	0.0094	U	108-60-1	bis(2-chloroisopropyl)ether	0.037	U
105-67-9	2,4-Dimethylphenol	0.0094	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.037**	**0.43**
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.037	U
121-14-2	2,4-Dinitrotoluene	0.037	U	105-60-2	Caprolactam	0.037	U
606-20-2	2,6-Dinitrotoluene	0.037	U	**86-74-8**	**Carbazole**	**0.037**	**0.13**
91-58-7	2-Chloronaphthalene	0.037	U	**218-01-9**	**Chrysene**	**0.037**	**1.2**
95-57-8	2-Chlorophenol	0.037	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.037**	**0.21**
91-57-6	**2-Methylnaphthalene**	**0.037**	**0.049**	**132-64-9**	**Dibenzofuran**	**0.0094**	**0.090**
95-48-7	2-Methylphenol	0.0094	U	84-66-2	Diethylphthalate	0.037	U
88-74-4	2-Nitroaniline	0.037	U	131-11-3	Dimethylphthalate	0.037	U
88-75-5	2-Nitrophenol	0.037	U	84-74-2	Di-n-butylphthalate	0.019	U
106-44-5	3&4-Methylphenol	0.0094	U	117-84-0	Di-n-octylphthalate	0.037	U
91-94-1	3,3'-Dichlorobenzidine	0.037	U	**206-44-0**	**Fluoranthene**	**0.037**	**2.8**
99-09-2	3-Nitroaniline	0.037	U	**86-73-7**	**Fluorene**	**0.037**	**0.17**
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.037	U
101-55-3	4-Bromophenyl-phenylether	0.037	U	87-68-3	Hexachlorobutadiene	0.037	U
59-50-7	4-Chloro-3-methylphenol	0.037	U	77-47-4	Hexachlorocyclopentadiene	0.037	U
106-47-8	4-Chloroaniline	0.018	U	67-72-1	Hexachloroethane	0.037	U
7005-72-3	4-Chlorophenyl-phenylether	0.037	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.037**	**0.71**
100-01-6	4-Nitroaniline	0.037	U	78-59-1	Isophorone	0.037	U
100-02-7	4-Nitrophenol	0.037	U	**91-20-3**	**Naphthalene**	**0.0094**	**0.073**
83-32-9	**Acenaphthene**	**0.037**	**0.25**	98-95-3	Nitrobenzene	0.037	U
208-96-8	**Acenaphthylene**	**0.037**	**0.082**	621-64-7	N-Nitroso-di-n-propylamine	0.0094	U
98-86-2	Acetophenone	0.037	U	86-30-6	n-Nitrosodiphenylamine	0.037	U
120-12-7	**Anthracene**	**0.037**	**0.53**	87-86-5	Pentachlorophenol	0.19	U
1912-24-9	Atrazine	0.037	U	**85-01-8**	**Phenanthrene**	**0.037**	**2.7**
100-52-7	Benzaldehyde	0.037	U	108-95-2	Phenol	0.037	U
56-55-3	**Benzo[a]anthracene**	**0.037**	**1.5**	**129-00-0**	**Pyrene**	**0.037**	**3.0**
50-32-8	**Benzo[a]pyrene**	**0.037**	**1.3**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-016(3X)
Client Id: EXT 3 U
Data File: 10M44255.D
Analysis Date: 05/23/14 14:55
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 810ml
Final Vol: 0.5ml
Dilution: 3
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	**1,1'-Biphenyl**	**3.7**	**32**	205-99-2	Benzo[b]fluoranthene	3.7	U
95-94-3	1,2,4,5-Tetrachlorobenzene	3.7	U	191-24-2	Benzo[g,h,i]perylene	3.7	U
58-90-2	2,3,4,6-Tetrachlorophenol	3.7	U	207-08-9	Benzo[k]fluoranthene	3.7	U
95-95-4	2,4,5-Trichlorophenol	3.7	U	111-91-1	bis(2-Chloroethoxy)methan	3.7	U
88-06-2	2,4,6-Trichlorophenol	3.7	U	111-44-4	bis(2-Chloroethyl)ether	0.93	U
120-83-2	2,4-Dichlorophenol	3.7	U	108-60-1	bis(2-chloroisopropyl)ether	3.7	U
105-67-9	2,4-Dimethylphenol	0.93	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**3.7**	**7.1**
51-28-5	2,4-Dinitrophenol	19	U	85-68-7	Butylbenzylphthalate	3.7	U
121-14-2	2,4-Dinitrotoluene	3.7	U	105-60-2	Caprolactam	3.7	U
606-20-2	2,6-Dinitrotoluene	3.7	U	86-74-8	Carbazole	3.7	U
91-58-7	2-Chloronaphthalene	3.7	U	**218-01-9**	**Chrysene**	**3.7**	**4.7**
95-57-8	2-Chlorophenol	3.7	U	53-70-3	Dibenzo[a,h]anthracene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U	**132-64-9**	**Dibenzofuran**	**0.93**	**13**
95-48-7	2-Methylphenol	0.93	U	84-66-2	Diethylphthalate	3.7	U
88-74-4	2-Nitroaniline	3.7	U	131-11-3	Dimethylphthalate	3.7	U
88-75-5	2-Nitrophenol	3.7	U	84-74-2	Di-n-butylphthalate	0.93	U
106-44-5	3&4-Methylphenol	0.93	U	117-84-0	Di-n-octylphthalate	3.7	U
91-94-1	3,3'-Dichlorobenzidine	3.7	U	**206-44-0**	**Fluoranthene**	**3.7**	**15**
99-09-2	3-Nitroaniline	3.7	U	**86-73-7**	**Fluorene**	**3.7**	**48**
534-52-1	4,6-Dinitro-2-methylphenol	19	U	118-74-1	Hexachlorobenzene	3.7	U
101-55-3	4-Bromophenyl-phenylether	3.7	U	87-68-3	Hexachlorobutadiene	3.7	U
59-50-7	4-Chloro-3-methylphenol	3.7	U	77-47-4	Hexachlorocyclopentadiene	3.7	U
106-47-8	4-Chloroaniline	0.93	U	67-72-1	Hexachloroethane	3.7	U
7005-72-3	4-Chlorophenyl-phenylether	3.7	U	193-39-5	Indeno[1,2,3-cd]pyrene	3.7	U
100-01-6	4-Nitroaniline	3.7	U	78-59-1	Isophorone	3.7	U
100-02-7	4-Nitrophenol	3.7	U	91-20-3	Naphthalene	0.93	U
83-32-9	**Acenaphthene**	**3.7**	**32**	98-95-3	Nitrobenzene	3.7	U
208-96-8	Acenaphthylene	3.7	U	621-64-7	N-Nitroso-di-n-propylamine	0.93	U
98-86-2	Acetophenone	3.7	U	86-30-6	n-Nitrosodiphenylamine	3.7	U
120-12-7	**Anthracene**	**3.7**	**18**	87-86-5	Pentachlorophenol	19	U
1912-24-9	Atrazine	3.7	U	**85-01-8**	**Phenanthrene**	**3.7**	**94**
100-52-7	Benzaldehyde	3.7	U	108-95-2	Phenol	3.7	U
56-55-3	**Benzo[a]anthracene**	**3.7**	**3.9**	**129-00-0**	**Pyrene**	**3.7**	**34**
50-32-8	Benzo[a]pyrene	3.7	U				

Worksheet #: 304385 ***Total Target Concentration*** 300 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-018
Client Id: EXT 3(27-29')
Data File: 10M44333.D
Analysis Date: 05/29/14 14:37
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.038	U	205-99-2	Benzo[b]fluoranthene	0.038	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.038	U	191-24-2	Benzo[g,h,i]perylene	0.038	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.038	U	207-08-9	Benzo[k]fluoranthene	0.038	U
95-95-4	2,4,5-Trichlorophenol	0.038	U	111-91-1	bis(2-Chloroethoxy)methan	0.038	U
88-06-2	2,4,6-Trichlorophenol	0.038	U	111-44-4	bis(2-Chloroethyl)ether	0.0096	U
120-83-2	2,4-Dichlorophenol	0.0096	U	108-60-1	bis(2-chloroisopropyl)ether	0.038	U
105-67-9	2,4-Dimethylphenol	0.0096	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.038**	**0.10**
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.038	U
121-14-2	2,4-Dinitrotoluene	0.038	U	105-60-2	Caprolactam	0.038	U
606-20-2	2,6-Dinitrotoluene	0.038	U	86-74-8	Carbazole	0.038	U
91-58-7	2-Chloronaphthalene	0.038	U	218-01-9	Chrysene	0.038	U
95-57-8	2-Chlorophenol	0.038	U	53-70-3	Dibenzo[a,h]anthracene	0.038	U
91-57-6	2-Methylnaphthalene	0.038	U	**132-64-9**	**Dibenzofuran**	**0.0096**	**0.016**
95-48-7	2-Methylphenol	0.0096	U	84-66-2	Diethylphthalate	0.038	U
88-74-4	2-Nitroaniline	0.038	U	131-11-3	Dimethylphthalate	0.038	U
88-75-5	2-Nitrophenol	0.038	U	84-74-2	Di-n-butylphthalate	0.019	U
106-44-5	3&4-Methylphenol	0.0096	U	117-84-0	Di-n-octylphthalate	0.038	U
91-94-1	3,3'-Dichlorobenzidine	0.038	U	**206-44-0**	**Fluoranthene**	**0.038**	**0.057**
99-09-2	3-Nitroaniline	0.038	U	**86-73-7**	**Fluorene**	**0.038**	**0.063**
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.038	U
101-55-3	4-Bromophenyl-phenylether	0.038	U	87-68-3	Hexachlorobutadiene	0.038	U
59-50-7	4-Chloro-3-methylphenol	0.038	U	77-47-4	Hexachlorocyclopentadiene	0.038	U
106-47-8	4-Chloroaniline	0.018	U	67-72-1	Hexachloroethane	0.038	U
7005-72-3	4-Chlorophenyl-phenylether	0.038	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.038	U
100-01-6	4-Nitroaniline	0.038	U	78-59-1	Isophorone	0.038	U
100-02-7	4-Nitrophenol	0.038	U	91-20-3	Naphthalene	0.0096	U
83-32-9	Acenaphthene	0.038	U	98-95-3	Nitrobenzene	0.038	U
208-96-8	Acenaphthylene	0.038	U	621-64-7	N-Nitroso-di-n-propylamine	0.0096	U
98-86-2	Acetophenone	0.038	U	86-30-6	n-Nitrosodiphenylamine	0.038	U
120-12-7	Anthracene	0.038	U	87-86-5	Pentachlorophenol	0.19	U
1912-24-9	Atrazine	0.038	U	**85-01-8**	**Phenanthrene**	**0.038**	**0.12**
100-52-7	Benzaldehyde	0.038	U	108-95-2	Phenol	0.038	U
56-55-3	Benzo[a]anthracene	0.038	U	**129-00-0**	**Pyrene**	**0.038**	**0.099**
50-32-8	Benzo[a]pyrene	0.038	U				

Worksheet #: 304385

Total Target Concentration 0.46

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-019
Client Id: SUMP1(0-2')
Data File: 10M44297.D
Analysis Date: 05/27/14 16:28
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.036	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.036**	**0.17**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.036	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.036**	**0.069**
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.036**	**0.055**
95-95-4	2,4,5-Trichlorophenol	0.036	U	111-91-1	bis(2-Chloroethoxy)methan	0.036	U
88-06-2	2,4,6-Trichlorophenol	0.036	U	111-44-4	bis(2-Chloroethyl)ether	0.0091	U
120-83-2	2,4-Dichlorophenol	0.0091	U	108-60-1	bis(2-chloroisopropyl)ether	0.036	U
105-67-9	2,4-Dimethylphenol	0.0091	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.036**	**0.21**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.036	U
121-14-2	2,4-Dinitrotoluene	0.036	U	105-60-2	Caprolactam	0.036	U
606-20-2	2,6-Dinitrotoluene	0.036	U	86-74-8	Carbazole	0.036	U
91-58-7	2-Chloronaphthalene	0.036	U	**218-01-9**	**Chrysene**	**0.036**	**0.14**
95-57-8	2-Chlorophenol	0.036	U	53-70-3	Dibenzo[a,h]anthracene	0.036	U
91-57-6	2-Methylnaphthalene	0.036	U	132-64-9	Dibenzofuran	0.0091	U
95-48-7	2-Methylphenol	0.0091	U	84-66-2	Diethylphthalate	0.036	U
88-74-4	2-Nitroaniline	0.036	U	131-11-3	Dimethylphthalate	0.036	U
88-75-5	2-Nitrophenol	0.036	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0091	U	117-84-0	Di-n-octylphthalate	0.036	U
91-94-1	3,3'-Dichlorobenzidine	0.036	U	**206-44-0**	**Fluoranthene**	**0.036**	**0.25**
99-09-2	3-Nitroaniline	0.036	U	86-73-7	Fluorene	0.036	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.036	U
101-55-3	4-Bromophenyl-phenylether	0.036	U	87-68-3	Hexachlorobutadiene	0.036	U
59-50-7	4-Chloro-3-methylphenol	0.036	U	77-47-4	Hexachlorocyclopentadiene	0.036	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.036	U
7005-72-3	4-Chlorophenyl-phenylether	0.036	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.036**	**0.059**
100-01-6	4-Nitroaniline	0.036	U	78-59-1	Isophorone	0.036	U
100-02-7	4-Nitrophenol	0.036	U	**91-20-3**	**Naphthalene**	**0.0091**	**0.011**
83-32-9	Acenaphthene	0.036	U	98-95-3	Nitrobenzene	0.036	U
208-96-8	Acenaphthylene	0.036	U	621-64-7	N-Nitroso-di-n-propylamine	0.0091	U
98-86-2	Acetophenone	0.036	U	86-30-6	n-Nitrosodiphenylamine	0.036	U
120-12-7	Anthracene	0.036	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.036	U	**85-01-8**	**Phenanthrene**	**0.036**	**0.16**
100-52-7	Benzaldehyde	0.036	U	108-95-2	Phenol	0.036	U
56-55-3	**Benzo[a]anthracene**	**0.036**	**0.16**	**129-00-0**	**Pyrene**	**0.036**	**0.25**
50-32-8	**Benzo[a]pyrene**	**0.036**	**0.13**				

Worksheet #: 304385 ***Total Target Concentration*** 1.7 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-020
Client Id: SUMP1(3-5')
Data File: 10M44298.D
Analysis Date: 05/27/14 16:50
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 94

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.035	U	205-99-2	Benzo[b]fluoranthene	0.035	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	U	191-24-2	Benzo[g,h,i]perylene	0.035	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.035	U	207-08-9	Benzo[k]fluoranthene	0.035	U
95-95-4	2,4,5-Trichlorophenol	0.035	U	111-91-1	bis(2-Chloroethoxy)methan	0.035	U
88-06-2	2,4,6-Trichlorophenol	0.035	U	111-44-4	bis(2-Chloroethyl)ether	0.0089	U
120-83-2	2,4-Dichlorophenol	0.0089	U	108-60-1	bis(2-chloroisopropyl)ether	0.035	U
105-67-9	2,4-Dimethylphenol	0.0089	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.035**	**0.39**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.035	U
121-14-2	2,4-Dinitrotoluene	0.035	U	105-60-2	Caprolactam	0.035	U
606-20-2	2,6-Dinitrotoluene	0.035	U	86-74-8	Carbazole	0.035	U
91-58-7	2-Chloronaphthalene	0.035	U	218-01-9	Chrysene	0.035	U
95-57-8	2-Chlorophenol	0.035	U	53-70-3	Dibenzo[a,h]anthracene	0.035	U
91-57-6	2-Methylnaphthalene	0.035	U	132-64-9	Dibenzofuran	0.0089	U
95-48-7	2-Methylphenol	0.0089	U	84-66-2	Diethylphthalate	0.035	U
88-74-4	2-Nitroaniline	0.035	U	131-11-3	Dimethylphthalate	0.035	U
88-75-5	2-Nitrophenol	0.035	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0089	U	117-84-0	Di-n-octylphthalate	0.035	U
91-94-1	3,3'-Dichlorobenzidine	0.035	U	206-44-0	Fluoranthene	0.035	U
99-09-2	3-Nitroaniline	0.035	U	86-73-7	Fluorene	0.035	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.035	U
101-55-3	4-Bromophenyl-phenylether	0.035	U	87-68-3	Hexachlorobutadiene	0.035	U
59-50-7	4-Chloro-3-methylphenol	0.035	U	77-47-4	Hexachlorocyclopentadiene	0.035	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.035	U
7005-72-3	4-Chlorophenyl-phenylether	0.035	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.035	U
100-01-6	4-Nitroaniline	0.035	U	78-59-1	Isophorone	0.035	U
100-02-7	4-Nitrophenol	0.035	U	91-20-3	Naphthalene	0.0089	U
83-32-9	Acenaphthene	0.035	U	98-95-3	Nitrobenzene	0.035	U
208-96-8	Acenaphthylene	0.035	U	621-64-7	N-Nitroso-di-n-propylamine	0.0089	U
98-86-2	Acetophenone	0.035	U	86-30-6	n-Nitrosodiphenylamine	0.035	U
120-12-7	Anthracene	0.035	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.035	U	85-01-8	Phenanthrene	0.035	U
100-52-7	Benzaldehyde	0.035	U	108-95-2	Phenol	0.035	U
56-55-3	Benzo[a]anthracene	0.035	U	129-00-0	Pyrene	0.035	U
50-32-8	Benzo[a]pyrene	0.035	U				

Worksheet #: 304385

Total Target Concentration 0.39

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-021
Client Id: BASE 1(0-2')
Data File: 9M57045.D
Analysis Date: 05/27/14 19:36
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	**1,1'-Biphenyl**	**0.037**	**0.056**	**205-99-2**	**Benzo[b]fluoranthene**	**0.037**	**0.21**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.037	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.037**	**0.17**
58-90-2	2,3,4,6-Tetrachlorophenol	0.037	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.037**	**0.071**
95-95-4	2,4,5-Trichlorophenol	0.037	U	111-91-1	bis(2-Chloroethoxy)methan	0.037	U
88-06-2	2,4,6-Trichlorophenol	0.037	U	111-44-4	bis(2-Chloroethyl)ether	0.0094	U
120-83-2	2,4-Dichlorophenol	0.0094	U	108-60-1	bis(2-chloroisopropyl)ether	0.037	U
105-67-9	2,4-Dimethylphenol	0.0094	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.037**	**0.61**
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.037	U
121-14-2	2,4-Dinitrotoluene	0.037	U	105-60-2	Caprolactam	0.037	U
606-20-2	2,6-Dinitrotoluene	0.037	U	86-74-8	Carbazole	0.037	U
91-58-7	2-Chloronaphthalene	0.037	U	**218-01-9**	**Chrysene**	**0.037**	**0.17**
95-57-8	2-Chlorophenol	0.037	U	53-70-3	Dibenzo[a,h]anthracene	0.037	U
91-57-6	**2-Methylnaphthalene**	**0.037**	**0.30**	**132-64-9**	**Dibenzofuran**	**0.0094**	**0.036**
95-48-7	2-Methylphenol	0.0094	U	84-66-2	Diethylphthalate	0.037	U
88-74-4	2-Nitroaniline	0.037	U	131-11-3	Dimethylphthalate	0.037	U
88-75-5	2-Nitrophenol	0.037	U	**84-74-2**	**Di-n-butylphthalate**	**0.019**	**0.044**
106-44-5	3&4-Methylphenol	0.0094	U	117-84-0	Di-n-octylphthalate	0.037	U
91-94-1	3,3'-Dichlorobenzidine	0.037	U	**206-44-0**	**Fluoranthene**	**0.037**	**0.32**
99-09-2	3-Nitroaniline	0.037	U	86-73-7	Fluorene	0.037	U
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.037	U
101-55-3	4-Bromophenyl-phenylether	0.037	U	87-68-3	Hexachlorobutadiene	0.037	U
59-50-7	4-Chloro-3-methylphenol	0.037	U	77-47-4	Hexachlorocyclopentadiene	0.037	U
106-47-8	4-Chloroaniline	0.018	U	67-72-1	Hexachloroethane	0.037	U
7005-72-3	4-Chlorophenyl-phenylether	0.037	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.037**	**0.13**
100-01-6	4-Nitroaniline	0.037	U	78-59-1	Isophorone	0.037	U
100-02-7	4-Nitrophenol	0.037	U	**91-20-3**	**Naphthalene**	**0.0094**	**0.11**
83-32-9	Acenaphthene	0.037	U	98-95-3	Nitrobenzene	0.037	U
208-96-8	Acenaphthylene	0.037	U	621-64-7	N-Nitroso-di-n-propylamine	0.0094	U
98-86-2	Acetophenone	0.037	U	86-30-6	n-Nitrosodiphenylamine	0.037	U
120-12-7	**Anthracene**	**0.037**	**0.051**	87-86-5	Pentachlorophenol	0.19	U
1912-24-9	Atrazine	0.037	U	**85-01-8**	**Phenanthrene**	**0.037**	**0.28**
100-52-7	Benzaldehyde	0.037	U	108-95-2	Phenol	0.037	U
56-55-3	**Benzo[a]anthracene**	**0.037**	**0.19**	**129-00-0**	**Pyrene**	**0.037**	**0.36**
50-32-8	**Benzo[a]pyrene**	**0.037**	**0.15**				

Worksheet #: 304385 ***Total Target Concentration*** 3.3 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-022
Client Id: BASE 1(3-5')
Data File: 9M57044.D
Analysis Date: 05/27/14 19:12
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.036	U	205-99-2	Benzo[b]fluoranthene	0.036	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.036	U	191-24-2	Benzo[g,h,i]perylene	0.036	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	207-08-9	Benzo[k]fluoranthene	0.036	U
95-95-4	2,4,5-Trichlorophenol	0.036	U	111-91-1	bis(2-Chloroethoxy)methan	0.036	U
88-06-2	2,4,6-Trichlorophenol	0.036	U	111-44-4	bis(2-Chloroethyl)ether	0.0090	U
120-83-2	2,4-Dichlorophenol	0.0090	U	108-60-1	bis(2-chloroisopropyl)ether	0.036	U
105-67-9	2,4-Dimethylphenol	0.0090	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.036**	**0.34**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.036	U
121-14-2	2,4-Dinitrotoluene	0.036	U	105-60-2	Caprolactam	0.036	U
606-20-2	2,6-Dinitrotoluene	0.036	U	86-74-8	Carbazole	0.036	U
91-58-7	2-Chloronaphthalene	0.036	U	218-01-9	Chrysene	0.036	U
95-57-8	2-Chlorophenol	0.036	U	53-70-3	Dibenzo[a,h]anthracene	0.036	U
91-57-6	2-Methylnaphthalene	0.036	U	132-64-9	Dibenzofuran	0.0090	U
95-48-7	2-Methylphenol	0.0090	U	84-66-2	Diethylphthalate	0.036	U
88-74-4	2-Nitroaniline	0.036	U	131-11-3	Dimethylphthalate	0.036	U
88-75-5	2-Nitrophenol	0.036	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0090	U	117-84-0	Di-n-octylphthalate	0.036	U
91-94-1	3,3'-Dichlorobenzidine	0.036	U	**206-44-0**	**Fluoranthene**	**0.036**	**0.039**
99-09-2	3-Nitroaniline	0.036	U	86-73-7	Fluorene	0.036	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.036	U
101-55-3	4-Bromophenyl-phenylether	0.036	U	87-68-3	Hexachlorobutadiene	0.036	U
59-50-7	4-Chloro-3-methylphenol	0.036	U	77-47-4	Hexachlorocyclopentadiene	0.036	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.036	U
7005-72-3	4-Chlorophenyl-phenylether	0.036	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U
100-01-6	4-Nitroaniline	0.036	U	78-59-1	Isophorone	0.036	U
100-02-7	4-Nitrophenol	0.036	U	91-20-3	Naphthalene	0.0090	U
83-32-9	Acenaphthene	0.036	U	98-95-3	Nitrobenzene	0.036	U
208-96-8	Acenaphthylene	0.036	U	621-64-7	N-Nitroso-di-n-propylamine	0.0090	U
98-86-2	Acetophenone	0.036	U	86-30-6	n-Nitrosodiphenylamine	0.036	U
120-12-7	Anthracene	0.036	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.036	U	85-01-8	Phenanthrene	0.036	U
100-52-7	Benzaldehyde	0.036	U	108-95-2	Phenol	0.036	U
56-55-3	Benzo[a]anthracene	0.036	U	**129-00-0**	**Pyrene**	**0.036**	**0.048**
50-32-8	Benzo[a]pyrene	0.036	U				

Worksheet #: 304385 ***Total Target Concentration*** 0.43 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-023
Client Id: BASE 2 (0-2')
Data File: 10M44301.D
Analysis Date: 05/27/14 17:57
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.036	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.036**	**0.050**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.036	U	191-24-2	Benzo[g,h,i]perylene	0.036	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	207-08-9	Benzo[k]fluoranthene	0.036	U
95-95-4	2,4,5-Trichlorophenol	0.036	U	111-91-1	bis(2-Chloroethoxy)methan	0.036	U
88-06-2	2,4,6-Trichlorophenol	0.036	U	111-44-4	bis(2-Chloroethyl)ether	0.0090	U
120-83-2	2,4-Dichlorophenol	0.0090	U	108-60-1	bis(2-chloroisopropyl)ether	0.036	U
105-67-9	2,4-Dimethylphenol	0.0090	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.036**	**0.18**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.036	U
121-14-2	2,4-Dinitrotoluene	0.036	U	105-60-2	Caprolactam	0.036	U
606-20-2	2,6-Dinitrotoluene	0.036	U	86-74-8	Carbazole	0.036	U
91-58-7	2-Chloronaphthalene	0.036	U	**218-01-9**	**Chrysene**	**0.036**	**0.044**
95-57-8	2-Chlorophenol	0.036	U	53-70-3	Dibenzo[a,h]anthracene	0.036	U
91-57-6	2-Methylnaphthalene	0.036	U	132-64-9	Dibenzofuran	0.0090	U
95-48-7	2-Methylphenol	0.0090	U	84-66-2	Diethylphthalate	0.036	U
88-74-4	2-Nitroaniline	0.036	U	131-11-3	Dimethylphthalate	0.036	U
88-75-5	2-Nitrophenol	0.036	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0090	U	117-84-0	Di-n-octylphthalate	0.036	U
91-94-1	3,3'-Dichlorobenzidine	0.036	U	**206-44-0**	**Fluoranthene**	**0.036**	**0.081**
99-09-2	3-Nitroaniline	0.036	U	86-73-7	Fluorene	0.036	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.036	U
101-55-3	4-Bromophenyl-phenylether	0.036	U	87-68-3	Hexachlorobutadiene	0.036	U
59-50-7	4-Chloro-3-methylphenol	0.036	U	77-47-4	Hexachlorocyclopentadiene	0.036	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.036	U
7005-72-3	4-Chlorophenyl-phenylether	0.036	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U
100-01-6	4-Nitroaniline	0.036	U	78-59-1	Isophorone	0.036	U
100-02-7	4-Nitrophenol	0.036	U	91-20-3	Naphthalene	0.0090	U
83-32-9	Acenaphthene	0.036	U	98-95-3	Nitrobenzene	0.036	U
208-96-8	Acenaphthylene	0.036	U	621-64-7	N-Nitroso-di-n-propylamine	0.0090	U
98-86-2	Acetophenone	0.036	U	86-30-6	n-Nitrosodiphenylamine	0.036	U
120-12-7	Anthracene	0.036	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.036	U	**85-01-8**	**Phenanthrene**	**0.036**	**0.057**
100-52-7	Benzaldehyde	0.036	U	108-95-2	Phenol	0.036	U
56-55-3	**Benzo[a]anthracene**	**0.036**	**0.046**	**129-00-0**	**Pyrene**	**0.036**	**0.080**
50-32-8	**Benzo[a]pyrene**	**0.036**	**0.040**				

Worksheet #: 304385 ***Total Target Concentration*** 0.58 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-024
Client Id: BASE 2 (3-5')
Data File: 10M44302.D
Analysis Date: 05/27/14 18:19
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.035	U	205-99-2	Benzo[b]fluoranthene	0.035	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	U	191-24-2	Benzo[g,h,i]perylene	0.035	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.035	U	207-08-9	Benzo[k]fluoranthene	0.035	U
95-95-4	2,4,5-Trichlorophenol	0.035	U	111-91-1	bis(2-Chloroethoxy)methan	0.035	U
88-06-2	2,4,6-Trichlorophenol	0.035	U	111-44-4	bis(2-Chloroethyl)ether	0.0088	U
120-83-2	2,4-Dichlorophenol	0.0088	U	108-60-1	bis(2-chloroisopropyl)ether	0.035	U
105-67-9	2,4-Dimethylphenol	0.0088	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.035**	**0.38**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.035	U
121-14-2	2,4-Dinitrotoluene	0.035	U	105-60-2	Caprolactam	0.035	U
606-20-2	2,6-Dinitrotoluene	0.035	U	86-74-8	Carbazole	0.035	U
91-58-7	2-Chloronaphthalene	0.035	U	218-01-9	Chrysene	0.035	U
95-57-8	2-Chlorophenol	0.035	U	53-70-3	Dibenzo[a,h]anthracene	0.035	U
91-57-6	2-Methylnaphthalene	0.035	U	132-64-9	Dibenzofuran	0.0088	U
95-48-7	2-Methylphenol	0.0088	U	84-66-2	Diethylphthalate	0.035	U
88-74-4	2-Nitroaniline	0.035	U	131-11-3	Dimethylphthalate	0.035	U
88-75-5	2-Nitrophenol	0.035	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0088	U	117-84-0	Di-n-octylphthalate	0.035	U
91-94-1	3,3'-Dichlorobenzidine	0.035	U	206-44-0	Fluoranthene	0.035	U
99-09-2	3-Nitroaniline	0.035	U	86-73-7	Fluorene	0.035	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.035	U
101-55-3	4-Bromophenyl-phenylether	0.035	U	87-68-3	Hexachlorobutadiene	0.035	U
59-50-7	4-Chloro-3-methylphenol	0.035	U	77-47-4	Hexachlorocyclopentadiene	0.035	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.035	U
7005-72-3	4-Chlorophenyl-phenylether	0.035	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.035	U
100-01-6	4-Nitroaniline	0.035	U	78-59-1	Isophorone	0.035	U
100-02-7	4-Nitrophenol	0.035	U	91-20-3	Naphthalene	0.0088	U
83-32-9	Acenaphthene	0.035	U	98-95-3	Nitrobenzene	0.035	U
208-96-8	Acenaphthylene	0.035	U	621-64-7	N-Nitroso-di-n-propylamine	0.0088	U
98-86-2	Acetophenone	0.035	U	86-30-6	n-Nitrosodiphenylamine	0.035	U
120-12-7	Anthracene	0.035	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.035	U	85-01-8	Phenanthrene	0.035	U
100-52-7	Benzaldehyde	0.035	U	108-95-2	Phenol	0.035	U
56-55-3	Benzo[a]anthracene	0.035	U	129-00-0	Pyrene	0.035	U
50-32-8	Benzo[a]pyrene	0.035	U				

Worksheet #: 304385 ***Total Target Concentration*** 0.38 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-025
Client Id: BASE 3 (0-2')
Data File: 10M44303.D
Analysis Date: 05/27/14 18:41
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.036	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.036**	**0.086**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.036	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.036**	**0.039**
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	207-08-9	Benzo[k]fluoranthene	0.036	U
95-95-4	2,4,5-Trichlorophenol	0.036	U	111-91-1	bis(2-Chloroethoxy)methan	0.036	U
88-06-2	2,4,6-Trichlorophenol	0.036	U	111-44-4	bis(2-Chloroethyl)ether	0.0091	U
120-83-2	2,4-Dichlorophenol	0.0091	U	108-60-1	bis(2-chloroisopropyl)ether	0.036	U
105-67-9	2,4-Dimethylphenol	0.0091	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.036**	**0.12**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.036	U
121-14-2	2,4-Dinitrotoluene	0.036	U	105-60-2	Caprolactam	0.036	U
606-20-2	2,6-Dinitrotoluene	0.036	U	86-74-8	Carbazole	0.036	U
91-58-7	2-Chloronaphthalene	0.036	U	**218-01-9**	**Chrysene**	**0.036**	**0.076**
95-57-8	2-Chlorophenol	0.036	U	53-70-3	Dibenzo[a,h]anthracene	0.036	U
91-57-6	2-Methylnaphthalene	0.036	U	132-64-9	Dibenzofuran	0.0091	U
95-48-7	2-Methylphenol	0.0091	U	84-66-2	Diethylphthalate	0.036	U
88-74-4	2-Nitroaniline	0.036	U	131-11-3	Dimethylphthalate	0.036	U
88-75-5	2-Nitrophenol	0.036	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0091	U	117-84-0	Di-n-octylphthalate	0.036	U
91-94-1	3,3'-Dichlorobenzidine	0.036	U	**206-44-0**	**Fluoranthene**	**0.036**	**0.16**
99-09-2	3-Nitroaniline	0.036	U	86-73-7	Fluorene	0.036	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.036	U
101-55-3	4-Bromophenyl-phenylether	0.036	U	87-68-3	Hexachlorobutadiene	0.036	U
59-50-7	4-Chloro-3-methylphenol	0.036	U	77-47-4	Hexachlorocyclopentadiene	0.036	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.036	U
7005-72-3	4-Chlorophenyl-phenylether	0.036	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U
100-01-6	4-Nitroaniline	0.036	U	78-59-1	Isophorone	0.036	U
100-02-7	4-Nitrophenol	0.036	U	**91-20-3**	**Naphthalene**	**0.0091**	**0.010**
83-32-9	Acenaphthene	0.036	U	98-95-3	Nitrobenzene	0.036	U
208-96-8	Acenaphthylene	0.036	U	621-64-7	N-Nitroso-di-n-propylamine	0.0091	U
98-86-2	Acetophenone	0.036	U	86-30-6	n-Nitrosodiphenylamine	0.036	U
120-12-7	Anthracene	0.036	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.036	U	**85-01-8**	**Phenanthrene**	**0.036**	**0.11**
100-52-7	Benzaldehyde	0.036	U	**108-95-2**	**Phenol**	**0.036**	**0.049**
56-55-3	**Benzo[a]anthracene**	**0.036**	**0.077**	**129-00-0**	**Pyrene**	**0.036**	**0.14**
50-32-8	**Benzo[a]pyrene**	**0.036**	**0.061**				

Worksheet #: 304409 ***Total Target Concentration*** 0.93 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-026
Client Id: BASE 3 (3-5')
Data File: 10M44304.D
Analysis Date: 05/27/14 19:04
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.036	U	205-99-2	Benzo[b]fluoranthene	0.036	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.036	U	191-24-2	Benzo[g,h,i]perylene	0.036	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	207-08-9	Benzo[k]fluoranthene	0.036	U
95-95-4	2,4,5-Trichlorophenol	0.036	U	111-91-1	bis(2-Chloroethoxy)methan	0.036	U
88-06-2	2,4,6-Trichlorophenol	0.036	U	111-44-4	bis(2-Chloroethyl)ether	0.0090	U
120-83-2	2,4-Dichlorophenol	0.0090	U	108-60-1	bis(2-chloroisopropyl)ether	0.036	U
105-67-9	2,4-Dimethylphenol	0.0090	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.036**	**0.59**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.036	U
121-14-2	2,4-Dinitrotoluene	0.036	U	105-60-2	Caprolactam	0.036	U
606-20-2	2,6-Dinitrotoluene	0.036	U	86-74-8	Carbazole	0.036	U
91-58-7	2-Chloronaphthalene	0.036	U	218-01-9	Chrysene	0.036	U
95-57-8	2-Chlorophenol	0.036	U	53-70-3	Dibenzo[a,h]anthracene	0.036	U
91-57-6	2-Methylnaphthalene	0.036	U	132-64-9	Dibenzofuran	0.0090	U
95-48-7	2-Methylphenol	0.0090	U	84-66-2	Diethylphthalate	0.036	U
88-74-4	2-Nitroaniline	0.036	U	131-11-3	Dimethylphthalate	0.036	U
88-75-5	2-Nitrophenol	0.036	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0090	U	117-84-0	Di-n-octylphthalate	0.036	U
91-94-1	3,3'-Dichlorobenzidine	0.036	U	206-44-0	Fluoranthene	0.036	U
99-09-2	3-Nitroaniline	0.036	U	86-73-7	Fluorene	0.036	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.036	U
101-55-3	4-Bromophenyl-phenylether	0.036	U	87-68-3	Hexachlorobutadiene	0.036	U
59-50-7	4-Chloro-3-methylphenol	0.036	U	77-47-4	Hexachlorocyclopentadiene	0.036	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.036	U
7005-72-3	4-Chlorophenyl-phenylether	0.036	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U
100-01-6	4-Nitroaniline	0.036	U	78-59-1	Isophorone	0.036	U
100-02-7	4-Nitrophenol	0.036	U	91-20-3	Naphthalene	0.0090	U
83-32-9	Acenaphthene	0.036	U	98-95-3	Nitrobenzene	0.036	U
208-96-8	Acenaphthylene	0.036	U	621-64-7	N-Nitroso-di-n-propylamine	0.0090	U
98-86-2	Acetophenone	0.036	U	86-30-6	n-Nitrosodiphenylamine	0.036	U
120-12-7	Anthracene	0.036	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.036	U	85-01-8	Phenanthrene	0.036	U
100-52-7	Benzaldehyde	0.036	U	**108-95-2**	**Phenol**	**0.036**	**0.051**
56-55-3	Benzo[a]anthracene	0.036	U	129-00-0	Pyrene	0.036	U
50-32-8	Benzo[a]pyrene	0.036	U				

Worksheet #: 304385 ***Total Target Concentration*** 0.64 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-001
Client Id: EXT1(0-2')
Data File: 2G90213.D
Analysis Date: 05/30/14 10:55
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.030	U	11097-69-1	Aroclor-1254	0.030	U
11104-28-2	Aroclor-1221	0.030	U	11096-82-5	Aroclor-1260	0.030	U
11141-16-5	Aroclor-1232	0.030	U	37324-23-5	Aroclor-1262	0.030	U
53469-21-9	Aroclor-1242	0.030	U	11100-14-4	Aroclor-1268	0.030	U
12672-29-6	Aroclor-1248	0.030	U	1336-36-3	Aroclor (Total)	0.030	U

Worksheet #: 304442 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-002
Client Id: EXT1(15-17')
Data File: 2G90214.D
Analysis Date: 05/30/14 11:10
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.029	U	11097-69-1	Aroclor-1254	0.029	U
11104-28-2	Aroclor-1221	0.029	U	11096-82-5	Aroclor-1260	0.029	U
11141-16-5	Aroclor-1232	0.029	U	37324-23-5	Aroclor-1262	0.029	U
53469-21-9	Aroclor-1242	0.029	U	11100-14-4	Aroclor-1268	0.029	U
12672-29-6	Aroclor-1248	0.029	U	1336-36-3	Aroclor (Total)	0.029	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-003
Client Id: EXT 1 U
Data File: 3G84504.D
Analysis Date: 05/23/14 15:51
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 304442 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-005
Client Id: FB052014 U
Data File: 3G84505.D
Analysis Date: 05/23/14 16:06
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-007
Client Id: EXT 2(0-2')
Data File: 2G90217.D
Analysis Date: 05/30/14 11:55
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.030	U	11097-69-1	Aroclor-1254	0.030	U
11104-28-2	Aroclor-1221	0.030	U	11096-82-5	Aroclor-1260	0.030	U
11141-16-5	Aroclor-1232	0.030	U	37324-23-5	Aroclor-1262	0.030	U
53469-21-9	Aroclor-1242	0.030	U	11100-14-4	Aroclor-1268	0.030	U
12672-29-6	Aroclor-1248	0.030	U	1336-36-3	Aroclor (Total)	0.030	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-008
Client Id: EXT 2(15-17')
Data File: 3G84591.D
Analysis Date: 05/29/14 16:38
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.026	U	11097-69-1	Aroclor-1254	0.026	U
11104-28-2	Aroclor-1221	0.026	U	11096-82-5	Aroclor-1260	0.026	U
11141-16-5	Aroclor-1232	0.026	U	37324-23-5	Aroclor-1262	0.026	U
53469-21-9	Aroclor-1242	0.026	U	11100-14-4	Aroclor-1268	0.026	U
12672-29-6	Aroclor-1248	0.026	U	1336-36-3	Aroclor (Total)	0.026	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-009
Client Id: DUP052014 U
Data File: 3G84506.D
Analysis Date: 05/23/14 16:21
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-011
Client Id: EXT 2 U
Data File: 3G84507.D
Analysis Date: 05/23/14 16:37
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-014
Client Id: EXT 3(0-2')
Data File: 3G84592.D
Analysis Date: 05/29/14 16:53
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-015
Client Id: EXT 3(15-17')
Data File: 3G84593.D
Analysis Date: 05/29/14 17:08
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.028	U	11097-69-1	Aroclor-1254	0.028	U
11104-28-2	Aroclor-1221	0.028	U	11096-82-5	Aroclor-1260	0.028	U
11141-16-5	Aroclor-1232	0.028	U	37324-23-5	Aroclor-1262	0.028	U
53469-21-9	Aroclor-1242	0.028	U	11100-14-4	Aroclor-1268	0.028	U
12672-29-6	Aroclor-1248	0.028	U	1336-36-3	Aroclor (Total)	0.028	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-016
Client Id: EXT 3 U
Data File: 3G84508.D
Analysis Date: 05/23/14 16:52
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 900ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.28	U	11097-69-1	Aroclor-1254	0.28	U
11104-28-2	Aroclor-1221	0.28	U	11096-82-5	Aroclor-1260	0.28	U
11141-16-5	Aroclor-1232	0.28	U	37324-23-5	Aroclor-1262	0.28	U
53469-21-9	Aroclor-1242	0.28	U	11100-14-4	Aroclor-1268	0.28	U
12672-29-6	Aroclor-1248	0.28	U	1336-36-3	Aroclor (Total)	0.28	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-018
Client Id: EXT 3(27-29')
Data File: 3G84594.D
Analysis Date: 05/29/14 17:24
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.029	U	11097-69-1	Aroclor-1254	0.029	U
11104-28-2	Aroclor-1221	0.029	U	11096-82-5	Aroclor-1260	0.029	U
11141-16-5	Aroclor-1232	0.029	U	37324-23-5	Aroclor-1262	0.029	U
53469-21-9	Aroclor-1242	0.029	U	11100-14-4	Aroclor-1268	0.029	U
12672-29-6	Aroclor-1248	0.029	U	1336-36-3	Aroclor (Total)	0.029	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-019
Client Id: SUMP1(0-2')
Data File: 3G84635.D
Analysis Date: 06/02/14 15:31
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304509 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-020
Client Id: SUMP1(3-5')
Data File: 3G84605.D
Analysis Date: 05/30/14 10:37
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 94

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-021
Client Id: BASE 1(0-2')
Data File: 2G90215.D
Analysis Date: 05/30/14 11:25
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.028	U	11097-69-1	Aroclor-1254	0.028	U
11104-28-2	Aroclor-1221	0.028	U	11096-82-5	Aroclor-1260	0.028	U
11141-16-5	Aroclor-1232	0.028	U	37324-23-5	Aroclor-1262	0.028	U
53469-21-9	Aroclor-1242	0.028	U	11100-14-4	Aroclor-1268	0.028	U
12672-29-6	Aroclor-1248	0.028	U	1336-36-3	Aroclor (Total)	0.028	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-022
Client Id: BASE 1(3-5')
Data File: 2G90216.D
Analysis Date: 05/30/14 11:40
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-023
Client Id: BASE 2 (0-2')
Data File: 3G84606.D
Analysis Date: 05/30/14 10:52
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-024
Client Id: BASE 2 (3-5')
Data File: 3G84607.D
Analysis Date: 05/30/14 11:07
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.026	U	11097-69-1	Aroclor-1254	0.026	U
11104-28-2	Aroclor-1221	0.026	U	11096-82-5	Aroclor-1260	0.026	U
11141-16-5	Aroclor-1232	0.026	U	37324-23-5	Aroclor-1262	0.026	U
53469-21-9	Aroclor-1242	0.026	U	11100-14-4	Aroclor-1268	0.026	U
12672-29-6	Aroclor-1248	0.026	U	1336-36-3	Aroclor (Total)	0.026	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-025
Client Id: BASE 3 (0-2')
Data File: 3G84604.D
Analysis Date: 05/30/14 10:22
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-026
Client Id: BASE 3 (3-5')
Data File: 3G84608.D
Analysis Date: 05/30/14 11:22
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-001
Client Id: EXT1(0-2')
Data File: 6G49339.D
Analysis Date: 05/30/14 05:25
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0061	U	7421-93-4	Endrin Aldehyde	0.0061	U
319-84-6	alpha-BHC	0.0012	U	53494-70-5	Endrin Ketone	0.0061	U
319-85-7	beta-BHC	0.0012	U	58-89-9	gamma-BHC	0.0012	U
57-74-9	Chlordane	0.030	U	76-44-8	Heptachlor	0.0061	U
319-86-8	delta-BHC	0.0061	U	1024-57-3	Heptachlor Epoxide	0.0061	U
60-57-1	Dieldrin	0.0012	U	72-43-5	Methoxychlor	0.0061	U
959-98-8	Endosulfan I	0.0061	U	72-54-8	p,p'-DDD	0.0030	U
33213-65-9	Endosulfan II	0.0061	U	72-55-9	p,p'-DDE	0.0030	U
1031-07-8	Endosulfan Sulfate	0.0061	U	50-29-3	p,p'-DDT	0.0030	U
72-20-8	Endrin	0.0061	U	8001-35-2	Toxaphene	0.030	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-002
Client Id: EXT1(15-17')
Data File: 6G49340.D
Analysis Date: 05/30/14 05:42
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0057	U	7421-93-4	Endrin Aldehyde	0.0057	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0057	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	**Chlordane**	**0.029**	**0.12**	76-44-8	Heptachlor	0.0057	U
319-86-8	delta-BHC	0.0057	U	1024-57-3	Heptachlor Epoxide	0.0057	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0057	U
959-98-8	Endosulfan I	0.0057	U	72-54-8	p,p'-DDD	0.0029	U
33213-65-9	Endosulfan II	0.0057	U	72-55-9	p,p'-DDE	0.0029	U
1031-07-8	Endosulfan Sulfate	0.0057	U	50-29-3	p,p'-DDT	0.0029	U
72-20-8	Endrin	0.0057	U	8001-35-2	Toxaphene	0.029	U

Worksheet #: 304445

Total Target Concentration 0.12

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-003
Client Id: EXT 1 U
Data File: 5G51961.D
Analysis Date: 05/23/14 12:33
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.010	U	7421-93-4	Endrin Aldehyde	0.010	U
319-84-6	alpha-BHC	0.010	U	53494-70-5	Endrin Ketone	0.010	U
319-85-7	beta-BHC	0.010	U	58-89-9	gamma-BHC	0.010	U
57-74-9	Chlordane	0.10	U	76-44-8	Heptachlor	0.010	U
319-86-8	delta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
60-57-1	Dieldrin	0.010	U	72-43-5	Methoxychlor	0.010	U
959-98-8	Endosulfan I	0.010	U	72-54-8	p,p'-DDD	0.010	U
33213-65-9	Endosulfan II	0.010	U	72-55-9	p,p'-DDE	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	50-29-3	p,p'-DDT	0.010	U
72-20-8	Endrin	0.010	U	8001-35-2	Toxaphene	0.25	U

Worksheet #: 304445 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-005
Client Id: FB052014 U
Data File: 5G51962.D
Analysis Date: 05/23/14 12:51
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.010	U	7421-93-4	Endrin Aldehyde	0.010	U
319-84-6	alpha-BHC	0.010	U	53494-70-5	Endrin Ketone	0.010	U
319-85-7	beta-BHC	0.010	U	58-89-9	gamma-BHC	0.010	U
57-74-9	Chlordane	0.10	U	76-44-8	Heptachlor	0.010	U
319-86-8	delta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
60-57-1	Dieldrin	0.010	U	72-43-5	Methoxychlor	0.010	U
959-98-8	Endosulfan I	0.010	U	72-54-8	p,p'-DDD	0.010	U
33213-65-9	Endosulfan II	0.010	U	72-55-9	p,p'-DDE	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	50-29-3	p,p'-DDT	0.010	U
72-20-8	Endrin	0.010	U	8001-35-2	Toxaphene	0.25	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-007
Client Id: EXT 2(0-2')
Data File: 6G49336.D
Analysis Date: 05/30/14 04:32
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0060	U	7421-93-4	Endrin Aldehyde	0.0060	U
319-84-6	alpha-BHC	0.0012	U	53494-70-5	Endrin Ketone	0.0060	U
319-85-7	beta-BHC	0.0012	U	58-89-9	gamma-BHC	0.0012	U
57-74-9	Chlordane	0.030	U	76-44-8	Heptachlor	0.0060	U
319-86-8	delta-BHC	0.0060	U	1024-57-3	Heptachlor Epoxide	0.0060	U
60-57-1	Dieldrin	0.0012	U	72-43-5	Methoxychlor	0.0060	U
959-98-8	Endosulfan I	0.0060	U	72-54-8	p,p'-DDD	0.0030	U
33213-65-9	Endosulfan II	0.0060	U	72-55-9	p,p'-DDE	0.0030	U
1031-07-8	Endosulfan Sulfate	0.0060	U	50-29-3	p,p'-DDT	0.0030	U
72-20-8	Endrin	0.0060	U	8001-35-2	Toxaphene	0.030	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-008
Client Id: EXT 2(15-17')
Data File: 5G52076.D
Analysis Date: 05/30/14 01:20
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0053	U	7421-93-4	Endrin Aldehyde	0.0053	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0053	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.026	U	76-44-8	Heptachlor	0.0053	U
319-86-8	delta-BHC	0.0053	U	1024-57-3	Heptachlor Epoxide	0.0053	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0053	U
959-98-8	Endosulfan I	0.0053	U	72-54-8	p,p'-DDD	0.0026	U
33213-65-9	Endosulfan II	0.0053	U	72-55-9	p,p'-DDE	0.0026	U
1031-07-8	Endosulfan Sulfate	0.0053	U	50-29-3	p,p'-DDT	0.0026	U
72-20-8	Endrin	0.0053	U	8001-35-2	Toxaphene	0.026	U

Worksheet #: 304445 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-009
Client Id: DUP052014 U
Data File: 5G51963.D
Analysis Date: 05/23/14 13:08
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.010	U	7421-93-4	Endrin Aldehyde	0.010	U
319-84-6	alpha-BHC	0.010	U	53494-70-5	Endrin Ketone	0.010	U
319-85-7	beta-BHC	0.010	U	58-89-9	gamma-BHC	0.010	U
57-74-9	Chlordane	0.10	U	76-44-8	Heptachlor	0.010	U
319-86-8	delta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
60-57-1	Dieldrin	0.010	U	72-43-5	Methoxychlor	0.010	U
959-98-8	Endosulfan I	0.010	U	72-54-8	p,p'-DDD	0.010	U
33213-65-9	Endosulfan II	0.010	U	72-55-9	p,p'-DDE	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	50-29-3	p,p'-DDT	0.010	U
72-20-8	Endrin	0.010	U	8001-35-2	Toxaphene	0.25	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-011
Client Id: EXT 2 U
Data File: 5G51964.D
Analysis Date: 05/23/14 13:26
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.010	U	7421-93-4	Endrin Aldehyde	0.010	U
319-84-6	alpha-BHC	0.010	U	53494-70-5	Endrin Ketone	0.010	U
319-85-7	beta-BHC	0.010	U	58-89-9	gamma-BHC	0.010	U
57-74-9	Chlordane	0.10	U	76-44-8	Heptachlor	0.010	U
319-86-8	delta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
60-57-1	Dieldrin	0.010	U	72-43-5	Methoxychlor	0.010	U
959-98-8	Endosulfan I	0.010	U	72-54-8	p,p'-DDD	0.010	U
33213-65-9	Endosulfan II	0.010	U	72-55-9	p,p'-DDE	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	50-29-3	p,p'-DDT	0.010	U
72-20-8	Endrin	0.010	U	8001-35-2	Toxaphene	0.25	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-014
Client Id: EXT 3(0-2')
Data File: 6G49335.D
Analysis Date: 05/30/14 04:15
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0055	U	7421-93-4	Endrin Aldehyde	0.0055	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0055	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0055	U
319-86-8	delta-BHC	0.0055	U	1024-57-3	Heptachlor Epoxide	0.0055	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0055	U
959-98-8	Endosulfan I	0.0055	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0055	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0055	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0055	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-015
Client Id: EXT 3(15-17')
Data File: 6G49334.D
Analysis Date: 05/30/14 03:58
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0056	U	7421-93-4	Endrin Aldehyde	0.0056	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0056	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.028	U	76-44-8	Heptachlor	0.0056	U
319-86-8	delta-BHC	0.0056	U	1024-57-3	Heptachlor Epoxide	0.0056	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0056	U
959-98-8	Endosulfan I	0.0056	U	72-54-8	p,p'-DDD	0.0028	U
33213-65-9	Endosulfan II	0.0056	U	72-55-9	p,p'-DDE	0.0028	U
1031-07-8	Endosulfan Sulfate	0.0056	U	50-29-3	p,p'-DDT	0.0028	U
72-20-8	Endrin	0.0056	U	8001-35-2	Toxaphene	0.028	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-016
Client Id: EXT 3 U
Data File: 5G51965.D
Analysis Date: 05/23/14 13:44
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 900ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.011	U	7421-93-4	Endrin Aldehyde	0.011	U
319-84-6	alpha-BHC	0.011	U	53494-70-5	Endrin Ketone	0.011	U
319-85-7	beta-BHC	0.011	U	58-89-9	gamma-BHC	0.011	U
57-74-9	Chlordane	0.11	U	76-44-8	Heptachlor	0.011	U
319-86-8	delta-BHC	0.011	U	1024-57-3	Heptachlor Epoxide	0.011	U
60-57-1	Dieldrin	0.011	U	72-43-5	Methoxychlor	0.011	U
959-98-8	Endosulfan I	0.011	U	72-54-8	p,p'-DDD	0.011	U
33213-65-9	Endosulfan II	0.011	U	72-55-9	p,p'-DDE	0.011	U
1031-07-8	Endosulfan Sulfate	0.011	U	50-29-3	p,p'-DDT	0.011	U
72-20-8	Endrin	0.011	U	8001-35-2	Toxaphene	0.28	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-018
Client Id: EXT 3(27-29')
Data File: 5G52075.D
Analysis Date: 05/30/14 01:02
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0057	U	7421-93-4	Endrin Aldehyde	0.0057	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0057	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.029	U	76-44-8	Heptachlor	0.0057	U
319-86-8	delta-BHC	0.0057	U	1024-57-3	Heptachlor Epoxide	0.0057	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0057	U
959-98-8	Endosulfan I	0.0057	U	72-54-8	p,p'-DDD	0.0029	U
33213-65-9	Endosulfan II	0.0057	U	72-55-9	p,p'-DDE	0.0029	U
1031-07-8	Endosulfan Sulfate	0.0057	U	50-29-3	p,p'-DDT	0.0029	U
72-20-8	Endrin	0.0057	U	8001-35-2	Toxaphene	0.029	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-019
Client Id: SUMP1(0-2')
Data File: 5G52101.D
Analysis Date: 05/30/14 10:54
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0054	U	7421-93-4	Endrin Aldehyde	0.0054	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0054	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0054	U
319-86-8	delta-BHC	0.0054	U	1024-57-3	Heptachlor Epoxide	0.0054	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0054	U
959-98-8	Endosulfan I	0.0054	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0054	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0054	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0054	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-020
Client Id: SUMP1(3-5')
Data File: 5G52080.D
Analysis Date: 05/30/14 02:31
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 94

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0053	U	7421-93-4	Endrin Aldehyde	0.0053	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0053	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0053	U
319-86-8	delta-BHC	0.0053	U	1024-57-3	Heptachlor Epoxide	0.0053	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0053	U
959-98-8	Endosulfan I	0.0053	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0053	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0053	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0053	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-021
Client Id: BASE 1(0-2')
Data File: 6G49337.D
Analysis Date: 05/30/14 04:50
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0056	U	7421-93-4	Endrin Aldehyde	0.0056	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0056	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.028	U	76-44-8	Heptachlor	0.0056	U
319-86-8	delta-BHC	0.0056	U	1024-57-3	Heptachlor Epoxide	0.0056	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0056	U
959-98-8	Endosulfan I	0.0056	U	72-54-8	p,p'-DDD	0.0028	U
33213-65-9	Endosulfan II	0.0056	U	72-55-9	p,p'-DDE	0.0028	U
1031-07-8	Endosulfan Sulfate	0.0056	U	**50-29-3**	**(^)p,p'-DDT**	**0.0028**	**0.0063 d**
72-20-8	Endrin	0.0056	U	8001-35-2	Toxaphene	0.028	U

Worksheet #: 304445

Total Target Concentration 0.0063

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-022
Client Id: BASE 1(3-5')
Data File: 5G52094.D
Analysis Date: 05/30/14 06:39
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0054	U	7421-93-4	Endrin Aldehyde	0.0054	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0054	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0054	U
319-86-8	delta-BHC	0.0054	U	1024-57-3	Heptachlor Epoxide	0.0054	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0054	U
959-98-8	Endosulfan I	0.0054	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0054	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0054	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0054	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-023
Client Id: BASE 2 (0-2')
Data File: 5G52079.D
Analysis Date: 05/30/14 02:13
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0054	U	7421-93-4	Endrin Aldehyde	0.0054	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0054	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0054	U
319-86-8	delta-BHC	0.0054	U	1024-57-3	Heptachlor Epoxide	0.0054	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0054	U
959-98-8	Endosulfan I	0.0054	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0054	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0054	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0054	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-024
Client Id: BASE 2 (3-5')
Data File: 5G52078.D
Analysis Date: 05/30/14 01:55
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0053	U	7421-93-4	Endrin Aldehyde	0.0053	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0053	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.026	U	76-44-8	Heptachlor	0.0053	U
319-86-8	delta-BHC	0.0053	U	1024-57-3	Heptachlor Epoxide	0.0053	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0053	U
959-98-8	Endosulfan I	0.0053	U	72-54-8	p,p'-DDD	0.0026	U
33213-65-9	Endosulfan II	0.0053	U	72-55-9	p,p'-DDE	0.0026	U
1031-07-8	Endosulfan Sulfate	0.0053	U	50-29-3	p,p'-DDT	0.0026	U
72-20-8	Endrin	0.0053	U	8001-35-2	Toxaphene	0.026	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-025
Client Id: BASE 3 (0-2')
Data File: 6G49330.D
Analysis Date: 05/30/14 02:48
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0054	U	7421-93-4	Endrin Aldehyde	0.0054	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0054	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0054	U
319-86-8	delta-BHC	0.0054	U	1024-57-3	Heptachlor Epoxide	0.0054	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0054	U
959-98-8	Endosulfan I	0.0054	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0054	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0054	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0054	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-026
Client Id: BASE 3 (3-5')
Data File: 5G52077.D
Analysis Date: 05/30/14 01:37
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0054	U	7421-93-4	Endrin Aldehyde	0.0054	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0054	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0054	U
319-86-8	delta-BHC	0.0054	U	1024-57-3	Heptachlor Epoxide	0.0054	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0054	U
959-98-8	Endosulfan I	0.0054	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0054	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0054	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0054	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-001	% Solid:	82	Lab Name:	Veritech	Nras No:	
Client Id:	EXT1(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.98	6.3	1	0.5	100	05/23/14	32818	S052314B	29	MS	MS2_7500SWA
7440-41-7	Beryllium	0.24	0.30	1	0.5	100	05/23/14	32818	S052314B	29	MS	MS2_7500SWA
7440-43-9	Cadmium	0.49	1.6	1	0.5	100	05/23/14	32818	S052314B	29	MS	MS2_7500SWA
7782-49-2	Selenium	2.4	ND	1	0.5	100	05/23/14	32818	S052314B	29	MS	MS2_7500SWA
7440-22-4	Silver	0.24	0.74	1	0.5	100	05/23/14	32818	S052314B	29	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-001	% Solid:	82	Lab Name:	Veritech	Nras No:	
Client Id:	EXT1(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	240	3500	1	0.5	50	05/23/14	32817	S16379B3	23	P	PEICPRAD3A
7440-38-2	Arsenic	4.9	660	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-39-3	Barium	12	630	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-70-2	Calcium	1200	5400	1	0.5	50	05/23/14	32817	S16379B3	23	P	PEICPRAD3A
7440-47-3	Chromium	6.1	20	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-48-4	Cobalt	3.0	8.5	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-50-8	Copper	6.1	540	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7439-89-6	Iron	240	33000	1	0.5	50	05/23/14	32817	S16379B3	23	P	PEICPRAD3A
7439-92-1	Lead	6.1	1200	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7439-95-4	Magnesium	610	1100	1	0.5	50	05/23/14	32817	S16379B3	23	P	PEICPRAD3A
7439-96-5	Manganese	12	280	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7439-97-6	Mercury	4.1	170	40	0.15	25	06/02/14	32817	H16379Sc	11	CV	HGCV2A
7440-02-0	Nickel	6.1	58	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-09-7	Potassium	610	690	1	0.5	50	05/23/14	32817	S16379B3	23	P	PEICPRAD3A
7440-23-5	Sodium	300	ND	1	0.5	50	05/23/14	32817	S16379B3	23	P	PEICPRAD3A
7440-28-0	Thallium	1.8	ND	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-62-2	Vanadium	12	16	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-66-6	Zinc	12	610	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-002	% Solid:	87	Lab Name:	Veritech	Nras No:	
Client Id:	EXT1(15-17')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.92	ND	1	0.5	100	05/23/14	32818	S052314B	30	MS	MS2_7500SWA
7440-41-7	Beryllium	0.23	ND	1	0.5	100	05/23/14	32818	S052314B	30	MS	MS2_7500SWA
7440-43-9	Cadmium	0.46	ND	1	0.5	100	05/23/14	32818	S052314B	30	MS	MS2_7500SWA
7782-49-2	Selenium	2.3	ND	1	0.5	100	05/23/14	32818	S052314B	30	MS	MS2_7500SWA
7440-22-4	Silver	0.23	ND	1	0.5	100	05/23/14	32818	S052314B	30	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-002	% Solid:	87	Lab Name:	Veritech	Nras No:	
Client Id:	EXT1(15-17')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	230	5200	1	0.5	50	05/23/14	32817	S16379B3	24	P	PEICPRAD3A
7440-38-2	Arsenic	4.6	48	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-39-3	Barium	11	280	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-70-2	Calcium	1100	62000	1	0.5	50	05/23/14	32817	S16379B3	24	P	PEICPRAD3A
7440-47-3	Chromium	5.7	14	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-48-4	Cobalt	2.9	4.7	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-50-8	Copper	5.7	47	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7439-89-6	Iron	230	12000	1	0.5	50	05/23/14	32817	S16379B3	24	P	PEICPRAD3A
7439-92-1	Lead	5.7	660	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7439-95-4	Magnesium	570	6600	1	0.5	50	05/23/14	32817	S16379B3	24	P	PEICPRAD3A
7439-96-5	Manganese	11	430	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7439-97-6	Mercury	0.096	4.0	1	0.15	25	06/02/14	32817	H16379Sc	12	CV	HGCV2A
7440-02-0	Nickel	5.7	16	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-09-7	Potassium	570	950	1	0.5	50	05/23/14	32817	S16379B3	24	P	PEICPRAD3A
7440-23-5	Sodium	290	ND	1	0.5	50	05/23/14	32817	S16379B3	24	P	PEICPRAD3A
7440-28-0	Thallium	1.7	ND	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-62-2	Vanadium	11	22	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-66-6	Zinc	11	230	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-003	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 1 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/29/14	32819	SW52814A	44	MS	MS2_7500SWA
7440-38-2	Arsenic	10	6500	5	50	100	05/29/14	32819	SW52814A	47	MS	MS2_7500SWA
7440-41-7	Beryllium	5.0	16	5	50	100	05/29/14	32819	SW52814A	47	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	6.2	1	50	100	05/29/14	32819	SW52814A	44	MS	MS2_7500SWA
7440-48-4	Cobalt	10	390	5	50	100	05/29/14	32819	SW52814A	47	MS	MS2_7500SWA
7439-92-1	Lead	3.0	510	1	50	100	05/29/14	32819	SW52814A	44	MS	MS2_7500SWA
7782-49-2	Selenium	10	37	1	50	100	05/29/14	32819	SW52814A	44	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	4.0	1	50	100	05/29/14	32819	SW52814A	44	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-003	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 1 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	260000	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-39-3	Barium	50	2700	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-70-2	Calcium	5000	86000	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-47-3	Chromium	50	1100	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-50-8	Copper	50	1000	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7439-89-6	Iron	600	590000	2	50	50	05/28/14	32819	W16381C2	21	P	PEICP2A
7439-95-4	Magnesium	5000	250000	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7439-96-5	Manganese	40	14000	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	18	CV	HGCV1A
7440-02-0	Nickel	50	2000	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-09-7	Potassium	10000	79000	2	50	50	05/28/14	32819	W16381D2	23	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-23-5	Sodium	10000	41000	2	50	50	05/28/14	32819	W16381D2	23	P	PEICPRAD2A
7440-62-2	Vanadium	50	700	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-66-6	Zinc	50	2300	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-004	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 1 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	490	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-004	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 1 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-70-2	Calcium	5000	16000	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7439-95-4	Magnesium	5000	6300	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	19	CV	HGCV1A
7440-02-0	Nickel	50	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-09-7	Potassium	5000	5100	1	50	50	05/27/14	32819	W16381B2	24	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-23-5	Sodium	5000	32000	1	50	50	05/28/14	32819	W16381D2	24	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-005	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	FB052014 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-005	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	FB052014 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-70-2	Calcium	5000	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7439-95-4	Magnesium	5000	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	20	CV	HGCV1A
7440-02-0	Nickel	50	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	50	50	05/28/14	32819	W16381D2	25	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-23-5	Sodium	5000	ND	1	50	50	05/28/14	32819	W16381D2	25	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-006	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	FB052014 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-006	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	FB052014 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-70-2	Calcium	5000	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7439-95-4	Magnesium	5000	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	23	CV	HGCV1A
7440-02-0	Nickel	50	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	50	50	05/28/14	32819	W16381D2	26	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-23-5	Sodium	5000	ND	1	50	50	05/28/14	32819	W16381D2	26	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-007	% Solid:	83	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	0.97	1	0.5	100	05/23/14	32818	S052314B	31	MS	MS2_7500SWA
7440-41-7	Beryllium	0.24	0.43	1	0.5	100	05/23/14	32818	S052314B	31	MS	MS2_7500SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	05/23/14	32818	S052314B	31	MS	MS2_7500SWA
7782-49-2	Selenium	2.4	2.7	1	0.5	100	05/23/14	32818	S052314B	31	MS	MS2_7500SWA
7440-22-4	Silver	0.24	0.25	1	0.5	100	05/23/14	32818	S052314B	31	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-007	% Solid:	83	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	240	3500	1	0.5	50	05/23/14	32817	S16379B3	25	P	PEICPRAD3A
7440-38-2	Arsenic	4.8	480	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-39-3	Barium	12	570	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-70-2	Calcium	1200	4400	1	0.5	50	05/23/14	32817	S16379B3	25	P	PEICPRAD3A
7440-47-3	Chromium	6.0	27	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-48-4	Cobalt	3.0	9.2	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-50-8	Copper	6.0	1200	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7439-89-6	Iron	240	14000	1	0.5	50	05/23/14	32817	S16379B3	25	P	PEICPRAD3A
7439-92-1	Lead	6.0	810	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7439-95-4	Magnesium	600	600	1	0.5	50	05/23/14	32817	S16379B3	25	P	PEICPRAD3A
7439-96-5	Manganese	12	120	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7439-97-6	Mercury	2.0	90	20	0.15	25	06/02/14	32817	H16379Sc	13	CV	HGCV2A
7440-02-0	Nickel	6.0	18	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-09-7	Potassium	600	ND	1	0.5	50	05/23/14	32817	S16379B3	25	P	PEICPRAD3A
7440-23-5	Sodium	300	ND	1	0.5	50	05/23/14	32817	S16379B3	25	P	PEICPRAD3A
7440-28-0	Thallium	1.8	ND	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-62-2	Vanadium	12	15	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-66-6	Zinc	12	200	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-008	% Solid:	95	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2(15-17')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.84	ND	1	0.5	100	05/23/14	32818	S052314B	32	MS	MS2_7500SWA
7440-41-7	Beryllium	0.21	ND	1	0.5	100	05/23/14	32818	S052314B	32	MS	MS2_7500SWA
7440-43-9	Cadmium	0.42	ND	1	0.5	100	05/23/14	32818	S052314B	32	MS	MS2_7500SWA
7782-49-2	Selenium	2.1	ND	1	0.5	100	05/23/14	32818	S052314B	32	MS	MS2_7500SWA
7440-22-4	Silver	0.21	ND	1	0.5	100	05/23/14	32818	S052314B	32	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-008	% Solid:	95	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2(15-17')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	210	5000	1	0.5	50	05/23/14	32817	S16379B3	26	P	PEICPRAD3A
7440-38-2	Arsenic	4.2	6.7	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-39-3	Barium	11	45	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-70-2	Calcium	1100	2900	1	0.5	50	05/23/14	32817	S16379B3	26	P	PEICPRAD3A
7440-47-3	Chromium	5.3	16	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-48-4	Cobalt	2.6	6.6	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-50-8	Copper	5.3	17	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7439-89-6	Iron	210	11000	1	0.5	50	05/23/14	32817	S16379B3	26	P	PEICPRAD3A
7439-92-1	Lead	5.3	24	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7439-95-4	Magnesium	530	2700	1	0.5	50	05/23/14	32817	S16379B3	26	P	PEICPRAD3A
7439-96-5	Manganese	11	220	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7439-97-6	Mercury	0.088	0.90	1	0.15	25	06/02/14	32817	H16379Sc	14	CV	HGCV2A
7440-02-0	Nickel	5.3	39	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-09-7	Potassium	530	930	1	0.5	50	05/23/14	32817	S16379B3	26	P	PEICPRAD3A
7440-23-5	Sodium	260	ND	1	0.5	50	05/23/14	32817	S16379B3	26	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-62-2	Vanadium	11	19	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-66-6	Zinc	11	38	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-009	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	DUP052014 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	2800	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	2.5	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	100	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7439-92-1	Lead	3.0	710	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7782-49-2	Selenium	10	23	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-009	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	DUP052014 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	48000	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-39-3	Barium	50	880	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-70-2	Calcium	5000	63000	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-47-3	Chromium	50	190	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-50-8	Copper	50	170	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7439-89-6	Iron	300	100000	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7439-95-4	Magnesium	5000	69000	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7439-96-5	Manganese	40	4600	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7439-97-6	Mercury	0.70	14	1	25	25	05/28/14	32819	H16381SW	24	CV	HGCV1A
7440-02-0	Nickel	50	840	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-09-7	Potassium	5000	19000	1	50	50	05/27/14	32819	W16381B2	32	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-23-5	Sodium	5000	20000	1	50	50	05/28/14	32819	W16381D2	32	P	PEICPRAD2A
7440-62-2	Vanadium	50	160	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-66-6	Zinc	50	460	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-010	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	DUP052014 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	1400	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7782-49-2	Selenium	10	17	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-010	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	DUP052014 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-70-2	Calcium	5000	29000	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7439-95-4	Magnesium	5000	9100	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	25	CV	HGCV1A
7440-02-0	Nickel	50	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-09-7	Potassium	5000	6700	1	50	50	05/27/14	32819	W16381B2	33	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-23-5	Sodium	5000	19000	1	50	50	05/28/14	32819	W16381D2	33	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-011	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/29/14	32819	SW52814A	45	MS	MS2_7500SWA
7440-38-2	Arsenic	10	13000	5	50	100	05/29/14	32819	SW52814A	49	MS	MS2_7500SWA
7440-41-7	Beryllium	5.0	23	5	50	100	05/29/14	32819	SW52814A	49	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	17	1	50	100	05/29/14	32819	SW52814A	45	MS	MS2_7500SWA
7440-48-4	Cobalt	10	1100	5	50	100	05/29/14	32819	SW52814A	49	MS	MS2_7500SWA
7439-92-1	Lead	15	11000	5	50	100	05/29/14	32819	SW52814A	49	MS	MS2_7500SWA
7782-49-2	Selenium	10	87	1	50	100	05/29/14	32819	SW52814A	45	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	8.1	1	50	100	05/29/14	32819	SW52814A	45	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-011	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	400	470000	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-39-3	Barium	100	11000	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-70-2	Calcium	10000	450000	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-47-3	Chromium	100	1400	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-50-8	Copper	100	1800	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7439-89-6	Iron	1200	1100000	4	50	50	05/28/14	32819	W16381C2	23	P	PEICP2A
7439-95-4	Magnesium	10000	720000	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7439-96-5	Manganese	80	40000	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7439-97-6	Mercury	7.0	250	10	25	25	05/28/14	32819	H16381SW	35	CV	HGCV1A
7440-02-0	Nickel	100	8500	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-09-7	Potassium	10000	130000	2	50	50	05/28/14	32819	W16381D2	34	P	PEICPRAD2A
7440-22-4	Silver	40	ND	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-23-5	Sodium	10000	25000	2	50	50	05/28/14	32819	W16381D2	34	P	PEICPRAD2A
7440-62-2	Vanadium	100	1500	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-66-6	Zinc	100	4900	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-012	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	600	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7782-49-2	Selenium	10	23	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-012	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-70-2	Calcium	5000	31000	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7439-95-4	Magnesium	5000	9500	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	27	CV	HGCV1A
7440-02-0	Nickel	50	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-09-7	Potassium	5000	7600	1	50	50	05/27/14	32819	W16381B2	35	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-23-5	Sodium	5000	18000	1	50	50	05/28/14	32819	W16381D2	35	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-014	% Solid:	91	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.88	0.97	1	0.5	100	05/23/14	32818	S052314B	33	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	0.24	1	0.5	100	05/23/14	32818	S052314B	33	MS	MS2_7500SWA
7440-43-9	Cadmium	0.44	ND	1	0.5	100	05/23/14	32818	S052314B	33	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	33	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	33	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-014	% Solid:	91	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	5400	1	0.5	50	05/23/14	32817	S16379B3	27	P	PEICPRAD3A
7440-38-2	Arsenic	4.4	20	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-39-3	Barium	11	88	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-70-2	Calcium	1100	13000	1	0.5	50	05/23/14	32817	S16379B3	27	P	PEICPRAD3A
7440-47-3	Chromium	5.5	12	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-48-4	Cobalt	2.7	5.2	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-50-8	Copper	5.5	34	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7439-89-6	Iron	220	11000	1	0.5	50	05/23/14	32817	S16379B3	27	P	PEICPRAD3A
7439-92-1	Lead	5.5	160	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7439-95-4	Magnesium	550	3400	1	0.5	50	05/23/14	32817	S16379B3	27	P	PEICPRAD3A
7439-96-5	Manganese	11	180	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7439-97-6	Mercury	0.18	7.1	2	0.15	25	06/02/14	32817	H16379Sc	15	CV	HGCV2A
7440-02-0	Nickel	5.5	23	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-09-7	Potassium	550	1100	1	0.5	50	05/23/14	32817	S16379B3	27	P	PEICPRAD3A
7440-23-5	Sodium	270	ND	1	0.5	50	05/23/14	32817	S16379B3	27	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-62-2	Vanadium	11	18	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-66-6	Zinc	11	71	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-015	% Solid:	89	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3(15-17')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.90	ND	1	0.5	100	05/23/14	32818	S052314B	19	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	19	MS	MS2_7500SWA
7440-43-9	Cadmium	0.45	ND	1	0.5	100	05/23/14	32818	S052314B	19	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	19	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	19	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-015	% Solid:	89	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3(15-17')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	6100	1	1	100	05/23/14	32817	S16379B3	14	P	PEICPRAD3A
7440-38-2	Arsenic	4.5	14	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-39-3	Barium	11	80	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-70-2	Calcium	1100	25000	1	1	100	05/23/14	32817	S16379B3	14	P	PEICPRAD3A
7440-47-3	Chromium	5.6	21	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-48-4	Cobalt	2.8	4.5	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-50-8	Copper	5.6	21	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7439-89-6	Iron	220	9900	1	1	100	05/23/14	32817	S16379B3	14	P	PEICPRAD3A
7439-92-1	Lead	5.6	250	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7439-95-4	Magnesium	560	4400	1	1	100	05/23/14	32817	S16379B3	14	P	PEICPRAD3A
7439-96-5	Manganese	11	270	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7439-97-6	Mercury	0.19	5.1	2	0.15	25	06/02/14	32817	H16379Sb	16	CV	HGCV2A
7440-02-0	Nickel	5.6	23	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-09-7	Potassium	560	830	1	1	100	05/23/14	32817	S16379B3	14	P	PEICPRAD3A
7440-23-5	Sodium	280	380	1	1	100	05/23/14	32817	S16379B3	14	P	PEICPRAD3A
7440-28-0	Thallium	1.7	ND	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-62-2	Vanadium	11	16	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-66-6	Zinc	11	64	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-016	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	4.0	5.0	1	25	100	05/29/14	32819	SW52814A	46	MS	MS2_7500SWA
7440-38-2	Arsenic	40	36000	10	25	100	05/29/14	32819	SW52814A	56	MS	MS2_7500SWA
7440-41-7	Beryllium	20	84	10	25	100	05/29/14	32819	SW52814A	56	MS	MS2_7500SWA
7440-43-9	Cadmium	4.0	55	1	25	100	05/29/14	32819	SW52814A	46	MS	MS2_7500SWA
7440-48-4	Cobalt	40	2800	10	25	100	05/29/14	32819	SW52814A	56	MS	MS2_7500SWA
7439-92-1	Lead	60	48000	10	25	100	05/29/14	32819	SW52814A	56	MS	MS2_7500SWA
7782-49-2	Selenium	20	220	1	25	100	05/29/14	32819	SW52814A	46	MS	MS2_7500SWA
7440-28-0	Thallium	4.0	21	1	25	100	05/29/14	32819	SW52814A	46	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-016	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	800	1400000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-39-3	Barium	200	20000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-70-2	Calcium	20000	1300000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-47-3	Chromium	200	4500	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-50-8	Copper	200	6900	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7439-89-6	Iron	2400	3000000	4	25	50	05/28/14	32819	W16381C2	25	P	PEICP2A
7439-95-4	Magnesium	20000	2300000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7439-96-5	Manganese	160	99000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7439-97-6	Mercury	7.0	220	10	25	25	05/28/14	32819	H16381SW	36	CV	HGCV1A
7440-02-0	Nickel	200	32000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-09-7	Potassium	40000	420000	4	25	50	05/28/14	32819	W16381D2	37	P	PEICPRAD2A
7440-22-4	Silver	80	ND	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-23-5	Sodium	40000	81000	4	25	50	05/28/14	32819	W16381D2	37	P	PEICPRAD2A
7440-62-2	Vanadium	200	3400	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-66-6	Zinc	200	17000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-017	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	460	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-017	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-70-2	Calcium	5000	80000	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7439-95-4	Magnesium	5000	14000	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	29	CV	HGCV1A
7440-02-0	Nickel	50	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-09-7	Potassium	5000	14000	1	50	50	05/27/14	32819	W16381B2	37	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-23-5	Sodium	5000	49000	1	50	50	05/28/14	32819	W16381D2	38	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-018	% Solid:	87	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3(27-29')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.92	ND	1	0.5	100	05/23/14	32818	S052314B	34	MS	MS2_7500SWA
7440-41-7	Beryllium	0.23	ND	1	0.5	100	05/23/14	32818	S052314B	34	MS	MS2_7500SWA
7440-43-9	Cadmium	0.46	ND	1	0.5	100	05/23/14	32818	S052314B	34	MS	MS2_7500SWA
7782-49-2	Selenium	2.3	ND	1	0.5	100	05/23/14	32818	S052314B	34	MS	MS2_7500SWA
7440-22-4	Silver	0.23	ND	1	0.5	100	05/23/14	32818	S052314B	34	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-018	% Solid:	87	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3(27-29')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	230	3700	1	0.5	50	05/23/14	32817	S16379B3	33	P	PEICPRAD3A
7440-38-2	Arsenic	4.6	66	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-39-3	Barium	11	33	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-70-2	Calcium	1100	5800	1	0.5	50	05/23/14	32817	S16379B3	33	P	PEICPRAD3A
7440-47-3	Chromium	5.7	21	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-48-4	Cobalt	2.9	9.9	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-50-8	Copper	5.7	16	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7439-89-6	Iron	230	13000	1	0.5	50	05/23/14	32817	S16379B3	33	P	PEICPRAD3A
7439-92-1	Lead	5.7	27	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7439-95-4	Magnesium	570	12000	1	0.5	50	05/23/14	32817	S16379B3	33	P	PEICPRAD3A
7439-96-5	Manganese	11	180	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7439-97-6	Mercury	0.096	ND	1	0.15	25	06/02/14	32817	H16379Sc	16	CV	HGCV2A
7440-02-0	Nickel	5.7	150	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-09-7	Potassium	570	1200	1	0.5	50	05/23/14	32817	S16379B3	33	P	PEICPRAD3A
7440-23-5	Sodium	290	ND	1	0.5	50	05/23/14	32817	S16379B3	33	P	PEICPRAD3A
7440-28-0	Thallium	1.7	ND	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-62-2	Vanadium	11	18	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-66-6	Zinc	11	55	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-019	% Solid:	92	Lab Name:	Veritech	Nras No:	
Client Id:	SUMP1(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.87	ND	1	0.5	100	05/23/14	32818	S052314B	35	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	0.29	1	0.5	100	05/23/14	32818	S052314B	35	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	05/23/14	32818	S052314B	35	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	35	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	35	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-019	% Solid:	92	Lab Name:	Veritech	Nras No:	
Client Id:	SUMP1(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	6700	1	0.5	50	05/23/14	32817	S16379B3	34	P	PEICPRAD3A
7440-38-2	Arsenic	4.3	97	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-39-3	Barium	11	62	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-70-2	Calcium	1100	7300	1	0.5	50	05/23/14	32817	S16379B3	34	P	PEICPRAD3A
7440-47-3	Chromium	5.4	16	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-48-4	Cobalt	2.7	5.5	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-50-8	Copper	5.4	65	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7439-89-6	Iron	220	11000	1	0.5	50	05/23/14	32817	S16379B3	34	P	PEICPRAD3A
7439-92-1	Lead	5.4	38	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7439-95-4	Magnesium	540	3200	1	0.5	50	05/23/14	32817	S16379B3	34	P	PEICPRAD3A
7439-96-5	Manganese	11	180	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7439-97-6	Mercury	0.091	0.16	1	0.15	25	06/02/14	32817	H16379Sc	17	CV	HGCV2A
7440-02-0	Nickel	5.4	44	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-09-7	Potassium	540	1200	1	0.5	50	05/23/14	32817	S16379B3	34	P	PEICPRAD3A
7440-23-5	Sodium	270	ND	1	0.5	50	05/23/14	32817	S16379B3	34	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-62-2	Vanadium	11	19	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-66-6	Zinc	11	53	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-020	% Solid:	94	Lab Name:	Veritech	Nras No:	
Client Id:	SUMP1(3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.85	ND	1	0.5	100	05/23/14	32818	S052314B	36	MS	MS2_7500SWA
7440-41-7	Beryllium	0.21	0.25	1	0.5	100	05/23/14	32818	S052314B	36	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	05/23/14	32818	S052314B	36	MS	MS2_7500SWA
7782-49-2	Selenium	2.1	ND	1	0.5	100	05/23/14	32818	S052314B	36	MS	MS2_7500SWA
7440-22-4	Silver	0.21	ND	1	0.5	100	05/23/14	32818	S052314B	36	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-020	% Solid:	94	Lab Name:	Veritech	Nras No:	
Client Id:	SUMP1(3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	210	6600	1	0.5	50	05/23/14	32817	S16379B3	35	P	PEICPRAD3A
7440-38-2	Arsenic	4.3	10	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-39-3	Barium	11	55	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-70-2	Calcium	1100	6000	1	0.5	50	05/23/14	32817	S16379B3	35	P	PEICPRAD3A
7440-47-3	Chromium	5.3	22	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-48-4	Cobalt	2.7	11	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-50-8	Copper	5.3	32	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7439-89-6	Iron	210	12000	1	0.5	50	05/23/14	32817	S16379B3	35	P	PEICPRAD3A
7439-92-1	Lead	5.3	10	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7439-95-4	Magnesium	530	3700	1	0.5	50	05/23/14	32817	S16379B3	35	P	PEICPRAD3A
7439-96-5	Manganese	11	350	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7439-97-6	Mercury	0.089	ND	1	0.15	25	06/02/14	32817	H16379Sc	18	CV	HGCV2A
7440-02-0	Nickel	5.3	48	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-09-7	Potassium	530	1100	1	0.5	50	05/23/14	32817	S16379B3	35	P	PEICPRAD3A
7440-23-5	Sodium	270	ND	1	0.5	50	05/23/14	32817	S16379B3	35	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-62-2	Vanadium	11	20	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-66-6	Zinc	11	34	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-021	% Solid:	89	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 1(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.90	ND	1	0.5	100	05/23/14	32818	S052314B	37	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	0.28	1	0.5	100	05/23/14	32818	S052314B	37	MS	MS2_7500SWA
7440-43-9	Cadmium	0.45	1.5	1	0.5	100	05/23/14	32818	S052314B	37	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	37	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	37	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-021	% Solid:	89	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 1(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	7300	1	0.5	50	05/23/14	32817	S16379B3	36	P	PEICPRAD3A
7440-38-2	Arsenic	4.5	37	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-39-3	Barium	11	130	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-70-2	Calcium	1100	20000	1	0.5	50	05/23/14	32817	S16379B3	36	P	PEICPRAD3A
7440-47-3	Chromium	5.6	560	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-48-4	Cobalt	2.8	6.8	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-50-8	Copper	5.6	48	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7439-89-6	Iron	220	15000	1	0.5	50	05/23/14	32817	S16379B3	36	P	PEICPRAD3A
7439-92-1	Lead	5.6	370	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7439-95-4	Magnesium	560	4800	1	0.5	50	05/23/14	32817	S16379B3	36	P	PEICPRAD3A
7439-96-5	Manganese	11	360	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7439-97-6	Mercury	0.094	3.7	1	0.15	25	06/02/14	32817	H16379Sc	23	CV	HGCV2A
7440-02-0	Nickel	5.6	43	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-09-7	Potassium	560	1900	1	0.5	50	05/23/14	32817	S16379B3	36	P	PEICPRAD3A
7440-23-5	Sodium	280	ND	1	0.5	50	05/23/14	32817	S16379B3	36	P	PEICPRAD3A
7440-28-0	Thallium	1.7	ND	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-62-2	Vanadium	11	24	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-66-6	Zinc	11	330	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-022	% Solid:	93	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 1(3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.86	ND	1	0.5	100	05/23/14	32818	S052314B	42	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	42	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	05/23/14	32818	S052314B	42	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	42	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	42	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-022	% Solid:	93	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 1(3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	5900	1	0.5	50	05/23/14	32817	S16379B3	37	P	PEICPRAD3A
7440-38-2	Arsenic	4.3	5.4	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-39-3	Barium	11	41	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-70-2	Calcium	1100	11000	1	0.5	50	05/23/14	32817	S16379B3	37	P	PEICPRAD3A
7440-47-3	Chromium	5.4	53	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-48-4	Cobalt	2.7	5.8	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-50-8	Copper	5.4	21	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7439-89-6	Iron	220	12000	1	0.5	50	05/23/14	32817	S16379B3	37	P	PEICPRAD3A
7439-92-1	Lead	5.4	77	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7439-95-4	Magnesium	540	9800	1	0.5	50	05/23/14	32817	S16379B3	37	P	PEICPRAD3A
7439-96-5	Manganese	11	190	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7439-97-6	Mercury	0.090	1.1	1	0.15	25	06/02/14	32817	H16379Sc	20	CV	HGCV2A
7440-02-0	Nickel	5.4	40	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-09-7	Potassium	540	2000	1	0.5	50	05/23/14	32817	S16379B3	37	P	PEICPRAD3A
7440-23-5	Sodium	270	ND	1	0.5	50	05/23/14	32817	S16379B3	37	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-62-2	Vanadium	11	18	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-66-6	Zinc	11	87	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-023	% Solid:	93	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 2 (0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.86	ND	1	0.5	100	05/23/14	32818	S052314B	43	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	0.22	1	0.5	100	05/23/14	32818	S052314B	43	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	05/23/14	32818	S052314B	43	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	43	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	43	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-023	% Solid:	93	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 2 (0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	4800	1	0.5	50	05/23/14	32817	S16379B3	38	P	PEICPRAD3A
7440-38-2	Arsenic	4.3	19	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-39-3	Barium	11	43	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-70-2	Calcium	1100	15000	1	0.5	50	05/23/14	32817	S16379B3	38	P	PEICPRAD3A
7440-47-3	Chromium	5.4	11	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-48-4	Cobalt	2.7	4.1	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-50-8	Copper	5.4	17	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7439-89-6	Iron	220	8300	1	0.5	50	05/23/14	32817	S16379B3	38	P	PEICPRAD3A
7439-92-1	Lead	5.4	37	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7439-95-4	Magnesium	540	3900	1	0.5	50	05/23/14	32817	S16379B3	38	P	PEICPRAD3A
7439-96-5	Manganese	11	240	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7439-97-6	Mercury	0.090	0.091	1	0.15	25	06/02/14	32817	H16379Sc	24	CV	HGCV2A
7440-02-0	Nickel	5.4	24	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-09-7	Potassium	540	1300	1	0.5	50	05/23/14	32817	S16379B3	38	P	PEICPRAD3A
7440-23-5	Sodium	270	ND	1	0.5	50	05/23/14	32817	S16379B3	38	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-62-2	Vanadium	11	15	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-66-6	Zinc	11	27	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-024	% Solid:	95	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 2 (3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.84	ND	1	0.5	100	05/23/14	32818	S052314B	44	MS	MS2_7500SWA
7440-41-7	Beryllium	0.21	ND	1	0.5	100	05/23/14	32818	S052314B	44	MS	MS2_7500SWA
7440-43-9	Cadmium	0.42	ND	1	0.5	100	05/23/14	32818	S052314B	44	MS	MS2_7500SWA
7782-49-2	Selenium	2.1	ND	1	0.5	100	05/23/14	32818	S052314B	44	MS	MS2_7500SWA
7440-22-4	Silver	0.21	ND	1	0.5	100	05/23/14	32818	S052314B	44	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-024	% Solid:	95	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 2 (3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	210	5900	1	0.5	50	05/23/14	32817	S16379B3	39	P	PEICPRAD3A
7440-38-2	Arsenic	4.2	5.2	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-39-3	Barium	11	52	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-70-2	Calcium	1100	13000	1	0.5	50	05/23/14	32817	S16379B3	39	P	PEICPRAD3A
7440-47-3	Chromium	5.3	14	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-48-4	Cobalt	2.6	4.8	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-50-8	Copper	5.3	18	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7439-89-6	Iron	210	11000	1	0.5	50	05/23/14	32817	S16379B3	39	P	PEICPRAD3A
7439-92-1	Lead	5.3	8.6	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7439-95-4	Magnesium	530	4000	1	0.5	50	05/23/14	32817	S16379B3	39	P	PEICPRAD3A
7439-96-5	Manganese	11	230	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7439-97-6	Mercury	0.088	ND	1	0.15	25	06/02/14	32817	H16379Sc	25	CV	HGCV2A
7440-02-0	Nickel	5.3	30	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-09-7	Potassium	530	1900	1	0.5	50	05/23/14	32817	S16379B3	39	P	PEICPRAD3A
7440-23-5	Sodium	260	ND	1	0.5	50	05/23/14	32817	S16379B3	39	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-62-2	Vanadium	11	19	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-66-6	Zinc	11	34	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-025	% Solid:	92	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 3 (0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.87	ND	1	0.5	100	05/23/14	32818	S052314B	45	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	0.30	1	0.5	100	05/23/14	32818	S052314B	45	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	05/23/14	32818	S052314B	45	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	45	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	45	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-025	% Solid:	92	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 3 (0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	6600	1	0.5	50	05/23/14	32817	S16379B3	45	P	PEICPRAD3A
7440-38-2	Arsenic	4.3	37	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-39-3	Barium	11	67	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-70-2	Calcium	1100	20000	1	0.5	50	05/23/14	32817	S16379B3	45	P	PEICPRAD3A
7440-47-3	Chromium	5.4	14	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-48-4	Cobalt	2.7	5.4	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-50-8	Copper	5.4	30	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7439-89-6	Iron	220	12000	1	0.5	50	05/23/14	32817	S16379B3	45	P	PEICPRAD3A
7439-92-1	Lead	5.4	79	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7439-95-4	Magnesium	540	4700	1	0.5	50	05/23/14	32817	S16379B3	45	P	PEICPRAD3A
7439-96-5	Manganese	11	340	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7439-97-6	Mercury	0.091	0.16	1	0.15	25	06/02/14	32817	H16379Sc	26	CV	HGCV2A
7440-02-0	Nickel	5.4	32	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-09-7	Potassium	540	1700	1	0.5	50	05/23/14	32817	S16379B3	45	P	PEICPRAD3A
7440-23-5	Sodium	270	280	1	0.5	50	05/23/14	32817	S16379B3	45	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-62-2	Vanadium	11	21	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-66-6	Zinc	11	42	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-026	% Solid:	93	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 3 (3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.86	ND	1	0.5	100	05/23/14	32818	S052314B	46	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	46	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	05/23/14	32818	S052314B	46	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	46	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	46	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-026	% Solid:	93	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 3 (3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	5900	1	0.5	50	05/23/14	32817	S16379B3	46	P	PEICPRAD3A
7440-38-2	Arsenic	4.3	11	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-39-3	Barium	11	43	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-70-2	Calcium	1100	6500	1	0.5	50	05/23/14	32817	S16379B3	46	P	PEICPRAD3A
7440-47-3	Chromium	5.4	18	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-48-4	Cobalt	2.7	4.8	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-50-8	Copper	5.4	19	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7439-89-6	Iron	220	12000	1	0.5	50	05/23/14	32817	S16379B3	46	P	PEICPRAD3A
7439-92-1	Lead	5.4	23	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7439-95-4	Magnesium	540	3800	1	0.5	50	05/23/14	32817	S16379B3	46	P	PEICPRAD3A
7439-96-5	Manganese	11	180	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7439-97-6	Mercury	0.090	ND	1	0.15	25	06/02/14	32817	H16379Sc	27	CV	HGCV2A
7440-02-0	Nickel	5.4	44	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-09-7	Potassium	540	1600	1	0.5	50	05/23/14	32817	S16379B3	46	P	PEICPRAD3A
7440-23-5	Sodium	270	ND	1	0.5	50	05/23/14	32817	S16379B3	46	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-62-2	Vanadium	11	21	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-66-6	Zinc	11	37	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Chain of Custody Forms

4052101 0226

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

HC·V HamptonClarke Veritech Laboratories

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124

CHAIN OF CUSTODY RECORD

4052101 Page ____ of ____

Customer Information

1a) Customer: URS CORP
Address: 1 PENN PLAZA
NEW YORK, NY 10119
1b) Email/Cell/Fax/Ph: 212-896-0300
1c) Send Invoice to: MARYANN.CICHOLI@URS.COM
1d) Send Report to: ROBERT.WOLFE@URS.COM

Project Information

2a) Project: 156 TILLARY STREET
2b) Project Mgr: ROBERT WOLFE
2c) Project Location (City/State): 156 TILLARY ST. BROOKLYN, NY
2d) Quote/PO # (If Applicable): 11140247.00001

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
24 Hours (100%)	Data Summary	Hazsite/CSV
48 Hours (75%)	Waste	EQuIS 4-File / EZ / NYS
72 Hours (50%)	Red - NJ / NY / PA	EQuIS EPA Region 2 or 5
4 Days (35%; TPH)	CLP	Excel - NJ Regulatory
1 Week (25%; EPH)	Full / Category B	Excel - NY Regulatory
10 Days (10%)	Category A	Excel - PA Regulatory
2 Weeks	Other: ____	PDF
Other: STD		Other: ____

Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓

Batch # AC78787

Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis Request <=== Check If Contingent

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	VOC	SVOC, TAL METALS, PEST, PCB	VOC	BNA	PEST/PCB-AQ	METALS	METALS-DISSOLVED (LAB FILTERED)				8) # of Bottles None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
-001	EXT1(0-2')	S	5/20/14	9:30		G	X	X									2								
-002	EXT1(15-17')	S		10:20		G	X	X									2								
003/004	EXT1	GW		10:45		G			X	X	X	X	X				5				3		1		
005/006	FB052014	GW		11:05		G			X	X	X	X	X				5				3		1		
-007	EXT2(0-2')	S		11:40		G	X	X									2								
-008	EXT2(15-17')	S		12:20		G	X	X									2								
009/010	DUP052014	GW		08:00		G			X	X	X	X	X				5				3		1		
011/012	EXT2	GW		12:40		G			X	X	X	X	X				5				3		1		

10) Relinquished by:	Accepted by:	Date	Time
[signature]	[signature]	5/20/14	1530
[signature]	MAXWELL	5/20/14	1730

Additional Notes LAB TO FILTER METALS + Hg SAMPLE

Comments, Notes, Special Requirements, HAZARDS

Note: Check if low-level groundwater methods required to meet current standards in NJ or PA:
- ☐ BN or BNA (8270C SIM)
- ☐ VOC (8260B SIM or 8011)
- ☐ Metals (ICP-MS 200.8 or 6020)
- ☐ Metals-Soil (ICP-MS 6020 for Be & Ag)

Note: Check if applicable:
- ☐ Project-Specific Reporting Limits
- ☐ High Contaminant Concentrations
- ☐ NJ LSRP Project

Cooler Temperature: 2.8, 2.6, 2.4, 2.0

11) Sampler (print name): Date:

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

HamptonClarke-Veritech Laboratories
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

HC·V HamptonClarke Veritech Laboratories

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 4052101

Page _____ of _____

4052101 0227

Customer Information

a) Customer: URS CORP
Address: 1 PENN PLAZA
NEW YORK, N.Y. 10119
1b) Email/Cell/Fax/Ph: 212-896-0300
1c) Send Invoice to: MARYANN.CICHOCKI@URS.COM
1d) Send Report to: ROBERT.WOLFF@URS.COM

Project Information

2a) Project: 156 TILLARY STREET
2b) Project Mgr: ROBERT WOLFF
2c) Project Location (City/State): 156 TILLARY ST. BROOKLYN, N.Y.
2d) Quote/PO # (If Applicable): 11140247.00001

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
24 Hours (100%)	Data Summary	Hazsite/CSV
48 Hours (75%)	Waste	EQuIS 4-File / EZ / NYS
72 Hours (50%)	Red - NJ / NY / PA	EQuIS EPA Region 2 or 5
4 Days (35%; TPH)	CLP	Excel - NJ Regulatory
1 Week (25%; EPH)	Full / Category B	Excel - NY Regulatory
10 Days (10%)	Category A	Excel - PA Regulatory
2 Weeks	Other: _____	PDF
Other: STD		Other: _____

Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓

Batch # AC78787

Check If Contingent ===>

Matrix Codes
DW - Drinking Water; S - Soil; A - Air; GW - Ground Water; SL - Sludge; WW - Waste Water; OL - Oil; OT - Other (please specify under item 9, Comments)

7) Analysis Request <=== Check If Contingent

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	VOC	SVOC, Metals, PCB, Pest	VO	BNA	Pest/PCB-AQ	Metals	Metals, Dissolved (Lab Filtered)					8) # of Bottles None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
-013	TB	GW	5/20/14	12:00		G			X													3				
-014	EXT 3 (0-2')	S	↓	14:20		G	X	X										2								
-015	EXT 3 (15-17')	S	↓	14:35		G	X	X										2								
-016/017	EXT 3	GW	↓	15:05		G			X	X	X	X	X					5				3		1		
018 -017	EXT 3 (27.29')	S	↓	15:20			X	X										2								

10) Relinquished by:	Accepted by:	Date	Time
[signature]	[signature]	5/20/14	1530
[signature]	MAXUM	5/20/14	1730

Comments, Notes, Special Requirements, HAZARDS

Note: Check if low-level groundwater methods required to meet current standards in NJ or PA:
- ☐ BN or BNA (8270C SIM)
- ☐ VOC (8260B SIM or 8011)
- ☐ Metals (ICP-MS 200.8 or 6020)
- ☐ Metals-Soil (ICP-MS 6020 for Be & Ag)

Note: Check if applicable:
- ☐ Project-Specific Reporting Limits
- ☐ High Contaminant Concentrations
- ☐ NJ LSRP Project

Cooler Temperature: 28, 26, 24 C

Additional Notes: LAB TO FILTER METALS + Hg SAMPLE

11) Sampler (print name): Date:

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

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Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
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HC·V HamptonClarke Veritech Laboratories

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NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124

CHAIN OF CUSTODY RECORD

4052101 | Page ____ of ____

4052101 0228

Customer Information

1a) Customer: URS CORP.
Address: 1 PENN PLAZA NEW YORK, N.Y. 10119
1b) Email/Cell/Fax/Ph: 212-896-0300
1c) Send Invoice to: MARYANN.CICHELLI@URS.COM
1d) Send Report to: ROBERT.WOLFF@URS.COM

Project Information

2a) Project: 156 TILLARY STREET
2b) Project Mgr: ROBERT WOLFF
2c) Project Location (City/State): 156 TILLARY ST. BROOKLYN, NY
2d) Quote/PO # (If Applicable): 11140247.00001

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
24 Hours (100%)	Data Summary	Hazsite/CSV
48 Hours (75%)	Waste	EQuIS 4-File / EZ / NYS
72 Hours (50%)	Red - NJ / NY / PA	EQuIS EPA Region 2 or 5
4 Days (35%; TPH)	CLP	Excel - NJ Regulatory
1 Week (25%; EPH)	Full / Category B	Excel - NY Regulatory
10 Days (10%)	Category A	Excel - PA Regulatory
2 Weeks	Other: ____	PDF
Other: STD		Other: ____

Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓

Batch # AC78187

Check If Contingent ===>

Matrix Codes
DW - Drinking Water, S - Soil, A - Air, GW - Ground Water, SL - Sludge, WW - Waste Water, OL - Oil, OT - Other (please specify under item 9, Comments)

7) Analysis Request <=== Check If Contingent

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	VOC	SVOC (TAL METALS, PCB)	8) # of Bottles None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
-019	SUMP1 (0-2')	S	5/19/14	10:20		G	X	X	2								
-020	SUMP1 (3-5')	S		11:05		G	X	X	2								
-021	BASE 1 (0-2')	S		13:05		G	X	X	2								
-022	BASE 1 (3-5')	S		13:15		G	X	X	2								
-023	BASE 2 (0-2')	S		11:55		G	X	X	2								
-024	BASE 2 (3-5')	S		12:05		G	X	X	2								
-025	BASE 3 (0-2')	S		11:25		G	X	X	2								
-026	BASE 3 (3-5')	S		11:30		G	X	X	2								

10) Relinquished by:	Accepted by:	Date	Time
[signature]	[signature]	5/20/14	1530
[signature]	MAYWILLIAMS	5/20/14	1730

Comments, Notes, Special Requirements, HAZARDS

Note: Check if low-level groundwater methods required to meet current standards in NJ or PA:
- ☐ BN or BNA (8270C SIM)
- ☐ VOC (8260B SIM or 8011)
- ☐ Metals (ICP-MS 200.8 or 6020)
- ☐ Metals-Soil (ICP-MS 6020 for Be & Ag)

Note: Check if applicable:
- ☐ Project-Specific Reporting Limits
- ☐ High Contaminant Concentrations
- ☐ NJ LSRP Project

Cooler Temperature: 28, 26, 24 C

Additional Notes: LAB TO FILTER METALS + Hg SAMPLE

11) Sampler (print name): Date:

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

PROJECT MODIFICATIONS

Client: URS-NYC

Project: 156 Tillary St.

HCV Project #: 4052101

---

dpiano192.168.1.52
5/21/2014 4:38:05 PM

As per Robert Wolff, invoice should be sent to his attention. Also, Deliverables should be NYSDEC Cat B. DP, 5/21/14

CONDITION UPON RECEIPT

Batch Number AC78787

Entered By: maxwell
Date Entered 5/21/2014 9:47:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	Yes	Please specify the Temperature inside the container (in degC) 2.8,2.6,2.4
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	NO	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify
14	NA	Corrective actions (Specify item number and corrective action taken).

PRESERVATION DOCUMENT

Batch Number AC78787

Entered By: maxwell
Date Entered 5/21/2014 9:48:00 AM

Lab#:	Container Siz	Container Typ	Paramete	Preservative	PH
AC78787-001	NA	NA	NA	NA	NA
AC78787-002	NA	NA	NA	NA	NA
AC78787-003	40ML	G	VO	HCL	1
AC78787-003	1L	G	PEST	NONE	7
AC78787-003	1L	P	METALS	HNO3	1
AC78787-004	NA	NA	NA	NA	NA
AC78787-005	40ML	G	VO	HCL	1
AC78787-005	1L	G	PEST	NONE	7
AC78787-005	1L	P	METALS	HNO3	1
AC78787-006	NA	NA	NA	NA	NA
AC78787-007	40ML	G	VO	HCL	1
AC78787-007	1L	G	PEST	NONE	7
AC78787-007	1L	P	METALS	HNO3	1
AC78787-008	NA	NA	NA	NA	NA
AC78787-009	40ML	G	VO	HCL	1
AC78787-009	1L	G	PEST	NONE	7
AC78787-009	1L	P	METALS	HNO3	1
AC78787-010	NA	NA	NA	NA	NA
AC78787-011	NA	NA	NA	NA	NA
AC78787-012	NA	NA	NA	NA	NA
AC78787-013	40ML	G	VO	HCL	1
AC78787-014	NA	NA	NA	NA	NA
AC78787-015	NA	NA	NA	NA	NA
AC78787-016	40ML	G	VO	HCL	7
AC78787-016	1L	G	PEST	NONE	7
AC78787-016	1L	P	METALS	HNO3	1
AC78787-017	NA	NA	NA	NA	NA
AC78787-018	NA	NA	NA	NA	NA
AC78787-019	NA	NA	NA	NA	NA
AC78787-020	NA	NA	NA	NA	NA
AC78787-021	NA	NA	NA	NA	NA
AC78787-022	NA	NA	NA	NA	NA
AC78787-023	NA	NA	NA	NA	NA
AC78787-024	NA	NA	NA	NA	NA
AC78787-025	NA	NA	NA	NA	NA
AC78787-026	NA	NA	NA	NA	NA

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AC78787-001	05/20/14 17:30	MAXW	0	M	Received
AC78787-001	05/21/14 09:26	MAXW	0	M	Login
AC78787-001	05/21/14 10:20	R30	1	A	NONE
AC78787-001	05/23/14 14:55	JE	1	A	VOA
AC78787-001	05/23/14 18:38	R30	1	M	NONE
AC78787-001	05/21/14 20:51	R12	2	A	NONE
AC78787-001	05/21/14 20:51	PA	2	A	mixing
AC78787-001	05/22/14 07:28	HS	2	A	5solids
AC78787-001	05/22/14 09:03	AM	2	A	r12
AC78787-001	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-001	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-001	05/27/14 10:07	R12	2	A	NONE
AC78787-001	05/28/14 08:58	BINIT	2	A	s,p/p
AC78787-001	05/28/14 09:26	R12	2	A	NONE
AC78787-002	05/20/14 17:30	MAXW	0	M	Received
AC78787-002	05/21/14 09:26	MAXW	0	M	Login
AC78787-002	05/21/14 10:20	R30	1	A	NONE
AC78787-002	05/23/14 14:55	JE	1	A	VOA
AC78787-002	05/23/14 18:38	R30	1	M	NONE
AC78787-002	05/21/14 20:51	PA	2	A	mixing
AC78787-002	05/21/14 20:51	R12	2	A	NONE
AC78787-002	05/22/14 07:28	HS	2	A	5solids
AC78787-002	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-002	05/22/14 09:03	AM	2	A	r12
AC78787-002	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-002	05/27/14 10:07	R12	2	A	NONE
AC78787-002	05/28/14 08:58	BINIT	2	A	s,p/p
AC78787-002	05/28/14 09:26	R12	2	A	NONE
AC78787-003	05/20/14 17:30	MAXW	0	M	Received
AC78787-003	05/21/14 09:26	MAXW	0	M	Login
AC78787-003	05/22/14 10:46	LV	1	A	nb/bna
AC78787-003	05/22/14 09:06	MSL	2	A	p/p
AC78787-003	05/22/14 10:46	LV	4	A	nb/bna
AC78787-003	05/22/14 13:54	R12	4	A	NONE
AC78787-003	05/23/14 20:57	JU	5	A	tdwi-hg
AC78787-003	05/23/14 20:57	R12	5	A	NONE
AC78787-003	05/21/14 10:09	R31	6	A	NONE
AC78787-003	05/23/14 13:02	WP	6	A	VOA
AC78787-003	05/21/14 10:09	R31	7	A	NONE
AC78787-003	05/21/14 10:09	R31	8	A	NONE
AC78787-004	05/20/14 17:30	MAXW	0	M	Received
AC78787-004	05/21/14 09:26	MAXW	0	M	Login
AC78787-004	05/21/14 14:34	RAMO	1	A	R12
AC78787-004	05/21/14 14:34	RAMO	1	A	filtering
AC78787-004	05/23/14 20:57	R12	1	A	NONE
AC78787-004	05/23/14 20:57	JU	1	A	tdwi-hg
AC78787-005	05/20/14 17:30	MAXW	0	M	Received
AC78787-005	05/21/14 09:26	MAXW	0	M	Login
AC78787-005	05/22/14 10:46	LV	3	A	nb/bna
AC78787-005	05/22/14 09:06	MSL	4	A	p/p
AC78787-005	05/23/14 20:57	JU	5	A	tdwi-hg
AC78787-005	05/23/14 20:57	R12	5	A	NONE
AC78787-005	05/21/14 10:09	R31	6	A	NONE
AC78787-005	05/23/14 13:02	WP	6	A	VOA
AC78787-005	05/21/14 10:09	R31	7	A	NONE
AC78787-005	05/21/14 10:09	R31	8	A	NONE
AC78787-006	05/20/14 17:30	MAXW	0	M	Received
AC78787-006	05/21/14 09:26	MAXW	0	M	Login
AC78787-006	05/21/14 14:34	RAMO	1	A	filtering
AC78787-006	05/21/14 14:34	RAMO	1	A	R12
AC78787-006	05/23/14 20:57	JU	1	A	tdwi-hg
AC78787-006	05/23/14 20:57	R12	1	A	NONE
AC78787-007	05/20/14 17:30	MAXW	0	M	Received
AC78787-007	05/21/14 09:26	MAXW	0	M	Login
AC78787-007	05/21/14 10:20	R30	1	A	NONE
AC78787-007	05/23/14 14:55	JE	1	A	VOA
AC78787-007	05/23/14 18:38	R30	1	M	NONE
AC78787-007	05/21/14 20:51	PA	2	A	mixing
AC78787-007	05/21/14 20:51	R12	2	A	NONE
AC78787-007	05/22/14 07:28	HS	2	A	5solids
AC78787-007	05/22/14 09:03	AM	2	A	r12
AC78787-007	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-007	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-007	05/27/14 10:07	R12	2	A	NONE
AC78787-007	05/28/14 08:58	BINIT	2	A	s,p/p

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AC78787-007	05/28/14 09:26	R12	2	A	NONE
AC78787-008	05/20/14 17:30	MAXW	0	M	Received
AC78787-008	05/21/14 09:26	MAXW	0	M	Login
AC78787-008	05/21/14 10:20	R30	1	A	NONE
AC78787-008	05/23/14 14:55	JE	1	A	VOA
AC78787-008	05/23/14 18:38	R30	1	M	NONE
AC78787-008	05/21/14 20:51	R12	2	A	NONE
AC78787-008	05/21/14 20:51	PA	2	A	mixing
AC78787-008	05/22/14 07:28	HS	2	A	5solids
AC78787-008	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-008	05/22/14 09:03	AM	2	A	r12
AC78787-008	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-008	05/27/14 10:07	R12	2	A	NONE
AC78787-008	05/29/14 06:35	SW	2	A	p/p soil
AC78787-008	05/29/14 06:36	R12	2	A	NONE
AC78787-009	05/20/14 17:30	MAXW	0	M	Received
AC78787-009	05/21/14 09:26	MAXW	0	M	Login
AC78787-009	05/22/14 09:06	MSL	2	A	p/p
AC78787-009	05/22/14 10:46	LV	4	A	nb/bna
AC78787-009	05/23/14 20:57	JU	5	A	tdwi-hg
AC78787-009	05/23/14 20:57	R12	5	A	NONE
AC78787-009	05/21/14 10:09	R31	6	A	NONE
AC78787-009	05/23/14 13:02	WP	6	A	VOA
AC78787-009	05/21/14 10:09	R31	7	A	NONE
AC78787-009	05/21/14 10:09	R31	8	A	NONE
AC78787-010	05/20/14 17:30	MAXW	0	M	Received
AC78787-010	05/21/14 09:26	MAXW	0	M	Login
AC78787-010	05/21/14 14:34	RAMO	1	A	filtering
AC78787-010	05/21/14 14:34	RAMO	1	A	R12
AC78787-010	05/23/14 20:57	JU	1	A	tdwi-hg
AC78787-010	05/23/14 20:57	R12	1	A	NONE
AC78787-011	05/20/14 17:30	MAXW	0	M	Received
AC78787-011	05/21/14 09:26	MAXW	0	M	Login
AC78787-011	05/22/14 09:06	MSL	3	A	p/p
AC78787-011	05/22/14 10:46	LV	4	A	nb/bna
AC78787-011	05/23/14 20:57	JU	5	A	tdwi-hg
AC78787-011	05/23/14 20:57	R12	5	A	NONE
AC78787-011	05/21/14 10:09	R31	6	A	NONE
AC78787-011	05/23/14 13:02	WP	6	A	VOA
AC78787-011	05/21/14 10:09	R31	7	A	NONE
AC78787-011	05/21/14 10:09	R31	8	A	NONE
AC78787-012	05/20/14 17:30	MAXW	0	M	Received
AC78787-012	05/21/14 09:26	MAXW	0	M	Login
AC78787-012	05/21/14 14:34	RAMO	1	A	filtering
AC78787-012	05/21/14 14:34	RAMO	1	A	R12
AC78787-012	05/23/14 20:57	JU	1	A	tdwi-hg
AC78787-012	05/23/14 20:57	R12	1	A	NONE
AC78787-013	05/20/14 17:30	MAXW	0	M	Received
AC78787-013	05/21/14 09:26	MAXW	0	M	Login
AC78787-013	05/21/14 10:09	R31	1	A	NONE
AC78787-013	05/21/14 10:09	R31	2	A	NONE
AC78787-013	05/21/14 10:09	R31	3	A	NONE
AC78787-013	05/23/14 13:02	WP	3	A	VOA
AC78787-014	05/20/14 17:30	MAXW	0	M	Received
AC78787-014	05/21/14 09:26	MAXW	0	M	Login
AC78787-014	05/21/14 10:20	R30	1	A	NONE
AC78787-014	05/23/14 14:55	JE	1	A	VOA
AC78787-014	05/23/14 18:38	R30	1	M	NONE
AC78787-014	05/21/14 20:51	PA	2	A	mixing
AC78787-014	05/21/14 20:51	R12	2	A	NONE
AC78787-014	05/22/14 07:28	HS	2	A	5solids
AC78787-014	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-014	05/22/14 09:03	AM	2	A	r12
AC78787-014	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-014	05/27/14 10:07	R12	2	A	NONE
AC78787-014	05/29/14 06:35	SW	2	A	p/p soil
AC78787-014	05/29/14 06:36	R12	2	A	NONE
AC78787-015	05/20/14 17:30	MAXW	0	M	Received
AC78787-015	05/21/14 09:26	MAXW	0	M	Login
AC78787-015	05/21/14 10:20	R30	1	A	NONE
AC78787-015	05/23/14 14:55	JE	1	A	VOA
AC78787-015	05/23/14 18:38	R30	1	M	NONE
AC78787-015	05/21/14 20:51	R12	2	A	NONE
AC78787-015	05/21/14 20:51	PA	2	A	mixing
AC78787-015	05/22/14 07:28	HS	2	A	5solids

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AC78787-015	05/22/14 09:03	AM	2	A	r12
AC78787-015	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-015	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-015	05/27/14 10:07	R12	2	A	NONE
AC78787-015	05/29/14 06:35	SW	2	A	p/p soil
AC78787-015	05/29/14 06:36	R12	2	A	NONE
AC78787-016	05/20/14 17:30	MAXW	0	M	Received
AC78787-016	05/21/14 09:26	MAXW	0	M	Login
AC78787-016	05/23/14 20:57	R12	1	A	NONE
AC78787-016	05/23/14 20:57	JU	1	A	tdwi-hg
AC78787-016	05/22/14 10:46	LV	3	A	nb/bna
AC78787-016	05/22/14 09:06	MSL	5	A	p/p
AC78787-016	05/21/14 10:09	R31	6	A	NONE
AC78787-016	05/23/14 13:02	WP	6	A	VOA
AC78787-016	05/21/14 10:09	R31	7	A	NONE
AC78787-016	05/21/14 10:09	R31	8	A	NONE
AC78787-017	05/20/14 17:30	MAXW	0	M	Received
AC78787-017	05/21/14 09:26	MAXW	0	M	Login
AC78787-017	05/21/14 14:34	RAMO	1	A	R12
AC78787-017	05/21/14 14:34	RAMO	1	A	filtering
AC78787-017	05/23/14 20:57	JU	1	A	tdwi-hg
AC78787-017	05/23/14 20:57	R12	1	A	NONE
AC78787-018	05/20/14 17:30	MAXW	0	M	Received
AC78787-018	05/21/14 09:26	MAXW	0	M	Login
AC78787-018	05/21/14 10:20	R30	1	A	NONE
AC78787-018	05/23/14 14:55	JE	1	A	VOA
AC78787-018	05/23/14 18:38	R30	1	M	NONE
AC78787-018	05/28/14 10:28	JE	1	A	VOA
AC78787-018	05/28/14 10:32	JE	1	A	R30
AC78787-018	05/21/14 20:51	R12	2	A	NONE
AC78787-018	05/21/14 20:51	PA	2	A	mixing
AC78787-018	05/22/14 07:28	HS	2	A	5solids
AC78787-018	05/22/14 09:03	AM	2	A	r12
AC78787-018	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-018	05/28/14 09:51	LYND	2	A	bna/bn
AC78787-018	05/28/14 10:46	R12	2	A	NONE
AC78787-018	05/29/14 06:35	SW	2	A	p/p soil
AC78787-018	05/29/14 06:36	R12	2	A	NONE
AC78787-018	05/27/14 07:38	F18	3	A	NONE
AC78787-018	05/27/14 16:27	WP	3	A	VOA
AC78787-019	05/20/14 17:30	MAXW	0	M	Received
AC78787-019	05/21/14 09:26	MAXW	0	M	Login
AC78787-019	05/21/14 10:20	R30	1	A	NONE
AC78787-019	05/23/14 14:55	JE	1	A	VOA
AC78787-019	05/23/14 18:38	R30	1	M	NONE
AC78787-019	05/21/14 20:51	PA	2	A	mixing
AC78787-019	05/21/14 20:51	R12	2	A	NONE
AC78787-019	05/22/14 07:28	HS	2	A	5solids
AC78787-019	05/22/14 09:03	AM	2	A	r12
AC78787-019	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-019	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-019	05/27/14 10:07	R12	2	A	NONE
AC78787-019	05/28/14 08:58	BINIT	2	A	s,p/p
AC78787-019	05/28/14 09:26	R12	2	A	NONE
AC78787-019	05/27/14 07:38	F18	3	A	NONE
AC78787-019	05/27/14 16:27	WP	3	A	VOA
AC78787-019	05/28/14 08:24	F19	3	M	NONE
AC78787-019	05/28/14 10:33	SGG	3	A	VOA
AC78787-020	05/20/14 17:30	MAXW	0	M	Received
AC78787-020	05/21/14 09:26	MAXW	0	M	Login
AC78787-020	05/21/14 10:20	R30	1	A	NONE
AC78787-020	05/23/14 14:55	JE	1	A	VOA
AC78787-020	05/23/14 18:38	R30	1	M	NONE
AC78787-020	05/21/14 20:51	PA	2	A	mixing
AC78787-020	05/21/14 20:51	R12	2	A	NONE
AC78787-020	05/22/14 07:28	HS	2	A	5solids
AC78787-020	05/22/14 09:03	AM	2	A	r12
AC78787-020	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-020	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-020	05/27/14 10:07	R12	2	A	NONE
AC78787-020	05/28/14 08:58	BINIT	2	A	s,p/p
AC78787-020	05/28/14 09:26	R12	2	A	NONE
AC78787-020	05/27/14 07:38	F18	3	A	NONE
AC78787-020	05/27/14 16:27	WP	3	A	VOA
AC78787-020	05/27/14 17:03	F19	3	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AC78787-020	05/29/14 10:14	WP	3	A	VOA
AC78787-021	05/20/14 17:30	MAXW	0	M	Received
AC78787-021	05/21/14 09:26	MAXW	0	M	Login
AC78787-021	05/21/14 10:20	R30	1	A	NONE
AC78787-021	05/23/14 14:55	JE	1	A	VOA
AC78787-021	05/23/14 18:38	R30	1	M	NONE
AC78787-021	05/21/14 20:51	PA	2	A	mixing
AC78787-021	05/21/14 20:51	R12	2	A	NONE
AC78787-021	05/22/14 07:28	HS	2	A	5solids
AC78787-021	05/22/14 09:03	AM	2	A	r12
AC78787-021	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-021	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-021	05/27/14 10:07	R12	2	A	NONE
AC78787-021	05/28/14 08:58	BINIT	2	A	s,p/p
AC78787-021	05/28/14 09:26	R12	2	A	NONE
AC78787-021	05/27/14 07:38	F18	3	A	NONE
AC78787-021	05/27/14 16:27	WP	3	A	VOA
AC78787-021	05/27/14 17:03	F19	3	A	NONE
AC78787-021	05/29/14 10:14	WP	3	A	VOA
AC78787-022	05/20/14 17:30	MAXW	0	M	Received
AC78787-022	05/21/14 09:26	MAXW	0	M	Login
AC78787-022	05/21/14 10:20	R30	1	A	NONE
AC78787-022	05/23/14 14:55	JE	1	A	VOA
AC78787-022	05/23/14 18:38	R30	1	M	NONE
AC78787-022	05/21/14 20:51	PA	2	A	mixing
AC78787-022	05/21/14 20:51	R12	2	A	NONE
AC78787-022	05/22/14 07:28	HS	2	A	5solids
AC78787-022	05/22/14 09:03	AM	2	A	r12
AC78787-022	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-022	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-022	05/27/14 10:07	R12	2	A	NONE
AC78787-022	05/28/14 08:58	BINIT	2	A	s,p/p
AC78787-022	05/28/14 09:26	R12	2	A	NONE
AC78787-022	05/23/14 18:14	R30	3	A	NONE
AC78787-022	05/29/14 10:14	WP	3	A	VOA
AC78787-023	05/20/14 17:30	MAXW	0	M	Received
AC78787-023	05/21/14 09:26	MAXW	0	M	Login
AC78787-023	05/21/14 10:20	R30	1	A	NONE
AC78787-023	05/23/14 14:55	JE	1	A	VOA
AC78787-023	05/23/14 18:38	R30	1	M	NONE
AC78787-023	05/21/14 20:51	R12	2	A	NONE
AC78787-023	05/21/14 20:51	PA	2	A	mixing
AC78787-023	05/22/14 07:28	HS	2	A	5solids
AC78787-023	05/22/14 09:03	AM	2	A	r12
AC78787-023	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-023	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-023	05/27/14 10:07	R12	2	A	NONE
AC78787-023	05/28/14 08:58	BINIT	2	A	s,p/p
AC78787-023	05/28/14 09:26	R12	2	A	NONE
AC78787-023	05/23/14 18:14	R30	3	A	NONE
AC78787-023	05/29/14 10:14	WP	3	A	VOA
AC78787-024	05/20/14 17:30	MAXW	0	M	Received
AC78787-024	05/21/14 09:26	MAXW	0	M	Login
AC78787-024	05/21/14 10:20	R30	1	A	NONE
AC78787-024	05/23/14 14:55	JE	1	A	VOA
AC78787-024	05/23/14 18:38	R30	1	M	NONE
AC78787-024	05/21/14 20:51	PA	2	A	mixing
AC78787-024	05/21/14 20:51	R12	2	A	NONE
AC78787-024	05/22/14 07:28	HS	2	A	5solids
AC78787-024	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-024	05/22/14 09:03	AM	2	A	r12
AC78787-024	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-024	05/27/14 10:07	R12	2	A	NONE
AC78787-024	05/28/14 08:58	BINIT	2	A	s,p/p
AC78787-024	05/28/14 09:26	R12	2	A	NONE
AC78787-024	05/23/14 18:14	R30	3	A	NONE
AC78787-024	05/29/14 10:14	WP	3	A	VOA
AC78787-025	05/20/14 17:30	MAXW	0	M	Received
AC78787-025	05/21/14 09:26	MAXW	0	M	Login
AC78787-025	05/21/14 10:20	R30	1	A	NONE
AC78787-025	05/23/14 14:55	JE	1	A	VOA
AC78787-025	05/23/14 18:38	R30	1	M	NONE
AC78787-025	05/21/14 20:51	PA	2	A	mixing
AC78787-025	05/21/14 20:51	R12	2	A	NONE
AC78787-025	05/22/14 07:28	HS	2	A	5solids

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AC78787-025	05/22/14 09:03	AM	2	A	r12
AC78787-025	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-025	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-025	05/27/14 10:07	R12	2	A	NONE
AC78787-025	05/28/14 08:58	BINIT	2	A	s,p/p
AC78787-025	05/28/14 09:26	R12	2	A	NONE
AC78787-025	05/23/14 18:14	R30	3	A	NONE
AC78787-025	05/29/14 10:14	WP	3	A	VOA
AC78787-026	05/20/14 17:30	MAXW	0	M	Received
AC78787-026	05/21/14 09:26	MAXW	0	M	Login
AC78787-026	05/21/14 10:20	R30	1	A	NONE
AC78787-026	05/23/14 14:55	JE	1	A	VOA
AC78787-026	05/23/14 18:38	R30	1	M	NONE
AC78787-026	05/21/14 20:51	PA	2	A	mixing
AC78787-026	05/21/14 20:51	R12	2	A	NONE
AC78787-026	05/22/14 07:28	HS	2	A	5solids
AC78787-026	05/22/14 09:03	AM	2	A	tdsi/hg
AC78787-026	05/22/14 09:03	AM	2	A	r12
AC78787-026	05/27/14 09:33	LYND	2	A	bna/bn
AC78787-026	05/27/14 10:07	R12	2	A	NONE
AC78787-026	05/28/14 08:58	BINIT	2	A	s,p/p
AC78787-026	05/28/14 09:26	R12	2	A	NONE
AC78787-026	05/23/14 18:14	R30	3	A	NONE
AC78787-026	05/29/14 10:14	WP	3	A	VOA

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

GC/MS Volatile Data

GC/MS Volatile Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8260C

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3M51191.D	DAILY BLANK	Aqueous	05/22/14 10:59	1		100	98	98	102		
3M51236.D	DAILY BLANK	Aqueous	05/23/14 10:47	1		99	103	101	91		
6M10510.D	DAILY BLANK	Soil	05/23/14 17:37	1		100	96	95	98		
6M10596.D	DAILY BLANK	Soil	05/28/14 08:19	1		103	95	101	115		
6M10649.D	DAILY BLANK	Soil	05/29/14 07:42	1		114	98	97	115		
6M10534.D	AC78787-001	Soil	05/24/14 00:17	1		106	105	100	97		
6M10535.D	AC78787-002	Soil	05/24/14 00:33	1		94	90	102	107		
3M51250.D	AC78787-003	Aqueous	05/23/14 14:39	1		104	110	98	95		
3M51245.D	AC78787-005	Aqueous	05/23/14 13:16	1		96	96	101	98		
6M10536.D	AC78787-007	Soil	05/24/14 00:50	1		108	113	103	99		
6M10537.D	AC78787-008	Soil	05/24/14 01:07	1		118	110	94	110		
3M51251.D	AC78787-009	Aqueous	05/23/14 14:56	1		101	94	102	101		
3M51254.D	AC78787-011	Aqueous	05/23/14 15:45	1		99	103	99	99		
3M51246.D	AC78787-013	Aqueous	05/23/14 13:33	1		103	99	93	101		
6M10538.D	AC78787-014	Soil	05/24/14 01:23	1		110	105	100	115		
6M10539.D	AC78787-015	Soil	05/24/14 01:40	1		104	91	97	104		
3M51260.D	AC78787-016	Aqueous	05/23/14 17:23	1		100	99	97	92		
6M10606.D	AC78787-018	Soil	05/28/14 11:09	1		108	94	98	73		
6M10605.D	AC78787-019	Soil	05/28/14 10:53	1		109	111	91	103		
6M10667.D	AC78787-020	Soil	05/29/14 12:42	1		114	98	104	105		
6M10688.D	AC78787-021	Soil	05/29/14 18:39	1		116	89	108	89		
6M10668.D	AC78787-022	Soil	05/29/14 12:59	1		117	113	96	102		
6M10673.D	AC78787-023	Soil	05/29/14 14:25	1		108	101	102	106		
6M10685.D	AC78787-024	Soil	05/29/14 17:49	1		107	111	104	107		
6M10686.D	AC78787-025	Soil	05/29/14 18:06	1		107	93	106	97		
6M10687.D	AC78787-026	Soil	05/29/14 18:22	1		99	99	107	99		
3M51195.D	MBS35810	Aqueous	05/22/14 12:05	1		95	102	98	95		
3M51200.D	AC78747-001(	Aqueous	05/22/14 13:29	1		102	97	95	100		
3M51220.D	AC78747-001(	Aqueous	05/22/14 18:56	1		102	105	98	103		
3M51221.D	AC78747-001(	Aqueous	05/22/14 19:12	1		96	107	100	96		
3M51229.D	MBS35814	Aqueous	05/22/14 21:14	1		98	99	96	88		
3M51243.D	MBS35817	Aqueous	05/23/14 12:43	1		102	101	96	97		
3M51271.D	MBS35822	Aqueous	05/23/14 20:13	1		109	105	96	95		
6M10512.D	MBS35820	Soil	05/23/14 18:11	1		94	94	106	122		
6M10530.D	MBS35836	Soil	05/23/14 23:10	1		110	90	113	102		
6M10597.D	MBS35844	Soil	05/28/14 08:35	1		103	84	102	101		
6M10600.D	MBS35856	Soil	05/28/14 09:29	1		100	91	96	94		
6M10621.D	MBS35857	Soil	05/28/14 15:24	1		100	99	91	109		
6M10650.D	MBS35858	Soil	05/29/14 07:58	1		104	91	105	106		
6M10651.D	AC78866-001(	Soil	05/29/14 08:15	1		97	93	106	93		
6M10652.D	AC78866-001(	Soil	05/29/14 08:31	1		92	101	108	101		
6M10654.D	AC78866-001	Soil	05/29/14 09:05	1		115	101	93	97		
6M10672.D	MBS35871	Soil	05/29/14 14:08	1		94	98	109	89		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260C

Soil Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Aqueous Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data
QC Batch: MBS35810

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51195.D	MBS35810	5/22/2014 12:05:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	17.2683	0	20	86	20	130
1,1-Dichloroethene	1	19.1431	0	20	96	50	130
1,1-Dichloroethane	1	17.386	0	20	87	50	130
Chloroform	1	18.0734	0	20	90	50	130
1,2-Dichloroethane	1	18.7177	0	20	94	50	130
2-Butanone	1	15.2873	0	20	76	20	130
Carbon Tetrachloride	1	19.3279	0	20	97	50	130
Trichloroethene	1	18.6072	0	20	93	50	130
Benzene	1	20.3295	0	20	102	50	130
Tetrachloroethene	1	20.7226	0	20	104	50	130
Toluene	1	17.8187	0	20	89	50	130
Chlorobenzene	1	17.4378	0	20	87	50	130
1,4-Dichlorobenzene	1	16.8905	0	20	84	50	130
1,2-Dichlorobenzene	1	16.6751	0	20	83	50	130
n-Propylbenzene	1	17.5738	0	20	88	50	130
sec-Butylbenzene	1	18.151	0	20	91	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS35814

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51229.D	MBS35814	5/22/2014 9:14:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	13.8395	0	20	69	20	130
1,1-Dichloroethene	1	16.4423	0	20	82	50	130
1,1-Dichloroethane	1	15.0824	0	20	75	50	130
Chloroform	1	15.1429	0	20	76	50	130
1,2-Dichloroethane	1	17.0626	0	20	85	50	130
2-Butanone	1	15.2312	0	20	76	20	130
Carbon Tetrachloride	1	17.2917	0	20	86	50	130
Trichloroethene	1	15.9164	0	20	80	50	130
Benzene	1	16.5978	0	20	83	50	130
Tetrachloroethene	1	16.5012	0	20	83	50	130
Toluene	1	15.7235	0	20	79	50	130
Chlorobenzene	1	15.7051	0	20	79	50	130
1,4-Dichlorobenzene	1	14.2779	0	20	71	50	130
1,2-Dichlorobenzene	1	14.0185	0	20	70	50	130
n-Propylbenzene	1	15.0671	0	20	75	50	130
sec-Butylbenzene	1	14.9109	0	20	75	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS35817

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51243.D	MBS35817	5/23/2014 12:43:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	14.7184	0	20	74	20	130
1,1-Dichloroethene	1	17.9232	0	20	90	50	130
1,1-Dichloroethane	1	16.0497	0	20	80	50	130
Chloroform	1	15.4526	0	20	77	50	130
1,2-Dichloroethane	1	18.0508	0	20	90	50	130
2-Butanone	1	17.6115	0	20	88	20	130
Carbon Tetrachloride	1	18.5901	0	20	93	50	130
Trichloroethene	1	16.973	0	20	85	50	130
Benzene	1	17.7246	0	20	89	50	130
Tetrachloroethene	1	16.261	0	20	81	50	130
Toluene	1	16.9044	0	20	85	50	130
Chlorobenzene	1	15.6529	0	20	78	50	130
1,4-Dichlorobenzene	1	15.9087	0	20	80	50	130
1,2-Dichlorobenzene	1	15.941	0	20	80	50	130
n-Propylbenzene	1	16.1848	0	20	81	50	130
sec-Butylbenzene	1	18.2272	0	20	91	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS35820

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10512.D	MBS35820	5/23/2014 6:11:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	42.7821	0	50	86	20	130
1,1-Dichloroethene	1	50.1234	0	50	100	50	130
1,1-Dichloroethane	1	45.3885	0	50	91	50	130
Chloroform	1	43.9321	0	50	88	50	130
1,2-Dichloroethane	1	39.4681	0	50	79	50	130
2-Butanone	1	49.2506	0	50	99	20	130
Carbon Tetrachloride	1	46.8336	0	50	94	50	130
Trichloroethene	1	45.4499	0	50	91	50	130
Benzene	1	47.455	0	50	95	50	130
Tetrachloroethene	1	50.643	0	50	101	50	130
Toluene	1	43.048	0	50	86	50	130
Chlorobenzene	1	42.384	0	50	85	50	130
1,4-Dichlorobenzene	1	44.5952	0	50	89	50	130
1,2-Dichlorobenzene	1	39.3895	0	50	79	50	130
n-Propylbenzene	1	47.0102	0	50	94	50	130
sec-Butylbenzene	1	48.9005	0	50	98	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS35822

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51271.D	MBS35822	5/23/2014 8:13:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	17.6125	0	20	88	20	130
1,1-Dichloroethene	1	18.5579	0	20	93	50	130
1,1-Dichloroethane	1	17.6928	0	20	88	50	130
Chloroform	1	16.4183	0	20	82	50	130
1,2-Dichloroethane	1	17.794	0	20	89	50	130
2-Butanone	1	17.7587	0	20	89	20	130
Carbon Tetrachloride	1	19.2265	0	20	96	50	130
Trichloroethene	1	17.732	0	20	89	50	130
Benzene	1	19.4138	0	20	97	50	130
Tetrachloroethene	1	18.0243	0	20	90	50	130
Toluene	1	17.8958	0	20	89	50	130
Chlorobenzene	1	17.6744	0	20	88	50	130
1,4-Dichlorobenzene	1	17.1881	0	20	86	50	130
1,2-Dichlorobenzene	1	17.8264	0	20	89	50	130
n-Propylbenzene	1	19.3367	0	20	97	50	130
sec-Butylbenzene	1	18.6775	0	20	93	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS35836

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10530.D	MBS35836	5/23/2014 11:10:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	38.0103	0	50	76	20	130
1,1-Dichloroethene	1	41.1939	0	50	82	50	130
1,1-Dichloroethane	1	38.1376	0	50	76	50	130
Chloroform	1	38.8405	0	50	78	50	130
1,2-Dichloroethane	1	35.9424	0	50	72	50	130
2-Butanone	1	35.7827	0	50	72	20	130
Carbon Tetrachloride	1	36.0656	0	50	72	50	130
Trichloroethene	1	33.01	0	50	66	50	130
Benzene	1	39.2197	0	50	78	50	130
Tetrachloroethene	1	33.5042	0	50	67	50	130
Toluene	1	34.3856	0	50	69	50	130
Chlorobenzene	1	35.1926	0	50	70	50	130
1,4-Dichlorobenzene	1	32.3021	0	50	65	50	130
1,2-Dichlorobenzene	1	31.4701	0	50	63	50	130
n-Propylbenzene	1	30.1973	0	50	60	50	130
sec-Butylbenzene	1	29.6325	0	50	59	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS35844

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10597.D	MBS35844	5/28/2014 8:35:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	17.6551	0	50	35	20	130
1,1-Dichloroethene	1	35.151	0	50	70	50	130
1,1-Dichloroethane	1	39.4832	0	50	79	50	130
Chloroform	1	41.4952	0	50	83	50	130
1,2-Dichloroethane	1	46.2403	0	50	92	50	130
2-Butanone	1	36.8561	0	50	74	20	130
Carbon Tetrachloride	1	42.4255	0	50	85	50	130
Trichloroethene	1	41.8012	0	50	84	50	130
Benzene	1	44.2053	0	50	88	50	130
Tetrachloroethene	1	45.5746	0	50	91	50	130
Toluene	1	42.448	0	50	85	50	130
Chlorobenzene	1	42.1023	0	50	84	50	130
1,4-Dichlorobenzene	1	40.5043	0	50	81	50	130
1,2-Dichlorobenzene	1	39.807	0	50	80	50	130
n-Propylbenzene	1	45.5774	0	50	91	50	130
sec-Butylbenzene	1	44.1474	0	50	88	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS35856

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10600.D	MBS35856	5/28/2014 9:29:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	16.476	0	50	33	20	130
1,1-Dichloroethene	1	37.0096	0	50	74	50	130
1,1-Dichloroethane	1	44.2329	0	50	88	50	130
Chloroform	1	49.7906	0	50	100	50	130
1,2-Dichloroethane	1	42.7036	0	50	85	50	130
2-Butanone	1	42.1342	0	50	84	20	130
Carbon Tetrachloride	1	48.6283	0	50	97	50	130
Trichloroethene	1	44.5942	0	50	89	50	130
Benzene	1	48.4426	0	50	97	50	130
Tetrachloroethene	1	43.7043	0	50	87	50	130
Toluene	1	40.5381	0	50	81	50	130
Chlorobenzene	1	44.739	0	50	89	50	130
1,4-Dichlorobenzene	1	43.1925	0	50	86	50	130
1,2-Dichlorobenzene	1	41.5469	0	50	83	50	130
n-Propylbenzene	1	45.8836	0	50	92	50	130
sec-Butylbenzene	1	45.7833	0	50	92	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS35857

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10621.D	MBS35857	5/28/2014 3:24:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	14.9991	0	50	30	20	130
1,1-Dichloroethene	1	36.1239	0	50	72	50	130
1,1-Dichloroethane	1	44.3168	0	50	89	50	130
Chloroform	1	46.9843	0	50	94	50	130
1,2-Dichloroethane	1	42.413	0	50	85	50	130
2-Butanone	1	46.2399	0	50	92	20	130
Carbon Tetrachloride	1	47.3569	0	50	95	50	130
Trichloroethene	1	42.4152	0	50	85	50	130
Benzene	1	49.5156	0	50	99	50	130
Tetrachloroethene	1	41.035	0	50	82	50	130
Toluene	1	39.4864	0	50	79	50	130
Chlorobenzene	1	40.4376	0	50	81	50	130
1,4-Dichlorobenzene	1	37.6703	0	50	75	50	130
1,2-Dichlorobenzene	1	38.9482	0	50	78	50	130
n-Propylbenzene	1	40.8219	0	50	82	50	130
sec-Butylbenzene	1	42.0168	0	50	84	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS35858

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10650.D	MBS35858	5/29/2014 7:58:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	41.531	0	50	83	20	130
1,1-Dichloroethene	1	47.0913	0	50	94	50	130
1,1-Dichloroethane	1	41.079	0	50	82	50	130
Chloroform	1	43.4611	0	50	87	50	130
1,2-Dichloroethane	1	38.3344	0	50	77	50	130
2-Butanone	1	46.3366	0	50	93	20	130
Carbon Tetrachloride	1	45.8348	0	50	92	50	130
Trichloroethene	1	37.6356	0	50	75	50	130
Benzene	1	45.171	0	50	90	50	130
Tetrachloroethene	1	39.454	0	50	79	50	130
Toluene	1	37.9987	0	50	76	50	130
Chlorobenzene	1	36.1451	0	50	72	50	130
1,4-Dichlorobenzene	1	35.6815	0	50	71	50	130
1,2-Dichlorobenzene	1	35.1457	0	50	70	50	130
n-Propylbenzene	1	40.1447	0	50	80	50	130
sec-Butylbenzene	1	42.1786	0	50	84	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS35871

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10672.D	MBS35871	5/29/2014 2:08:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	52.8729	0	50	106	20	130
1,1-Dichloroethene	1	52.2805	0	50	105	50	130
1,1-Dichloroethane	1	46.8778	0	50	94	50	130
Chloroform	1	48.1179	0	50	96	50	130
1,2-Dichloroethane	1	43.1288	0	50	86	50	130
2-Butanone	1	43.4281	0	50	87	20	130
Carbon Tetrachloride	1	53.4205	0	50	107	50	130
Trichloroethene	1	43.5283	0	50	87	50	130
Benzene	1	52.6161	0	50	105	50	130
Tetrachloroethene	1	46.2877	0	50	93	50	130
Toluene	1	44.6969	0	50	89	50	130
Chlorobenzene	1	44.4213	0	50	89	50	130
1,4-Dichlorobenzene	1	39.1156	0	50	78	50	130
1,2-Dichlorobenzene	1	38.9052	0	50	78	50	130
n-Propylbenzene	1	41.8816	0	50	84	50	130
sec-Butylbenzene	1	43.6944	0	50	87	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS35814

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51220.D	AC78747-001(T:MS)	5/22/2014 6:56:00 PM
Non Spike(If applicable):	3M51200.D	AC78747-001(T)	5/22/2014 1:29:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	17.7584	0	20	89	20	130
1,1-Dichloroethene	1	20.7265	0	20	104	50	130
1,1-Dichloroethane	1	18.3589	0	20	92	50	130
Chloroform	1	18.4628	0	20	92	50	130
1,2-Dichloroethane	1	20.1513	0	20	101	50	130
2-Butanone	1	19.3268	0	20	97	20	130
Carbon Tetrachloride	1	19.3378	0	20	97	50	130
Trichloroethene	1	19.3646	0	20	97	50	130
Benzene	1	19.8423	0	20	99	50	130
Tetrachloroethene	1	17.6852	0	20	88	50	130
Toluene	1	20.8843	0	20	104	50	130
Chlorobenzene	1	18.7556	0	20	94	50	130
1,4-Dichlorobenzene	1	16.9847	0	20	85	50	130
1,2-Dichlorobenzene	1	18.1417	0	20	91	50	130
n-Propylbenzene	1	18.174	0	20	91	50	130
sec-Butylbenzene	1	17.6749	0	20	88	50	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51221.D	AC78747-001(T:MSD)	5/22/2014 7:12:00 PM
Non Spike(If applicable):	3M51200.D	AC78747-001(T)	5/22/2014 1:29:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	20.3843	0	20	102	20	130
1,1-Dichloroethene	1	21.4763	0	20	107	50	130
1,1-Dichloroethane	1	18.0525	0	20	90	50	130
Chloroform	1	18.1455	0	20	91	50	130
1,2-Dichloroethane	1	20.3541	0	20	102	50	130
2-Butanone	1	20.2562	0	20	101	20	130
Carbon Tetrachloride	1	18.8141	0	20	94	50	130
Trichloroethene	1	20.4635	0	20	102	50	130
Benzene	1	20.5663	0	20	103	50	130
Tetrachloroethene	1	17.4119	0	20	87	50	130
Toluene	1	21.2205	0	20	106	50	130
Chlorobenzene	1	18.5491	0	20	93	50	130
1,4-Dichlorobenzene	1	17.1808	0	20	86	50	130
1,2-Dichlorobenzene	1	16.4153	0	20	82	50	130
n-Propylbenzene	1	16.8727	0	20	84	50	130
sec-Butylbenzene	1	17.5412	0	20	88	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

4052101 0250

QC Batch: MBS35814

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51221.D	AC78747-001(T:MSD)	5/22/2014 7:12:00 PM
Duplicate(If applicable):	3M51220.D	AC78747-001(T:MS)	5/22/2014 6:56:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Vinyl Chloride	1	20.3843	17.7584	14	40
1,1-Dichloroethene	1	21.4763	20.7265	3.6	40
1,1-Dichloroethane	1	18.0525	18.3589	1.7	40
Chloroform	1	18.1455	18.4628	1.7	40
1,2-Dichloroethane	1	20.3541	20.1513	1	40
2-Butanone	1	20.2562	19.3268	4.7	40
Carbon Tetrachloride	1	18.8141	19.3378	2.7	40
Trichloroethene	1	20.4635	19.3646	5.5	40
Benzene	1	20.5663	19.8423	3.6	40
Tetrachloroethene	1	17.4119	17.6852	1.6	40
Toluene	1	21.2205	20.8843	1.6	40
Chlorobenzene	1	18.5491	18.7556	1.1	40
1,4-Dichlorobenzene	1	17.1808	16.9847	1.1	40
1,2-Dichlorobenzene	1	16.4153	18.1417	10	40
n-Propylbenzene	1	16.8727	18.174	7.4	40
sec-Butylbenzene	1	17.5412	17.6749	0.76	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data
QC Batch: MBS35858

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10651.D	AC78866-001(MS)	5/29/2014 8:15:00 AM
Non Spike(If applicable):	6M10654.D	AC78866-001	5/29/2014 9:05:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	34.3922	0	50	69	20	130
1,1-Dichloroethene	1	36.3116	0	50	73	50	130
1,1-Dichloroethane	1	32.6391	0	50	65	50	130
Chloroform	1	34.8143	0	50	70	50	130
1,2-Dichloroethane	1	31.3875	0	50	63	50	130
2-Butanone	1	34.1745	0	50	68	20	130
Carbon Tetrachloride	1	35.8328	0	50	72	50	130
Trichloroethene	1	29.9249	0	50	60	50	130
Benzene	1	34.7867	0	50	70	50	130
Tetrachloroethene	1	34.9261	0	50	70	50	130
Toluene	1	32.8843	0	50	66	50	130
Chlorobenzene	1	35.439	0	50	71	50	130
1,4-Dichlorobenzene	1	29.7732	0	50	60	50	130
1,2-Dichlorobenzene	1	32.8598	0	50	66	50	130
n-Propylbenzene	1	34.5314	0	50	69	50	130
sec-Butylbenzene	1	33.9531	0	50	68	50	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10652.D	AC78866-001(MSD)	5/29/2014 8:31:00 AM
Non Spike(If applicable):	6M10654.D	AC78866-001	5/29/2014 9:05:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	31.5206	0	50	63	20	130
1,1-Dichloroethene	1	38.2649	0	50	77	50	130
1,1-Dichloroethane	1	37.2572	0	50	75	50	130
Chloroform	1	34.8494	0	50	70	50	130
1,2-Dichloroethane	1	34.0641	0	50	68	50	130
2-Butanone	1	40.5092	0	50	81	20	130
Carbon Tetrachloride	1	36.0267	0	50	72	50	130
Trichloroethene	1	34.9799	0	50	70	50	130
Benzene	1	38.1194	0	50	76	50	130
Tetrachloroethene	1	36.9089	0	50	74	50	130
Toluene	1	36.4677	0	50	73	50	130
Chlorobenzene	1	37.9325	0	50	76	50	130
1,4-Dichlorobenzene	1	28.8895	0	50	58	50	130
1,2-Dichlorobenzene	1	29.1114	0	50	58	50	130
n-Propylbenzene	1	34.6663	0	50	69	50	130
sec-Butylbenzene	1	35.072	0	50	70	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: MBS35858

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10652.D	AC78866-001(MSD)	5/29/2014 8:31:00 AM
Duplicate(If applicable):	6M10651.D	AC78866-001(MS)	5/29/2014 8:15:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Vinyl Chloride	1	31.5206	34.3922	8.7	40
1,1-Dichloroethene	1	38.2649	36.3116	5.2	40
1,1-Dichloroethane	1	37.2572	32.6391	13	40
Chloroform	1	34.8494	34.8143	0.1	40
1,2-Dichloroethane	1	34.0641	31.3875	8.2	40
2-Butanone	1	40.5092	34.1745	17	40
Carbon Tetrachloride	1	36.0267	35.8328	0.54	40
Trichloroethene	1	34.9799	29.9249	16	40
Benzene	1	38.1194	34.7867	9.1	40
Tetrachloroethene	1	36.9089	34.9261	5.5	40
Toluene	1	36.4677	32.8843	10	40
Chlorobenzene	1	37.9325	35.439	6.8	40
1,4-Dichlorobenzene	1	28.8895	29.7732	3	40
1,2-Dichlorobenzene	1	29.1114	32.8598	12	40
n-Propylbenzene	1	34.6663	34.5314	0.39	40
sec-Butylbenzene	1	35.072	33.9531	3.2	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 3M51191.D
Matrix: Aqueous

Blank Analysis Date: 05/22/14 10:59
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AC78747-001(T)	3M51200.D	05/22/14 13:29
AC78747-001(T:M	3M51220.D	05/22/14 18:56
AC78747-001(T:M	3M51221.D	05/22/14 19:12
MBS35814	3M51229.D	05/22/14 21:14
MBS35810	3M51195.D	05/22/14 12:05

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 3M51236.D
Matrix: Aqueous

Blank Analysis Date: 05/23/14 10:47
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AC78787-003	3M51250.D	05/23/14 14:39
AC78787-005	3M51245.D	05/23/14 13:16
AC78787-009	3M51251.D	05/23/14 14:56
AC78787-011	3M51254.D	05/23/14 15:45
AC78787-013	3M51246.D	05/23/14 13:33
AC78787-016	3M51260.D	05/23/14 17:23
MBS35822	3M51271.D	05/23/14 20:13
MBS35817	3M51243.D	05/23/14 12:43

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 6M10510.D
Matrix: Soil

Blank Analysis Date: 05/23/14 17:37
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AC78787-001	6M10534.D	05/24/14 00:17
AC78787-002	6M10535.D	05/24/14 00:33
AC78787-007	6M10536.D	05/24/14 00:50
AC78787-008	6M10537.D	05/24/14 01:07
AC78787-014	6M10538.D	05/24/14 01:23
AC78787-015	6M10539.D	05/24/14 01:40
MBS35836	6M10530.D	05/23/14 23:10
MBS35820	6M10512.D	05/23/14 18:11

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 6M10596.D
Matrix: Soil

Blank Analysis Date: 05/28/14 08:19
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AC78787-018	6M10606.D	05/28/14 11:09
AC78787-019	6M10605.D	05/28/14 10:53
MBS35857	6M10621.D	05/28/14 15:24
MBS35844	6M10597.D	05/28/14 08:35
MBS35856	6M10600.D	05/28/14 09:29

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 6M10649.D
Matrix: Soil

Blank Analysis Date: 05/29/14 07:42
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AC78787-020	6M10667.D	05/29/14 12:42
AC78787-021	6M10688.D	05/29/14 18:39
AC78787-022	6M10668.D	05/29/14 12:59
AC78787-023	6M10673.D	05/29/14 14:25
AC78787-024	6M10685.D	05/29/14 17:49
AC78787-025	6M10686.D	05/29/14 18:06
AC78787-026	6M10687.D	05/29/14 18:22
MBS35871	6M10672.D	05/29/14 14:08
MBS35858	6M10650.D	05/29/14 07:58
AC78866-001(MS)	6M10651.D	05/29/14 08:15
AC78866-001(MSD	6M10652.D	05/29/14 08:31
AC78866-001	6M10654.D	05/29/14 09:05

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6

Data File: 6M10285.D
Analysis Date: 05/19/14 10:25
Method: EPA 8260C

Tune Scan/Time Range: Average of 3.832 to 3.950 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	22.9	3064	PASS
75	95	30	60	46.2	6184	PASS
95	95	100	100	100.0	13383	PASS
96	95	5	9	6.9	922	PASS
173	174	0.00	2	1.3	107	PASS
174	95	50	100	61.5	8232	PASS
175	174	5	9	7.6	626	PASS
176	174	95	101	100.9	8306	PASS
177	176	5	9	6.7	558	PASS

Data File	Sample Number	Analysis Date:
6M10286.D	BLK	05/19/14 10:35
6M10287.D	BLK	05/19/14 10:52
6M10288.D	CAL @ 0.5 PPB	05/19/14 11:09
6M10289.D	CAL @ 1 PPB	05/19/14 11:25
6M10290.D	2 PPB	05/19/14 11:42
6M10291.D	5 PPB	05/19/14 12:01
6M10292.D	20 PPB	05/19/14 12:18
6M10293.D	CAL @ 50 PPB	05/19/14 12:34
6M10294.D	CAL @ 100 PPB	05/19/14 12:51
6M10295.D	BLK	05/19/14 13:08
6M10296.D	CAL @ 250 PPB	05/19/14 13:24
6M10297.D	BLK	05/19/14 13:43
6M10298.D	CAL @ 500 PPB	05/19/14 13:59
6M10299.D	BLK	05/19/14 14:16
6M10300.D	BLK	05/19/14 14:33
6M10301.D	BLK	05/19/14 14:52
6M10302.D	CAL @ 2 PPB	05/19/14 15:09
6M10303.D	CAL @ 5 PPB	05/19/14 15:26
6M10304.D	CAL @ 20 PPB	05/19/14 15:42
6M10305.D	ICV	05/19/14 15:59
6M10306.D	BLK	05/19/14 16:16
6M10307.D	DAILY BLANK	05/19/14 16:33
6M10308.D	AC78623-010	05/19/14 16:50
6M10309.D	AC78682-003	05/19/14 17:06
6M10310.D	MBS35788	05/19/14 17:23
6M10311.D	BLK	05/19/14 17:40
6M10312.D	AC78682-003	05/19/14 17:56
6M10313.D	AC78741-002	05/19/14 18:13
6M10314.D	AC78741-003	05/19/14 18:29
6M10315.D	AC78741-004	05/19/14 18:46
6M10316.D	AC78741-005	05/19/14 19:02
6M10317.D	AC78741-006	05/19/14 19:19
6M10318.D	AC78741-007	05/19/14 19:35
6M10319.D	AC78741-008	05/19/14 19:52
6M10320.D	AC78741-001	05/19/14 20:09
6M10321.D	AC78679-002	05/19/14 20:25
6M10322.D	AC78677-004	05/19/14 20:42
6M10323.D	AC78677-003	05/19/14 20:58
6M10324.D	AC78671-005	05/19/14 21:15
6M10325.D	AC78694-001	05/19/14 21:31
6M10326.D	STD	05/19/14 21:48
6M10327.D	BLK	05/19/14 22:05
6M10328.D	BLK	05/19/14 22:21
6M10329.D	BLK	05/19/14 22:38
6M10330.D	BLK	05/19/14 22:54
6M10331.D	BLK	05/19/14 23:11

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3

Data File: 3M51153.D
Analysis Date: 05/21/14 10:44
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.094 to 4.232 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	22.0	15933	PASS
75	95	30	60	48.7	35239	PASS
95	95	100	100	100.0	72427	PASS
96	95	5	9	8.0	5808	PASS
173	174	0.00	2	0.2	169	PASS
174	95	50	100	99.1	71789	PASS
175	174	5	9	7.8	5583	PASS
176	174	95	101	97.6	70078	PASS
177	176	5	9	6.6	4642	PASS

Data File	Sample Number	Analysis Date:
3M51154.D	BLK	05/21/14 10:56
3M51155.D	20 PPB	05/21/14 11:13
3M51156.D	20 PPB	05/21/14 11:29
3M51157.D	BLK	05/21/14 11:45
3M51159.D	CAL @ 0.5 PPB	05/21/14 12:22
3M51160.D	CAL @ 1 PPB	05/21/14 12:38
3M51161.D	CAL @ 5 PPB	05/21/14 12:54
3M51162.D	CAL @ 10 PPB	05/21/14 13:10
3M51163.D	CAL @ 20 PPB	05/21/14 13:26
3M51164.D	BLK	05/21/14 13:42
3M51165.D	CAL @ 50 PPB	05/21/14 13:59
3M51166.D	BLK	05/21/14 14:16
3M51167.D	CAL @ 100 PPB	05/21/14 14:32
3M51168.D	BLK	05/21/14 14:53
3M51169.D	BLK	05/21/14 15:10
3M51170.D	CAL @ 250 PPB	05/21/14 15:25
3M51171.D	BLK	05/21/14 15:41
3M51172.D	CAL @ 500 PPB	05/21/14 15:56
3M51173.D	BLK	05/21/14 16:12
3M51174.D	BLK	05/21/14 16:27
3M51175.D	BLK	05/21/14 16:42
3M51176.D	ICV	05/21/14 16:57
3M51177.D	ICV	05/21/14 17:13
3M51178.D	BLK	05/21/14 17:28
3M51179.D	BLK	05/21/14 17:44
3M51180.D	BLK	05/21/14 17:59
3M51181.D	MBS35803	05/21/14 18:14
3M51182.D	MBS35804	05/21/14 21:00
3M51183.D	MBS35805	05/22/14 08:57

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3

Data File: 3M51185.D
Analysis Date: 05/22/14 09:25
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.103 to 4.221 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	26.9	24611	PASS
75	95	30	60	51.3	47014	PASS
95	95	100	100	100.0	91633	PASS
96	95	5	9	7.1	6468	PASS
173	174	0.00	2	0.6	473	PASS
174	95	50	100	93.6	85753	PASS
175	174	5	9	8.3	7148	PASS
176	174	95	101	100.0	85770	PASS
177	176	5	9	7.2	6177	PASS

Data File	Sample Number	Analysis Date:
3M51186.D	BLK	05/22/14 09:35
3M51187.D	CAL @ 20 PPB	05/22/14 09:52
3M51188.D	20 PPB	05/22/14 10:09
3M51189.D	BLK	05/22/14 10:25
3M51190.D	DAILY BLANK	05/22/14 10:42
3M51191.D	DAILY BLANK	05/22/14 10:59
3M51192.D	AC78746-004(10X)	05/22/14 11:15
3M51193.D	AC78746-001(8uL)	05/22/14 11:31
3M51194.D	MBS35809	05/22/14 11:48
3M51195.D	MBS35810	05/22/14 12:05
3M51196.D	AC78707-001(T)	05/22/14 12:23
3M51197.D	AC78707-002(T)	05/22/14 12:40
3M51198.D	AC78707-003(T)	05/22/14 12:57
3M51199.D	AC78707-004(T)	05/22/14 13:13
3M51200.D	AC78747-001(T)	05/22/14 13:29
3M51201.D	EF-1-V-186621(052	05/22/14 13:45
3M51202.D	AC78707-003(T)	05/22/14 14:01
3M51203.D	AC78717-007(20X)	05/22/14 14:18
3M51204.D	AC78748-001(T)	05/22/14 14:35
3M51205.D	AC78707-002(5X)(	05/22/14 14:51
3M51206.D	AC78746-002(T)	05/22/14 15:07
3M51207.D	AC78746-003(T)	05/22/14 15:23
3M51208.D	AC78746-005(T)	05/22/14 15:39
3M51209.D	AC78746-006(T)	05/22/14 15:56
3M51210.D	AC78746-006(40uL	05/22/14 16:13
3M51211.D	AC78724-001(T)	05/22/14 16:30
3M51212.D	AC78746-002(T)	05/22/14 16:46
3M51213.D	BLK	05/22/14 17:03
3M51214.D	AC78763-014	05/22/14 17:19
3M51215.D	AC78763-015	05/22/14 17:35
3M51216.D	AC78763-016	05/22/14 17:52
3M51217.D	AC78763-017	05/22/14 18:08
3M51218.D	AC78763-018	05/22/14 18:24
3M51219.D	AC78762-001(40uL	05/22/14 18:40
3M51220.D	AC78747-001(T:M	05/22/14 18:56
3M51221.D	AC78747-001(T:M	05/22/14 19:12
3M51222.D	BLK	05/22/14 19:27
3M51223.D	BLK	05/22/14 19:42
3M51224.D	AC78717-003	05/22/14 19:58
3M51225.D	AC78717-001(20X)	05/22/14 20:13
3M51226.D	AC78717-005(50X)	05/22/14 20:28
3M51227.D	AC78734-002(MS)	05/22/14 20:43
3M51228.D	AC78734-002(MSD	05/22/14 20:59
3M51229.D	MBS35814	05/22/14 21:14

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3

Data File: 3M51231.D
Analysis Date: 05/23/14 09:11
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.103 to 4.221 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	21.5	17727	PASS
75	95	30	60	47.3	38999	PASS
95	95	100	100	100.0	82516	PASS
96	95	5	9	6.1	5002	PASS
173	174	0.00	2	0.3	233	PASS
174	95	50	100	96.6	79728	PASS
175	174	5	9	7.9	6314	PASS
176	174	95	101	95.9	76434	PASS
177	176	5	9	7.4	5663	PASS

Data File	Sample Number	Analysis Date:
3M51232.D	BLK	05/23/14 09:20
3M51233.D	20 PPB	05/23/14 09:40
3M51233A.D	CAL @ 20 PPB	05/23/14 09:57
3M51234.D	BLK	05/23/14 10:13
3M51235.D	DAILY BLANK	05/23/14 10:30
3M51236.D	DAILY BLANK	05/23/14 10:47
3M51237.D	AC78785-009	05/23/14 11:04
3M51238.D	AC78722-008	05/23/14 11:21
3M51239.D	EF-1-V-186621(052	05/23/14 11:37
3M51240.D	AC78653-005	05/23/14 11:54
3M51241.D	AC78653-003	05/23/14 12:10
3M51242.D	MBS35816	05/23/14 12:27
3M51243.D	MBS35817	05/23/14 12:43
3M51244.D	BLK	05/23/14 13:00
3M51245.D	AC78787-005	05/23/14 13:16
3M51246.D	AC78787-013	05/23/14 13:33
3M51247.D	AC78763-014	05/23/14 13:49
3M51248.D	AC78778-004	05/23/14 14:06
3M51249.D	AC78778-005	05/23/14 14:23
3M51250.D	AC78787-003	05/23/14 14:39
3M51251.D	AC78787-009	05/23/14 14:56
3M51252.D	AC78771-001(0.4u	05/23/14 15:13
3M51253.D	BLK	05/23/14 15:29
3M51254.D	AC78787-011	05/23/14 15:45
3M51255.D	AC78734-004	05/23/14 16:02
3M51256.D	AC78787-016(50X)	05/23/14 16:17
3M51257.D	AC78792-006(80uL	05/23/14 16:34
3M51258.D	AC78763-014(MS)	05/23/14 16:51
3M51259.D	AC78763-014(MSD	05/23/14 17:07
3M51260.D	AC78787-016	05/23/14 17:23
3M51261.D	AC78792-009	05/23/14 17:38
3M51262.D	AC78792-010	05/23/14 17:53
3M51263.D	BLK	05/23/14 18:09
3M51264.D	AC78732-004	05/23/14 18:24
3M51265.D	AC78732-007	05/23/14 18:39
3M51266.D	AC78732-012	05/23/14 18:54
3M51267.D	AC78732-002	05/23/14 19:12
3M51268.D	AC78732-003	05/23/14 19:27
3M51269.D	AC78732-005(MS:	05/23/14 19:42
3M51270.D	AC78732-006(MSD	05/23/14 19:57
3M51271.D	MBS35822	05/23/14 20:13
3M51271A.D	MBS35823	05/23/14 20:28
3M51272.D	BLK	05/23/14 20:44
3M51273.D	AC78791-006	05/23/14 20:59
3M51274.D	AC78793-003	05/23/14 21:14
3M51275.D	AC78797-002	05/23/14 21:30
3M51276.D	AC78800-012	05/23/14 21:45
3M51277.D	AC78800-013	05/23/14 22:01
3M51278.D	AC78809-002	05/23/14 22:16
3M51279.D	AC78809-003	05/23/14 22:31
3M51280.D	AC78807-002	05/23/14 22:47
3M51281.D	AC78807-003	05/23/14 23:02
3M51282.D	AC78808-002	05/23/14 23:17
3M51283.D	AC78808-003	05/23/14 23:33
3M51284.D	AC78805-002	05/23/14 23:49
3M51285.D	AC78805-003	05/24/14 00:04
3M51286.D	BLK	05/24/14 00:20
3M51287.D	BLK	05/24/14 00:35
3M51288.D	MBS35824	05/24/14 00:51
3M51289.D	BLK	05/24/14 01:06
3M51290.D	AC78798-001	05/24/14 01:21

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6

Data File: 6M10507.D
Analysis Date: 05/23/14 16:48
Method: EPA 8260C

Tune Scan/Time Range: Average of 3.876 to 3.905 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	28.0	12491	PASS
75	95	30	60	55.6	24766	PASS
95	95	100	100	100.0	44536	PASS
96	95	5	9	5.6	2511	PASS
173	174	0.00	2	1.8	532	PASS
174	95	50	100	67.5	30046	PASS
175	174	5	9	7.9	2383	PASS
176	174	95	101	95.4	28677	PASS
177	176	5	9	7.8	2231	PASS

Data File	Sample Number	Analysis Date:
6M10508.D	CAL @ 50 PPB	05/23/14 16:58
6M10509.D	BLK	05/23/14 17:20
6M10510.D	DAILY BLANK	05/23/14 17:37
6M10511.D	AC78761-001	05/23/14 17:54
6M10512.D	MBS35820	05/23/14 18:11
6M10513.D	AC78752-001(MS)	05/23/14 18:27
6M10514.D	AC78752-001(MSD	05/23/14 18:44
6M10515.D	AC78680-001	05/23/14 19:01
6M10516.D	AC78680-002	05/23/14 19:17
6M10517.D	AC78680-003	05/23/14 19:34
6M10518.D	AC78680-004	05/23/14 19:50
6M10519.D	AC78680-005	05/23/14 20:07
6M10520.D	AC78769-001	05/23/14 20:24
6M10521.D	AC78769-002	05/23/14 20:40
6M10522.D	AC78769-003	05/23/14 20:57
6M10523.D	AC78769-004	05/23/14 21:14
6M10524.D	AC78800-002	05/23/14 21:30
6M10525.D	AC78800-004	05/23/14 21:47
6M10526.D	AC78800-006	05/23/14 22:04
6M10527.D	BLK	05/23/14 22:20
6M10528.D	AC78744-002	05/23/14 22:37
6M10529.D	AC78744-001	05/23/14 22:54
6M10530.D	MBS35836	05/23/14 23:10
6M10531.D	AC78778-001	05/23/14 23:27
6M10532.D	AC78778-002	05/23/14 23:44
6M10533.D	AC78778-003	05/24/14 00:00
6M10534.D	AC78787-001	05/24/14 00:17
6M10535.D	AC78787-002	05/24/14 00:33
6M10536.D	AC78787-007	05/24/14 00:50
6M10537.D	AC78787-008	05/24/14 01:07
6M10538.D	AC78787-014	05/24/14 01:23
6M10539.D	AC78787-015	05/24/14 01:40
6M10540.D	AC78822-001	05/24/14 01:56
6M10541.D	AC78822-002	05/24/14 02:13
6M10542.D	AC78822-003	05/24/14 02:29

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6

Data File: 6M10591.D
Analysis Date: 05/28/14 07:11
Method: EPA 8260C

Tune Scan/Time Range: Average of 3.896 to 3.925 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	23.4	10210	PASS
75	95	30	60	45.4	19767	PASS
95	95	100	100	100.0	43578	PASS
96	95	5	9	6.7	2921	PASS
173	174	0.00	2	0.5	134	PASS
174	95	50	100	63.1	27512	PASS
175	174	5	9	7.1	1946	PASS
176	174	95	101	98.6	27129	PASS
177	176	5	9	7.0	1903	PASS

Data File	Sample Number	Analysis Date:
6M10594.D	CAL @ 50 PPB	05/28/14 07:46
6M10595.D	BLK	05/28/14 08:02
6M10596.D	DAILY BLANK	05/28/14 08:19
6M10597.D	MBS35844	05/28/14 08:35
6M10598.D	AC78778-001(MS)	05/28/14 08:52
6M10599.D	AC78778-001(MSD	05/28/14 09:09
6M10600.D	MBS35856	05/28/14 09:29
6M10601.D	AC78778-002(MS)	05/28/14 09:46
6M10602.D	AC78778-002(MSD	05/28/14 10:03
6M10603.D	BLK	05/28/14 10:19
6M10604.D	AC78818-001	05/28/14 10:36
6M10605.D	AC78787-019	05/28/14 10:53
6M10606.D	AC78787-018	05/28/14 11:09
6M10607.D	BLK	05/28/14 11:26
6M10608.D	AC78848-001	05/28/14 11:42
6M10609.D	AC78848-003	05/28/14 12:01
6M10610.D	AC78848-006	05/28/14 12:20
6M10611.D	AC78848-009	05/28/14 12:37
6M10612.D	AC78848-002	05/28/14 12:54
6M10613.D	BLK	05/28/14 13:10
6M10614.D	AC78848-012	05/28/14 13:27
6M10615.D	AC78848-016	05/28/14 13:44
6M10616.D	AC78848-020	05/28/14 14:00
6M10617.D	AC78848-023	05/28/14 14:17
6M10618.D	AC78848-015	05/28/14 14:34
6M10619.D	AC78848-017	05/28/14 14:50
6M10620.D	AC78848-018	05/28/14 15:07
6M10621.D	MBS35857	05/28/14 15:24
6M10622.D	AC78778-003(MS)	05/28/14 15:40
6M10623.D	AC78778-003(MSD	05/28/14 15:57
6M10624.D	BLK	05/28/14 16:13
6M10625.D	AC78848-027	05/28/14 16:30
6M10626.D	AC78848-030	05/28/14 16:48
6M10627.D	AC78848-010	05/28/14 17:08
6M10628.D	AC78848-011	05/28/14 17:24
6M10629.D	AC78848-005	05/28/14 17:41
6M10630.D	AC78816-002	05/28/14 17:57
6M10631.D	AC78871-001	05/28/14 18:14
6M10632.D	AC78871-002	05/28/14 18:31
6M10633.D	AC78825-001	05/28/14 18:47
6M10634.D	AC78825-002	05/28/14 19:04
6M10635.D	78866-002	05/28/14 19:20
6M10636.D	78866-001	05/28/14 19:37
6M10637.D	BLK	05/28/14 19:53
6M10638.D	BLK	05/28/14 20:10
6M10639.D	BLK	05/28/14 20:27

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6

Data File: 6M10645.D
Analysis Date: 05/29/14 06:42
Method: EPA 8260C

Tune Scan/Time Range: Average of 3.880 to 3.900 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	28.4	6405	PASS
75	95	30	60	56.0	12605	PASS
95	95	100	100	100.0	22519	PASS
96	95	5	9	8.8	1992	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	59.5	13408	PASS
175	174	5	9	8.8	1174	PASS
176	174	95	101	96.3	12908	PASS
177	176	5	9	6.3	811	PASS

Data File	Sample Number	Analysis Date:
6M10647.D	CAL @ 50 PPB	05/29/14 07:08
6M10649.D	DAILY BLANK	05/29/14 07:42
6M10650.D	MBS35858	05/29/14 07:58
6M10651.D	AC78866-001(MS)	05/29/14 08:15
6M10652.D	AC78866-001(MSD	05/29/14 08:31
6M10653.D	BLK	05/29/14 08:48
6M10654.D	AC78866-001	05/29/14 09:05
6M10655.D	AC78866-002	05/29/14 09:22
6M10656.D	AC78820-004	05/29/14 09:39
6M10657.D	AC78820-013	05/29/14 09:55
6M10658.D	BLK	05/29/14 10:12
6M10659.D	AC78854-001	05/29/14 10:29
6M10660.D	AC78854-017	05/29/14 10:45
6M10661.D	AC78854-006	05/29/14 11:02
6M10662.D	AC78854-014	05/29/14 11:19
6M10663.D	AC78800-006	05/29/14 11:35
6M10664.D	BLK	05/29/14 11:52
6M10665.D	AC78873-004	05/29/14 12:09
6M10666.D	AC78873-005	05/29/14 12:25
6M10667.D	AC78787-020	05/29/14 12:42
6M10668.D	AC78787-022	05/29/14 12:59
6M10669.D	BLK	05/29/14 13:19
6M10670.D	AC78861-003	05/29/14 13:35
6M10671.D	AC78861-005	05/29/14 13:52
6M10672.D	MBS35871	05/29/14 14:08
6M10673.D	AC78787-023	05/29/14 14:25
6M10674.D	AC78861-006	05/29/14 14:42
6M10675.D	AC78861-009	05/29/14 15:00
6M10676.D	AC78793-002	05/29/14 15:17
6M10677.D	AC78861-011	05/29/14 15:34
6M10678.D	AC78861-012	05/29/14 15:50
6M10679.D	AC78861-013	05/29/14 16:07
6M10680.D	AC78861-014	05/29/14 16:24
6M10681.D	AC78861-015	05/29/14 16:43
6M10682.D	AC78861-016	05/29/14 16:59
6M10683.D	AC78861-017	05/29/14 17:16
6M10684.D	AC78861-008	05/29/14 17:33
6M10685.D	AC78787-024	05/29/14 17:49
6M10686.D	AC78787-025	05/29/14 18:06
6M10687.D	AC78787-026	05/29/14 18:22
6M10688.D	AC78787-021	05/29/14 18:39
6M10689.D	BLK	05/29/14 18:55
6M10690.D	BLK	05/29/14 19:12
6M10691.D	BLK	05/29/14 19:28

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M10304.D Method: EPA 8260C

Analysis Date/Time: 05/19/14 15:42

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	236203	4.47	122690	6.03	67612	7.26						
Eval File Area Limit:	118102-472406		61345-245380		33806-135224							
Eval File Rt Limit:	3.97-4.97		5.53-6.53		6.76-7.76							

Data File	Sample												
6M10286.D	BLK	174450	4.46	111080	6.03	54879	7.26						
6M10287.D	BLK	228304	4.46	124395	6.03	51221	7.25						
6M10288.D	CAL @ 0.5 PF	209084	4.46	113219	6.03	54289	7.25						
6M10289.D	CAL @ 1 PPB	217458	4.47	111883	6.03	57455	7.26						
6M10290.D	2 PPB	0 A	0.00 R	70 A	6.04	359 A	7.40						
6M10291.D	5 PPB	184903	4.46	115732	6.03	60019	7.25						
6M10292.D	20 PPB	33841 A	4.46	14647 A	6.03	4643 A	7.25						
6M10293.D	CAL @ 50 PP	230085	4.47	124940	6.03	60170	7.25						
6M10294.D	CAL @ 100 P	233845	4.46	117399	6.03	62454	7.25						
6M10295.D	BLK	222785	4.47	116675	6.03	58280	7.26						
6M10296.D	CAL @ 250 P	235183	4.46	134465	6.03	71112	7.25						
6M10297.D	BLK	192800	4.47	122180	6.04	64755	7.26						
6M10298.D	CAL @ 500 P	237034	4.46	135686	6.03	63586	7.25						
6M10299.D	BLK	204054	4.47	121398	6.03	56000	7.25						
6M10300.D	BLK	214526	4.47	122806	6.03	62229	7.26						
6M10301.D	BLK	156509	4.47	81818	6.03	46331	7.26						
6M10302.D	CAL @ 2 PPB	198718	4.47	108050	6.03	54880	7.26						
6M10303.D	CAL @ 5 PPB	224541	4.47	119137	6.03	60872	7.26						
6M10304.D	CAL @ 20 PP	236203	4.47	122690	6.03	67612	7.26						
6M10305.D	ICV	230603	4.47	110994	6.03	62013	7.25						
6M10306.D	BLK	205941	4.47	109786	6.03	54627	7.26						
6M10307.D	DAILY BLANK	200774	4.47	113199	6.03	53646	7.26						
6M10308.D	AC78623-010	203863	4.47	112798	6.03	46361	7.26						
6M10309.D	AC78682-003	202729	4.46	82435	6.03	34545	7.28						
6M10310.D	MBS35788	182097	4.47	100605	6.03	58989	7.26						
6M10311.D	BLK	170666	4.47	97198	6.04	49903	7.26						
6M10312.D	AC78682-003	202214	4.47	104867	6.03	32257 A	7.26						
6M10313.D	AC78741-002	201465	4.47	107346	6.03	62869	7.26						
6M10314.D	AC78741-003	201289	4.47	114705	6.03	56358	7.26						
6M10315.D	AC78741-004	218985	4.47	113087	6.03	56584	7.26						
6M10316.D	AC78741-005	195674	4.47	100346	6.03	59511	7.26						
6M10317.D	AC78741-006	189214	4.48	95780	6.04	49402	7.26						
6M10318.D	AC78741-007	202755	4.47	112919	6.03	49431	7.26						
6M10319.D	AC78741-008	198813	4.47	95924	6.03	43648	7.26						
6M10320.D	AC78741-001	189872	4.47	98347	6.03	46342	7.26						
6M10321.D	AC78679-002	200516	4.47	104514	6.03	50054	7.26						
6M10322.D	AC78677-004	128754	4.47	78861	6.03	42696	7.26						
6M10323.D	AC78677-003	187644	4.47	104760	6.03	56568	7.26						
6M10324.D	AC78671-005	187924	4.47	102910	6.03	42412	7.26						
6M10325.D	AC78694-001	190687	4.47	103947	6.03	47366	7.26						
6M10326.D	STD	194727	4.46	120350	6.03	62538	7.25						
6M10327.D	BLK	188553	4.47	101368	6.03	48039	7.26						
6M10328.D	BLK	190231	4.47	109855	6.03	45043	7.26						
6M10329.D	BLK	190102	4.47	83883	6.03	45437	7.26						
6M10330.D	BLK	191452	4.48	98414	6.04	41607	7.27						
6M10331.D	BLK	188460	4.47	94717	6.03	49480	7.26						

I1 =	Fluorobenzene	I4 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =	624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =	524 Internal Standard concentration =5ug/L

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M51163.D Method: EPA 8260C

Analysis Date/Time: 05/21/14 13:26

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	317086	4.40	259333	6.21	142022	7.62						
Eval File Area Limit:	158543-634172		129666-518666		71011-284044							
Eval File Rt Limit:	3.9-4.9		5.71-6.71		7.12-8.12							

Data File	Sample												
3M51154.D	BLK	310374	4.40	248855	6.20	140479	7.62						
3M51155.D	20 PPB	310971	4.40	250582	6.20	142699	7.62						
3M51156.D	20 PPB	163095	4.40	123560	6.20	72246	7.62						
3M51157.D	BLK	13129	4.27	0	0.00	0	0.00						
3M51159.D	CAL @ 0.5 PF	299796	4.40	222161	6.20	130354	7.62						
3M51160.D	CAL @ 1 PPB	312165	4.40	236798	6.20	130777	7.62						
3M51161.D	CAL @ 5 PPB	304458	4.40	241728	6.20	135889	7.62						
3M51162.D	CAL @ 10 PP	315243	4.40	245081	6.21	131293	7.62						
3M51163.D	CAL @ 20 PP	317086	4.40	259333	6.21	142022	7.62						
3M51164.D	BLK	304911	4.40	234188	6.21	134137	7.62						
3M51165.D	CAL @ 50 PP	311847	4.40	257742	6.20	142166	7.62						
3M51166.D	BLK	309851	4.40	234677	6.21	137429	7.62						
3M51167.D	CAL @ 100 P	316219	4.40	250049	6.20	149401	7.62						
3M51168.D	BLK	306535	4.40	224751	6.20	128982	7.63						
3M51169.D	BLK	308464	4.41	238521	6.21	126384	7.63						
3M51170.D	CAL @ 250 P	314796	4.40	258739	6.21	147816	7.62						
3M51171.D	BLK	304349	4.40	250249	6.21	134069	7.62						
3M51172.D	CAL @ 500 P	311621	4.40	242715	6.20	137707	7.62						
3M51173.D	BLK	291317	4.40	242085	6.20	136149	7.62						
3M51174.D	BLK	292761	4.40	252215	6.20	128407	7.62						
3M51175.D	BLK	300422	4.41	230651	6.21	125043	7.63						
3M51176.D	ICV	300781	4.41	253757	6.22	141846	7.64						
3M51177.D	ICV	298643	4.40	247113	6.21	139209	7.62						
3M51178.D	BLK	297443	4.41	229494	6.21	125889	7.62						
3M51179.D	BLK	285819	4.40	240467	6.21	123834	7.63						
3M51180.D	BLK	302913	4.41	235515	6.21	121543	7.62						
3M51181.D	MBS35803	297413	4.40	248334	6.21	136974	7.62						
3M51182.D	MBS35804	303740	4.40	226339	6.21	146971	7.64						
3M51183.D	MBS35805	114544 A	4.35	98278 A	6.20	70194 A	7.64						

I1 =	Fluorobenzene	I4 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =	624/8260 Internal Standard concentration = 30ug/L
I3 =	1.4-Dichlorobenzene-d4	I6 =	524 Internal Standard concentration =5ug/L

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M51187.D Method: EPA 8260C

Analysis Date/Time: 05/22/14 09:52

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	289851	4.40	239823	6.20	148988	7.62						
Eval File Area Limit:	144926-579702		119912-479646		74494-297976							
Eval File Rt Limit:	3.9-4.9		5.7-6.7		7.12-8.12							

Data File	Sample											
3M51186.D	BLK	261957	4.40	194976	6.21	126276	7.63					
3M51188.D	20 PPB	294116	4.41	237626	6.22	133557	7.63					
3M51189.D	BLK	279256	4.40	230168	6.21	124323	7.63					
3M51190.D	DAILY BLANK	276491	4.40	211166	6.21	118594	7.63					
3M51191.D	DAILY BLANK	279224	4.41	224192	6.21	120923	7.63					
3M51192.D	AC78746-004	224367	4.41	176062	6.21	112337	7.63					
3M51193.D	AC78746-001	290397	4.41	230126	6.21	132444	7.63					
3M51194.D	MBS35809	273248	4.40	227475	6.21	123334	7.63					
3M51195.D	MBS35810	286340	4.41	229783	6.21	134191	7.63					
3M51196.D	AC78707-001	280243	4.41	231002	6.21	126650	7.63					
3M51197.D	AC78707-002	290917	4.41	234828	6.21	130003	7.63					
3M51198.D	AC78707-003	307800	4.41	243430	6.22	128345	7.64					
3M51199.D	AC78707-004	293264	4.41	233891	6.21	130674	7.63					
3M51200.D	AC78747-001	288579	4.41	230917	6.22	120305	7.63					
3M51201.D	EF-1-V-18662	285280	4.41	231469	6.21	126766	7.63					
3M51202.D	AC78707-003	280734	4.41	229856	6.22	115777	7.63					
3M51204.D	AC78748-001	289954	4.41	216686	6.22	116648	7.63					
3M51205.D	AC78707-002	283642	4.41	226928	6.21	122930	7.64					
3M51206.D	AC78746-002	277058	4.41	221287	6.21	116356	7.64					
3M51207.D	AC78746-003	287178	4.41	231212	6.21	129521	7.63					
3M51208.D	AC78746-005	288686	4.41	221930	6.22	126009	7.63					
3M51209.D	AC78746-006	297461	4.41	239906	6.22	134011	7.64					
3M51210.D	AC78746-006	295498	4.41	242520	6.22	141294	7.64					
3M51211.D	AC78724-001	302092	4.41	243296	6.22	140601	7.64					
3M51212.D	AC78746-002	289864	4.41	239384	6.22	131809	7.63					
3M51213.D	BLK	294280	4.41	244603	6.22	137304	7.63					
3M51219.D	AC78762-001	288091	4.41	243447	6.22	130457	7.63					
3M51220.D	AC78747-001	293243	4.41	239803	6.22	127564	7.63					
3M51221.D	AC78747-001	282539	4.41	232427	6.21	130859	7.63					
3M51222.D	BLK	294776	4.41	234687	6.21	129281	7.63					
3M51223.D	BLK	292808	4.41	227082	6.21	120743	7.63					
3M51227.D	AC78734-002	293592	4.41	243219	6.21	131676	7.63					
3M51228.D	AC78734-002	292082	4.41	236917	6.21	130046	7.63					
3M51229.D	MBS35814	291621	4.41	243390	6.21	138393	7.63					

I1 =	Fluorobenzene	I4 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =	624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =	524 Internal Standard concentration =5ug/L

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M51233A.D Method: EPA 8260C

Analysis Date/Time: 05/23/14 09:57

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	291995	4.40	232429	6.20	136877	7.63						
Eval File Area Limit:	145998-583990		116214-464858		68438-273754							
Eval File Rt Limit:	3.9-4.9		5.7-6.7		7.13-8.13							

Data File	Sample						
3M51232.D	BLK	306701	4.40	230395	6.20	124474	7.63
3M51233.D	20 PPB	281378	4.40	235590	6.20	144048	7.63
3M51234.D	BLK	284240	4.40	233923	6.21	125432	7.63
3M51235.D	DAILY BLANK	271478	4.40	221796	6.20	124897	7.63
3M51236.D	DAILY BLANK	283259	4.40	220590	6.21	132724	7.63
3M51239.D	EF-1-V-18662	281157	4.40	235992	6.21	120636	7.63
3M51240.D	AC78653-005	262193	4.40	215500	6.21	124255	7.63
3M51241.D	AC78653-003	275664	4.40	230329	6.21	117504	7.63
3M51242.D	MBS35816	271816	4.40	227845	6.21	130723	7.63
3M51243.D	MBS35817	289809	4.41	238661	6.21	135428	7.63
3M51244.D	BLK	269733	4.41	221897	6.21	122908	7.63
3M51245.D	AC78787-005	280296	4.41	220642	6.21	120801	7.63
3M51246.D	AC78787-013	274636	4.41	232118	6.21	121307	7.63
3M51248.D	AC78778-004	275352	4.41	225808	6.21	124800	7.63
3M51249.D	AC78778-005	276919	4.41	223244	6.21	121318	7.63
3M51250.D	AC78787-003	273421	4.41	216405	6.21	126896	7.63
3M51251.D	AC78787-009	286320	4.41	224761	6.21	121349	7.63
3M51252.D	AC78771-001(	269350	4.41	226727	6.21	123379	7.63
3M51253.D	BLK	285360	4.41	231935	6.21	122336	7.63
3M51254.D	AC78787-011	278025	4.41	221315	6.21	121742	7.63
3M51256.D	AC78787-016(	284767	4.41	222914	6.22	121479	7.63
3M51257.D	AC78792-006(	286629	4.41	240128	6.22	130782	7.63
3M51258.D	AC78763-014(	281626	4.41	223935	6.22	130205	7.63
3M51259.D	AC78763-014(	290436	4.41	242802	6.21	132121	7.63
3M51260.D	AC78787-016	289498	4.41	226840	6.21	126745	7.63
3M51261.D	AC78792-009	287086	4.41	243656	6.22	123809	7.64
3M51262.D	AC78792-010	283226	4.41	219994	6.21	125276	7.63
3M51263.D	BLK	294436	4.41	224039	6.21	125449	7.63
3M51269.D	AC78732-005(	289931	4.41	228872	6.21	123961	7.62
3M51270.D	AC78732-006(	280650	4.41	234673	6.21	121232	7.63
3M51271.D	MBS35822	295490	4.41	227454	6.22	124926	7.63
3M51271A.	MBS35823	298301	4.41	227365	6.21	124225	7.63
3M51272.D	BLK	280660	4.41	221738	6.22	116221	7.63
3M51286.D	BLK	267622	4.41	206257	6.21	109281	7.63
3M51287.D	BLK	282581	4.41	209107	6.21	111965	7.63
3M51288.D	MBS35824	286059	4.40	213537	6.21	115161	7.63
3M51289.D	BLK	276882	4.41	202865	6.21	105582	7.63

I1 =	Fluorobenzene	I4 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =	624/8260 Internal Standard concentration = 30ug/L
I3 =	1.4-Dichlorobenzene-d4	I6 =	524 Internal Standard concentration =5ug/L

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M10508.D Method: EPA 8260C

Analysis Date/Time: 05/23/14 16:58

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	165026	4.48	107082	6.03	63589	7.26						
Eval File Area Limit:	82513-330052		53541-214164		31794-127178							
Eval File Rt Limit:	3.98-4.98		5.53-6.53		6.76-7.76							

Data File	Sample											
6M10509.D	BLK	161156	4.47	111239	6.03	59258	7.26					
6M10510.D	DAILY BLANK	194050	4.48	104946	6.03	48823	7.26					
6M10511.D	AC78761-001	202187	4.48	108142	6.04	51347	7.27					
6M10512.D	MBS35820	207454	4.48	119122	6.03	61080	7.26					
6M10513.D	AC78752-001(	222572	4.48	117275	6.04	66620	7.26					
6M10514.D	AC78752-001(	204783	4.47	123824	6.03	66140	7.26					
6M10515.D	AC78680-001	193561	4.48	105135	6.03	58032	7.27					
6M10516.D	AC78680-002	187821	4.48	111860	6.03	51680	7.27					
6M10517.D	AC78680-003	188400	4.48	108839	6.04	47411	7.26					
6M10518.D	AC78680-004	198171	4.48	106999	6.04	52122	7.26					
6M10519.D	AC78680-005	193227	4.48	105363	6.03	51681	7.26					
6M10520.D	AC78769-001	195875	4.47	111946	6.04	48270	7.26					
6M10521.D	AC78769-002	188190	4.48	100599	6.04	46609	7.26					
6M10522.D	AC78769-003	176698	4.47	101340	6.03	46769	7.26					
6M10523.D	AC78769-004	192986	4.48	108717	6.03	49361	7.26					
6M10524.D	AC78800-002	203081	4.47	113605	6.03	60576	7.26					
6M10525.D	AC78800-004	221623	4.47	120953	6.04	55831	7.26					
6M10526.D	AC78800-006	188392	4.47	118759	6.03	64562	7.26					
6M10527.D	BLK	186399	4.47	98350	6.03	46834	7.26					
6M10528.D	AC78744-002	166609	4.48	109082	6.04	53853	7.27					
6M10529.D	AC78744-001	174731	4.47	113700	6.03	53867	7.26					
6M10530.D	MBS35836	206160	4.47	111275	6.03	61234	7.26					
6M10531.D	AC78778-001	175427	4.48	111123	6.03	51794	7.26					
6M10532.D	AC78778-002	180851	4.48	101965	6.04	49653	7.27					
6M10533.D	AC78778-003	182284	4.47	105685	6.04	48709	7.26					
6M10534.D	AC78787-001	186739	4.47	98143	6.03	48924	7.27					
6M10535.D	AC78787-002	197296	4.48	102416	6.04	46631	7.27					
6M10536.D	AC78787-007	172712	4.47	99390	6.03	40576	7.27					
6M10537.D	AC78787-008	180622	4.48	106289	6.03	42458	7.26					
6M10538.D	AC78787-014	191127	4.47	104483	6.03	41077	7.26					
6M10539.D	AC78787-015	201540	4.47	105483	6.03	46696	7.27					
6M10540.D	AC78822-001	185863	4.48	105665	6.04	48341	7.26					
6M10541.D	AC78822-002	172927	4.47	103456	6.03	41061	7.26					
6M10542.D	AC78822-003	189422	4.48	93077	6.03	44573	7.26					

I1 =	Fluorobenzene	I4 =	625/8270 Internal Standard concentration = 40 me/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =	624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =	524 Internal Standard concentration =5ug/L

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M10594.D Method: EPA 8260C

Analysis Date/Time: 05/28/14 07:46

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	179721	4.47	109414	6.03	58136	7.26						
Eval File Area Limit:	89860-359442		54707-218828		29068-116272							
Eval File Rt Limit:	3.97-4.97		5.53-6.53		6.76-7.76							

Data File	Sample											
6M10595.D	BLK	176251	4.48	103204	6.04	55422	7.27					
6M10596.D	DAILY BLANK	182137	4.47	99940	6.03	45318	7.26					
6M10597.D	MBS35844	182795	4.47	100355	6.03	54038	7.26					
6M10598.D	AC78778-001	191648	4.47	112217	6.03	58505	7.26					
6M10599.D	AC78778-001	195720	4.47	116431	6.03	55152	7.26					
6M10600.D	MBS35856	174885	4.47	104811	6.03	58233	7.26					
6M10601.D	AC78778-002	201241	4.47	107719	6.03	51913	7.26					
6M10602.D	AC78778-002	195542	4.47	105347	6.03	57233	7.26					
6M10603.D	BLK	178211	4.47	107402	6.03	50774	7.26					
6M10604.D	AC78818-001	36508 A	4.47	2309 A	6.04	187 A	7.13					
6M10605.D	AC78787-019	154371	4.47	97446	6.03	39530	7.27					
6M10606.D	AC78787-018	143673	4.47	99950	6.03	67104	7.26					
6M10607.D	BLK	188293	4.47	104113	6.03	52404	7.26					
6M10608.D	AC78848-001	171000	4.47	101223	6.03	45641	7.26					
6M10609.D	AC78848-003	140622	4.47	89318	6.03	47609	7.26					
6M10610.D	AC78848-006	143349	4.47	96135	6.03	42391	7.26					
6M10611.D	AC78848-009	167637	4.48	99324	6.04	43322	7.26					
6M10612.D	AC78848-002	181221	4.47	110394	6.03	44951	7.26					
6M10613.D	BLK	170486	4.47	103276	6.03	50279	7.26					
6M10614.D	AC78848-012	157817	4.47	84003	6.03	41407	7.26					
6M10615.D	AC78848-016	166742	4.47	97011	6.03	43896	7.26					
6M10616.D	AC78848-020	164644	4.47	102350	6.03	46916	7.26					
6M10617.D	AC78848-023	166606	4.47	101507	6.03	45517	7.26					
6M10618.D	AC78848-015	172736	4.47	104675	6.03	51191	7.26					
6M10619.D	AC78848-017	175205	4.47	102601	6.03	46254	7.26					
6M10620.D	AC78848-018	179702	4.47	104318	6.03	47444	7.26					
6M10621.D	MBS35857	178846	4.47	104678	6.03	52625	7.26					
6M10622.D	AC78778-003	186070	4.47	105603	6.03	58490	7.26					
6M10623.D	AC78778-003	194854	4.47	112140	6.03	60485	7.25					
6M10624.D	BLK	151545	4.47	86449	6.03	44248	7.26					
6M10625.D	AC78848-027	168098	4.47	86454	6.03	44999	7.26					
6M10626.D	AC78848-030	140548	4.47	95139	6.03	48812	7.26					
6M10627.D	AC78848-010	163233	4.46	103591	6.03	43657	7.26					
6M10628.D	AC78848-011	181024	4.47	97638	6.03	45277	7.26					
6M10629.D	AC78848-005	184308	4.47	107449	6.03	46434	7.26					
6M10630.D	AC78816-002	166128	4.48	100671	6.04	39370	7.26					
6M10631.D	AC78871-001	155518	4.47	91149	6.03	41133	7.26					
6M10632.D	AC78871-002	162175	4.47	84489	6.03	39878	7.26					
6M10633.D	AC78825-001	163117	4.47	90269	6.03	42642	7.26					
6M10634.D	AC78825-002	185085	4.47	99404	6.03	51412	7.25					
6M10635.D	78866-002	158357	4.47	96254	6.03	38694	7.26					
6M10636.D	78866-001	165619	4.47	97818	6.03	38645	7.26					
6M10637.D	BLK	164605	4.47	87126	6.03	47431	7.26					
6M10638.D	BLK	147582	4.47	86548	6.03	38838	7.26					
6M10639.D	BLK	167549	4.46	91183	6.03	42248	7.26					

I1 =	Fluorobenzene	I4 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =	624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =	524 Internal Standard concentration =5ug/L

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M10647.D Method: EPA 8260C

Analysis Date/Time: 05/29/14 07:08

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	173184	4.46	108786	6.03	54377	7.25						
Eval File Area Limit:	86592-346368		54393-217572		27188-108754							
Eval File Rt Limit:	3.96-4.96		5.53-6.53		6.75-7.75							

Data File	Sample											
6M10649.D	DAILY BLANK	171551	4.46	95167	6.03	43255	7.26					
6M10650.D	MBS35858	164813	4.46	95558	6.03	49360	7.25					
6M10651.D	AC78866-001(	193525	4.46	105178	6.03	54683	7.25					
6M10652.D	AC78866-001(	184665	4.46	100215	6.03	55554	7.25					
6M10653.D	BLK	168687	4.46	94023	6.03	48636	7.26					
6M10654.D	AC78866-001	156233	4.46	98429	6.03	45968	7.26					
6M10655.D	AC78866-002	159808	4.46	86169	6.03	38105	7.26					
6M10656.D	AC78820-004	151684	4.46	91623	6.03	49598	7.25					
6M10657.D	AC78820-013	148750	4.46	92258	6.03	41665	7.25					
6M10658.D	BLK	137530	4.46	82121	6.03	37929	7.25					
6M10659.D	AC78854-001	159213	4.46	92024	6.03	40843	7.26					
6M10660.D	AC78854-017	160380	4.46	93630	6.03	39423	7.25					
6M10661.D	AC78854-006	166364	4.46	94613	6.03	44294	7.26					
6M10662.D	AC78854-014	167183	4.46	97281	6.03	38336	7.25					
6M10663.D	AC78800-006	183334	4.46	103006	6.03	51421	7.26					
6M10664.D	BLK	151816	4.46	90556	6.03	40473	7.25					
6M10665.D	AC78873-004	160680	4.46	91597	6.03	41918	7.26					
6M10666.D	AC78873-005	158663	4.46	92788	6.03	38046	7.26					
6M10667.D	AC78787-020	157905	4.46	83573	6.03	40061	7.26					
6M10668.D	AC78787-022	158579	4.46	93126	6.03	40281	7.26					
6M10669.D	BLK	125344	4.48	90943	6.04	41929	7.27					
6M10670.D	AC78861-003	148899	4.46	83480	6.03	38987	7.25					
6M10671.D	AC78861-005	162130	4.46	88940	6.03	46855	7.26					
6M10672.D	MBS35871	164966	4.46	90765	6.03	52653	7.25					
6M10673.D	AC78787-023	159504	4.46	85714	6.03	42844	7.26					
6M10674.D	AC78861-006	160316	4.46	95513	6.03	39093	7.26					
6M10675.D	AC78861-009	141607	4.46	82375	6.03	45108	7.26					
6M10676.D	AC78793-002	160633	4.46	102991	6.03	37723	7.26					
6M10677.D	AC78861-011	187618	4.46	111061	6.03	46142	7.25					
6M10678.D	AC78861-012	168209	4.47	92453	6.03	44865	7.26					
6M10679.D	AC78861-013	158671	4.46	92707	6.03	44365	7.26					
6M10680.D	AC78861-014	179718	4.46	96998	6.03	49668	7.25					
6M10681.D	AC78861-015	137357	4.46	86752	6.03	40703	7.26					
6M10682.D	AC78861-016	157970	4.46	90069	6.03	43662	7.26					
6M10683.D	AC78861-017	179254	4.46	94972	6.03	38662	7.26					
6M10684.D	AC78861-008	183472	4.47	91200	6.03	49072	7.26					
6M10685.D	AC78787-024	167944	4.46	88211	6.03	39676	7.25					
6M10686.D	AC78787-025	159531	4.46	87659	6.03	40128	7.26					
6M10687.D	AC78787-026	165354	4.47	93742	6.03	42980	7.26					
6M10688.D	AC78787-021	154725	4.47	82271	6.03	42848	7.26					
6M10689.D	BLK	144346	4.46	77715	6.03	36141	7.26					
6M10690.D	BLK	163087	4.46	89596	6.03	37054	7.26					
6M10691.D	BLK	157493	4.47	94439	6.03	37086	7.26					

I1 =	Fluorobenzene	I4 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =	624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =	524 Internal Standard concentration =5ug/L

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

GC/MS Volatile Data
Sample Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-001
Client Id: EXT1(0-2')
Data File: 6M10534.D
Analysis Date: 05/24/14 00:17
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.02g
Final Vol: NA
Dilution: 0.996
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0024	U	56-23-5	Carbon Tetrachloride	0.0024	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0024	U	108-90-7	Chlorobenzene	0.0024	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0024	U	75-00-3	Chloroethane	0.0024	U
79-00-5	1,1,2-Trichloroethane	0.0024	U	67-66-3	Chloroform	0.0024	U
75-34-3	1,1-Dichloroethane	0.0024	U	74-87-3	Chloromethane	0.0024	U
75-35-4	1,1-Dichloroethene	0.0024	U	156-59-2	cis-1,2-Dichloroethene	0.0024	U
87-61-6	1,2,3-Trichlorobenzene	0.0024	U	10061-01-5	cis-1,3-Dichloropropene	0.0024	U
120-82-1	1,2,4-Trichlorobenzene	0.0024	U	110-82-7	Cyclohexane	0.0024	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0024	U	124-48-1	Dibromochloromethane	0.0024	U
106-93-4	1,2-Dibromoethane	0.0024	U	75-71-8	Dichlorodifluoromethane	0.0024	U
95-50-1	1,2-Dichlorobenzene	0.0024	U	100-41-4	Ethylbenzene	0.0012	U
107-06-2	1,2-Dichloroethane	0.0024	U	98-82-8	Isopropylbenzene	0.0012	U
78-87-5	1,2-Dichloropropane	0.0024	U	136777612	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0024	U	79-20-9	Methyl Acetate	0.0024	U
106-46-7	1,4-Dichlorobenzene	0.0024	U	108-87-2	Methylcyclohexane	0.0024	U
123-91-1	1,4-Dioxane	0.12	U	**75-09-2**	**Methylene Chloride**	**0.0024**	**0.0034**
78-93-3	2-Butanone	0.0024	U	1634-04-4	Methyl-t-butyl ether	0.0012	U
591-78-6	2-Hexanone	0.0024	U	95-47-6	o-Xylene	0.0012	U
108-10-1	4-Methyl-2-Pentanone	0.0024	U	100-42-5	Styrene	0.0024	U
67-64-1	Acetone	0.012	U	127-18-4	Tetrachloroethene	0.0024	U
71-43-2	Benzene	0.0012	U	108-88-3	Toluene	0.0012	U
74-97-5	Bromochloromethane	0.0024	U	156-60-5	trans-1,2-Dichloroethene	0.0024	U
75-27-4	Bromodichloromethane	0.0024	U	10061-02-6	trans-1,3-Dichloropropene	0.0024	U
75-25-2	Bromoform	0.0024	U	79-01-6	Trichloroethene	0.0024	U
74-83-9	Bromomethane	0.0024	U	75-69-4	Trichlorofluoromethane	0.0024	U
75-15-0	Carbon Disulfide	0.0024	U	75-01-4	Vinyl Chloride	0.0024	U
1330-20-7	Xylenes (Total)	0.0012	U				

Worksheet #: 304422

Total Target Concentration 0.0034

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

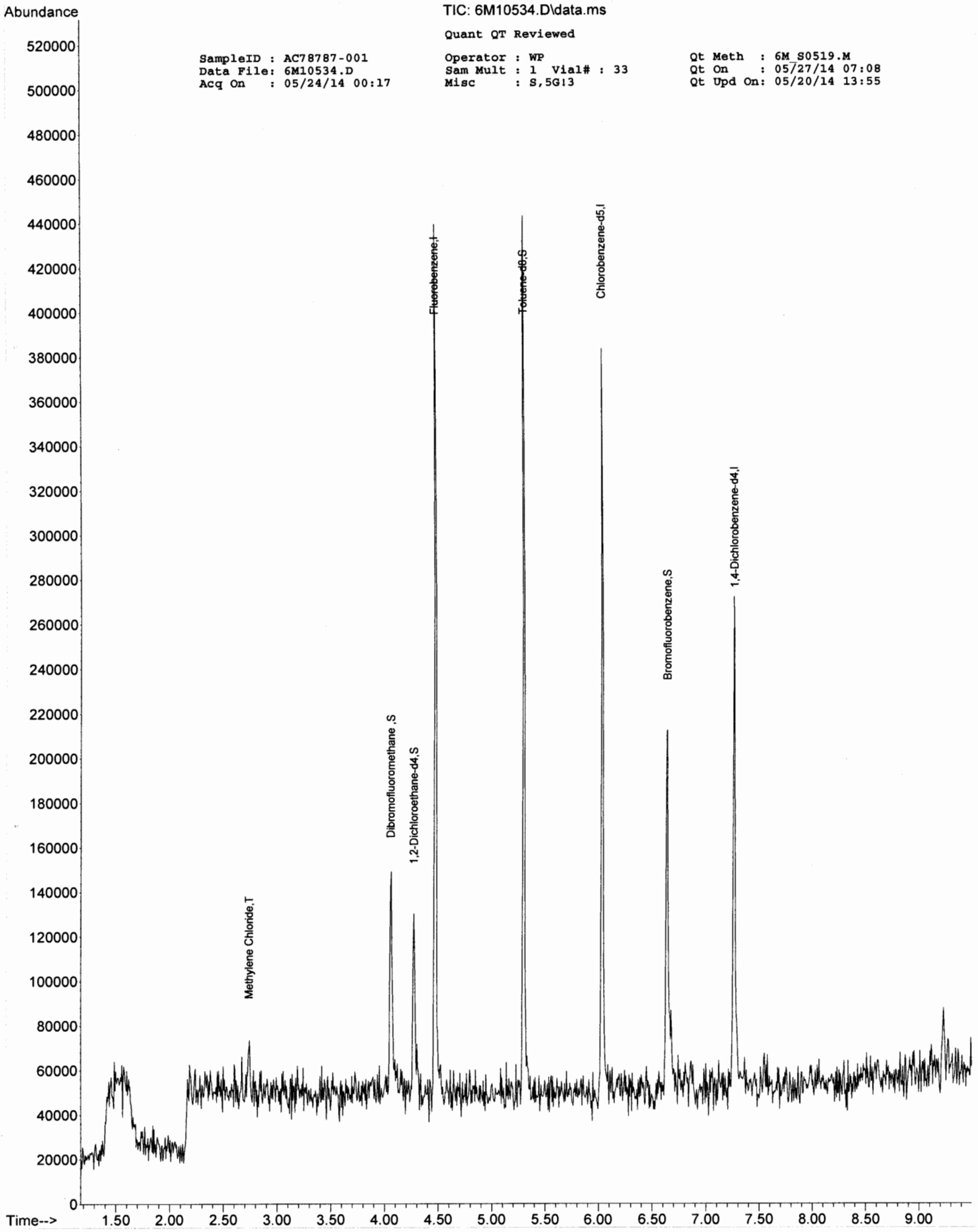
4052101 0274

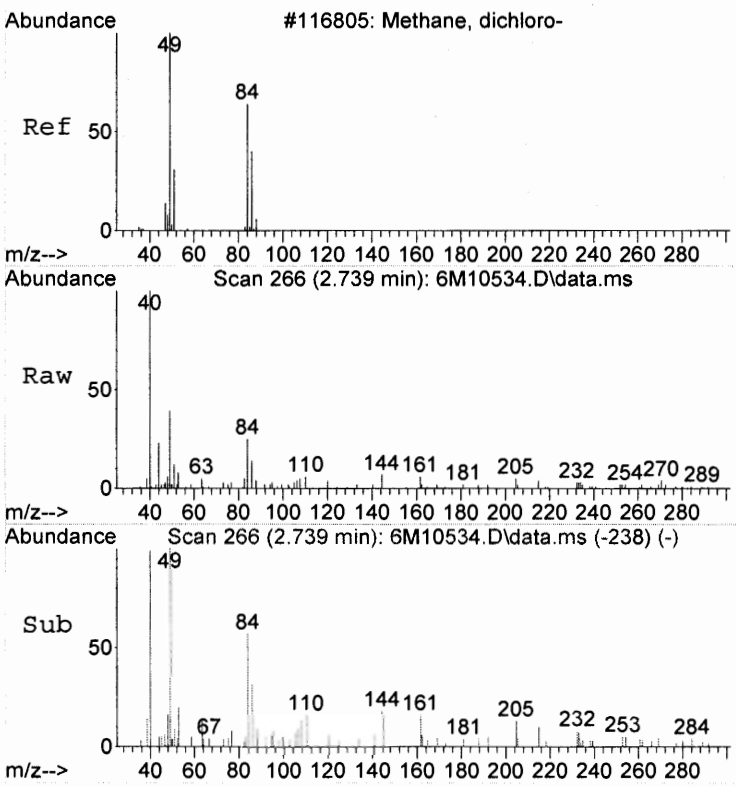
SampleID : AC78787-001 Operator : WP Qt Meth : 6M_S0519.M
Data File: 6M10534.D Sam Mult : 1 Vial# : 33 Qt On : 05/27/14 07:08
Acq On : 05/24/14 00:17 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.470	96	186739	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.033	117	98143	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.265	152	48924	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.055	111	53431	31.80	ug/l	-0.02
Spiked Amount 30.000			Recovery = 106.00%			
39) 1,2-Dichloroethane-d4	4.272	67	25658	31.59	ug/l	-0.01
Spiked Amount 30.000			Recovery = 105.30%			
66) Toluene-d8	5.300	98	155608	30.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.13%			
76) Bromofluorobenzene	6.640	174	35121	29.15	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.17%			
Target Compounds						Qvalue
15) Methylene Chloride	2.739	84	6708	2.7919	ug/l	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

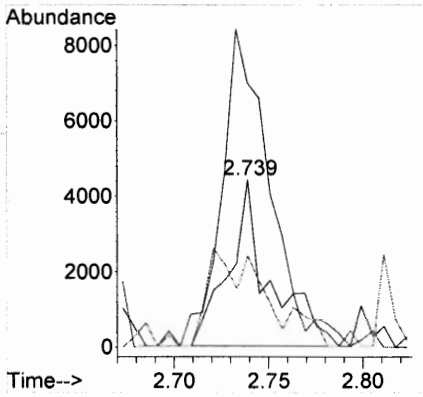

Abundance
TIC: 6M10534.D\data.ms
Quant QT Reviewed
SampleID : AC78787-001
Data File: 6M10534.D
Acq On : 05/24/14 00:17
Operator : WP
Sam Mult : 1 Vial# : 33
Misc : S,5G13
Qt Meth : 6M_S0519.M
Qt On : 05/27/14 07:08
Qt Upd On: 05/20/14 13:55
Methylene Chloride,T
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->



#15
Methylene Chloride
Concen: 2.79 ug/l
RT: 2.739 min Scan# 266
Delta R.T. -0.011 min
Lab File: 6M10534.D
Acq: 24 May 2014 00:17

Tgt Ion: 84 Resp: 6708

Ion	Ratio	Lower	Upper
84	100		
49	150.4	56.4	225.6
86	54.7	28.0	112.0



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-002
Client Id: EXT1(15-17')
Data File: 6M10535.D
Analysis Date: 05/24/14 00:33
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.01g
Final Vol: NA
Dilution: 0.998
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0023	U	56-23-5	Carbon Tetrachloride	0.0023	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0023	U	108-90-7	Chlorobenzene	0.0023	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0023	U	75-00-3	Chloroethane	0.0023	U
79-00-5	1,1,2-Trichloroethane	0.0023	U	67-66-3	Chloroform	0.0023	U
75-34-3	1,1-Dichloroethane	0.0023	U	74-87-3	Chloromethane	0.0023	U
75-35-4	1,1-Dichloroethene	0.0023	U	156-59-2	cis-1,2-Dichloroethene	0.0023	U
87-61-6	1,2,3-Trichlorobenzene	0.0023	U	10061-01-5	cis-1,3-Dichloropropene	0.0023	U
120-82-1	1,2,4-Trichlorobenzene	0.0023	U	110-82-7	Cyclohexane	0.0023	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0023	U	124-48-1	Dibromochloromethane	0.0023	U
106-93-4	1,2-Dibromoethane	0.0023	U	75-71-8	Dichlorodifluoromethane	0.0023	U
95-50-1	1,2-Dichlorobenzene	0.0023	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0023	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0023	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0023	U	79-20-9	Methyl Acetate	0.0023	U
106-46-7	1,4-Dichlorobenzene	0.0023	U	108-87-2	Methylcyclohexane	0.0023	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0023	U
78-93-3	2-Butanone	0.0023	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0023	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0023	U	100-42-5	Styrene	0.0023	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0023	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0023	U	156-60-5	trans-1,2-Dichloroethene	0.0023	U
75-27-4	Bromodichloromethane	0.0023	U	10061-02-6	trans-1,3-Dichloropropene	0.0023	U
75-25-2	Bromoform	0.0023	U	79-01-6	Trichloroethene	0.0023	U
74-83-9	Bromomethane	0.0023	U	75-69-4	Trichlorofluoromethane	0.0023	U
75-15-0	Carbon Disulfide	0.0023	U	75-01-4	Vinyl Chloride	0.0023	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 0278

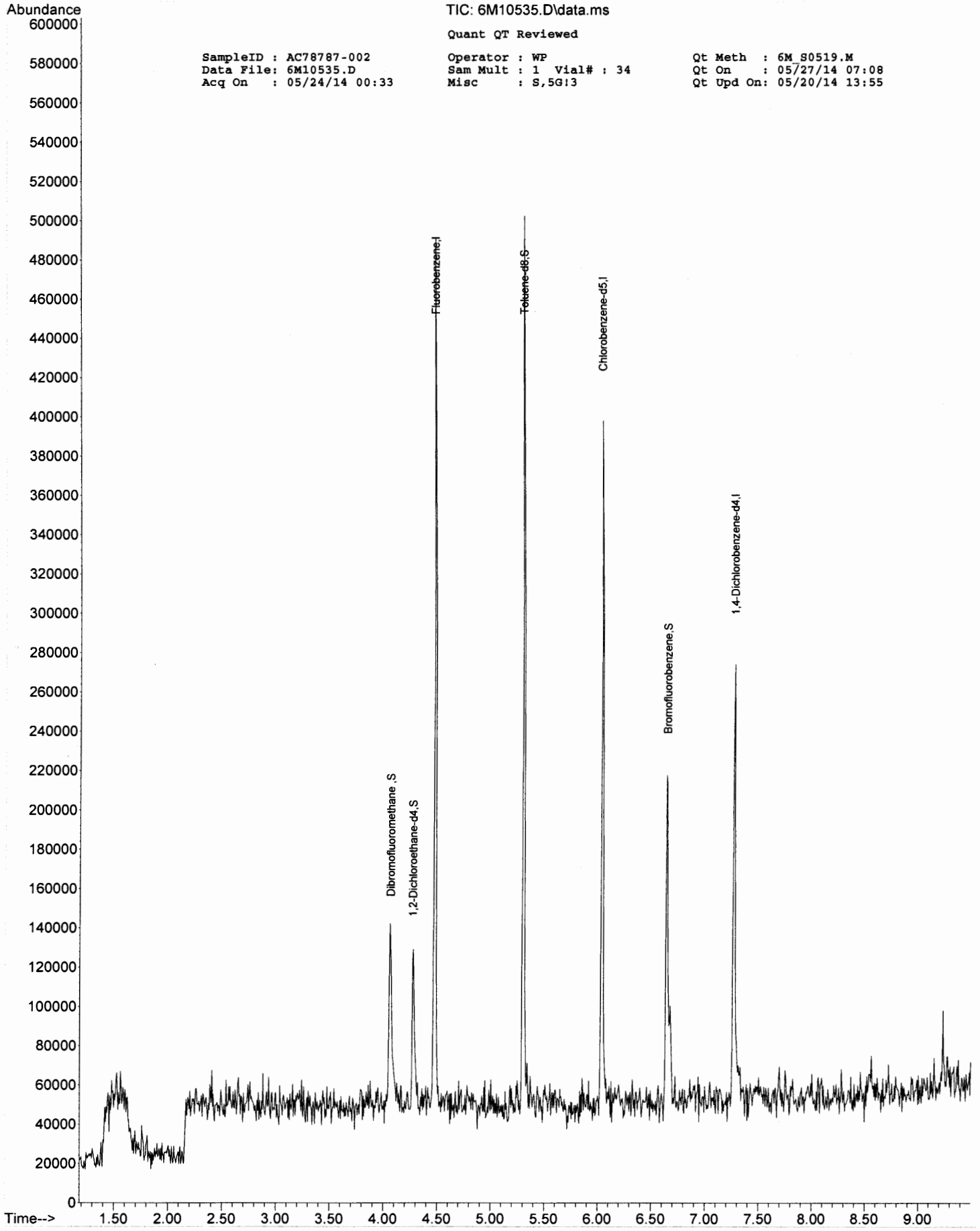
SampleID : AC78787-002 Operator : WP Qt Meth : 6M_S0519.M
Data File: 6M10535.D Sam Mult : 1 Vial# : 34 Qt On : 05/27/14 07:08
Acq On : 05/24/14 00:33 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.476	96	197296	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.039	117	102416	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.271	152	46631	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.068	111	49851	28.08	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.60%			
39) 1,2-Dichloroethane-d4	4.272	67	23266	27.11	ug/l	-0.01
Spiked Amount 30.000			Recovery = 90.37%			
66) Toluene-d8	5.306	98	164779	30.49	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.63%			
76) Bromofluorobenzene	6.646	174	36765	32.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.70%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10535.D\data.ms
Quant QT Reviewed
SampleID : AC78787-002
Data File: 6M10535.D
Acq On : 05/24/14 00:33
Operator : WP
Sam Mult : 1 Vial# : 34
Misc : S,5G!3
Qt Meth : 6M_S0519.M
Qt On : 05/27/14 07:08
Qt Upd On: 05/20/14 13:55
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->
600000
580000
560000
540000
520000
500000
480000
460000
440000
420000
400000
380000
360000
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-003
Client Id: EXT 1 U
Data File: 3M51250.D
Analysis Date: 05/23/14 14:39
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	**67-66-3**	**Chloroform**	**1.0**	**1.3**
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	**124-48-1**	**Dibromochloromethane**	**1.0**	**2.5**
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	136777612	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	10	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	**Bromodichloromethane**	**1.0**	**1.3**	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	**Bromoform**	**1.0**	**2.2**	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 304422 ***Total Target Concentration*** 7.3 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

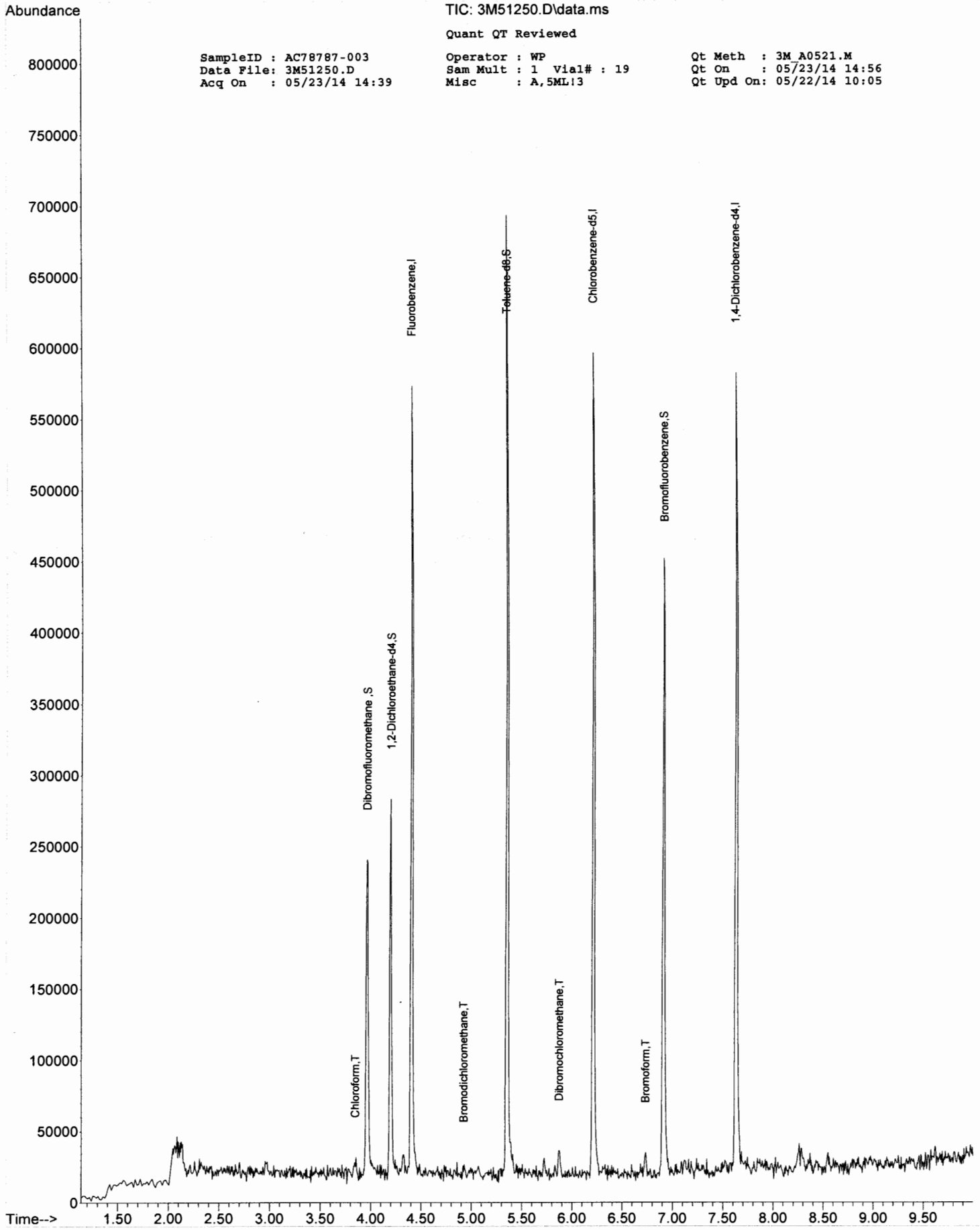
4052101 0281

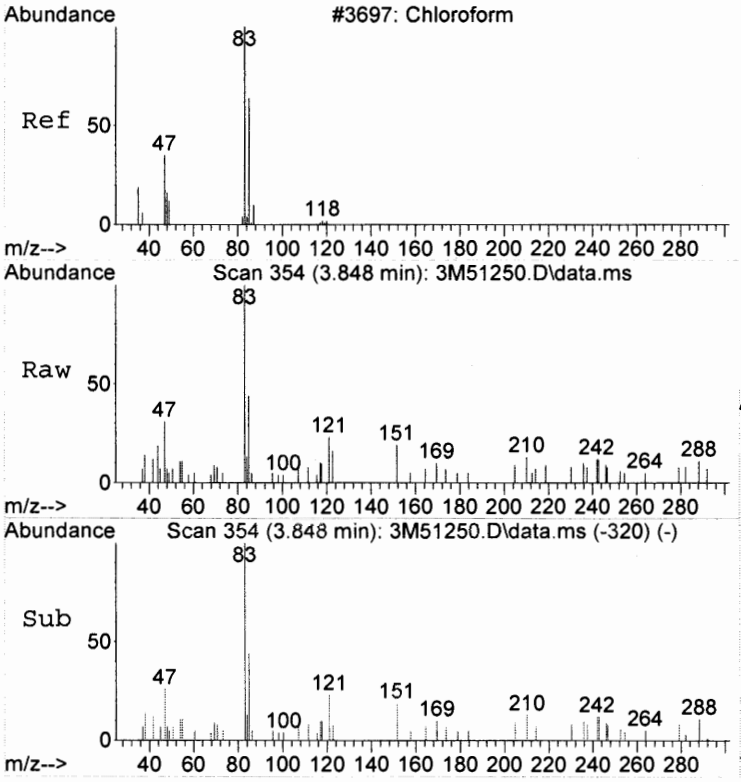
SampleID : AC78787-003 Operator : WP Qt Meth : 3M_A0521.M
Data File: 3M51250.D Sam Mult : 1 Vial# : 19 Qt On : 05/23/14 14:56
Acq On : 05/23/14 14:39 Misc : A,5ML!3 Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.407	96	273421	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.210	117	216405	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.629	152	126896	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.962	111	102901	31.12	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.73%			
39) 1,2-Dichloroethane-d4	4.196	67	61760	33.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.17%			
66) Toluene-d8	5.350	98	275648	29.50	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.33%			
76) Bromofluorobenzene	6.913	174	107730	28.40	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.67%			
Target Compounds						Qvalue
36) Chloroform	3.848	83	5379	1.2663	ug/l	63
45) Bromodichloromethane	4.924	83	4459	1.2749	ug/l	61
55) Dibromochloromethane	5.873	129	6808	2.4611	ug/l	88
73) Bromoform	6.733	173	5159	2.2291	ug/l	56

(#) = qualifier out of range (m) = manual integration (+) = signals summed

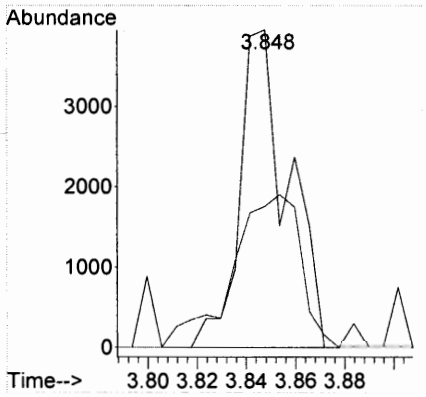

Abundance
TIC: 3M51250.D\data.ms
Quant QT Reviewed
SampleID : AC78787-003
Data File: 3M51250.D
Acq On : 05/23/14 14:39
Operator : WP
Sam Mult : 1 Vial# : 19
Misc : A,5ML!3
Qt Meth : 3M_A0521.M
Qt On : 05/23/14 14:56
Qt Upd On: 05/22/14 10:05
Chloroform,T
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Bromodichloromethane,T
Toluene-d8,S
Dibromochloromethane,T
Chlorobenzene-d5,I
Bromoform,T
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

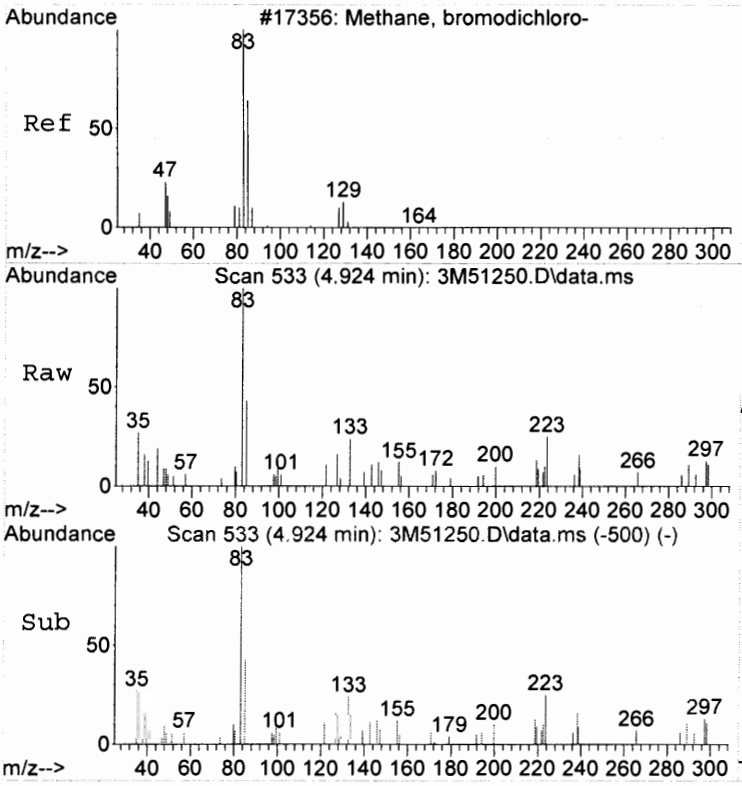


#36
Chloroform
Concen: 1.27 ug/l
RT: 3.848 min Scan# 354
Delta R.T. 0.006 min
Lab File: 3M51250.D
Acq: 23 May 2014 14:39

Tgt Ion: 83 Resp: 5379

Ion	Ratio	Lower	Upper
83	100		
85	44.4	36.0	116.0

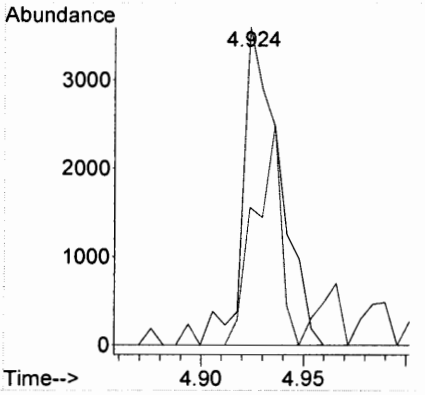


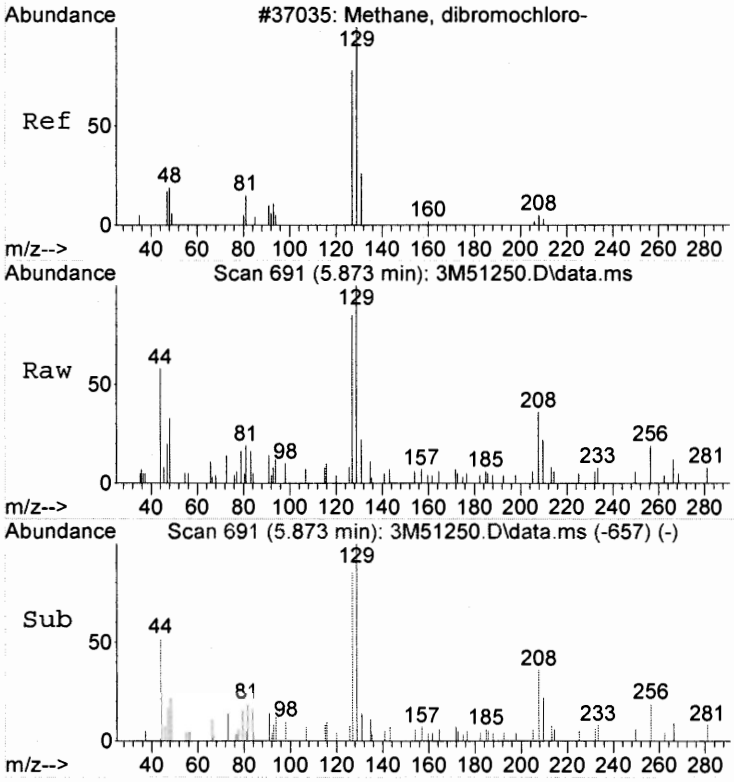


#45
Bromodichloromethane
Concen: 1.27 ug/l
RT: 4.924 min Scan# 533
Delta R.T. -0.000 min
Lab File: 3M51250.D
Acq: 23 May 2014 14:39

Tgt Ion: 83 Resp: 4459

Ion	Ratio	Lower	Upper
83	100		
85	36.8	28.9	108.9

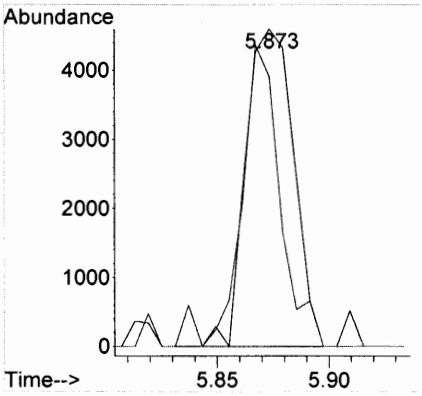


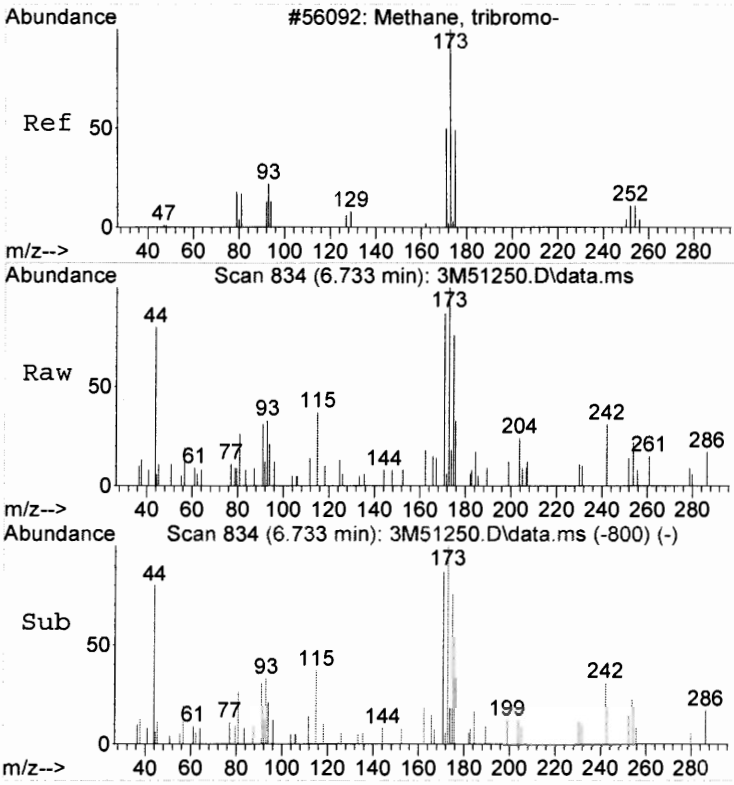


#55
Dibromochloromethane
Concen: 2.46 ug/l
RT: 5.873 min Scan# 691
Delta R.T. 0.006 min
Lab File: 3M51250.D
Acq: 23 May 2014 14:39

Tgt Ion:129 Resp: 6808

Ion	Ratio	Lower	Upper
129	100		
127	85.0	34.8	114.8

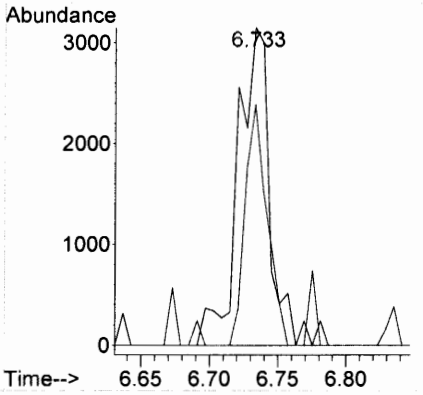




#73
Bromoform
Concen: 2.23 ug/l
RT: 6.733 min Scan# 834
Delta R.T. 0.006 min
Lab File: 3M51250.D
Acq: 23 May 2014 14:39

Tgt Ion:173 Resp: 5159

Ion	Ratio	Lower	Upper
173	100		
175	75.8	6.5	86.5



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-005
Client Id: FB052014 U
Data File: 3M51245.D
Analysis Date: 05/23/14 13:16
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	136777612	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	10	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 304422

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 0286

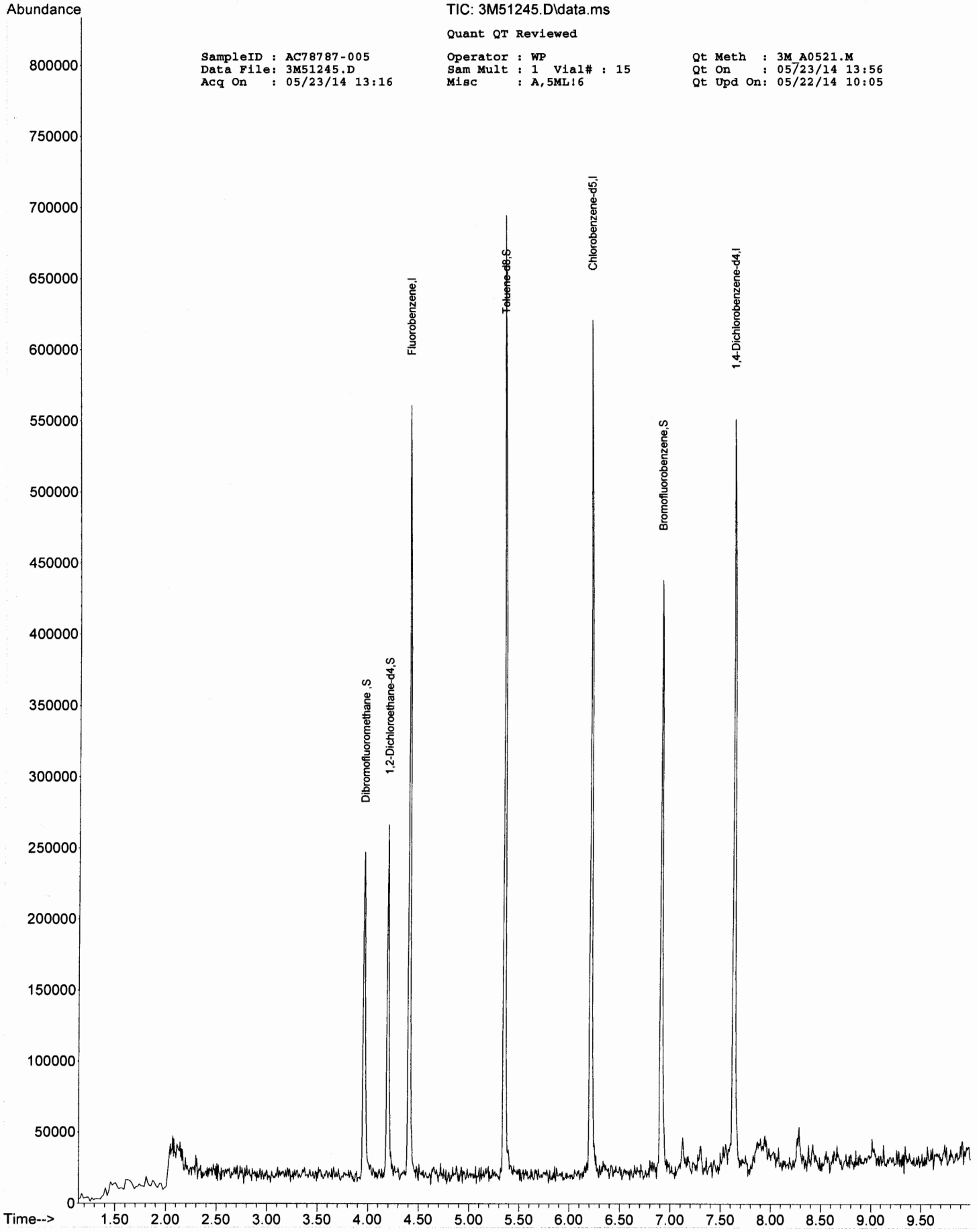
SampleID : AC78787-005 Operator : WP Qt Meth : 3M_A0521.M
Data File: 3M51245.D Sam Mult : 1 Vial# : 15 Qt On : 05/23/14 13:56
Acq On : 05/23/14 13:16 Misc : A,5ML!6 Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.408	96	280296	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.211	117	220642	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.630	152	120801	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.963	111	97373	28.73	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.77%			
39) 1,2-Dichloroethane-d4	4.197	67	54950	28.68	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.60%			
66) Toluene-d8	5.352	98	289912	30.43	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.43%			
76) Bromofluorobenzene	6.908	174	106019	29.36	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.87%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M51245.D\data.ms
Quant QT Reviewed
SampleID : AC78787-005
Data File: 3M51245.D
Acq On : 05/23/14 13:16
Operator : WP
Sam Mult : 1 Vial# : 15
Misc : A,5ML!6
Qt Meth : 3M_A0521.M
Qt On : 05/23/14 13:56
Qt Upd On: 05/22/14 10:05
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-007
Client Id: EXT 2(0-2')
Data File: 6M10536.D
Analysis Date: 05/24/14 00:50
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.99g
Final Vol: NA
Dilution: 1.00
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0024	U	56-23-5	Carbon Tetrachloride	0.0024	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0024	U	108-90-7	Chlorobenzene	0.0024	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0024	U	75-00-3	Chloroethane	0.0024	U
79-00-5	1,1,2-Trichloroethane	0.0024	U	67-66-3	Chloroform	0.0024	U
75-34-3	1,1-Dichloroethane	0.0024	U	74-87-3	Chloromethane	0.0024	U
75-35-4	1,1-Dichloroethene	0.0024	U	156-59-2	cis-1,2-Dichloroethene	0.0024	U
87-61-6	1,2,3-Trichlorobenzene	0.0024	U	10061-01-5	cis-1,3-Dichloropropene	0.0024	U
120-82-1	1,2,4-Trichlorobenzene	0.0024	U	110-82-7	Cyclohexane	0.0024	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0024	U	124-48-1	Dibromochloromethane	0.0024	U
106-93-4	1,2-Dibromoethane	0.0024	U	75-71-8	Dichlorodifluoromethane	0.0024	U
95-50-1	1,2-Dichlorobenzene	0.0024	U	100-41-4	Ethylbenzene	0.0012	U
107-06-2	1,2-Dichloroethane	0.0024	U	98-82-8	Isopropylbenzene	0.0012	U
78-87-5	1,2-Dichloropropane	0.0024	U	136777612	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0024	U	79-20-9	Methyl Acetate	0.0024	U
106-46-7	1,4-Dichlorobenzene	0.0024	U	108-87-2	Methylcyclohexane	0.0024	U
123-91-1	1,4-Dioxane	0.12	U	**75-09-2**	**Methylene Chloride**	**0.0024**	**0.0045**
78-93-3	2-Butanone	0.0024	U	1634-04-4	Methyl-t-butyl ether	0.0012	U
591-78-6	2-Hexanone	0.0024	U	95-47-6	o-Xylene	0.0012	U
108-10-1	4-Methyl-2-Pentanone	0.0024	U	100-42-5	Styrene	0.0024	U
67-64-1	Acetone	0.012	U	127-18-4	Tetrachloroethene	0.0024	U
71-43-2	Benzene	0.0012	U	108-88-3	Toluene	0.0012	U
74-97-5	Bromochloromethane	0.0024	U	156-60-5	trans-1,2-Dichloroethene	0.0024	U
75-27-4	Bromodichloromethane	0.0024	U	10061-02-6	trans-1,3-Dichloropropene	0.0024	U
75-25-2	Bromoform	0.0024	U	79-01-6	Trichloroethene	0.0024	U
74-83-9	Bromomethane	0.0024	U	75-69-4	Trichlorofluoromethane	0.0024	U
75-15-0	Carbon Disulfide	0.0024	U	75-01-4	Vinyl Chloride	0.0024	U
1330-20-7	Xylenes (Total)	0.0012	U				

Worksheet #: 304422

Total Target Concentration 0.0045

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

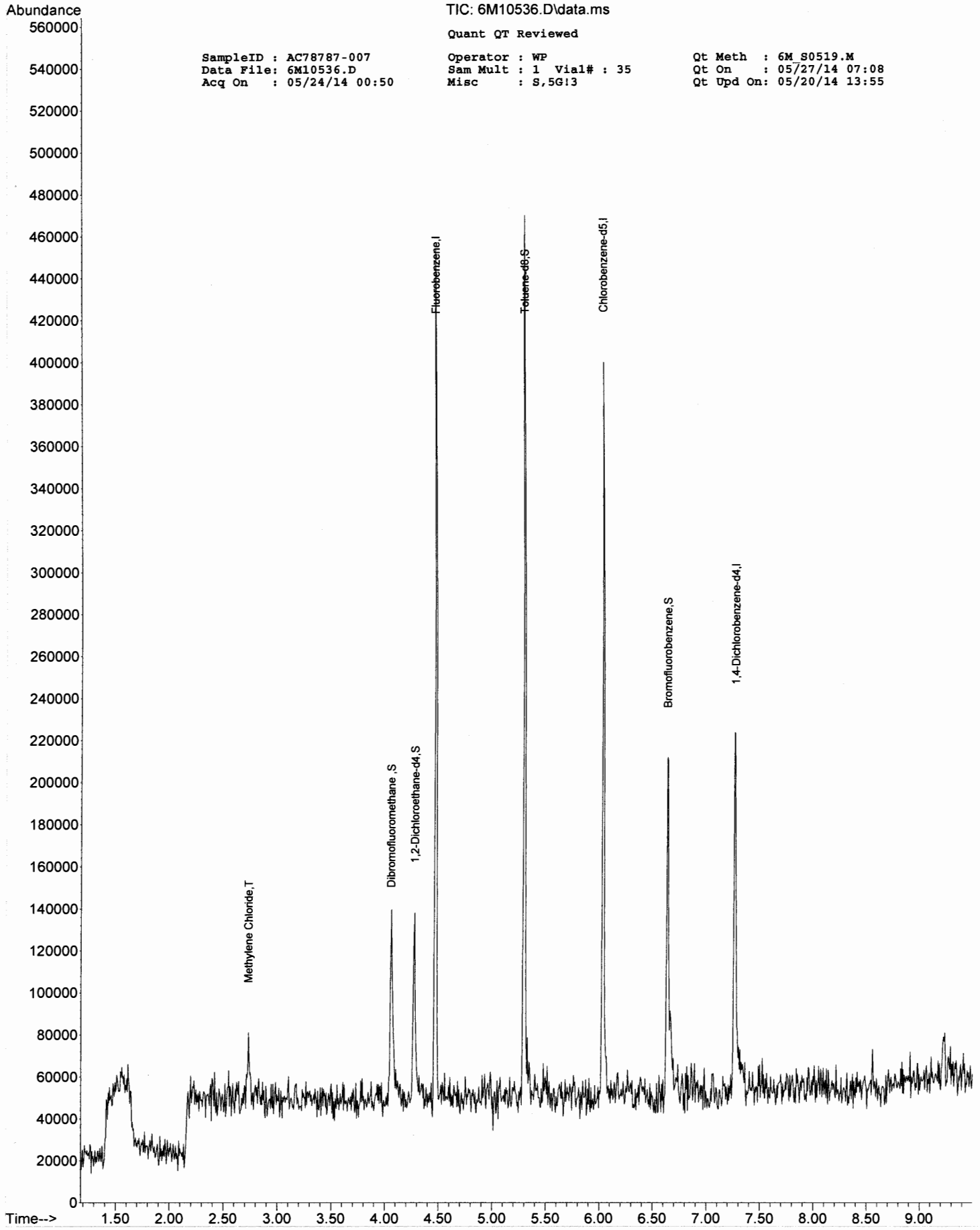
4052101 0289

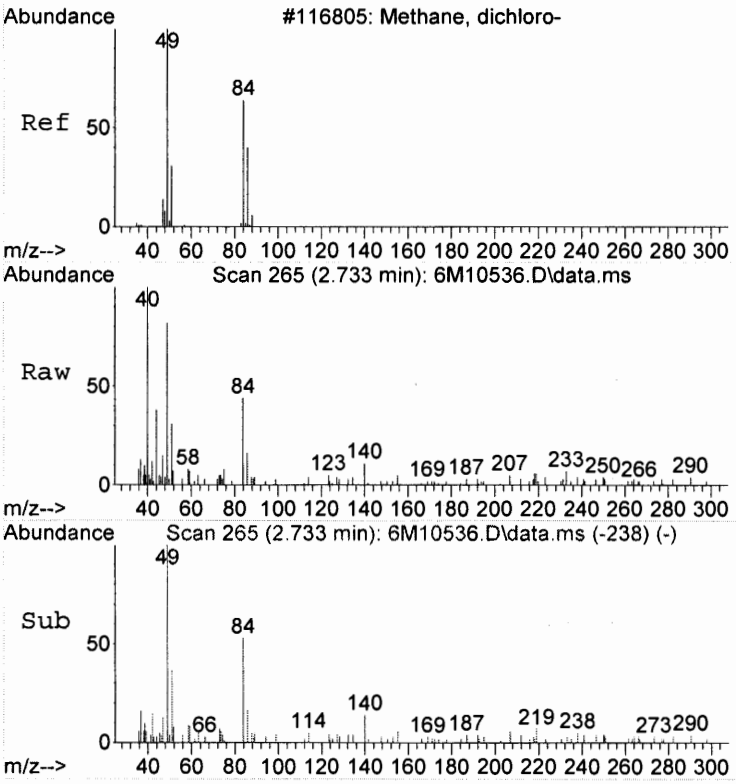
SampleID : AC78787-007 Operator : WP Qt Meth : 6M_S0519.M
Data File: 6M10536.D Sam Mult : 1 Vial# : 35 Qt On : 05/27/14 07:08
Acq On : 05/24/14 00:50 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.470	96	172712	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.033	117	99390	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.265	152	40576	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.055	111	50211	32.31	ug/l	-0.02
Spiked Amount 30.000			Recovery = 107.70%			
39) 1,2-Dichloroethane-d4	4.278	67	25440	33.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.87%			
66) Toluene-d8	5.300	98	161951	30.88	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.93%			
76) Bromofluorobenzene	6.634	174	29791	29.81	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.37%			
Target Compounds						Qvalue
15) Methylene Chloride	2.733	84	8201	3.6904	ug/l	61

(#) = qualifier out of range (m) = manual integration (+) = signals summed

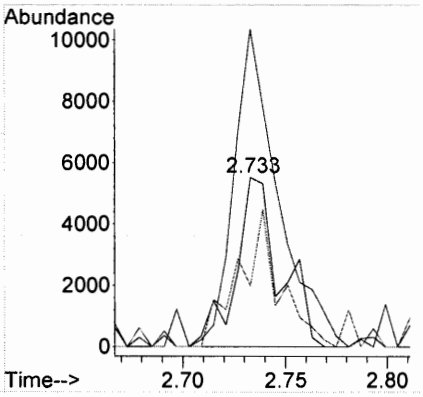

Abundance
TIC: 6M10536.D\data.ms
Quant QT Reviewed
SampleID : AC78787-007
Data File: 6M10536.D
Acq On : 05/24/14 00:50
Operator : WP
Sam Mult : 1 Vial# : 35
Misc : S,5G!3
Qt Meth : 6M_S0519.M
Qt On : 05/27/14 07:08
Qt Upd On: 05/20/14 13:55
Methylene Chloride,T
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->



#15
Methylene Chloride
Concen: 3.69 ug/l
RT: 2.733 min Scan# 265
Delta R.T. -0.017 min
Lab File: 6M10536.D
Acq: 24 May 2014 00:50

Tgt Ion: 84 Resp: 8201

Ion	Ratio	Lower	Upper
84	100		
49	187.4	56.4	225.6
86	36.2	28.0	112.0



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-008
Client Id: EXT 2(15-17')
Data File: 6M10537.D
Analysis Date: 05/24/14 01:07
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0021	U	56-23-5	Carbon Tetrachloride	0.0021	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0021	U	108-90-7	Chlorobenzene	0.0021	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0021	U	75-00-3	Chloroethane	0.0021	U
79-00-5	1,1,2-Trichloroethane	0.0021	U	67-66-3	Chloroform	0.0021	U
75-34-3	1,1-Dichloroethane	0.0021	U	74-87-3	Chloromethane	0.0021	U
75-35-4	1,1-Dichloroethene	0.0021	U	156-59-2	cis-1,2-Dichloroethene	0.0021	U
87-61-6	1,2,3-Trichlorobenzene	0.0021	U	10061-01-5	cis-1,3-Dichloropropene	0.0021	U
120-82-1	1,2,4-Trichlorobenzene	0.0021	U	110-82-7	Cyclohexane	0.0021	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0021	U	124-48-1	Dibromochloromethane	0.0021	U
106-93-4	1,2-Dibromoethane	0.0021	U	75-71-8	Dichlorodifluoromethane	0.0021	U
95-50-1	1,2-Dichlorobenzene	0.0021	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0021	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0021	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0021	U	79-20-9	Methyl Acetate	0.0021	U
106-46-7	1,4-Dichlorobenzene	0.0021	U	108-87-2	Methylcyclohexane	0.0021	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0021	U
78-93-3	2-Butanone	0.0021	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0021	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0021	U	100-42-5	Styrene	0.0021	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0021	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0021	U	156-60-5	trans-1,2-Dichloroethene	0.0021	U
75-27-4	Bromodichloromethane	0.0021	U	10061-02-6	trans-1,3-Dichloropropene	0.0021	U
75-25-2	Bromoform	0.0021	U	79-01-6	Trichloroethene	0.0021	U
74-83-9	Bromomethane	0.0021	U	75-69-4	Trichlorofluoromethane	0.0021	U
75-15-0	Carbon Disulfide	0.0021	U	75-01-4	Vinyl Chloride	0.0021	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

SampleID : AC78787-008 Operator : WP Qt Meth : 6M_S0519.M
Data File: 6M10537.D Sam Mult : 1 Vial# : 36 Qt On : 05/27/14 07:08
Acq On : 05/24/14 01:07 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.475	96	180622	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.032	117	106289	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.264	152	42458	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.060	111	57473	35.36	ug/l	-0.01
Spiked Amount 30.000			Recovery = 117.87%			
39) 1,2-Dichloroethane-d4	4.271	67	25975	33.06	ug/l	-0.01
Spiked Amount 30.000			Recovery = 110.20%			
66) Toluene-d8	5.299	98	157773	28.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.77%			
76) Bromofluorobenzene	6.639	174	34410	32.90	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.67%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

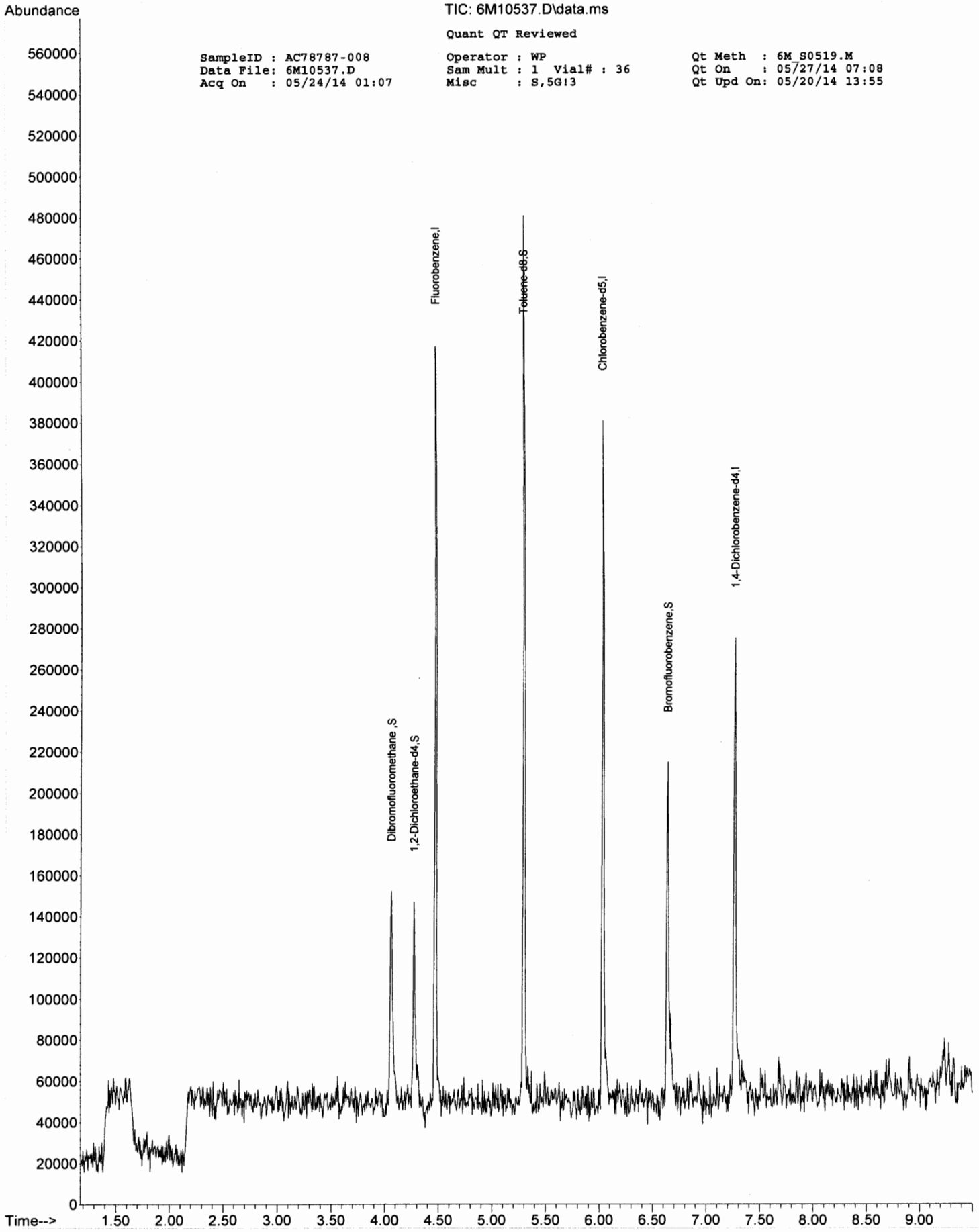
TIC: 6M10537.D\data.ms

Quant QT Reviewed

SampleID : AC78787-008
Data File: 6M10537.D
Acq On : 05/24/14 01:07

Operator : WP
Sam Mult : 1 Vial# : 36
Misc : S,5G!3

Qt Meth : 6M_S0519.M
Qt On : 05/27/14 07:08
Qt Upd On: 05/20/14 13:55



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-009
Client Id: DUP052014 U
Data File: 3M51251.D
Analysis Date: 05/23/14 14:56
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	136777612	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	10	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

SampleID : AC78787-009 Operator : WP Qt Meth : 3M_A0521.M
Data File: 3M51251.D Sam Mult : 1 Vial# : 20 Qt On : 05/23/14 15:09
Acq On : 05/23/14 14:56 Misc : A,5ML!3 Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.407	96	286320	30.00 ug/l	0.00
52) Chlorobenzene-d5	6.210	117	224761	30.00 ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.635	152	121349	30.00 ug/l	0.01
System Monitoring Compounds					
37) Dibromofluoromethane	3.968	111	104759	30.26 ug/l	0.01
Spiked Amount 30.000			Recovery = 100.87%		
39) 1,2-Dichloroethane-d4	4.196	67	54935	28.07 ug/l	0.00
Spiked Amount 30.000			Recovery = 93.57%		
66) Toluene-d8	5.350	98	297853	30.69 ug/l	0.00
Spiked Amount 30.000			Recovery = 102.30%		
76) Bromofluorobenzene	6.913	174	110033	30.33 ug/l	0.00
Spiked Amount 30.000			Recovery = 101.10%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

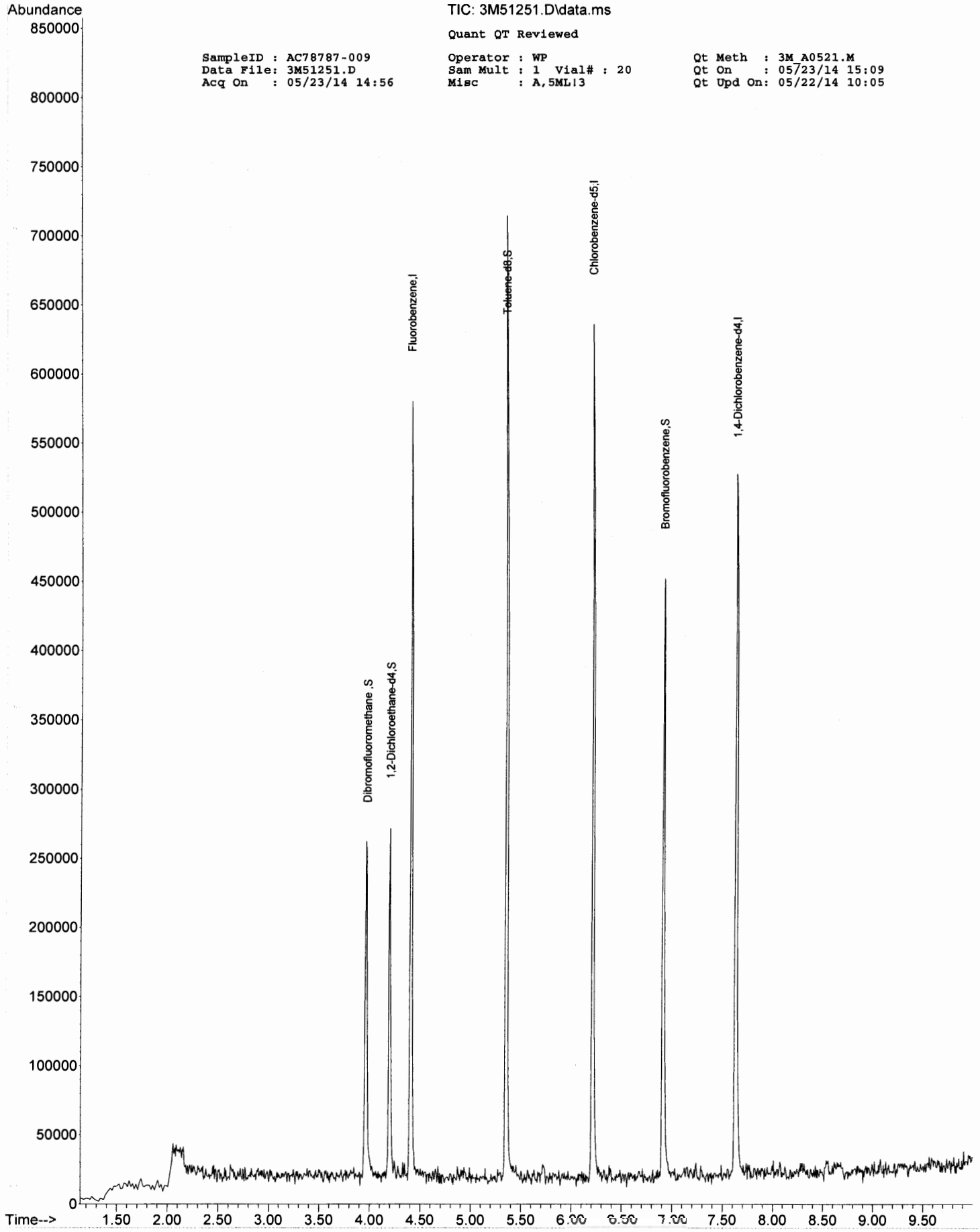
TIC: 3M51251.D\data.ms

Quant QT Reviewed

SampleID : AC78787-009
Data File: 3M51251.D
Acq On : 05/23/14 14:56

Operator : WP
Sam Mult : 1 Vial# : 20
Misc : A,5ML;3

Qt Meth : 3M_A0521.M
Qt On : 05/23/14 15:09
Qt Upd On: 05/22/14 10:05



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-011
Client Id: EXT 2 U
Data File: 3M51254.D
Analysis Date: 05/23/14 15:45
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	136777612	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	10	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 304422

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

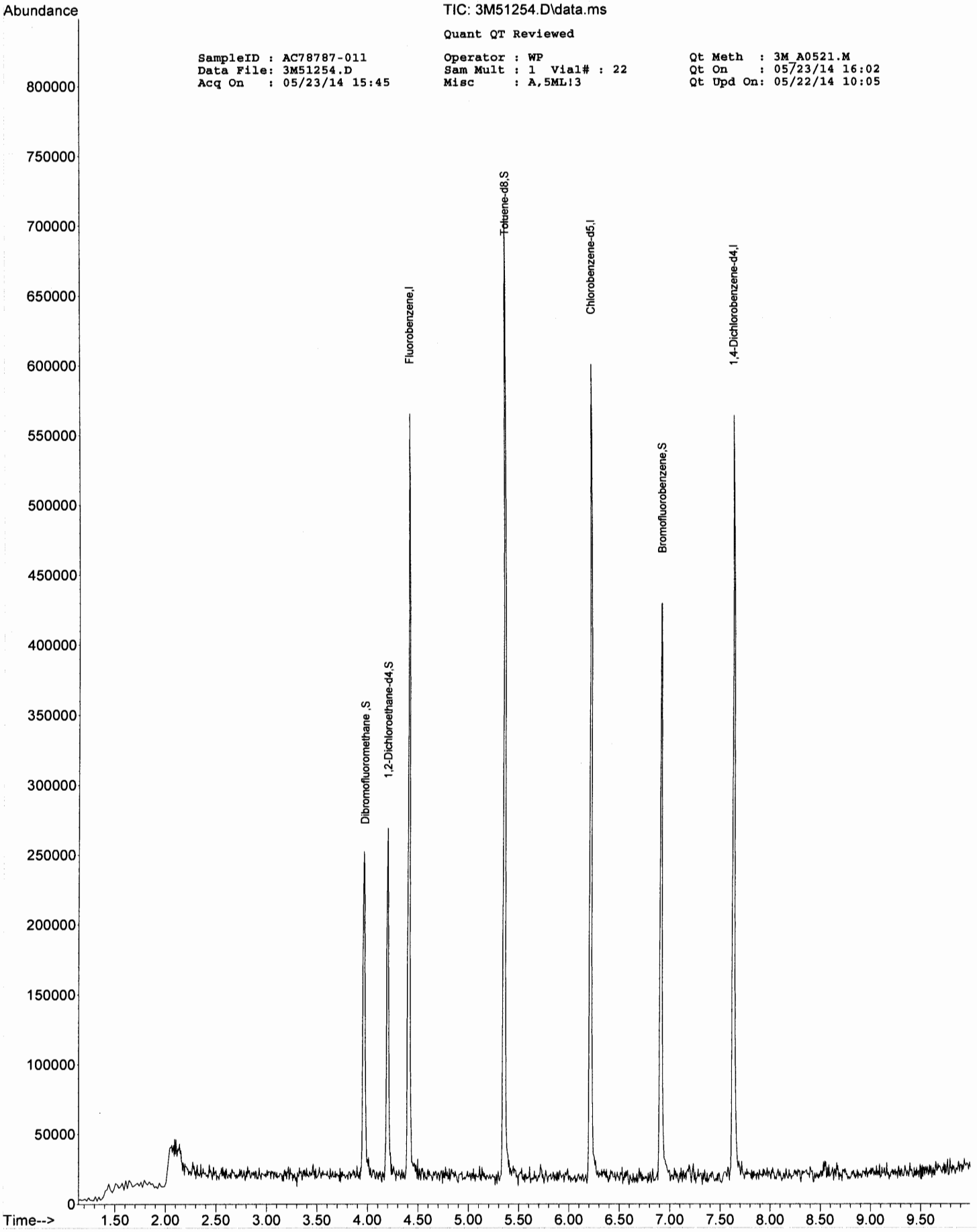
SampleID : AC78787-011 Operator : WP Qt Meth : 3M_A0521.M
Data File: 3M51254.D Sam Mult : 1 Vial# : 22 Qt On : 05/23/14 16:02
Acq On : 05/23/14 15:45 Misc : A,5ML!3 Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.407	96	278025	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.210	117	221315	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.629	152	121742	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.968	111	99876	29.71	ug/l	0.01
Spiked Amount 30.000			Recovery = 99.03%			
39) 1,2-Dichloroethane-d4	4.197	67	58510	30.79	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.63%			
66) Toluene-d8	5.357	98	282439	29.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.53%			
76) Bromofluorobenzene	6.914	174	107807	29.62	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.73%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M51254.D\data.ms
Quant QT Reviewed
SampleID : AC78787-011
Data File: 3M51254.D
Acq On : 05/23/14 15:45
Operator : WP
Sam Mult : 1 Vial# : 22
Misc : A,5ML!3
Qt Meth : 3M_A0521.M
Qt On : 05/23/14 16:02
Qt Upd On: 05/22/14 10:05
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-013
Client Id: TB
Data File: 3M51246.D
Analysis Date: 05/23/14 13:33
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	136777612	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	10	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

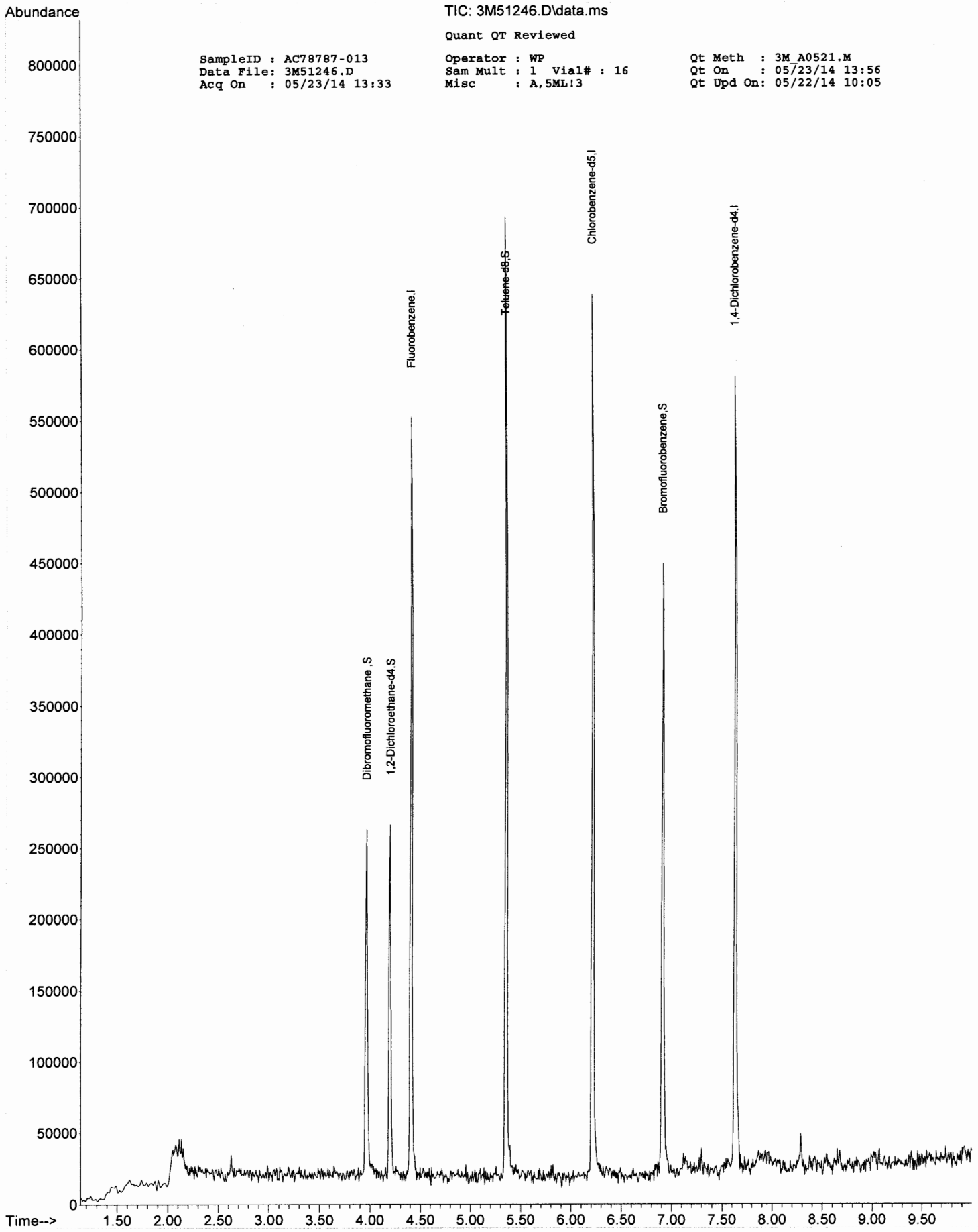
SampleID : AC78787-013 Operator : WP Qt Meth : 3M_A0521.M
Data File: 3M51246.D Sam Mult : 1 Vial# : 16 Qt On : 05/23/14 13:56
Acq On : 05/23/14 13:33 Misc : A,5ML!3 Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.407	96	274636	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.210	117	232118	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.629	152	121307	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.962	111	102676	30.92	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.07%			
39) 1,2-Dichloroethane-d4	4.197	67	55951	29.81	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.37%			
66) Toluene-d8	5.351	98	280330	27.97	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.23%			
76) Bromofluorobenzene	6.908	174	109730	30.26	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.87%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M51246.D\data.ms
Quant QT Reviewed
SampleID : AC78787-013
Data File: 3M51246.D
Acq On : 05/23/14 13:33
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : A,5ML!3
Qt Meth : 3M_A0521.M
Qt On : 05/23/14 13:56
Qt Upd On: 05/22/14 10:05
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-014
Client Id: EXT 3(0-2')
Data File: 6M10538.D
Analysis Date: 05/24/14 01:23
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.02g
Final Vol: NA
Dilution: 0.996
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0022	U
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0022	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

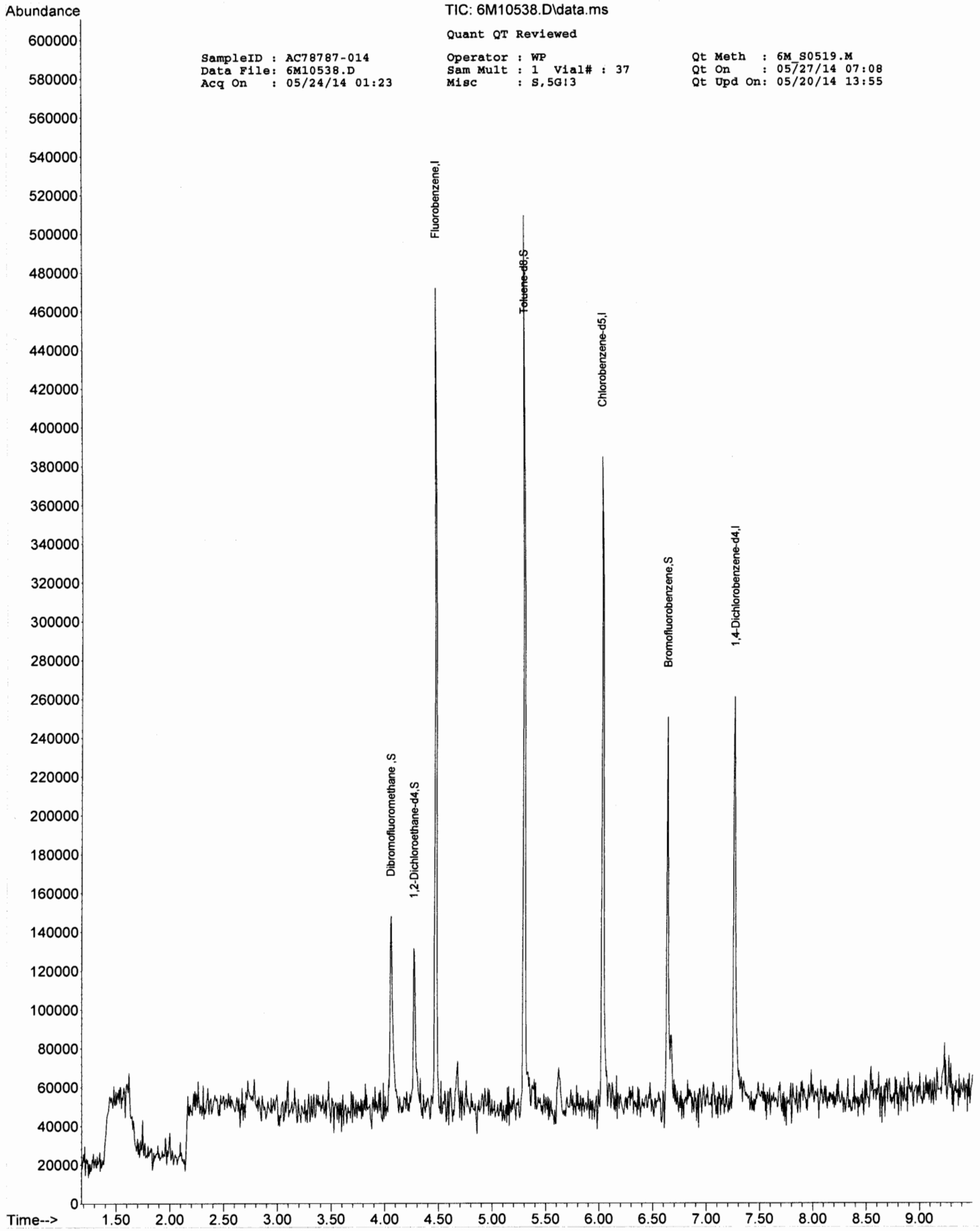
SampleID : AC78787-014 Operator : WP Qt Meth : 6M_S0519.M
Data File: 6M10538.D Sam Mult : 1 Vial# : 37 Qt On : 05/27/14 07:08
Acq On : 05/24/14 01:23 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.475	96	191127	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.031	117	104483	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.264	152	41077	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.054	111	56591	32.90	ug/l	-0.02
Spiked Amount 30.000			Recovery = 109.67%			
39) 1,2-Dichloroethane-d4	4.270	67	26305	31.64	ug/l	-0.01
Spiked Amount 30.000			Recovery = 105.47%			
66) Toluene-d8	5.298	98	165036	29.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.77%			
76) Bromofluorobenzene	6.639	174	35038	34.63	ug/l	0.00
Spiked Amount 30.000			Recovery = 115.43%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10538.D\data.ms
Quant QT Reviewed
SampleID : AC78787-014
Data File: 6M10538.D
Acq On : 05/24/14 01:23
Operator : WP
Sam Mult : 1 Vial# : 37
Misc : S,5G!3
Qt Meth : 6M_S0519.M
Qt On : 05/27/14 07:08
Qt Upd On: 05/20/14 13:55
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-015
Client Id: EXT 3(15-17')
Data File: 6M10539.D
Analysis Date: 05/24/14 01:40
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.01g
Final Vol: NA
Dilution: 0.998
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	**75-09-2**	**Methylene Chloride**	**0.0022**	**0.0031**
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0022	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422

Total Target Concentration 0.0031

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0308

SampleID : AC78787-015 Operator : WP Qt Meth : 6M_S0519.M
Data File: 6M10539.D Sam Mult : 1 Vial# : 38 Qt On : 05/27/14 07:09
Acq On : 05/24/14 01:40 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.470	96	201540	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.033	117	105483	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.265	152	46696	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.061	111	56601	31.21	ug/l	-0.01
Spiked Amount 30.000			Recovery = 104.03%			
39) 1,2-Dichloroethane-d4	4.272	67	23904	27.27	ug/l	-0.01
Spiked Amount 30.000			Recovery = 90.90%			
66) Toluene-d8	5.300	98	162762	29.24	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.47%			
76) Bromofluorobenzene	6.640	174	35984	31.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.30%			
Target Compounds						Qvalue
15) Methylene Chloride	2.733	84	7133	2.7507	ug/l	59

(#) = qualifier out of range (m) = manual integration (+) = signals summed

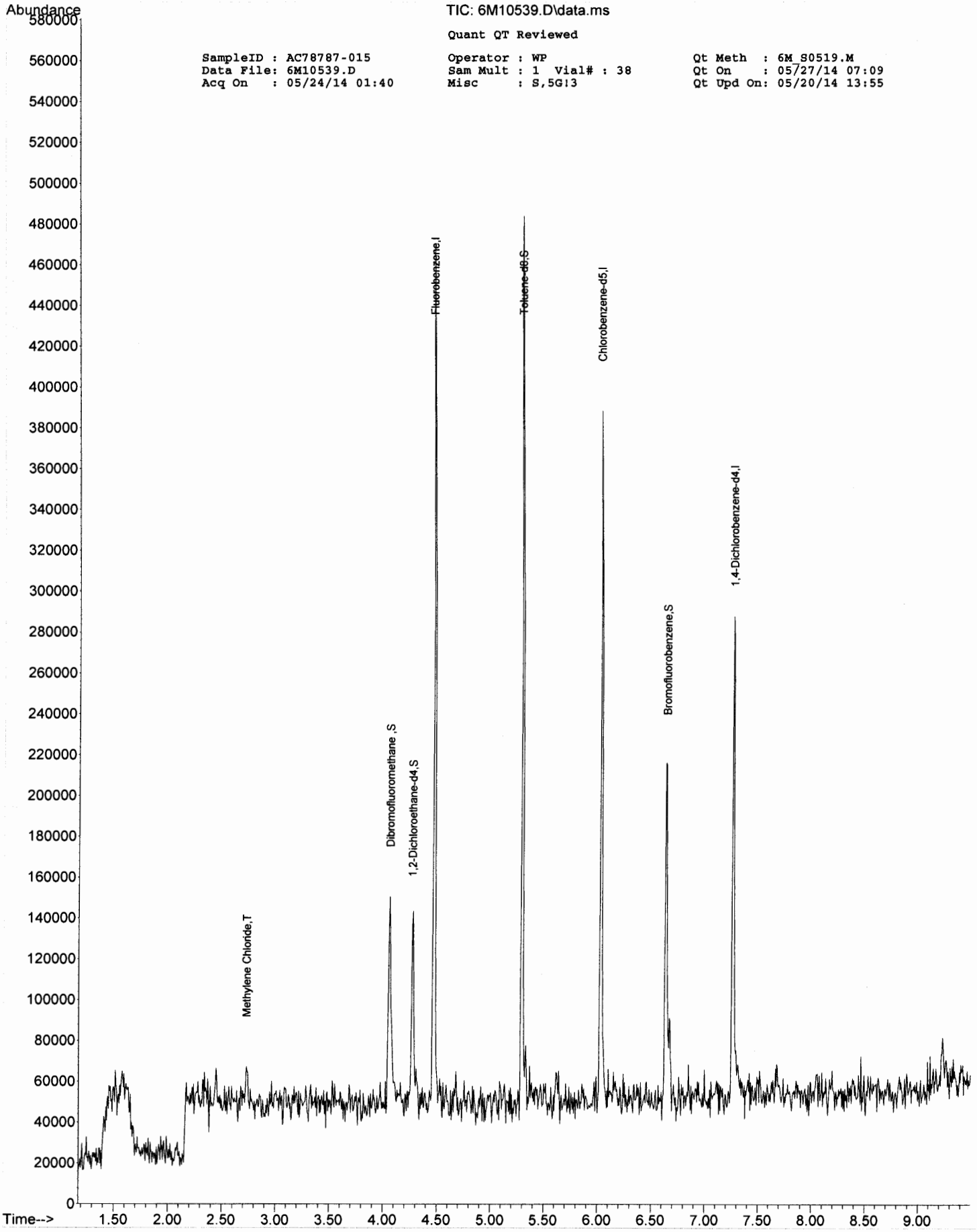
TIC: 6M10539.D\data.ms

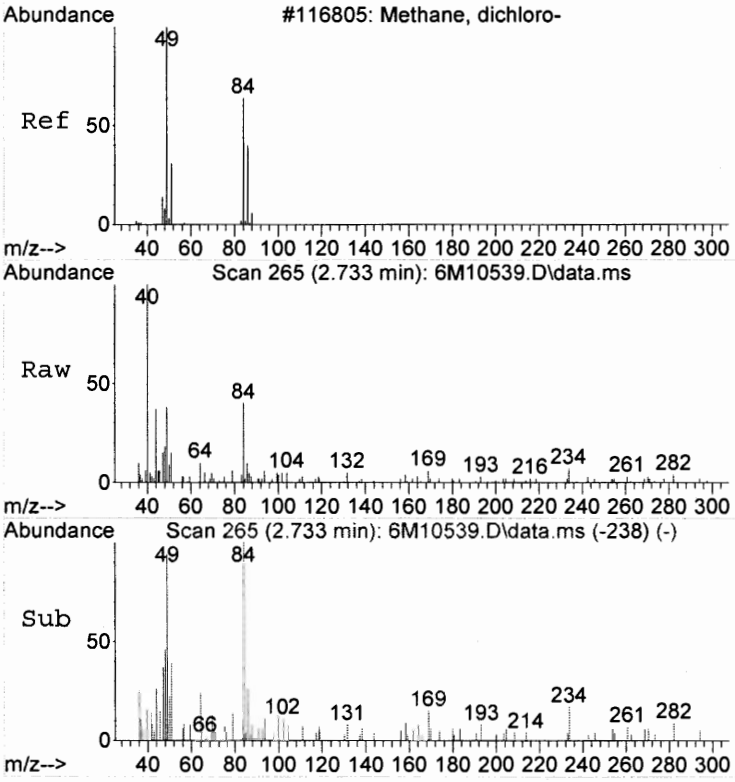
Quant QT Reviewed

SampleID : AC78787-015
Data File: 6M10539.D
Acq On : 05/24/14 01:40

Operator : WP
Sam Mult : 1 Vial# : 38
Misc : S,5G!3

Qt Meth : 6M_S0519.M
Qt On : 05/27/14 07:09
Qt Upd On: 05/20/14 13:55

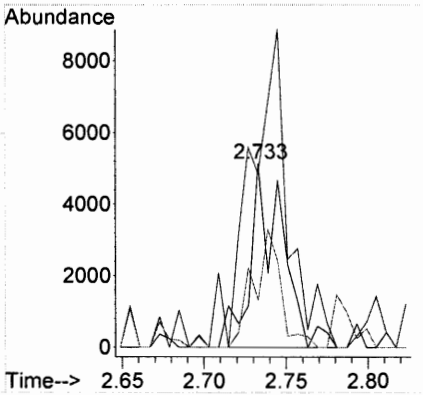




#15
Methylene Chloride
Concen: 2.75 ug/l
RT: 2.733 min Scan# 265
Delta R.T. -0.017 min
Lab File: 6M10539.D
Acq: 24 May 2014 1:40

Tgt Ion: 84 Resp: 7133

Ion	Ratio	Lower	Upper
84	100		
49	90.6	56.4	225.6
86	37.9	28.0	112.0



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-016
Client Id: EXT 3 U
Data File: 3M51260.D
Analysis Date: 05/23/14 17:23
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	**67-66-3**	**Chloroform**	**1.0**	**2.6**
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	136777612	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	**108-87-2**	**Methylcyclohexane**	**1.0**	**2.3**
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	10	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 304422 *Total Target Concentration* 4.9 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

SampleID : AC78787-016 Operator : WP Qt Meth : 3M_A0521.M
Data File: 3M51260.D Sam Mult : 1 Vial# : 22 Qt On : 05/23/14 18:47
Acq On : 05/23/14 17:23 Misc : A,5ML!3 Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.408	96	289498	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.211	117	226840	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.630	152	126745	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.969	111	105092	30.02	ug/l	0.01
Spiked Amount 30.000			Recovery = 100.07%			
39) 1,2-Dichloroethane-d4	4.198	67	58962	29.80	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.33%			
66) Toluene-d8	5.352	98	284424	29.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.80%			
76) Bromofluorobenzene	6.915	174	104560	27.60	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.00%			
Target Compounds						Qvalue
36) Chloroform	3.855	83	11727	2.6074	ug/l	90
46) Methylcyclohexane	4.751	83	4601	2.3231	ug/l	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

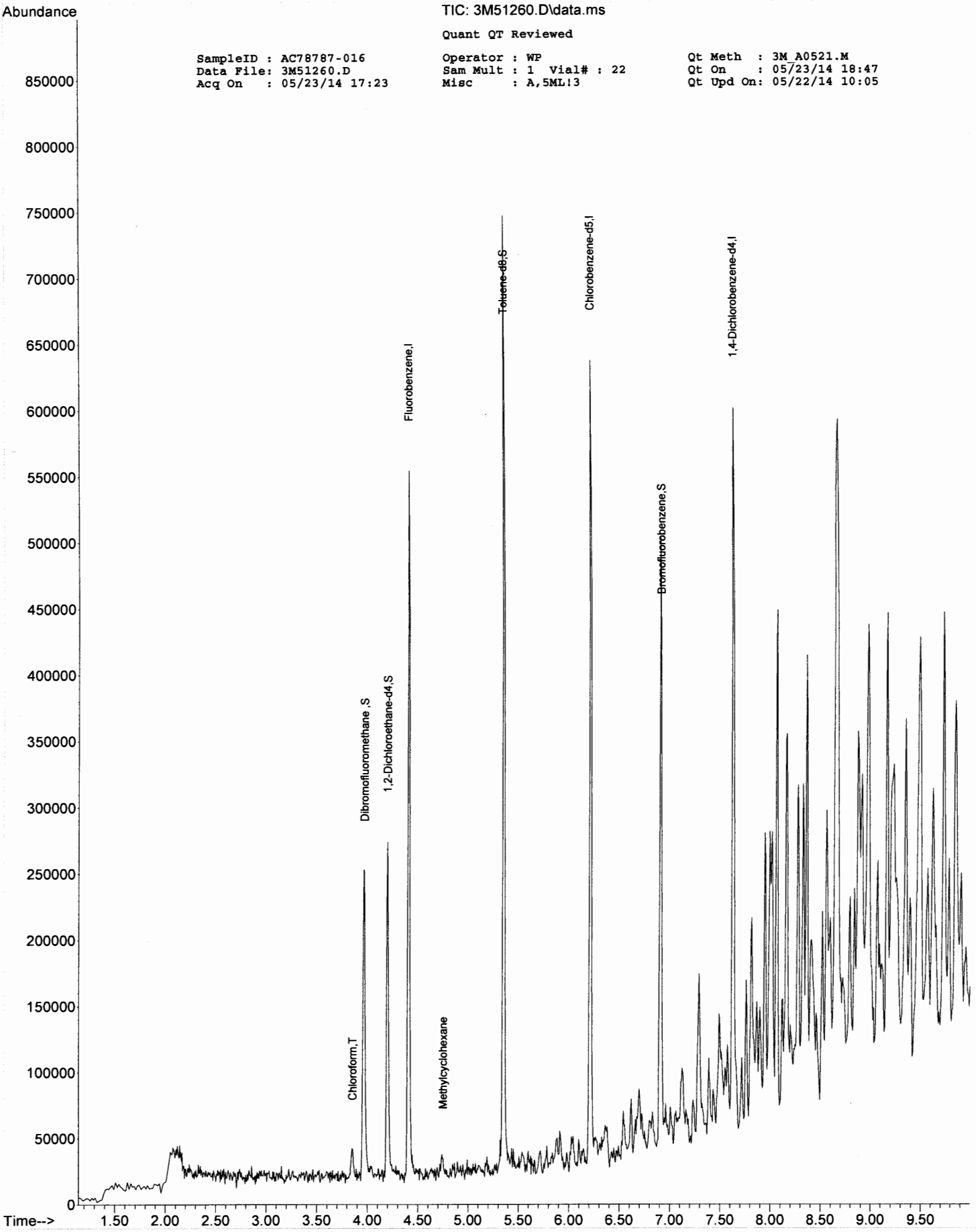
TIC: 3M51260.D\data.ms

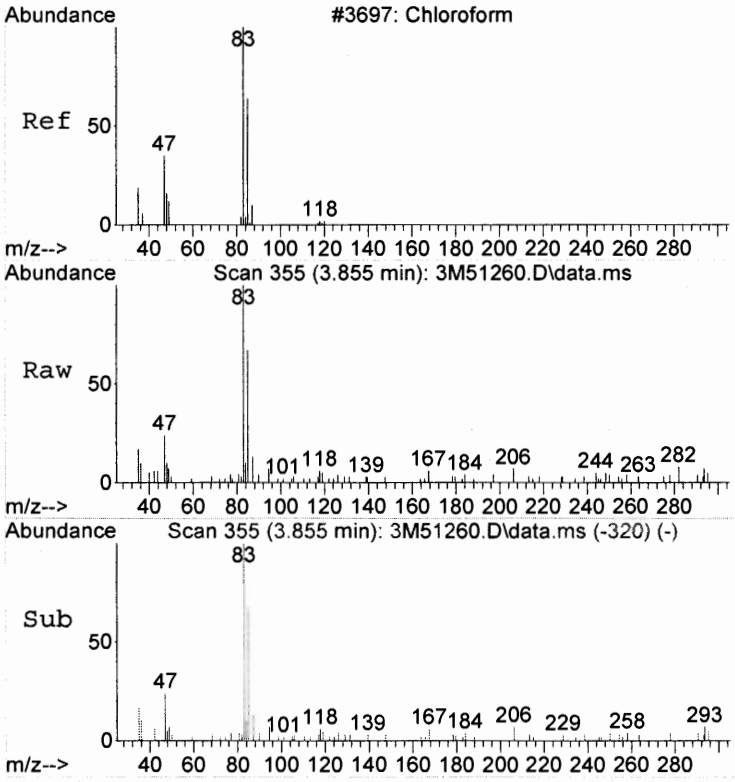
Quant QT Reviewed

SampleID : AC78787-016
Data File: 3M51260.D
Acq On : 05/23/14 17:23

Operator : WP
Sam Mult : 1 Vial# : 22
Misc : A,5ML!3

Qt Meth : 3M_A0521.M
Qt On : 05/23/14 18:47
Qt Upd On: 05/22/14 10:05

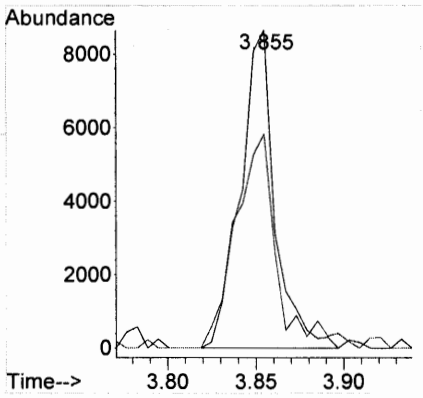


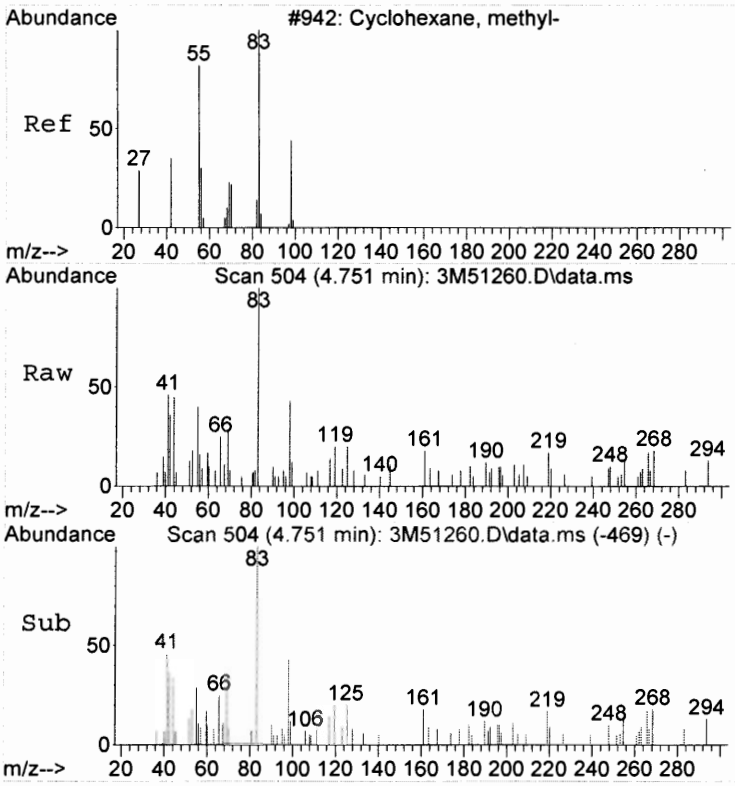


#36
Chloroform
Concen: 2.61 ug/l
RT: 3.855 min Scan# 355
Delta R.T. 0.013 min
Lab File: 3M51260.D
Acq: 23 May 2014 17:23

Tgt Ion: 83 Resp: 11727

Ion	Ratio	Lower	Upper
83	100		
85	67.4	36.0	116.0

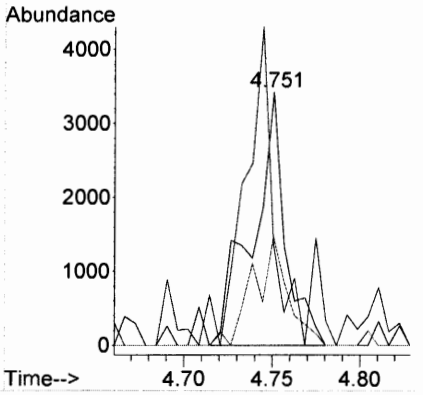




#46
Methylcyclohexane
Concen: 2.32 ug/l
RT: 4.751 min Scan# 504
Delta R.T. 0.013 min
Lab File: 3M51260.D
Acq: 23 May 2014 17:23

Tgt Ion: 83 Resp: 4601

Ion	Ratio	Lower	Upper
83	100		
55	104.7	50.0	150.0
98	43.5	32.9	72.9



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-018
Client Id: EXT 3(27-29')
Data File: 6M10606.D
Analysis Date: 05/28/14 11:09
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.01g
Final Vol: NA
Dilution: 0.998
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0023	U	56-23-5	Carbon Tetrachloride	0.0023	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0023	U	108-90-7	Chlorobenzene	0.0023	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0023	U	75-00-3	Chloroethane	0.0023	U
79-00-5	1,1,2-Trichloroethane	0.0023	U	67-66-3	Chloroform	0.0023	U
75-34-3	1,1-Dichloroethane	0.0023	U	74-87-3	Chloromethane	0.0023	U
75-35-4	1,1-Dichloroethene	0.0023	U	156-59-2	cis-1,2-Dichloroethene	0.0023	U
87-61-6	1,2,3-Trichlorobenzene	0.0023	U	10061-01-5	cis-1,3-Dichloropropene	0.0023	U
120-82-1	1,2,4-Trichlorobenzene	0.0023	U	110-82-7	Cyclohexane	0.0023	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0023	U	124-48-1	Dibromochloromethane	0.0023	U
106-93-4	1,2-Dibromoethane	0.0023	U	75-71-8	Dichlorodifluoromethane	0.0023	U
95-50-1	1,2-Dichlorobenzene	0.0023	U	**100-41-4**	**Ethylbenzene**	**0.0011**	**0.0029**
107-06-2	1,2-Dichloroethane	0.0023	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0023	U	**136777612**	**m&p-Xylenes**	**0.0011**	**0.014**
541-73-1	1,3-Dichlorobenzene	0.0023	U	79-20-9	Methyl Acetate	0.0023	U
106-46-7	1,4-Dichlorobenzene	0.0023	U	**108-87-2**	**Methylcyclohexane**	**0.0023**	**0.0052**
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0023	U
78-93-3	2-Butanone	0.0023	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0023	U	**95-47-6**	**o-Xylene**	**0.0011**	**0.0050**
108-10-1	4-Methyl-2-Pentanone	0.0023	U	100-42-5	Styrene	0.0023	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0023	U
71-43-2	Benzene	0.0011	U	**108-88-3**	**Toluene**	**0.0011**	**0.0029**
74-97-5	Bromochloromethane	0.0023	U	156-60-5	trans-1,2-Dichloroethene	0.0023	U
75-27-4	Bromodichloromethane	0.0023	U	10061-02-6	trans-1,3-Dichloropropene	0.0023	U
75-25-2	Bromoform	0.0023	U	79-01-6	Trichloroethene	0.0023	U
74-83-9	Bromomethane	0.0023	U	75-69-4	Trichlorofluoromethane	0.0023	U
75-15-0	Carbon Disulfide	0.0023	U	75-01-4	Vinyl Chloride	0.0023	U
1330-20-7	**Xylenes (Total)**	**0.0011**	**0.019**				

Worksheet #: 304422 ***Total Target Concentration*** 0.03 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

SampleID : AC78787-018 Operator : SGG Qt Meth : 6M_S0519.M
Data File: 6M10606.D Sam Mult : 1 Vial# : 16 Qt On : 05/28/14 12:37
Acq On : 05/28/14 11:09 Misc : S,5G!4 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-28-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.469	96	143673	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.032	117	99950	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.258	152	67104	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.054	111	41862	32.38	ug/l	-0.02
Spiked Amount 30.000			Recovery = 107.93%			
39) 1,2-Dichloroethane-d4	4.271	67	17554	28.09	ug/l	-0.01
Spiked Amount 30.000			Recovery = 93.63%			
66) Toluene-d8	5.299	98	155089	29.40	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.00%			
76) Bromofluorobenzene	6.633	174	36415m	22.03	ug/l	-0.01
Spiked Amount 30.000			Recovery = 73.43%			
Target Compounds						Qvalue
46) Methylcyclohexane	4.788	83	19675	4.4912	ug/l	80
67) Toluene	5.329	92	15357	2.5301	ug/l	80
74) Ethylbenzene	6.092	106	9158	2.5309	ug/l	99
78) m&p-Xylenes	6.152	106	53423	12.0540	ug/l	95
79) o-Xylene	6.363	106	16925	4.3319	ug/l	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

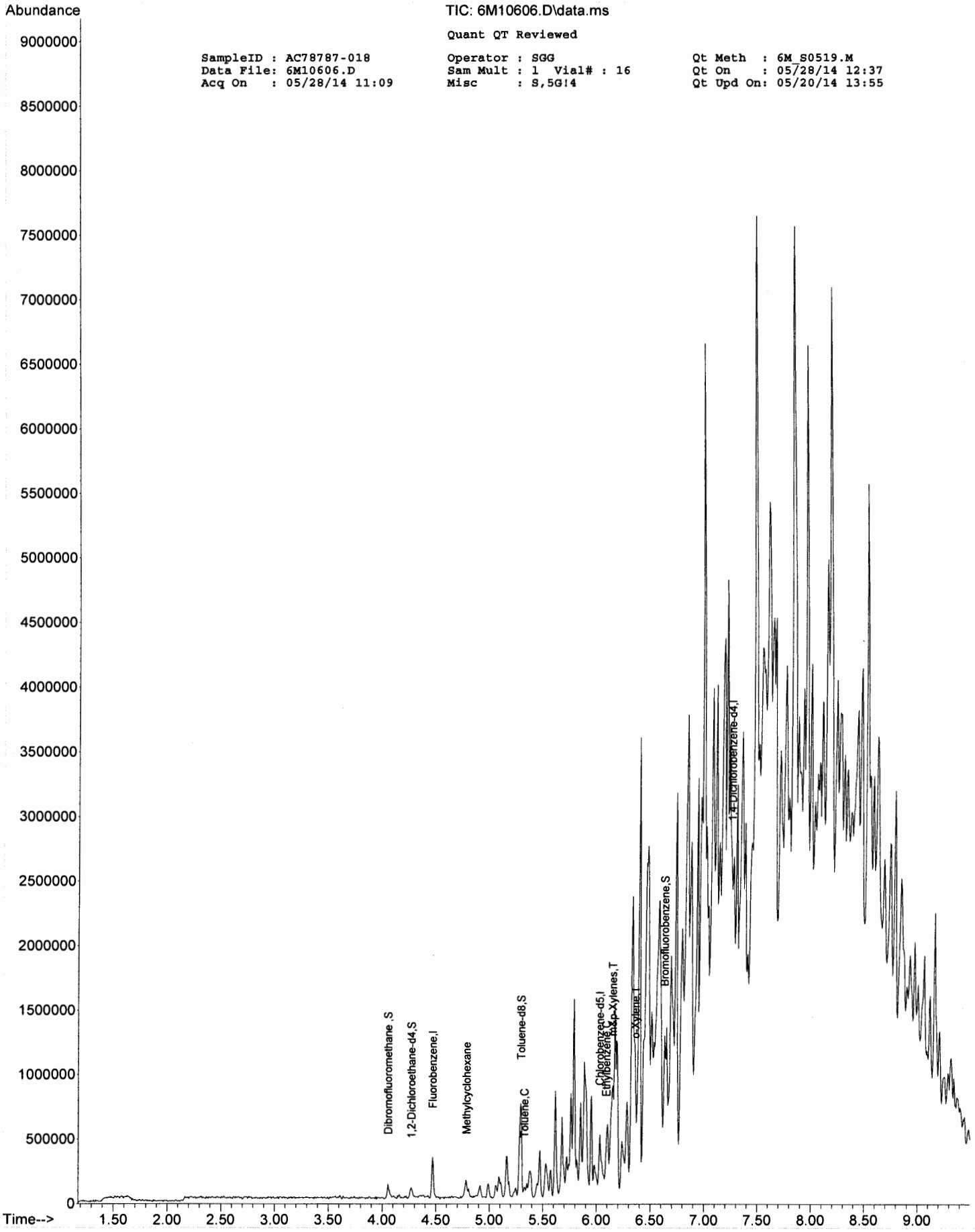
TIC: 6M10606.D\data.ms

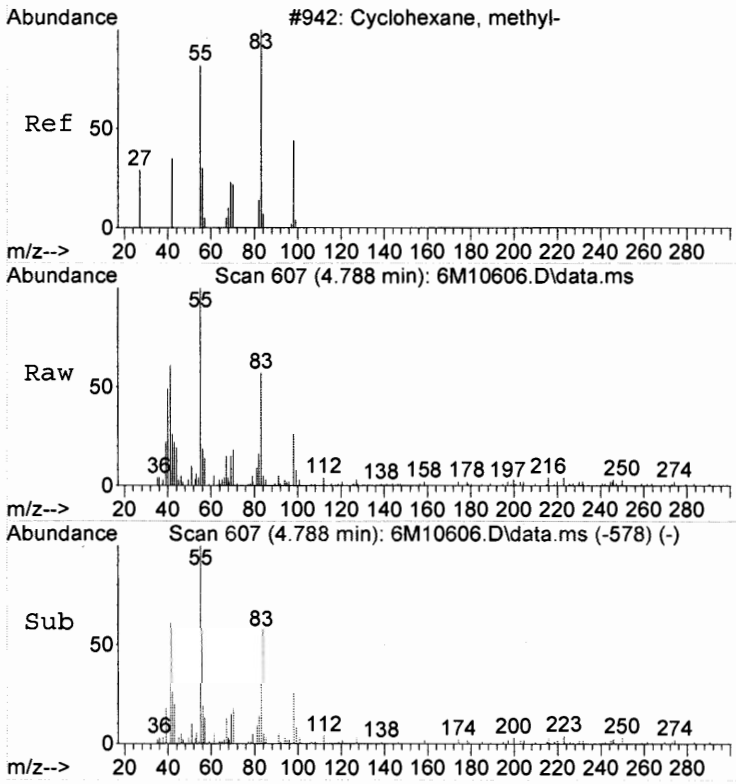
Quant QT Reviewed

SampleID : AC78787-018
Data File: 6M10606.D
Acq On : 05/28/14 11:09

Operator : SGG
Sam Mult : 1 Vial# : 16
Misc : S,5G!4

Qt Meth : 6M_S0519.M
Qt On : 05/28/14 12:37
Qt Upd On: 05/20/14 13:55

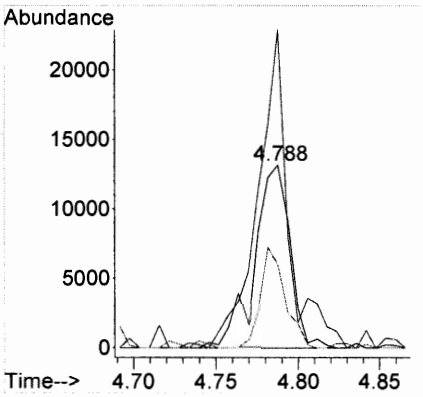


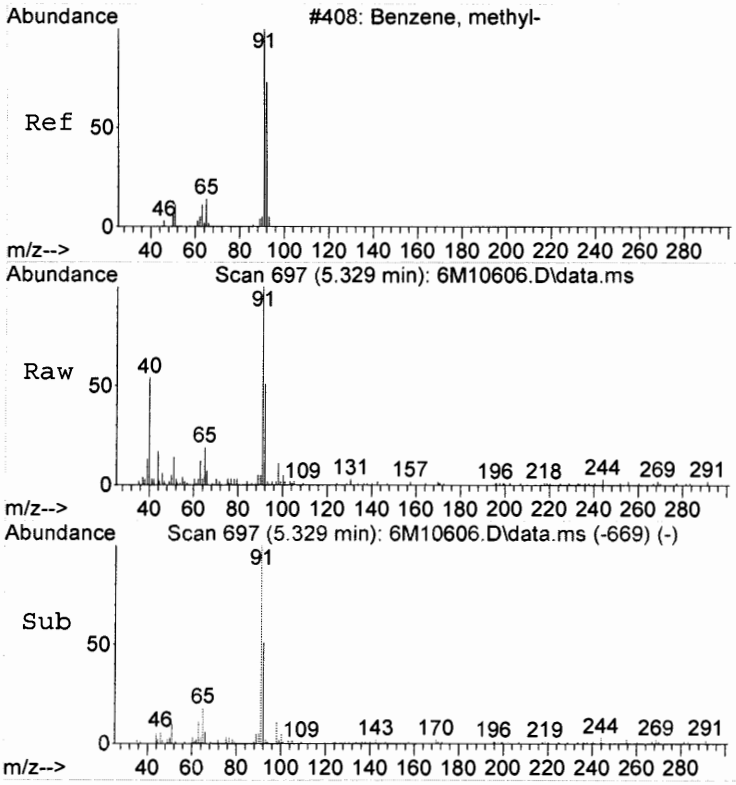


#46
Methylcyclohexane
Concen: 4.49 ug/l
RT: 4.788 min Scan# 607
Delta R.T. -0.005 min
Lab File: 6M10606.D
Acq: 28 May 2014 11:09

Tgt Ion: 83 Resp: 19675

Ion	Ratio	Lower	Upper
83	100		
55	151.2	65.0	185.0
98	38.6	25.0	65.0

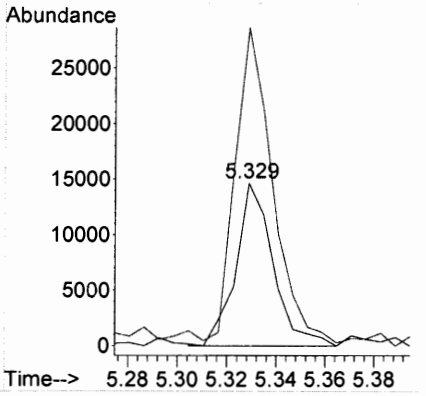


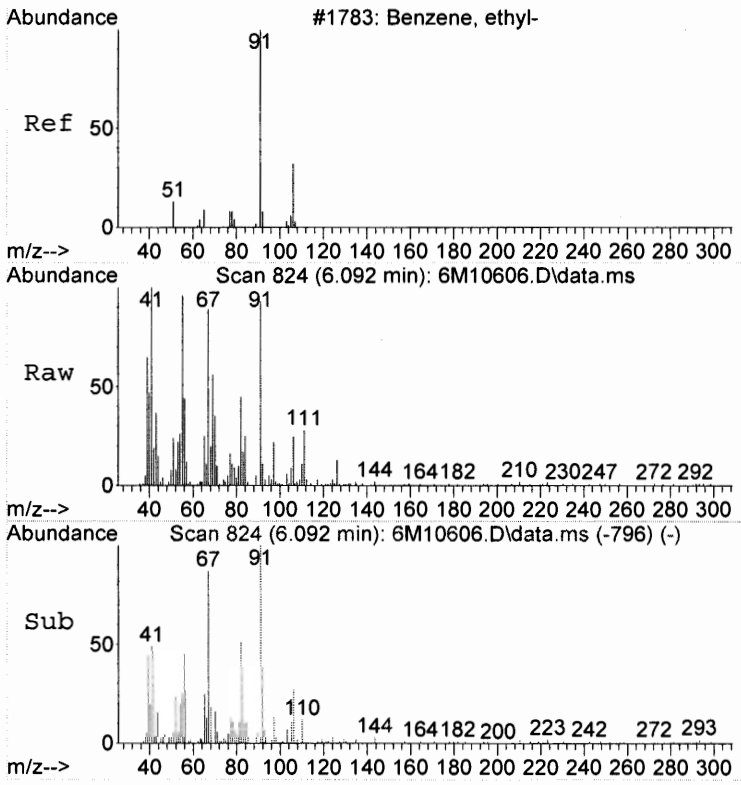


#67
Toluene
Concen: 2.53 ug/l
RT: 5.329 min Scan# 697
Delta R.T. -0.011 min
Lab File: 6M10606.D
Acq: 28 May 2014 11:09

Tgt Ion: 92 Resp: 15357

Ion	Ratio	Lower	Upper
92	100		
91	193.2	99.4	231.8

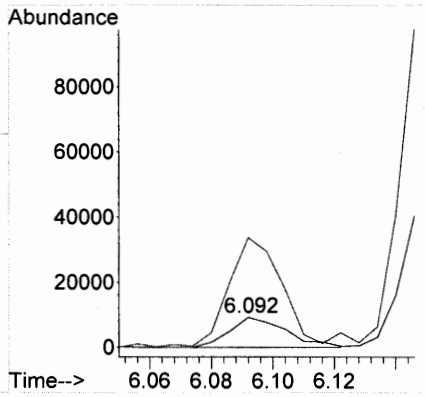


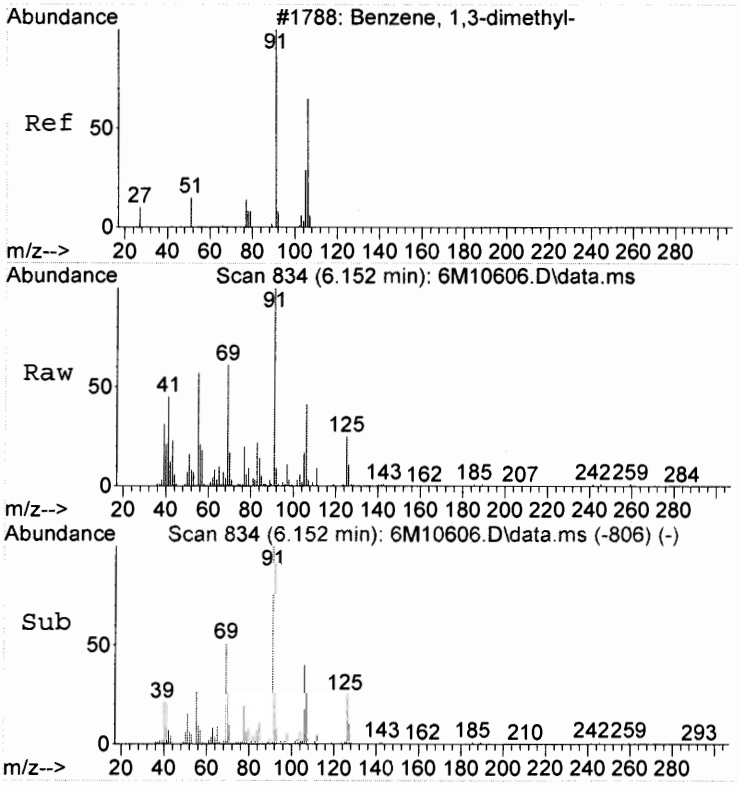


#74
Ethylbenzene
Concen: 2.53 ug/l
RT: 6.092 min Scan# 824
Delta R.T. -0.011 min
Lab File: 6M10606.D
Acq: 28 May 2014 11:09

Tgt Ion:106 Resp: 9158

Ion	Ratio	Lower	Upper
106	100		
91	363.9	219.2	511.6

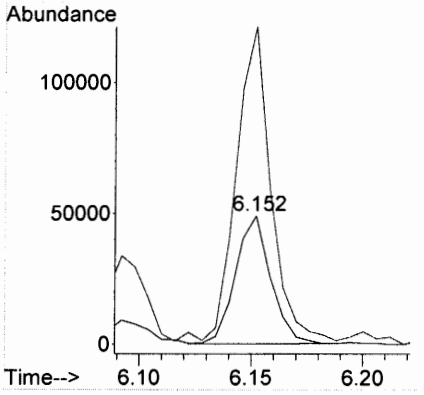


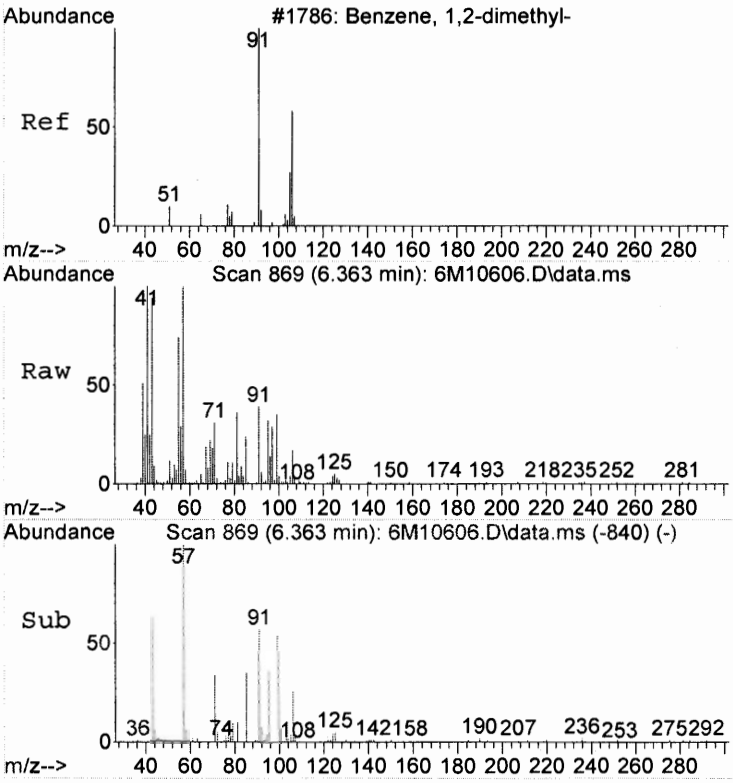


#78
m&p-Xylenes
Concen: 12.05 ug/l
RT: 6.152 min Scan# 834
Delta R.T. -0.012 min
Lab File: 6M10606.D
Acq: 28 May 2014 11:09

Tgt Ion:106 Resp: 53423

Ion	Ratio	Lower	Upper
106	100		
91	245.6	142.4	332.2

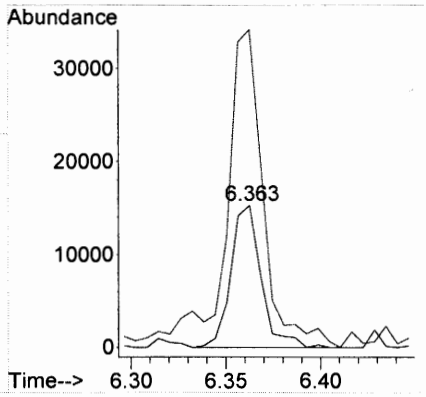




#79
o-Xylene
Concen: 4.33 ug/l
RT: 6.363 min Scan# 869
Delta R.T. -0.005 min
Lab File: 6M10606.D
Acq: 28 May 2014 11:09

Tgt Ion:106 Resp: 16925

Ion	Ratio	Lower	Upper
106	100		
91	223.8	164.4	383.6



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-019
Client Id: SUMP1(0-2')
Data File: 6M10605.D
Analysis Date: 05/28/14 10:53
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.99g
Final Vol: NA
Dilution: 1.00
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0022	U
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0022	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

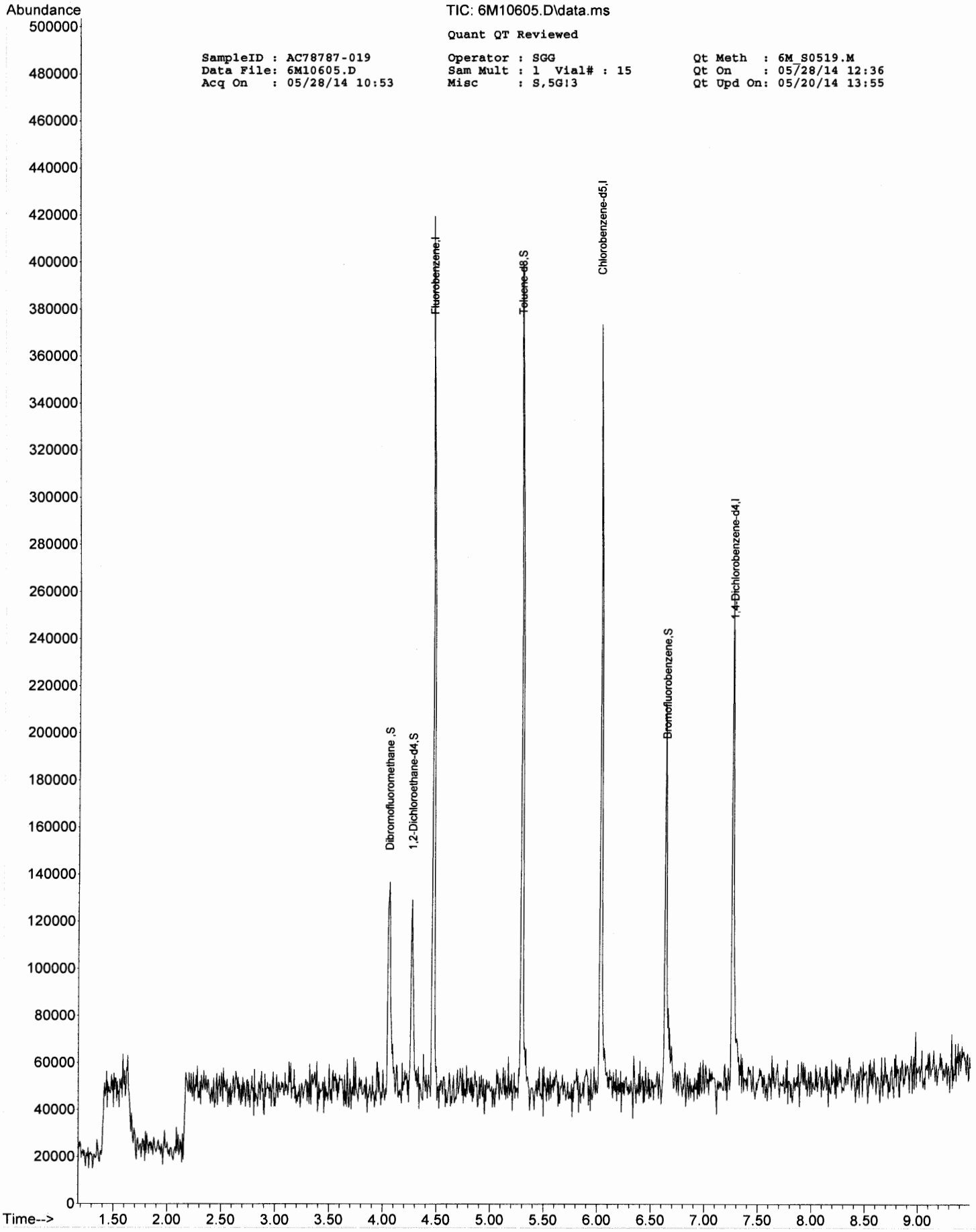
SampleID : AC78787-019 Operator : SGG Qt Meth : 6M_S0519.M
Data File: 6M10605.D Sam Mult : 1 Vial# : 15 Qt On : 05/28/14 12:36
Acq On : 05/28/14 10:53 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-28-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.470	96	154371	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.033	117	97446	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.265	152	39530	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.056	111	45373	32.66	ug/l	-0.02
Spiked Amount 30.000			Recovery = 108.87%			
39) 1,2-Dichloroethane-d4	4.272	67	22305	33.22	ug/l	-0.01
Spiked Amount 30.000			Recovery = 110.73%			
66) Toluene-d8	5.294	98	141037	27.43	ug/l	-0.01
Spiked Amount 30.000			Recovery = 91.43%			
76) Bromofluorobenzene	6.640	174	30203	31.02	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.40%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10605.D\data.ms
Quant QT Reviewed
SampleID : AC78787-019
Data File: 6M10605.D
Acq On : 05/28/14 10:53
Operator : SGG
Sam Mult : 1 Vial# : 15
Misc : S,5G!3
Qt Meth : 6M_S0519.M
Qt On : 05/28/14 12:36
Qt Upd On: 05/20/14 13:55
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-020
Client Id: SUMP1(3-5')
Data File: 6M10667.D
Analysis Date: 05/29/14 12:42
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.99g
Final Vol: NA
Dilution: 1.00
Solids: 94

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0021	U	56-23-5	Carbon Tetrachloride	0.0021	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0021	U	108-90-7	Chlorobenzene	0.0021	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0021	U	75-00-3	Chloroethane	0.0021	U
79-00-5	1,1,2-Trichloroethane	0.0021	U	67-66-3	Chloroform	0.0021	U
75-34-3	1,1-Dichloroethane	0.0021	U	74-87-3	Chloromethane	0.0021	U
75-35-4	1,1-Dichloroethene	0.0021	U	156-59-2	cis-1,2-Dichloroethene	0.0021	U
87-61-6	1,2,3-Trichlorobenzene	0.0021	U	10061-01-5	cis-1,3-Dichloropropene	0.0021	U
120-82-1	1,2,4-Trichlorobenzene	0.0021	U	110-82-7	Cyclohexane	0.0021	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0021	U	124-48-1	Dibromochloromethane	0.0021	U
106-93-4	1,2-Dibromoethane	0.0021	U	75-71-8	Dichlorodifluoromethane	0.0021	U
95-50-1	1,2-Dichlorobenzene	0.0021	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0021	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0021	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0021	U	79-20-9	Methyl Acetate	0.0021	U
106-46-7	1,4-Dichlorobenzene	0.0021	U	108-87-2	Methylcyclohexane	0.0021	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0021	U
78-93-3	2-Butanone	0.0021	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0021	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0021	U	100-42-5	Styrene	0.0021	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0021	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0021	U	156-60-5	trans-1,2-Dichloroethene	0.0021	U
75-27-4	Bromodichloromethane	0.0021	U	10061-02-6	trans-1,3-Dichloropropene	0.0021	U
75-25-2	Bromoform	0.0021	U	79-01-6	Trichloroethene	0.0021	U
74-83-9	Bromomethane	0.0021	U	75-69-4	Trichlorofluoromethane	0.0021	U
75-15-0	Carbon Disulfide	0.0021	U	75-01-4	Vinyl Chloride	0.0021	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

SampleID : AC78787-020 Operator : SGG Qt Meth : 6M_S0519.M
Data File: 6M10667.D Sam Mult : 1 Vial# : 24 Qt On : 05/29/14 13:19
Acq On : 05/29/14 12:42 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.463	96	157905	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.026	117	83573	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.258	152	40061	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.048	111	48429	34.08	ug/l	-0.02
Spiked Amount 30.000			Recovery = 113.60%			
39) 1,2-Dichloroethane-d4	4.265	67	20294	29.55	ug/l	-0.02
Spiked Amount 30.000			Recovery = 98.50%			
66) Toluene-d8	5.292	98	137334	31.14	ug/l	-0.01
Spiked Amount 30.000			Recovery = 103.80%			
76) Bromofluorobenzene	6.633	174	31010	31.43	ug/l	-0.01
Spiked Amount 30.000			Recovery = 104.77%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

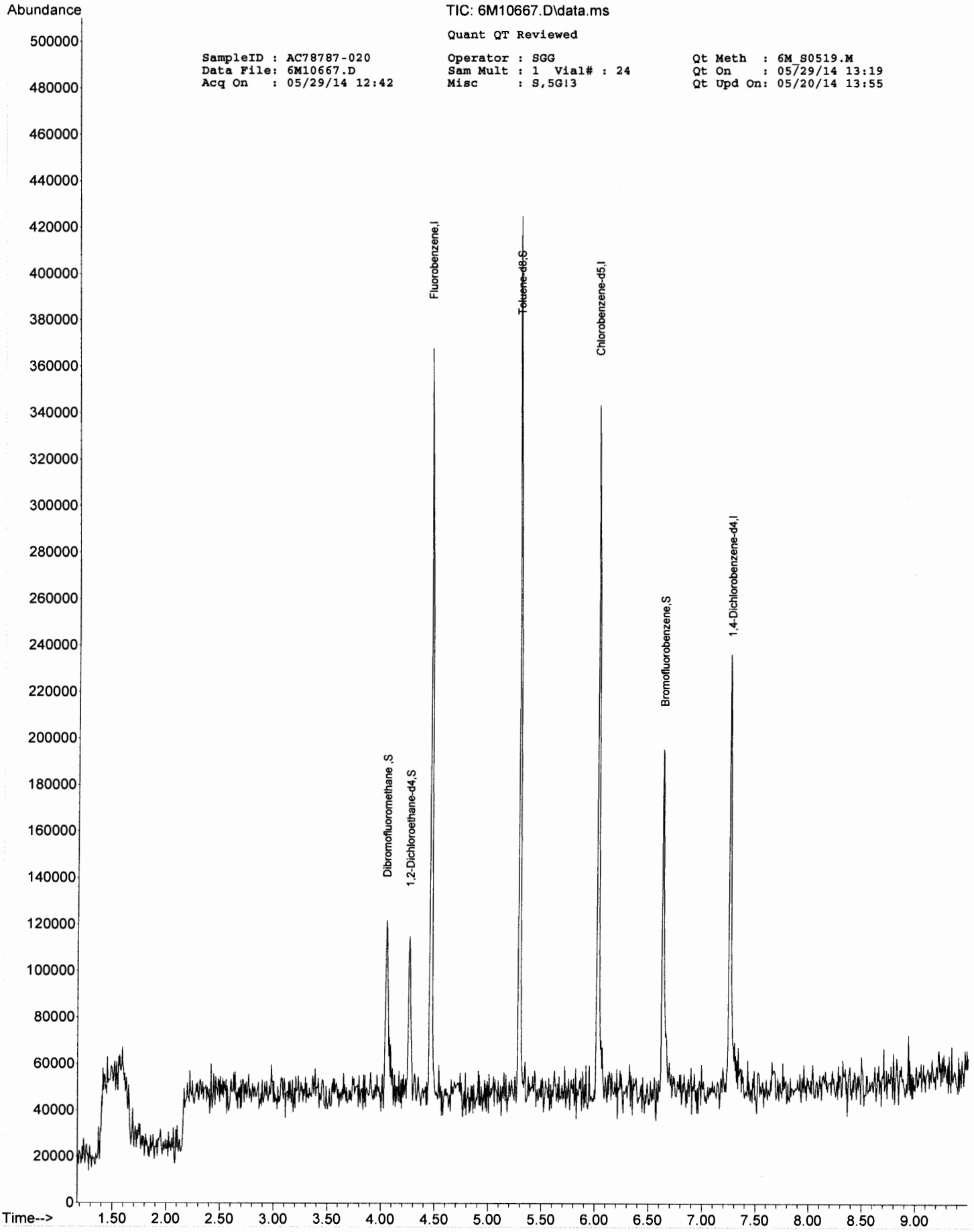
TIC: 6M10667.D\data.ms

Quant QT Reviewed

SampleID : AC78787-020
Data File: 6M10667.D
Acq On : 05/29/14 12:42

Operator : SGG
Sam Mult : 1 Vial# : 24
Misc : S,5G13

Qt Meth : 6M_S0519.M
Qt On : 05/29/14 13:19
Qt Upd On: 05/20/14 13:55



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-021
Client Id: BASE 1(0-2')
Data File: 6M10688.D
Analysis Date: 05/29/14 18:39
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.01g
Final Vol: NA
Dilution: 0.998
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	**75-09-2**	**Methylene Chloride**	**0.0022**	**0.0046**
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	**127-18-4**	**Tetrachloroethene**	**0.0022**	**0.0078**
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422

Total Target Concentration 0.012

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

SampleID : AC78787-021 Operator : SGG Qt Meth : 6M_S0519.M
Data File: 6M10688.D Sam Mult : 1 Vial# : 30 Qt On : 05/30/14 07:34
Acq On : 05/29/14 18:39 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.469	96	154725	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.031	117	82271	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.258	152	42848	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.048	111	48403	34.76	ug/l	-0.02
Spiked Amount 30.000			Recovery = 115.87%			
39) 1,2-Dichloroethane-d4	4.264	67	18019	26.77	ug/l	-0.02
Spiked Amount 30.000			Recovery = 89.23%			
66) Toluene-d8	5.292	98	140058	32.26	ug/l	-0.01
Spiked Amount 30.000			Recovery = 107.53%			
76) Bromofluorobenzene	6.632	174	28240	26.76	ug/l	-0.01
Spiked Amount 30.000			Recovery = 89.20%			
Target Compounds						Qvalue
15) Methylene Chloride	2.731	84	8201	4.1195	ug/l	60
65) Tetrachloroethene	5.617	164	12267	6.9475	ug/l	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

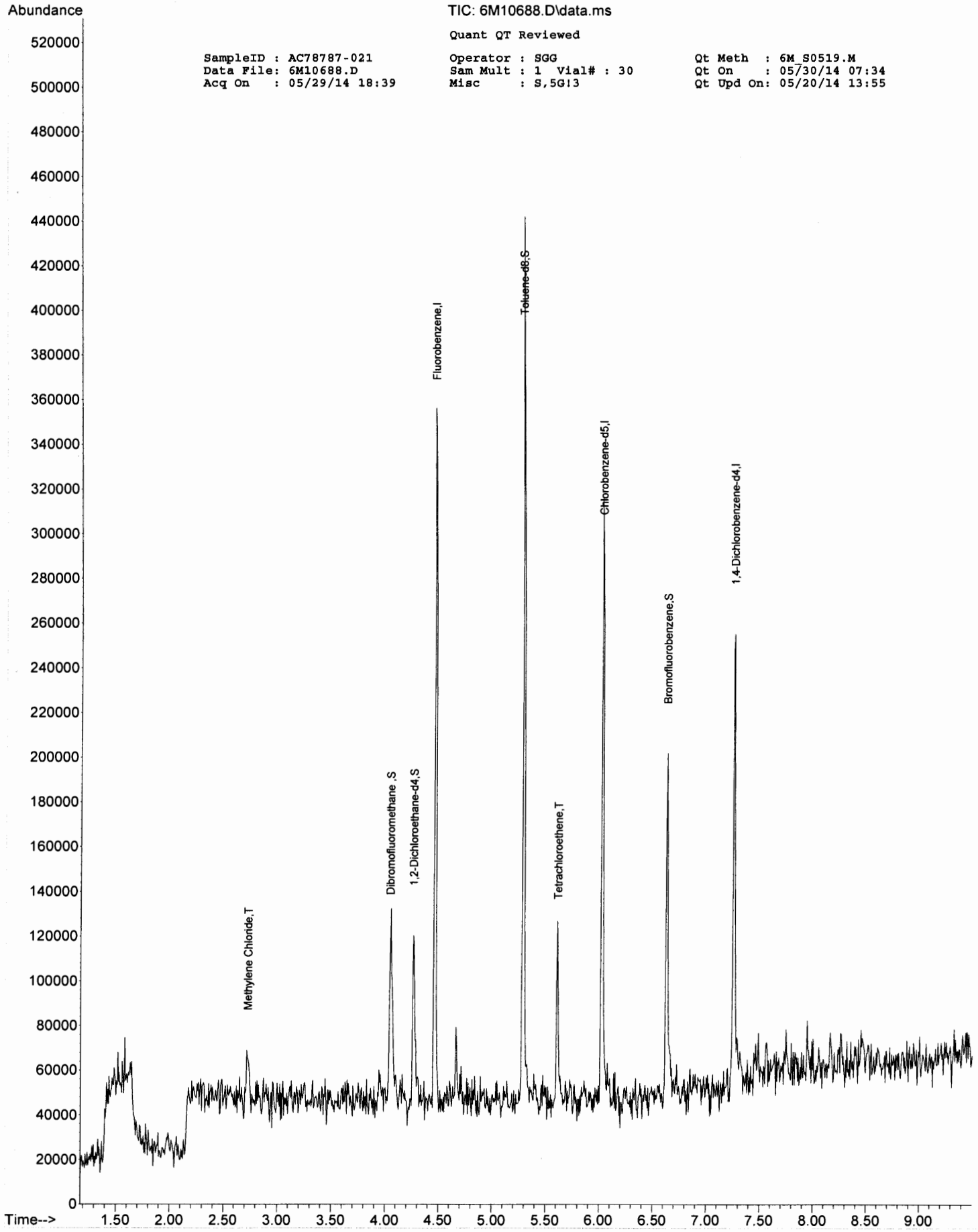
TIC: 6M10688.D\data.ms

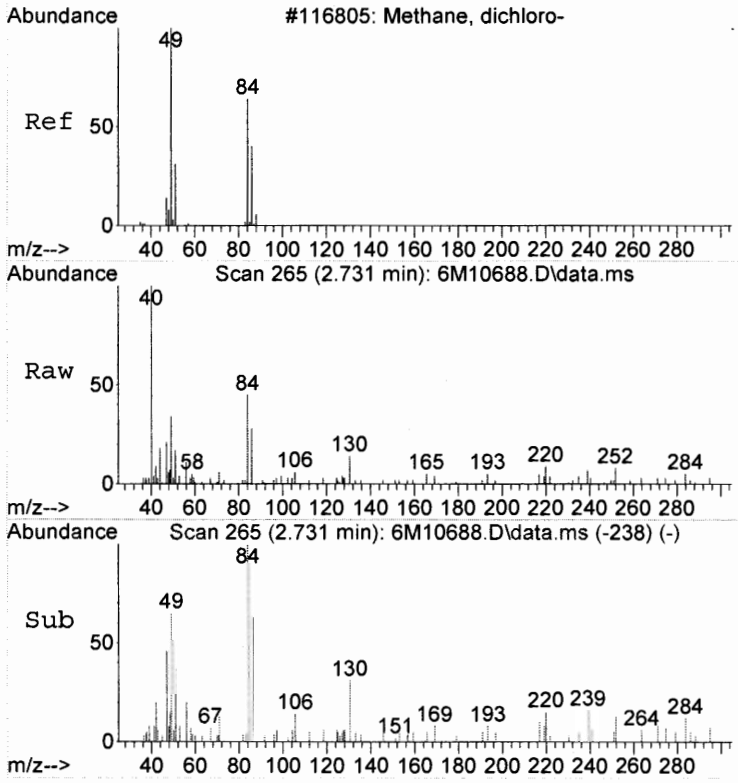
Quant QT Reviewed

SampleID : AC78787-021
Data File: 6M10688.D
Acq On : 05/29/14 18:39

Operator : SGG
Sam Mult : 1 Vial# : 30
Misc : S,5G!3

Qt Meth : 6M_S0519.M
Qt On : 05/30/14 07:34
Qt Upd On: 05/20/14 13:55

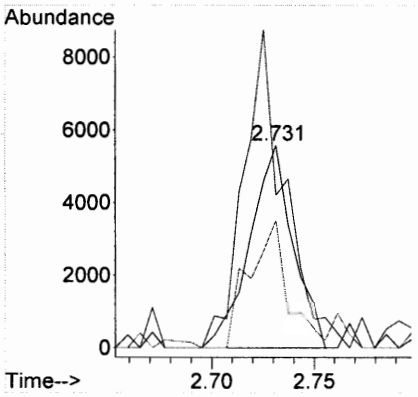


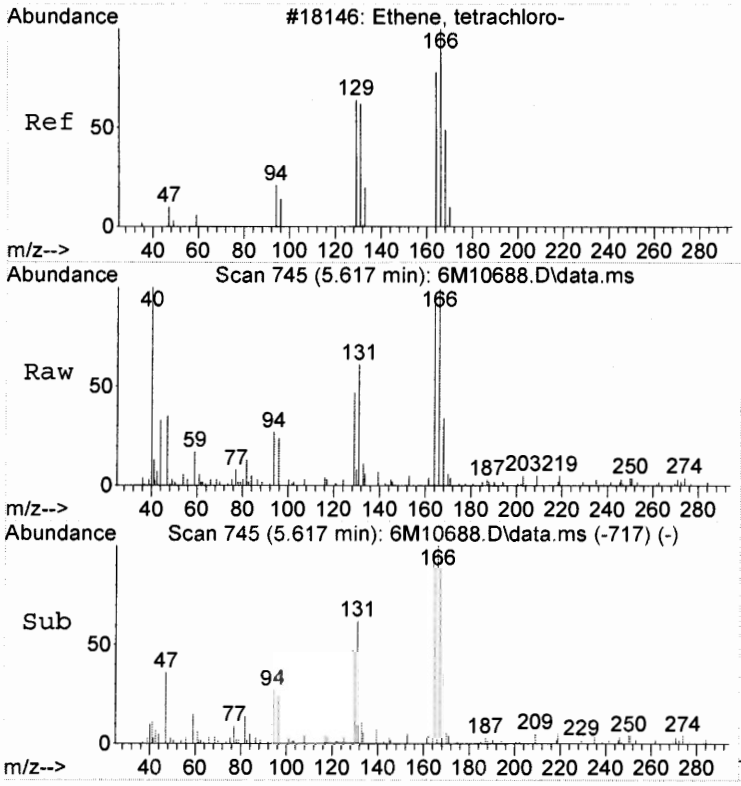


#15
Methylene Chloride
Concen: 4.12 ug/l
RT: 2.731 min Scan# 265
Delta R.T. -0.018 min
Lab File: 6M10688.D
Acq: 29 May 2014 18:39

Tgt Ion: 84 Resp: 8201

Ion	Ratio	Lower	Upper
84	100		
49	75.4	56.4	225.6
86	60.2	28.0	112.0

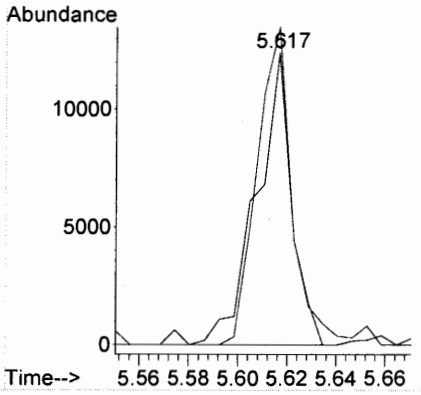




#65
Tetrachloroethene
Concen: 6.95 ug/l
RT: 5.617 min Scan# 745
Delta R.T. -0.012 min
Lab File: 6M10688.D
Acq: 29 May 2014 18:39

Tgt Ion:164 Resp: 12267

Ion	Ratio	Lower	Upper
164	100		
166	108.8	61.8	201.8



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-022
Client Id: BASE 1(3-5')
Data File: 6M10668.D
Analysis Date: 05/29/14 12:59
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.01g
Final Vol: NA
Dilution: 0.998
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0021	U	56-23-5	Carbon Tetrachloride	0.0021	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0021	U	108-90-7	Chlorobenzene	0.0021	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0021	U	75-00-3	Chloroethane	0.0021	U
79-00-5	1,1,2-Trichloroethane	0.0021	U	67-66-3	Chloroform	0.0021	U
75-34-3	1,1-Dichloroethane	0.0021	U	74-87-3	Chloromethane	0.0021	U
75-35-4	1,1-Dichloroethene	0.0021	U	156-59-2	cis-1,2-Dichloroethene	0.0021	U
87-61-6	1,2,3-Trichlorobenzene	0.0021	U	10061-01-5	cis-1,3-Dichloropropene	0.0021	U
120-82-1	1,2,4-Trichlorobenzene	0.0021	U	110-82-7	Cyclohexane	0.0021	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0021	U	124-48-1	Dibromochloromethane	0.0021	U
106-93-4	1,2-Dibromoethane	0.0021	U	75-71-8	Dichlorodifluoromethane	0.0021	U
95-50-1	1,2-Dichlorobenzene	0.0021	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0021	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0021	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0021	U	79-20-9	Methyl Acetate	0.0021	U
106-46-7	1,4-Dichlorobenzene	0.0021	U	108-87-2	Methylcyclohexane	0.0021	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0021	U
78-93-3	2-Butanone	0.0021	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0021	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0021	U	100-42-5	Styrene	0.0021	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0021	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0021	U	156-60-5	trans-1,2-Dichloroethene	0.0021	U
75-27-4	Bromodichloromethane	0.0021	U	10061-02-6	trans-1,3-Dichloropropene	0.0021	U
75-25-2	Bromoform	0.0021	U	79-01-6	Trichloroethene	0.0021	U
74-83-9	Bromomethane	0.0021	U	75-69-4	Trichlorofluoromethane	0.0021	U
75-15-0	Carbon Disulfide	0.0021	U	75-01-4	Vinyl Chloride	0.0021	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

SampleID : AC78787-022 Operator : SGG Qt Meth : 6M_S0519.M
Data File: 6M10668.D Sam Mult : 1 Vial# : 25 Qt On : 05/29/14 13:19
Acq On : 05/29/14 12:59 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.463	96	158579	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.026	117	93126	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.258	152	40281	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.048	111	49911	34.97	ug/l	-0.02
Spiked Amount 30.000			Recovery = 116.57%			
39) 1,2-Dichloroethane-d4	4.265	67	23428	33.96	ug/l	-0.02
Spiked Amount 30.000			Recovery = 113.20%			
66) Toluene-d8	5.293	98	140994	28.69	ug/l	-0.01
Spiked Amount 30.000			Recovery = 95.63%			
76) Bromofluorobenzene	6.633	174	30397	30.64	ug/l	-0.01
Spiked Amount 30.000			Recovery = 102.13%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

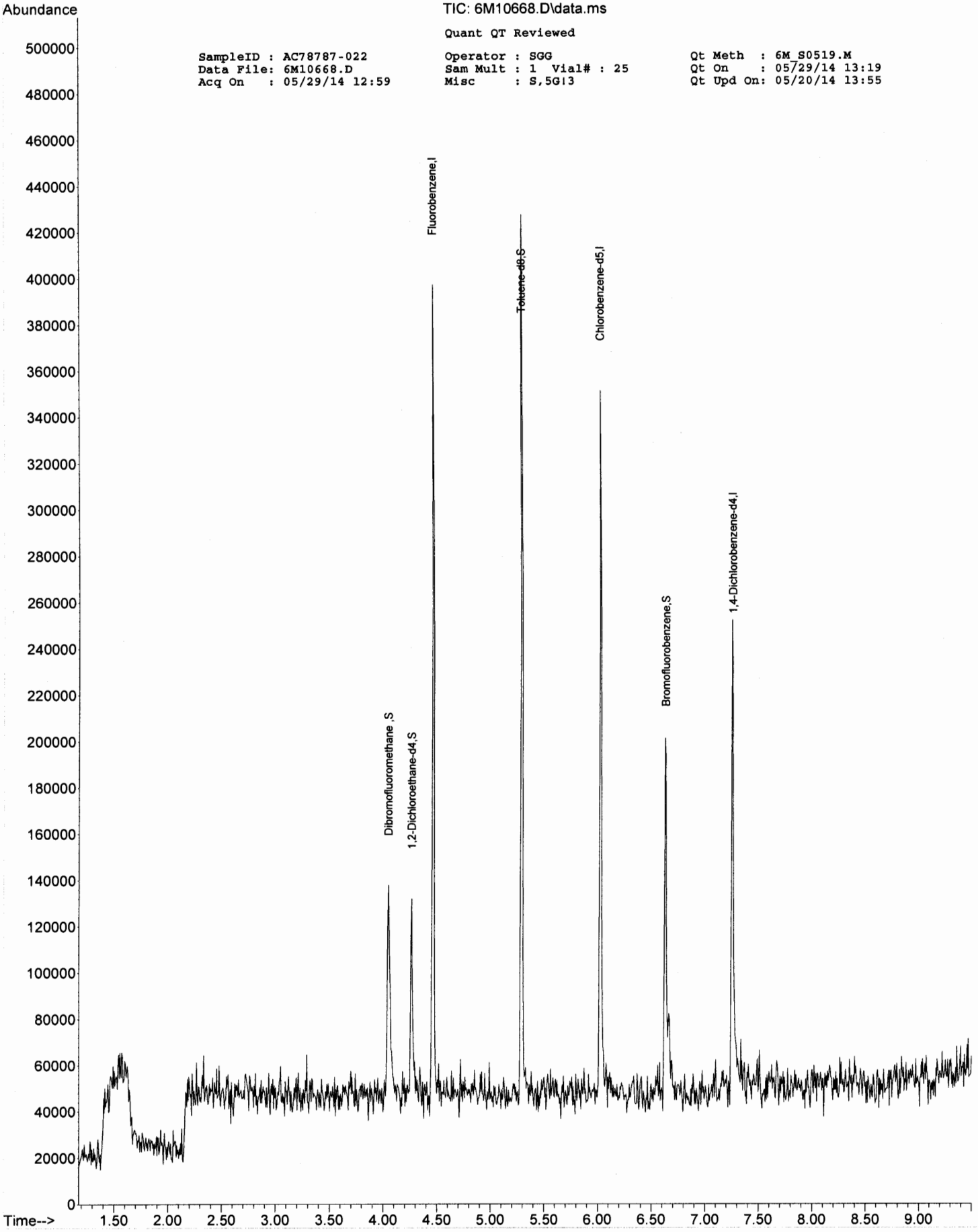
TIC: 6M10668.D\data.ms

Quant QT Reviewed

SampleID : AC78787-022
Data File: 6M10668.D
Acq On : 05/29/14 12:59

Operator : SGG
Sam Mult : 1 Vial# : 25
Misc : S,5G13

Qt Meth : 6M_S0519.M
Qt On : 05/29/14 13:19
Qt Upd On: 05/20/14 13:55



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-023
Client Id: BASE 2 (0-2')
Data File: 6M10673.D
Analysis Date: 05/29/14 14:25
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.98g
Final Vol: NA
Dilution: 1.00
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0022	U
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0022	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

SampleID : AC78787-023 Operator : SGG Qt Meth : 6M_S0519.M
Data File: 6M10673.D Sam Mult : 1 Vial# : 27 Qt On : 05/29/14 15:13
Acq On : 05/29/14 14:25 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.463	96	159504	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.032	117	85714	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.258	152	42844	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.048	111	46403	32.33	ug/l	-0.02
Spiked Amount 30.000			Recovery = 107.77%			
39) 1,2-Dichloroethane-d4	4.265	67	21095	30.41	ug/l	-0.02
Spiked Amount 30.000			Recovery = 101.37%			
66) Toluene-d8	5.293	98	138717	30.67	ug/l	-0.01
Spiked Amount 30.000			Recovery = 102.23%			
76) Bromofluorobenzene	6.633	174	33527	31.77	ug/l	-0.01
Spiked Amount 30.000			Recovery = 105.90%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

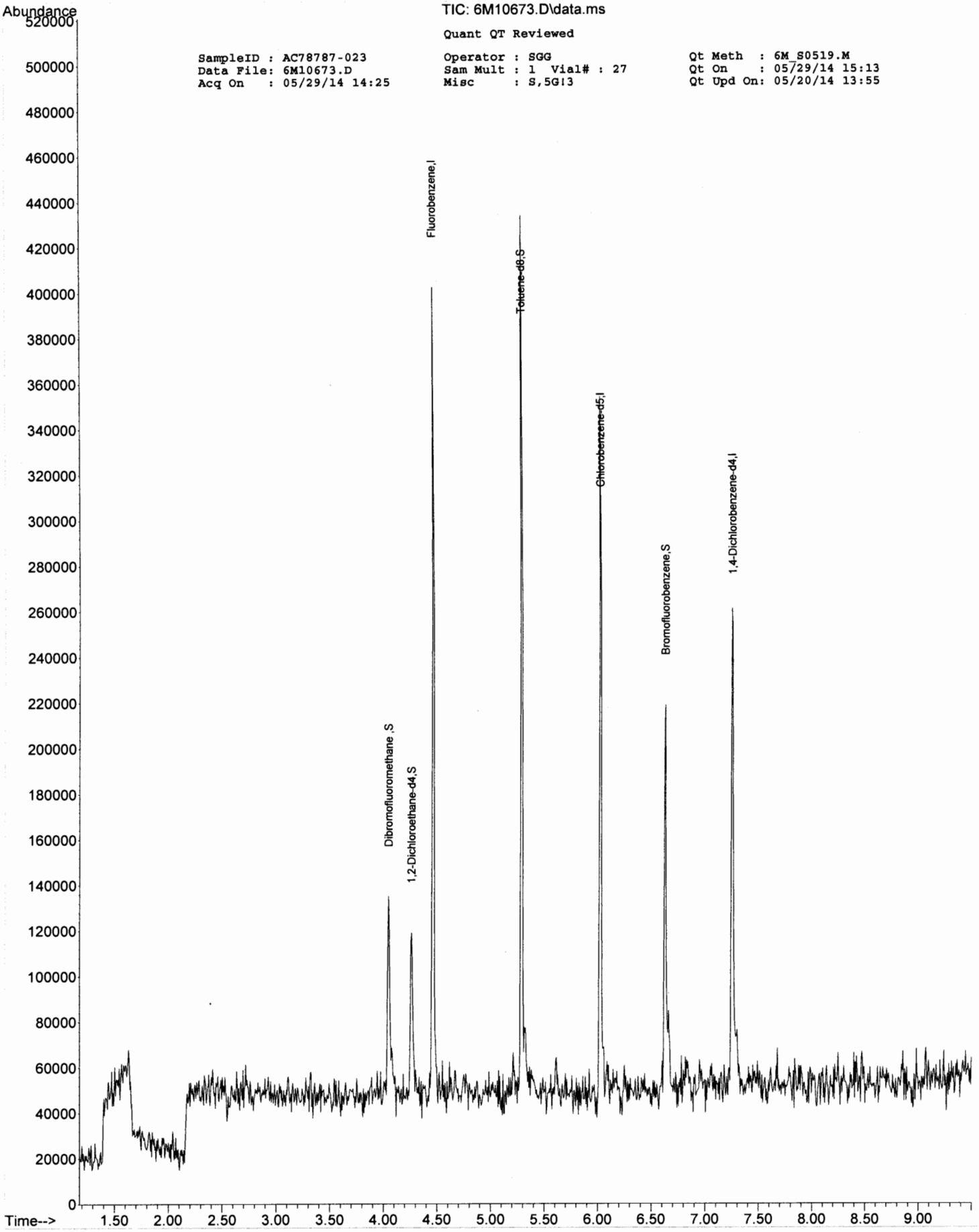
TIC: 6M10673.D\data.ms

Quant QT Reviewed

SampleID : AC78787-023
Data File: 6M10673.D
Acq On : 05/29/14 14:25

Operator : SGG
Sam Mult : 1 Vial# : 27
Misc : S,5G!3

Qt Meth : 6M_S0519.M
Qt On : 05/29/14 15:13
Qt Upd On: 05/20/14 13:55



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-024
Client Id: BASE 2 (3-5')
Data File: 6M10685.D
Analysis Date: 05/29/14 17:49
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.99g
Final Vol: NA
Dilution: 1.00
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0021	U	56-23-5	Carbon Tetrachloride	0.0021	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0021	U	108-90-7	Chlorobenzene	0.0021	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0021	U	75-00-3	Chloroethane	0.0021	U
79-00-5	1,1,2-Trichloroethane	0.0021	U	67-66-3	Chloroform	0.0021	U
75-34-3	1,1-Dichloroethane	0.0021	U	74-87-3	Chloromethane	0.0021	U
75-35-4	1,1-Dichloroethene	0.0021	U	156-59-2	cis-1,2-Dichloroethene	0.0021	U
87-61-6	1,2,3-Trichlorobenzene	0.0021	U	10061-01-5	cis-1,3-Dichloropropene	0.0021	U
120-82-1	1,2,4-Trichlorobenzene	0.0021	U	110-82-7	Cyclohexane	0.0021	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0021	U	124-48-1	Dibromochloromethane	0.0021	U
106-93-4	1,2-Dibromoethane	0.0021	U	75-71-8	Dichlorodifluoromethane	0.0021	U
95-50-1	1,2-Dichlorobenzene	0.0021	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0021	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0021	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0021	U	79-20-9	Methyl Acetate	0.0021	U
106-46-7	1,4-Dichlorobenzene	0.0021	U	108-87-2	Methylcyclohexane	0.0021	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0021	U
78-93-3	2-Butanone	0.0021	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0021	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0021	U	100-42-5	Styrene	0.0021	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0021	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0021	U	156-60-5	trans-1,2-Dichloroethene	0.0021	U
75-27-4	Bromodichloromethane	0.0021	U	10061-02-6	trans-1,3-Dichloropropene	0.0021	U
75-25-2	Bromoform	0.0021	U	79-01-6	Trichloroethene	0.0021	U
74-83-9	Bromomethane	0.0021	U	75-69-4	Trichlorofluoromethane	0.0021	U
75-15-0	Carbon Disulfide	0.0021	U	75-01-4	Vinyl Chloride	0.0021	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 0338

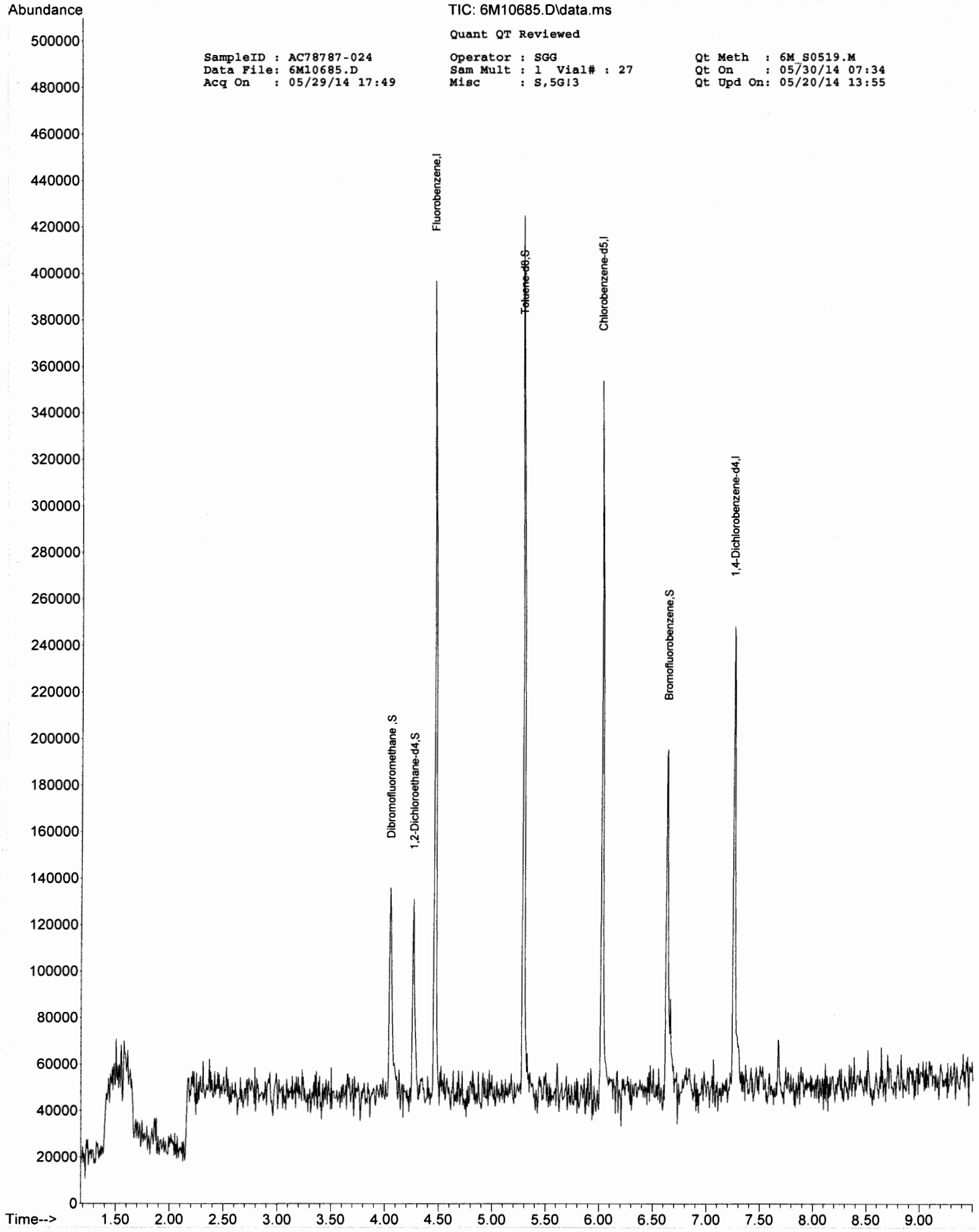
SampleID : AC78787-024 Operator : SGG Qt Meth : 6M_S0519.M
Data File: 6M10685.D Sam Mult : 1 Vial# : 27 Qt On : 05/30/14 07:34
Acq On : 05/29/14 17:49 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.464	96	167944	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.027	117	88211	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.253	152	39676	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.049	111	48589	32.15	ug/l	-0.02
Spiked Amount 30.000			Recovery = 107.17%			
39) 1,2-Dichloroethane-d4	4.266	67	24330	33.31	ug/l	-0.02
Spiked Amount 30.000			Recovery = 111.03%			
66) Toluene-d8	5.293	98	144957	31.14	ug/l	-0.01
Spiked Amount 30.000			Recovery = 103.80%			
76) Bromofluorobenzene	6.634	174	31409	32.14	ug/l	-0.01
Spiked Amount 30.000			Recovery = 107.13%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10685.D\data.ms
Quant QT Reviewed
SampleID : AC78787-024
Data File: 6M10685.D
Acq On : 05/29/14 17:49
Operator : SGG
Sam Mult : 1 Vial# : 27
Misc : S,5G!3
Qt Meth : 6M_S0519.M
Qt On : 05/30/14 07:34
Qt Upd On: 05/20/14 13:55
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-025
Client Id: BASE 3 (0-2')
Data File: 6M10686.D
Analysis Date: 05/29/14 18:06
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.02g
Final Vol: NA
Dilution: 0.996
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0022	U
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	**127-18-4**	**Tetrachloroethene**	**0.0022**	**0.0052**
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304422

Total Target Concentration 0.0052

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

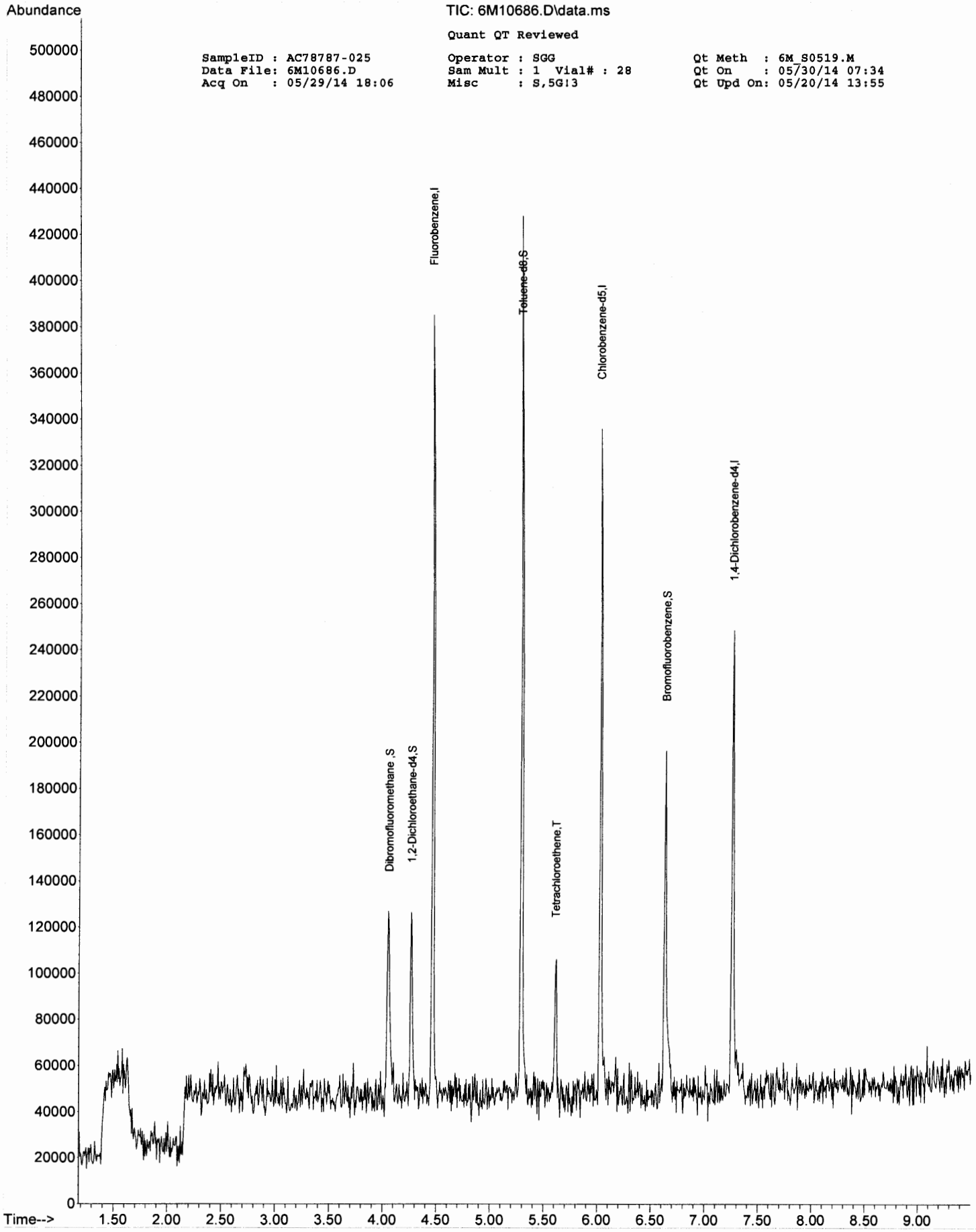
Quantitation Report (QT Reviewed)

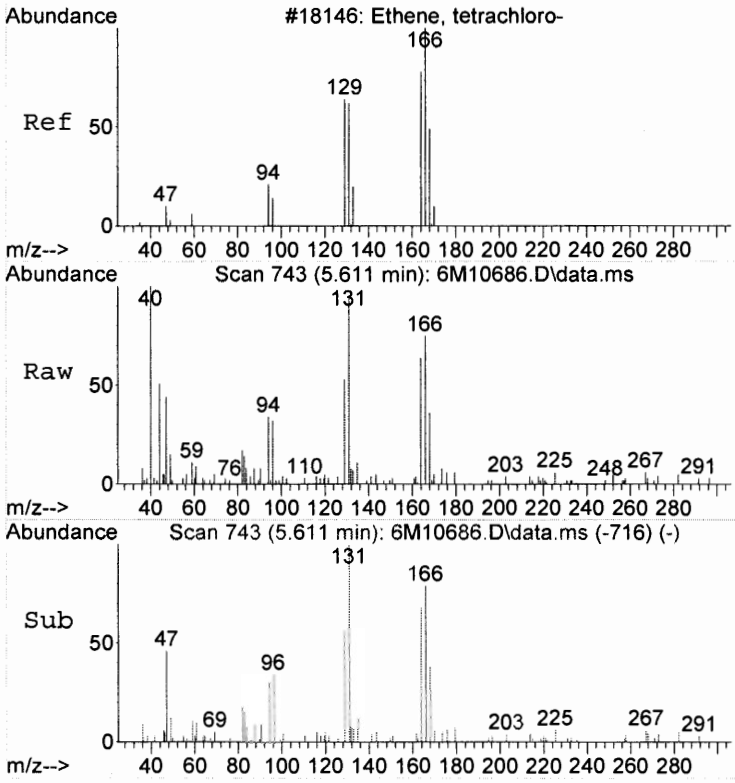
SampleID : AC78787-025 Operator : SGG Qt Meth : 6M_S0519.M
Data File: 6M10686.D Sam Mult : 1 Vial# : 28 Qt On : 05/30/14 07:34
Acq On : 05/29/14 18:06 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.463	96	159531	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.026	117	87659	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.258	152	40128	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.054	111	45875m	31.95	ug/l	-0.02
Spiked Amount 30.000			Recovery = 106.50%			
39) 1,2-Dichloroethane-d4	4.264	67	19384	27.93	ug/l	-0.02
Spiked Amount 30.000			Recovery = 93.10%			
66) Toluene-d8	5.292	98	146635	31.70	ug/l	-0.01
Spiked Amount 30.000			Recovery = 105.67%			
76) Bromofluorobenzene	6.633	174	28684	29.02	ug/l	-0.01
Spiked Amount 30.000			Recovery = 96.73%			
Target Compounds						Qvalue
65) Tetrachloroethene	5.611	164	9062	4.8159	ug/l	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

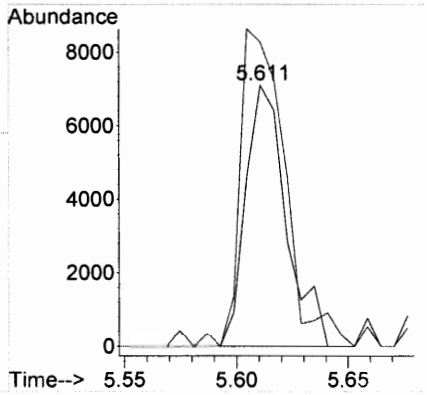

Abundance
TIC: 6M10686.D\data.ms
Quant QT Reviewed
SampleID : AC78787-025
Data File: 6M10686.D
Acq On : 05/29/14 18:06
Operator : SGG
Sam Mult : 1 Vial# : 28
Misc : S,5G!3
Qt Meth : 6M_S0519.M
Qt On : 05/30/14 07:34
Qt Upd On: 05/20/14 13:55
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->



#65
Tetrachloroethene
Concen: 4.82 ug/l
RT: 5.611 min Scan# 743
Delta R.T. -0.018 min
Lab File: 6M10686.D
Acq: 29 May 2014 18:06

Tgt Ion:164 Resp: 9062

Ion	Ratio	Lower	Upper
164	100		
166	116.5	61.8	201.8



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC78787-026
Client Id: BASE 3 (3-5')
Data File: 6M10687.D
Analysis Date: 05/29/14 18:22
Date Rec/Extracted: 05/20/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0022	U
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	**127-18-4**	**Tetrachloroethene**	**0.0022**	**0.0029**
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 304423

Total Target Concentration 0.0029

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

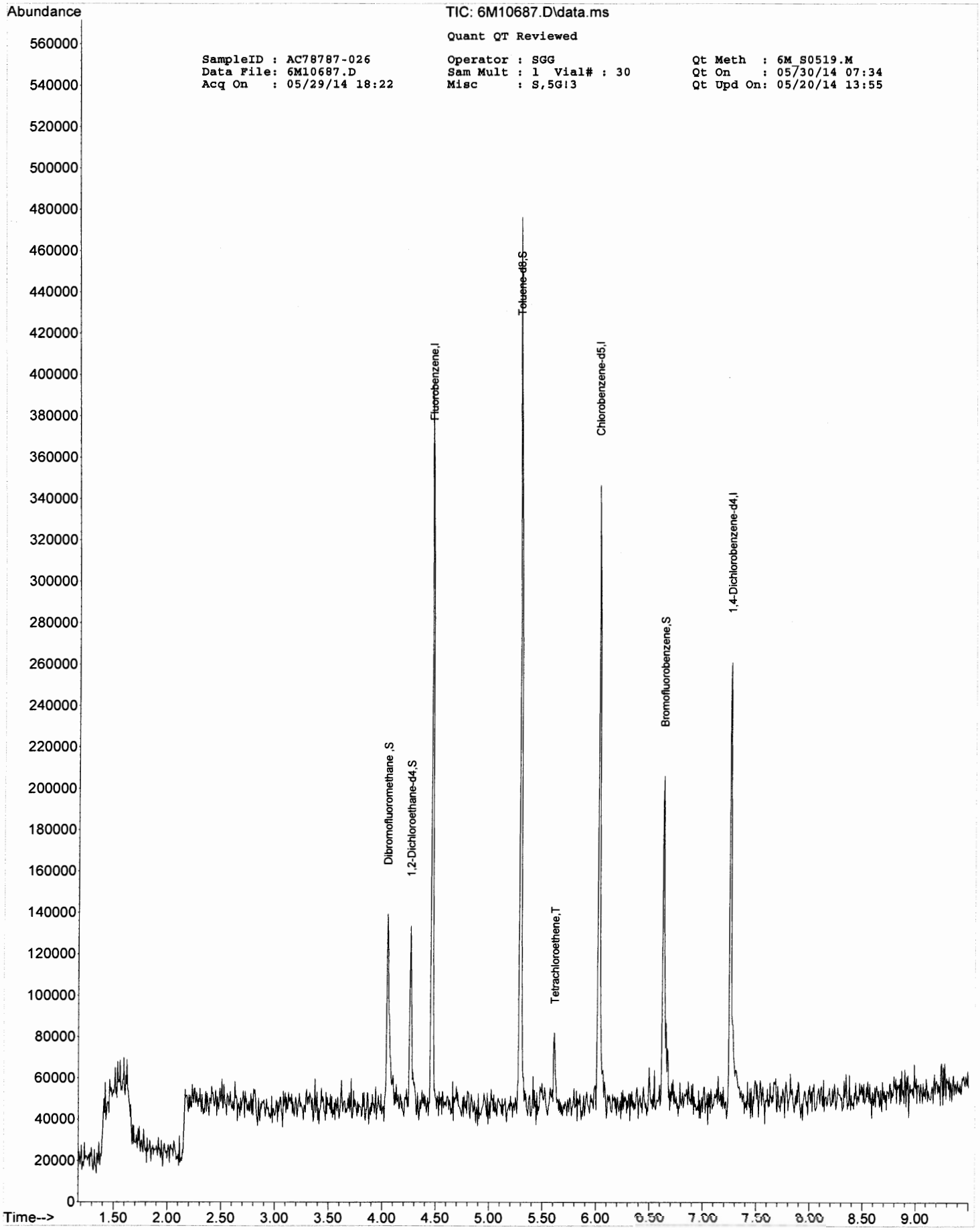
4052101 0345

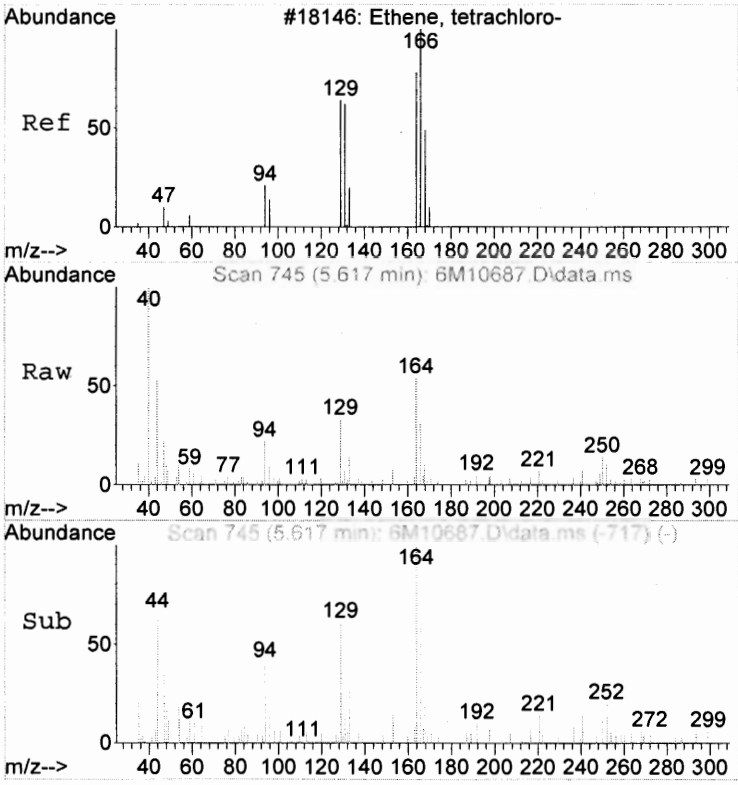
SampleID : AC78787-026 Operator : SGG Qt Meth : 6M_S0519.M
Data File: 6M10687.D Sam Mult : 1 Vial# : 30 Qt On : 05/30/14 07:34
Acq On : 05/29/14 18:22 Misc : S,5G!3 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.469	96	165354	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.026	117	93742	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.258	152	42980	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.048	111	44047	29.60	ug/l	-0.02
Spiked Amount 30.000			Recovery = 98.67%			
39) 1,2-Dichloroethane-d4	4.265	67	21292	29.60	ug/l	-0.02
Spiked Amount 30.000			Recovery = 98.67%			
66) Toluene-d8	5.293	98	158258	31.99	ug/l	-0.01
Spiked Amount 30.000			Recovery = 106.63%			
76) Bromofluorobenzene	6.633	174	31531m	29.78	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.27%			
Target Compounds						Qvalue
65) Tetrachloroethene	5.617	164	5483m	2.7242	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

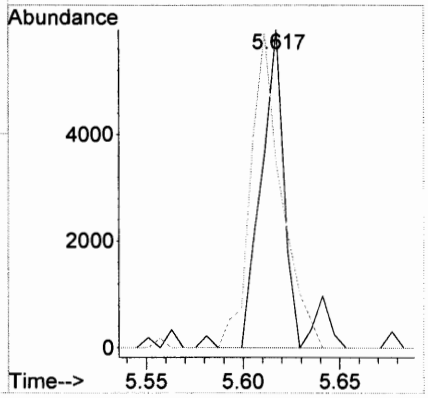

Abundance
TIC: 6M10687.D\data.ms
Quant QT Reviewed
SampleID : AC78787-026
Data File: 6M10687.D
Acq On : 05/29/14 18:22
Operator : SGG
Sam Mult : 1 Vial# : 30
Misc : S,5G!3
Qt Meth : 6M_S0519.M
Qt On : 05/30/14 07:34
Qt Upd On: 05/20/14 13:55
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->



#65
Tetrachloroethene
Concen: 2.72 ug/l m
RT: 5.617 min Scan# 745
Delta R.T. -0.012 min
Lab File: 6M10687.D
Acq: 29 May 2014 18:22

Tgt Ion:164 Resp: 5483

Ion	Ratio	Lower	Upper
164	100		
166	57.6	61.8	201.8#



GC/MS Volatile Data
Standards Data

4052101 0349

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M10304.	CAL @ 20 PPB	05/19/14 15:42	2	6M10303.	CAL @ 5 PPB	05/19/14 15:26
3	6M10302.	CAL @ 2 PPB	05/19/14 15:09	4	6M10293.	CAL @ 50 PPB	05/19/14 12:34
5	6M10294.	CAL @ 100 PPB	05/19/14 12:51	6	6M10296.	CAL @ 250 PPB	05/19/14 13:24
7	6M10298.	CAL @ 500 PPB	05/19/14 13:59	8	6M10289.	CAL @ 1 PPB	05/19/14 11:25
9	6M10288.	CAL @ 0.5 PPB	05/19/14 11:09				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd			Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Qua	0.6451	0.6190	0.5815	1.0531	1.0349	1.0075	1.0938	-----	-----	0.862	1.30	0.999	1.00	27	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluoromethan	1	0	Qua	0.3969	0.3057	0.3629	0.6735	0.6626	0.6411	0.7008	-----	-----	0.535	1.29	0.998	0.999	32			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.4090	0.4139	0.5198	0.5920	0.5887	0.5868	0.6639	-----	-----	0.539	1.42	0.997	1.00	18	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.2798	0.3003	0.4098	0.4073	0.3901	0.3686	0.4313	-----	-----	0.370	1.75	0.995	0.999	16	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Qua	0.3025	0.2095	0.2725	0.4921	0.4290	0.4321	0.4858	-----	-----	0.375	1.50	0.997	0.999	30	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.3354	0.3183	0.3011	0.4679	0.4360	0.4241	0.4576	-----	-----	0.392	1.83	0.999	1.00	18	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethane	1	0	Qua	0.4620	0.3877	0.5560	0.8242	0.8025	0.7644	0.8801	-----	-----	0.668	2.02	0.996	0.999	29	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1862	0.1586	0.1956	0.2099	0.2082	0.1955	0.2389	-----	-----	0.199	2.23	0.992	0.999	12			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Qua	0.9237	0.8214	0.8633	1.3414	1.3209	1.2548	1.3860	-----	-----	1.13	2.26	0.998	0.999	22			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.1.2-Trichloro-1.2.2-tri	1	0	Avg	0.3829	0.3667	0.5456	0.5544	0.5527	0.5092	0.5285	-----	-----	0.491	2.41	0.999	0.999	17	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.3153	0.3339	0.4462	0.4093	0.3989	0.3801	0.4180	-----	-----	0.386	2.75	0.998	1.00	12	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Qua	0.0275	0.0131	0.0345	0.0335	0.0295	0.0295	0.0318	-----	-----	0.0285	2.32	0.999	1.00	25			100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.0546	0.0601	0.0526	0.0577	0.0485	0.0498	0.0778	-----	-----	0.0574	2.93	0.968	0.998	17			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Avg	0.3881	0.3354	0.3991	0.5479	0.5385	0.5173	0.5674	-----	-----	0.471	2.52	0.998	1.00	20			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Qua	0.0549	0.0818	0.0795	0.0521	0.0519	0.0481	0.0487	-----	-----	0.0596	2.41	1.00	1.00	24	0.10	a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	1.2863	1.2579	1.4778	1.9947	1.9072	1.7730	1.9271	-----	-----	1.66	2.58	0.998	0.999	19	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0061	0.0097	0.0104	0.0075	0.0075	0.0065	0.0074	-----	-----	0.00790	2.81	0.996	0.998	20			100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Qua	0.5732	0.4587	0.5274	1.0727	1.0620	0.9809	1.0692	-----	-----	0.821	3.19	0.998	0.999	35			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	1.3927	1.1857	1.3343	1.7275	1.7921	1.7106	1.8100	-----	-----	1.56	3.34	0.999	1.00	16			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.1-Dichloroethene	1	0	Qua	0.6363	0.5696	0.6453	0.9577	0.9543	0.9011	0.9557	-----	-----	0.803	2.40	0.999	1.00	22	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Qua	0.1769	0.1013	0.1782	0.2186	0.2086	0.2125	0.2287	-----	-----	0.189	2.68	0.999	1.00	23	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.4119	0.3101	0.3970	0.4356	0.4658	0.4485	0.4792	0.3573	-----	0.413	2.97	0.999	1.00	14	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1.1-Dichloroethane	1	0	Avg	0.7561	0.7464	0.9370	0.9681	0.9676	0.9188	1.0371	-----	-----	0.904	3.28	0.997	0.999	12	0.20		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1.2-Dichloroether	1	0	Avg	0.3740	0.3712	0.4939	0.5162	0.5100	0.4762	0.5279	-----	-----	0.467	2.97	0.998	0.999	14	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Qua	0.2210	0.2088	0.3882	0.2905	0.3153	0.2976	0.3303	-----	-----	0.293	3.63	0.998	0.999	21			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1.2-Dichloroethene	1	0	Avg	0.6710	0.6096	0.7470	0.9133	0.8972	0.8646	0.9250	-----	-----	0.804	3.75	0.999	1.00	16	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.3085	0.3082	0.3123	0.3894	0.3859	0.3507	0.3905	-----	-----	0.349	3.92	0.998	0.999	11			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2.2-Dichloropropane	1	0	Qua	0.3689	0.3495	0.4811	0.5741	0.6067	0.5809	0.6410	-----	-----	0.515	3.75	0.998	1.00	23			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.2371	0.2161	0.2170	0.2188	0.2169	0.2123	0.2355	-----	-----	0.222	3.79	0.998	1.00	4.5			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.4-Dioxane	1	0	Avg	0.0012	0.0013	0.0017	0.0014	0.0015	0.0013	0.0014	-----	-----	0.00145	4.87	0.998	0.999	11			1000.	250.0	100.0	2500.	5000.	1250	2500		
1.1-Dichloropropene	1	0	Qua	0.5363	0.4397	0.4769	0.8054	0.8236	0.7505	0.7673	-----	-----	0.657	4.21	0.999	0.999	25			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.5718	0.5534	0.6868	0.7262	0.7616	0.7161	0.8065	-----	-----	0.689	3.97	0.997	0.999	14	0.20		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethane	1	0	Avg	0.2527	0.2735	0.2784	0.2848	0.2584	0.2919	0.2539	0.2665	0.2692	0.270	4.07	-1	-1	5.1			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Qua	0.7478	0.6400	0.7941	1.2955	1.2828	1.1796	1.2008	-----	-----	1.02	4.15	0.999	0.999	28	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.2-Dichloroethane-d4	1	0	Avg	0.1326	0.1285	0.1447	0.1202	0.1182	0.1372	0.1366	0.1451	0.1109	0.130	4.28	-1	-1	9.2			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1.2-Dichloroethane	1	0	Avg	0.4069	0.3592	0.4377	0.4490	0.4404	0.3790	0.4147	-----	-----	0.412	4.33	0.998	0.998	8.1	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.0847	0.1240	0.1284	0.1251	0.0977	0.0909	0.0800	-----	-----	0.104	3.75	0.994	0.999	20	0.10	a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.1.1-Trichloroethane	1	0	Avg	0.5010	0.4464	0.6563	0.7371	0.7631	0.7083	0.7700	-----	-----	0.655	4.10	0.998	0.999	20	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.3942	0.4461	0.5419	0.6398	0.6021	0.5851	0.5830	-----	-----	0.542	4.22	1.00	1.00	16	0.10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.9049	0.8543	1.3989	1.1320	1.1425	1.1136	1.2416	-----	-----	1.11	3.34	0.998	1.00	17			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethane	1	0	Avg	0.4804	0.4176	0.4991	0.5422	0.5407	0.4962	0.5362	-----	-----	0.502	4.93	0.999	0.999	8.9	0.20		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 18.9
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form 6
Initial Calibration

Method: EPA 8260C

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M10304.	CAL @ 20 PPB	05/19/14 15:42	2	6M10303.	CAL @ 5 PPB	05/19/14 15:26
3	6M10302.	CAL @ 2 PPB	05/19/14 15:09	4	6M10293.	CAL @ 50 PPB	05/19/14 12:34
5	6M10294.	CAL @ 100 PPB	05/19/14 12:51	6	6M10296.	CAL @ 250 PPB	05/19/14 13:24
7	6M10298.	CAL @ 500 PPB	05/19/14 13:59	8	6M10289.	CAL @ 1 PPB	05/19/14 11:25
9	6M10288.	CAL @ 0.5 PPB	05/19/14 11:09				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Qua	0.5390	0.4825	0.5046	0.9878	0.9744	0.8678	0.8595	-----	-----	0.745	4.79	0.999	0.999	30	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.1320	0.1159	0.1860	0.1519	0.1466	0.1353	0.1431	-----	-----	0.144	4.85	0.999	0.999	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.2-Dichloropropane	1	0	Avg	0.4034	0.3811	0.5103	0.4991	0.5156	0.4521	0.4432	-----	-----	0.458	4.79	0.999	0.999	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Qua	0.3394	0.2959	0.5674	0.4825	0.4787	0.4505	0.4698	-----	-----	0.441	4.68	0.999	1.00	21	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	1.5018	1.3104	1.5448	2.0017	1.9615	1.8153	1.8107	1.9939	-----	1.74	4.33	1.00	1.00	15	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.3924	0.3917	0.4511	0.4318	0.4435	0.4384	0.4665	-----	-----	0.431	4.39	0.999	1.00	6.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Qua	0.6233	0.3405	0.6635	0.6415	0.7247	0.6383	0.7251	-----	-----	0.622	4.35	0.997	0.999	21		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.3870	0.2804	0.5047	0.4128	0.4199	0.3662	0.4158	-----	-----	0.398	4.84	0.996	0.999	17		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethane	1	0	Avg	0.4262	0.4463	0.5543	0.4553	0.4947	0.4096	0.4625	-----	-----	0.464	5.74	0.996	0.998	10	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylether	1	0	Qua	0.1572	0.1111	0.2189	0.1994	0.2375	0.1971	0.2382	-----	-----	0.194	5.08	0.993	0.997	24		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1.3-Dichloropropene	1	0	Avg	0.8421	0.9179	0.7475	0.9901	1.1932	1.0341	1.1030	-----	-----	0.975	5.16	0.998	0.999	16	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1.3-Dichloroprope	1	0	Avg	0.6427	0.5690	0.5715	0.6999	0.7581	0.7134	0.7682	-----	-----	0.675	5.44	0.999	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Qua	0.3927	0.2885	0.6251	0.4706	0.5206	0.4338	0.4980	-----	-----	0.461	5.47	0.996	0.998	23		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.1.2-Trichloroethane	1	0	Avg	0.3696	0.3969	0.5858	0.4016	0.4578	0.3596	0.3682	-----	-----	0.420	5.53	0.997	0.997	19	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.2-Dibromoethane	1	0	Avg	0.2718	0.2664	0.3047	0.3438	0.3508	0.3017	0.3289	-----	-----	0.310	5.81	0.998	0.999	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.3-Dichloropropane	1	0	Avg	0.6968	0.6073	0.8323	0.7519	0.8602	0.6599	0.6880	-----	-----	0.728	5.62	0.997	0.997	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.3317	0.2778	0.4965	0.3205	0.3708	0.3247	0.3756	-----	-----	0.357	5.23	0.996	0.999	20	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.1538	0.1626	0.2087	0.1792	0.2090	0.1917	0.2270	-----	-----	0.190	5.66	0.995	0.999	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Qua	0.4968	0.3428	0.6033	0.7108	0.7423	0.5994	0.6167	-----	-----	0.587	5.63	0.998	0.998	23	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.4746	1.5615	1.5931	1.5507	1.7067	1.6018	1.5704	1.5909	1.5984	1.58	5.30	-1	-1	3.8		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Qua	1.4817	1.3136	1.3954	1.9281	2.1271	1.6811	1.7227	2.3628	-----	1.75	5.34	0.997	0.997	21	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1.1.1.2-Tetrachloroetha	1	0	Avg	0.4571	0.4186	0.5711	0.5557	0.5724	0.4578	0.5095	-----	-----	0.506	6.09	0.996	0.997	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	1.3113	1.3559	1.5156	1.7759	1.8960	1.5563	1.5943	-----	-----	1.57	6.06	0.998	0.998	13	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Qua	0.9424	0.9980	0.8538	1.4992	1.5434	1.4202	1.8577	-----	-----	1.30	6.31	0.987	0.998	29		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Qua	1.0130	1.1092	0.3957	1.4651	1.4660	1.3329	1.7432	-----	-----	1.22	6.43	0.987	0.998	36		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.4712	0.4510	0.5234	0.5232	0.5454	0.4320	0.5421	-----	-----	0.498	6.48	0.990	0.996	9.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Qua	1.5055	1.6267	0.9741	2.2755	1.9982	1.6016	1.8600	2.1768	-----	1.75	6.10	0.994	0.996	24	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1.1.2.2-Tetrachloroetha	1	0	Avg	0.7376	0.8302	0.7223	0.8770	0.9459	0.7143	0.8638	-----	-----	0.813	6.69	0.991	0.995	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.6981	0.6662	0.7502	0.8215	0.7106	0.6437	0.7809	0.7657	0.8129	0.739	6.64	-1	-1	8.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	2.4619	1.9774	2.8835	3.5161	3.4300	2.7067	2.9208	-----	-----	2.84	6.37	0.996	0.997	19	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	1.6032	1.4204	1.7901	2.5221	2.2633	1.8324	1.9328	2.0034	2.4645	1.98	6.16	0.997	0.997	19	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Qua	1.5602	1.2801	1.7886	2.3036	2.2380	1.6846	1.9449	2.3898	-----	1.90	6.37	0.994	0.995	21	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1.4-Dichloro-2-bu	1	0	Avg	0.5567	0.4504	0.7336	0.7660	0.7978	0.6441	0.7202	-----	-----	0.667	6.72	0.996	0.997	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.3-Dichlorobenzene	1	0	Avg	1.9458	1.9613	1.8512	2.4536	2.4198	1.8380	1.8886	-----	-----	2.05	7.23	0.996	0.996	13	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.4-Dichlorobenzene	1	0	Avg	1.8972	1.5147	2.7961	2.2496	2.3387	1.9233	2.1307	-----	-----	2.12	7.28	0.997	0.998	19	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.2-Dichlorobenzene	1	0	Avg	1.6259	1.3477	1.6724	1.9864	2.0685	1.6378	1.8786	-----	-----	1.75	7.49	0.995	0.997	14	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Qua	4.1521	3.5332	4.2236	6.7508	6.7743	5.5240	6.0176	5.5034	-----	5.31	6.55	0.997	0.997	23		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Qua	0.0378	0.0605	0.1122	0.0766	0.0611	0.0536	0.0586	-----	-----	0.0658	6.72	0.996	0.997	36		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Qua	1.5613	0.9362	1.1635	2.7589	2.6918	2.2043	2.5827	-----	-----	1.99	6.72	0.994	0.997	38		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.2.3-Trichloropropane	1	0	Avg	0.7995	1.1830	0.8098	1.0016	0.9286	0.8010	0.8733	-----	-----	0.914	6.73	0.998	0.998	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Qua	4.1204	2.8545	3.5168	5.6440	5.2373	3.7789	3.7601	-----	-----	4.13	6.83	0.992	0.994	24		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 18.9
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

4052101 0350

Form 6
Initial Calibration

Method: EPA 8260C

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M10304.	CAL @ 20 PPB	05/19/14 15:42	2	6M10303.	CAL @ 5 PPB	05/19/14 15:26
3	6M10302.	CAL @ 2 PPB	05/19/14 15:09	4	6M10293.	CAL @ 50 PPB	05/19/14 12:34
5	6M10294.	CAL @ 100 PPB	05/19/14 12:51	6	6M10296.	CAL @ 250 PPB	05/19/14 13:24
7	6M10298.	CAL @ 500 PPB	05/19/14 13:59	8	6M10289.	CAL @ 1 PPB	05/19/14 11:25
9	6M10288.	CAL @ 0.5 PPB	05/19/14 11:09				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd			Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Qua	4.2677	3.4060	4.7796	6.2230	6.3973	5.0653	5.3404	-----	-----	5.07	6.83	0.997	0.997	21			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Qua	3.4015	3.1068	2.5902	4.8202	4.7768	3.6699	3.8899	-----	-----	3.75	6.89	0.996	0.996	22			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Qua	5.9672	4.3526	6.2006	9.2972	8.6842	7.0458	7.1163	7.7523	-----	7.05	6.77	0.997	0.997	22			20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	2.3828	1.8921	3.3457	3.4295	3.3693	2.9172	3.0645	-----	-----	2.91	6.73	0.999	0.999	20			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzene	1	0	Qua	3.7789	2.7002	3.1812	5.1013	5.1294	3.9548	4.5244	4.8893	-----	4.16	6.86	0.995	0.996	22			20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Qua	0.0376	1.6366	1.2750	2.1311	2.2210	1.7604	2.0160	-----	-----	1.58	6.88	0.994	0.995	48			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butylbenzene	1	0	Qua	3.1473	2.5521	3.4753	5.3045	4.8785	4.1977	4.6368	5.7263	-----	4.24	7.04	0.997	0.998	26			20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzene	1	0	Avg	3.3849	2.5129	3.8500	4.8867	5.0075	4.0881	4.4559	4.3923	-----	4.07	7.07	0.997	0.998	20			20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Qua	4.7454	3.7886	4.1580	7.3984	7.2705	5.9130	6.4418	6.5983	-----	5.79	7.16	0.997	0.997	24			20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Qua	3.3707	2.6547	3.0139	5.3218	5.4024	4.3902	4.5337	3.4999	-----	4.02	7.23	0.998	0.998	26			20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Qua	4.7392	3.3227	3.4783	7.2048	7.4815	5.9861	6.2783	4.4278	-----	5.36	7.46	0.997	0.997	30			20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Qua	2.2000	1.5195	1.9438	2.8397	3.3917	2.5983	3.0130	-----	-----	2.50	7.44	0.994	0.996	26			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylber	1	0	Qua	2.0095	1.3922	1.9457	3.1767	3.6718	3.1786	3.7442	-----	-----	2.73	7.88	0.995	0.998	34			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloropr	1	0	Qua	0.0949	0.0410	0.0612	0.0911	0.1041	0.0722	0.0981	-----	-----	0.0804	7.92	0.982	0.992	29	0.05	a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Avg	0.0226	0.0258	0.0220	0.0245	0.0303	0.0287	0.0348	-----	-----	0.0270	8.34	0.993	0.999	17			200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.8837	0.8977	1.1640	1.4028	1.4048	1.1602	1.3010	-----	-----	1.17	8.50	0.996	0.997	18			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzene	1	0	Avg	0.8377	0.9024	0.9823	1.1615	1.2311	1.0185	1.1036	-----	-----	1.03	8.41	0.998	0.998	14	0.20		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzene	1	0	Qua	0.6641	0.5379	1.3280	0.8760	0.9298	0.7640	0.8315	-----	-----	0.847	8.69	0.997	0.998	30			20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Avg	0.7961	0.8400	1.1055	1.0922	1.2837	1.1180	1.3420	1.1696	-----	1.09	8.56	0.994	0.998	18			20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 18.9
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

4052101 0351

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB
Data File: 6M10304.D
Acq On : 05/19/14 15:42

Operator : WP
Sam Mult : 1 Vial# : 15
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/19/14 15:53
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.470	96	236203	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.027	117	122690	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.259	152	67612	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.055	111	59701	27.78	ug/l	-0.02
Spiked Amount 30.000			Recovery = 92.60%			
39) 1,2-Dichloroethane-d4	4.272	67	31333	30.89	ug/l	-0.01
Spiked Amount 30.000			Recovery = 102.97%			
66) Toluene-d8	5.293	98	180921	28.14	ug/l	-0.01
Spiked Amount 30.000			Recovery = 93.80%			
76) Bromofluorobenzene	6.634	174	47204	29.23	ug/l	-0.01
Spiked Amount 30.000			Recovery = 97.43%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.291	51	101586	10.3915	ug/l	62
6) Dichlorodifluoromethane	1.285	85	62513	13.5072	ug/l	77
7) Chloromethane	1.412	50	64414	15.0643	ug/l	72
8) Bromomethane	1.740	94	44063	16.4976	ug/l	100
9) Vinyl Chloride	1.493	62	47642	14.2902	ug/l	97
10) Chloroethane	1.815	64	52821	18.2032	ug/l	74
11) Trichlorofluoromethane	2.011	101	72757m	13.0794	ug/l	
12) Ethyl ether	2.222	59	29335m	19.9898	ug/l	
13) Furan	2.240	39	145455m	14.9134	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.390	101	60306	15.9239	ug/l	81
15) Methylene Chloride	2.733	84	49652	17.5250	ug/l	89
16) Acrolein	2.300	56	21716	171.4588	ug/l	70
17) Acrylonitrile	2.919	53	8610m	22.7696	ug/l	
18) Iodomethane	2.498	142	61119	15.1200	ug/l	94
19) Acetone	2.408	43	43225m	127.7040	ug/l	
20) Carbon Disulfide	2.565	76	202559	13.2978	ug/l	100
21) t-Butyl Alcohol	2.787	59	4848m	99.2746	ug/l	
22) n-Hexane	3.178	57	90265	12.4939	ug/l	90
23) Di-isopropyl-ether	3.328	45	219320	19.1791	ug/l	88
24) 1,1-Dichloroethene	2.390	61	100207	15.3748	ug/l	74
25) Methyl Acetate	2.655	43	27863	21.4648	ug/l	100
26) Methyl-t-butyl ether	2.955	73	64872	20.0695	ug/l	91
27) 1,1-Dichloroethane	3.268	63	119073	18.3867	ug/l	99
28) trans-1,2-Dichloroethene	2.955	96	58893	17.7906	ug/l	78
29) Ethyl-t-butyl ether	3.616	59	34812	6.3633	ug/l	96
30) cis-1,2-Dichloroethene	3.731	61	105668	17.3376	ug/l	77
31) Bromochloromethane	3.899	49	48584m	18.0504	ug/l	
32) 2,2-Dichloropropane	3.737	77	58095	13.9721	ug/l	83
33) Ethyl acetate	3.785	43	37337	25.9327	ug/l	91
34) 1,4-Dioxane	4.849	88	9822	1130.0633	ug/l	67
35) 1,1-Dichloropropene	4.194	75	84462	15.1459	ug/l	96
36) Chloroform	3.953	83	90050	16.7721	ug/l	98
38) Cyclohexane	4.139	56	117758	13.0062	ug/l	88
40) 1,2-Dichloroethane	4.314	62	64084	21.2566	ug/l	84
41) 2-Butanone	3.731	43	13342	17.9717	ug/l	68
42) 1,1,1-Trichloroethane	4.091	97	78904	14.4249	ug/l	93
43) Carbon Tetrachloride	4.200	117	62074	13.7221	ug/l	100
44) Vinyl Acetate	3.328	43	142503	19.0253	ug/l	100
45) Bromodichloromethane	4.915	83	75657	19.5552	ug/l	99
46) Methylcyclohexane	4.783	83	84875	12.8910	ug/l	91
47) Dibromomethane	4.849	174	20799	21.8232	ug/l	88
48) 1,2-Dichloropropane	4.783	63	63536	16.8760	ug/l	91
49) Trichloroethene	4.668	130	53455	15.4772	ug/l	97
50) Benzene	4.320	78	236497	16.5405	ug/l	100
51) tert-Amyl methyl ether	4.374	73	61804	19.2423	ug/l	64
53) Iso-propylacetate	4.338	43	50985	23.5095	ug/l	72
54) Methyl methacrylate	4.831	41	31654	24.2395	ug/l	90
55) Dibromochloromethane	5.726	129	34864	21.1429	ug/l	83
56) 2-Chloroethylvinylether	5.065	63	12862	19.7407	ug/l	79
57) cis-1,3-Dichloropropene	5.149	75	68879	19.3441	ug/l	99
58) trans-1,3-Dichloropropene	5.420	75	52570	22.4498	ug/l	79
59) Ethyl methacrylate	5.462	41	32124m	23.3559	ug/l	
60) 1,1,2-Trichloroethane	5.522	97	30233	21.3501	ug/l	77
61) 1,2-Dibromoethane	5.798	107	22235	19.4333	ug/l	97
62) 1,3-Dichloropropane	5.606	76	56994	20.4861	ug/l	98
63) 4-Methyl-2-Pentanone	5.215	43	27131	25.3726	ug/l	98
64) 2-Hexanone	5.642	43	12583	21.9397	ug/l	68
65) Tetrachloroethene	5.612	164	40640	15.7089	ug/l	97
67) Toluene	5.330	92	121194	17.0939	ug/l	90

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB
Data File: 6M10304.D
Acq On : 05/19/14 15:42

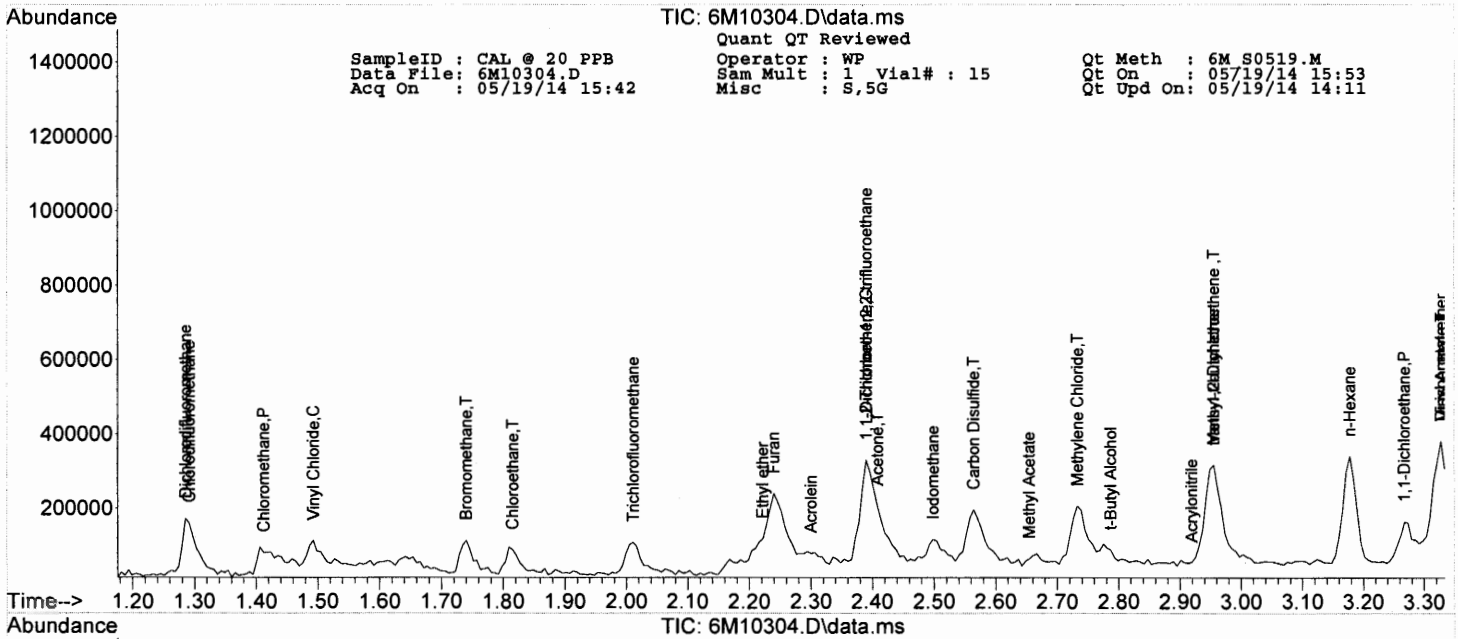
Operator : WP
Sam Mult : 1 Vial# : 15
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/19/14 15:53
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.075	133	37388	18.3178	ug/l	100
69)	Chlorobenzene	6.045	112	107262	16.9268	ug/l	90
71)	n-Butyl acrylate	6.303	55	42482	19.8068	ug/l	95
72)	n-Amyl acetate	6.418	43	45662	21.6442	ug/l	71
73)	Bromoform	6.466	173	21243	21.9967	ug/l	70
74)	Ethylbenzene	6.093	106	67864	18.5827	ug/l	77
75)	1,1,2,2-Tetrachloroethane	6.676	83	33251	20.5935	ug/l	74
77)	Styrene	6.363	104	110973	19.3557	ug/l	90
78)	m&p-Xylenes	6.153	106	144527	29.4661	ug/l	91
79)	o-Xylene	6.357	106	70329	17.7140	ug/l	82
80)	trans-1,4-Dichloro-2-b...	6.712	53	25097	15.7298	ug/l	43
81)	1,3-Dichlorobenzene	7.223	146	87707	20.4789	ug/l	90
82)	1,4-Dichlorobenzene	7.271	146	85516	19.6090	ug/l	89
83)	1,2-Dichlorobenzene	7.481	146	73291	20.3170	ug/l	79
84)	Isopropylbenzene	6.550	105	187158	15.6130	ug/l	96
85)	Cyclohexanone	6.700	55	8535	56.4580	ug/l	65
86)	Camphene	6.706	93	70379	13.7782	ug/l	89
87)	1,2,3-Trichloropropane	6.718	75	36041	19.4424	ug/l	89
88)	2-Chlorotoluene	6.820	91	185728	19.8362	ug/l	94
89)	p-Ethyltoluene	6.820	105	192369	15.7405	ug/l	81
90)	4-Chlorotoluene	6.874	91	153325	17.1128	ug/l	93
91)	n-Propylbenzene	6.760	91	268971	16.5457	ug/l	92
92)	Bromobenzene	6.724	77	107408	16.7705	ug/l	89
93)	1,3,5-Trimethylbenzene	6.850	105	170333	17.7366	ug/l	94
94)	Butyl methacrylate	6.989	41	1698	0.5017	ug/l	85
95)	t-Butylbenzene	7.031	119	141865	15.4942	ug/l	92
96)	1,2,4-Trimethylbenzene	7.055	105	152575	17.8181	ug/l	95
97)	sec-Butylbenzene	7.151	105	213900	16.2938	ug/l	99
98)	4-Isopropyltoluene	7.223	119	151934	16.9080	ug/l	94
99)	n-Butylbenzene	7.445	91	213618	17.4076	ug/l	88
100)	p-Diethylbenzene	7.427	119	99167	16.5885	ug/l	85
101)	1,2,4,5-Tetramethylben...	7.872	119	90579	14.7164	ug/l	95
102)	1,2-Dibromo-3-Chloropr...	7.908	157	4278	27.0880	ug/l	73
103)	Camphor	8.323	95	10227	200.7901	ug/l	92
104)	Hexachlorobutadiene	8.479	225	39834	16.7683	ug/l	93
105)	1,2,4-Trichlorobenzene	8.395	180	37760	18.7043	ug/l	93
106)	1,2,3-Trichlorobenzene	8.684	180	29937	20.2818	ug/l	94
107)	Naphthalene	8.539	128	35886	18.0573	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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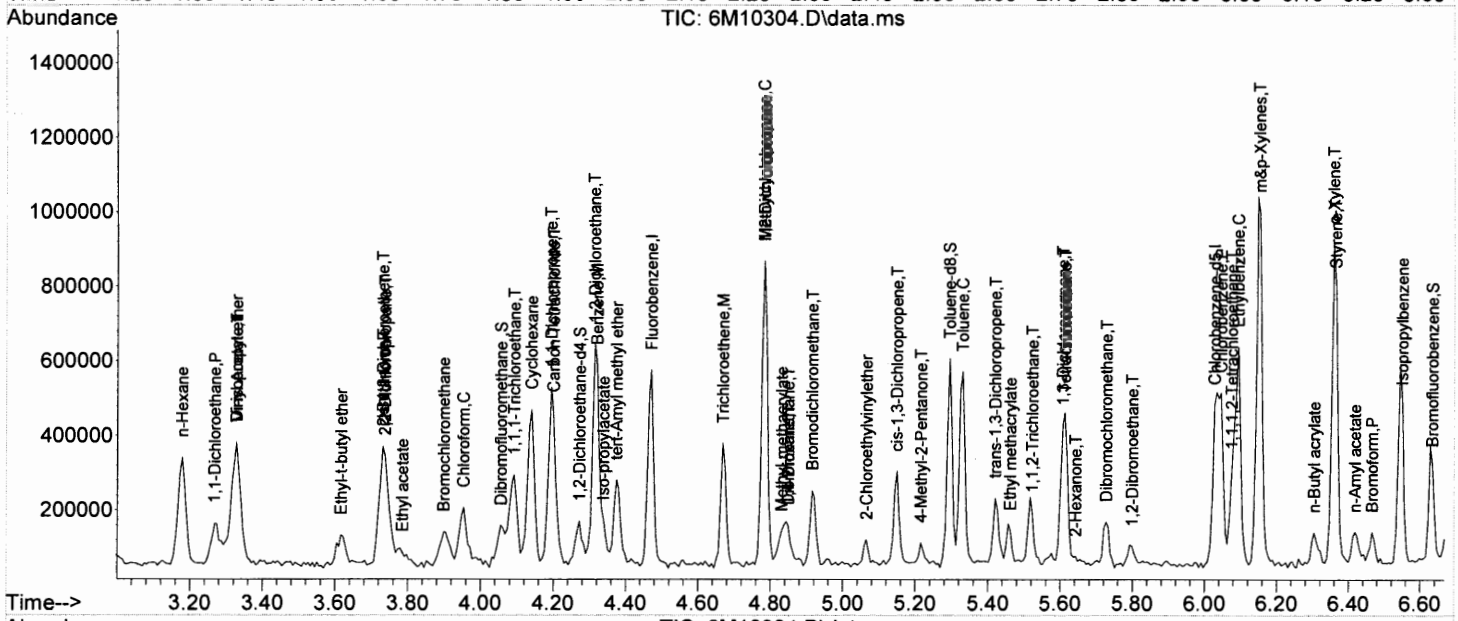
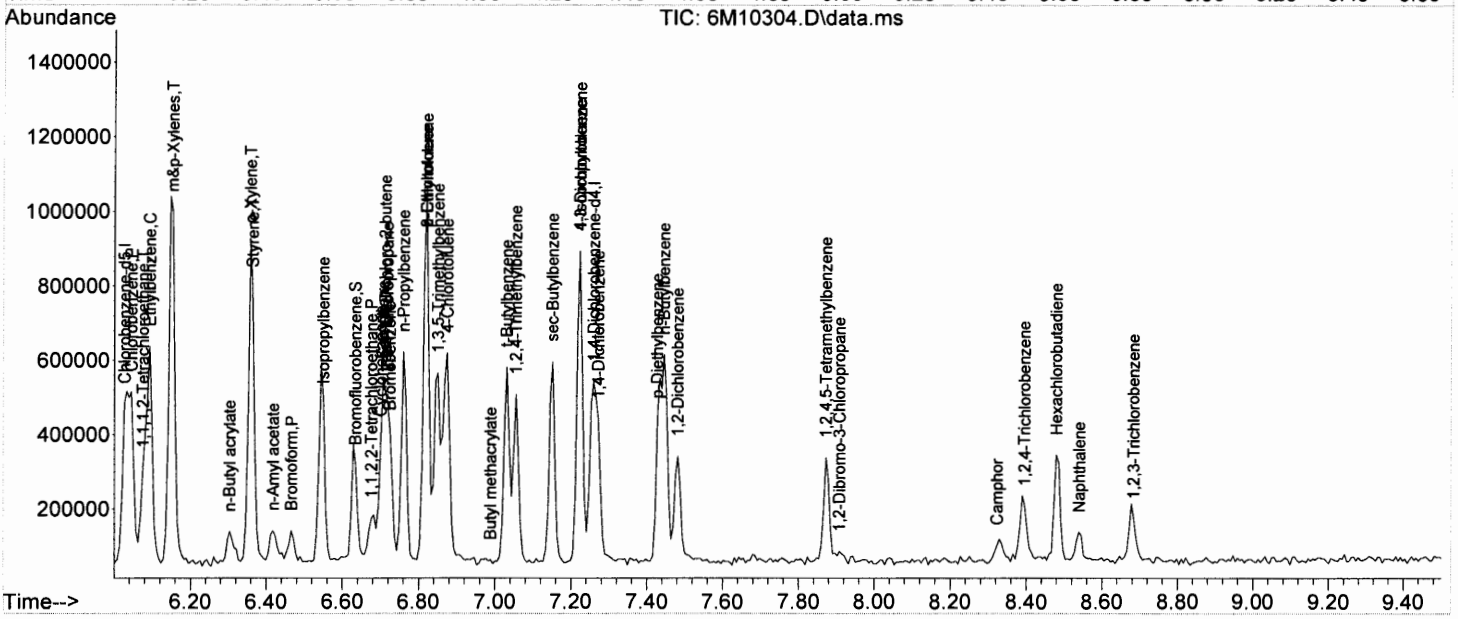
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 6M10304.D
Acq On : 05/19/14 15:42
Operator : WP
Sam Mult : 1 Vial# : 15
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/19/14 15:53
Qt Upd On: 05/19/14 14:11
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 6M10304.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Benzene,T
iso-propylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,C
Ethylbenzene,T
m&p-Xylenes,T
Styrene,T
o-Xylene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Time-->


Abundance
TIC: 6M10304.D\data.ms
Chlorobenzene-d5,I
1,1,1,2-Tetrachloroethane,C
Ethylbenzene,C
m&p-Xylenes,T
n-Butyl acrylate
Styrene,T
o-Xylene,T
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,P
n-Propylbenzene
4-Chlorotoluene
Butyl methacrylate
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
p-Diethylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB
Data File: 6M10303.D
Acq On : 05/19/14 15:26

Operator : WP
Sam Mult : 1 Vial# : 15
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/19/14 15:49
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.469	96	224541	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.032	117	119137	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.258	152	60872	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.054	111	61414	30.06	ug/l	-0.02
Spiked Amount 30.000			Recovery = 100.20%			
39) 1,2-Dichloroethane-d4	4.271	67	28871	29.94	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.80%			
66) Toluene-d8	5.293	98	186032	29.80	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.33%			
76) Bromofluorobenzene	6.633	174	40557	27.90	ug/l	-0.01
Spiked Amount 30.000			Recovery = 93.00%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.287	51	23165	2.4927	ug/l	49
6) Dichlorodifluoromethane	1.287	85	11442	2.6007	ug/l	98
7) Chloromethane	1.414	50	15492m	3.8112	ug/l	
8) Bromomethane	1.742	94	11241	4.4273	ug/l	95
9) Vinyl Chloride	1.500	62	7843	2.4747	ug/l	63
10) Chloroethane	1.817	64	11914	4.3190	ug/l	73
11) Trichlorofluoromethane	2.012	101	14511m	2.7441	ug/l	
12) Ethyl ether	2.209	59	5938m	4.2565	ug/l	
13) Furan	2.245	39	30743m	3.3158	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.395	101	13726	3.8126	ug/l	86
15) Methylene Chloride	2.738	84	12498	4.6403	ug/l	81
16) Acrolein	2.299	56	2466m	20.4815	ug/l	
17) Acrylonitrile	2.924	53	2252m	6.2648	ug/l	
18) Iodomethane	2.510	142	12553	3.2667	ug/l	78
19) Acetone	2.413	43	15323m	47.6215	ug/l	
20) Carbon Disulfide	2.558	76	47075	3.2509	ug/l	100
21) t-Butyl Alcohol	2.798	59	1825m	39.3123	ug/l	
22) n-Hexane	3.183	57	17166m	2.4994	ug/l	
23) Di-isopropyl-ether	3.321	45	44373	4.0819	ug/l	65
24) 1,1-Dichloroethene	2.383	61	21319	3.4409	ug/l	94
25) Methyl Acetate	2.672	43	3791m	3.0722	ug/l	
26) Methyl-t-butyl ether	2.948	73	11607	3.7774	ug/l	63
27) 1,1-Dichloroethane	3.261	63	27935	4.5376	ug/l	97
28) trans-1,2-Dichloroethene	2.954	96	13892	4.4145	ug/l	57
29) Ethyl-t-butyl ether	3.610	59	7814m	1.5025	ug/l	
30) cis-1,2-Dichloroethene	3.736	61	22816m	3.9380	ug/l	
31) Bromochloromethane	3.898	49	11535m	4.5082	ug/l	
32) 2,2-Dichloropropane	3.736	77	13082	3.3097	ug/l	76
33) Ethyl acetate	3.790	43	8088m	5.9093	ug/l	
34) 1,4-Dioxane	4.848	88	2579m	312.1361	ug/l	
35) 1,1-Dichloropropene	4.193	75	16457	3.1044	ug/l	70
36) Chloroform	3.958	83	20711m	4.0578	ug/l	
38) Cyclohexane	4.133	56	23954	2.7831	ug/l	88
40) 1,2-Dichloroethane	4.313	62	13444	4.6910	ug/l	91
41) 2-Butanone	3.748	43	4642m	6.5775	ug/l	
42) 1,1,1-Trichloroethane	4.084	97	16706	3.2127	ug/l	95
43) Carbon Tetrachloride	4.199	117	16697	3.8828	ug/l	84
44) Vinyl Acetate	3.327	43	31974	4.4905	ug/l	100
45) Bromodichloromethane	4.920	83	15630	4.2497	ug/l	80
46) Methylcyclohexane	4.782	83	18058	2.8851	ug/l	80
47) Dibromomethane	4.848	174	4339	4.7891	ug/l	84
48) 1,2-Dichloropropane	4.782	63	14264	3.9855	ug/l	90
49) Trichloroethene	4.673	130	11074	3.3729	ug/l	88
50) Benzene	4.319	78	49041	3.6081	ug/l	100
51) tert-Amyl methyl ether	4.373	73	14659	4.8010	ug/l	68
53) Iso-propylacetate	4.337	43	6762	3.2110	ug/l	71
54) Methyl methacrylate	4.824	41	5568	4.3909	ug/l	81
55) Dibromochloromethane	5.719	129	8862	5.5345	ug/l	58
56) 2-Chloroethylvinylether	5.070	63	2207m	3.4883	ug/l	
57) cis-1,3-Dichloropropene	5.148	75	18226	5.2713	ug/l	91
58) trans-1,3-Dichloropropene	5.425	75	11299	4.9691	ug/l	93
59) Ethyl methacrylate	5.461	41	5730	4.2903	ug/l	72
60) 1,1,2-Trichloroethane	5.515	97	7882	5.7321	ug/l	79
61) 1,2-Dibromoethane	5.792	107	5290	4.7613	ug/l	88
62) 1,3-Dichloropropane	5.605	76	12059	4.4638	ug/l	78
63) 4-Methyl-2-Pentanone	5.226	43	5516	5.3123	ug/l	74
64) 2-Hexanone	5.659	43	3230m	5.7998	ug/l	
65) Tetrachloroethene	5.611	164	6807	2.7096	ug/l	90
67) Toluene	5.329	92	26083	3.7886	ug/l	93

Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB
Data File: 6M10303.D
Acq On : 05/19/14 15:26

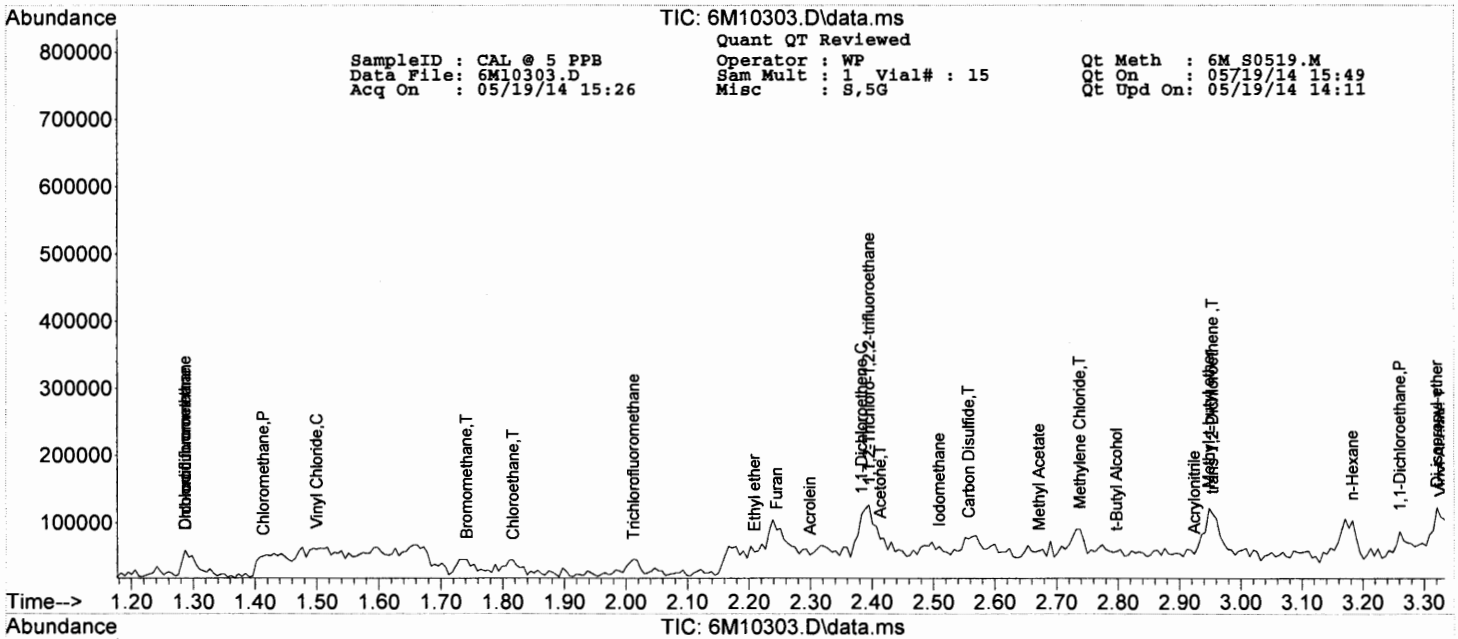
Operator : WP
Sam Mult : 1 Vial# : 15
Misc : S,5G

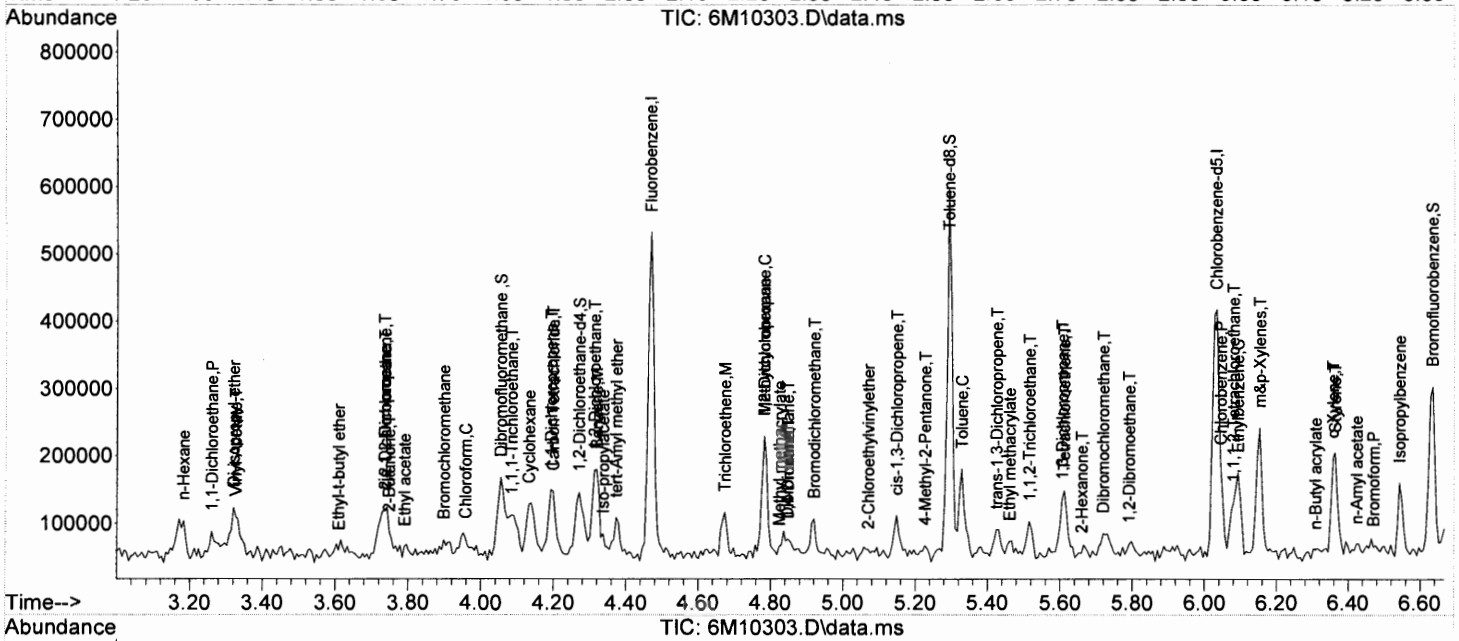
Qt Meth : 6M_S0519.M
Qt On : 05/19/14 15:49
Qt Upd On: 05/19/14 14:11

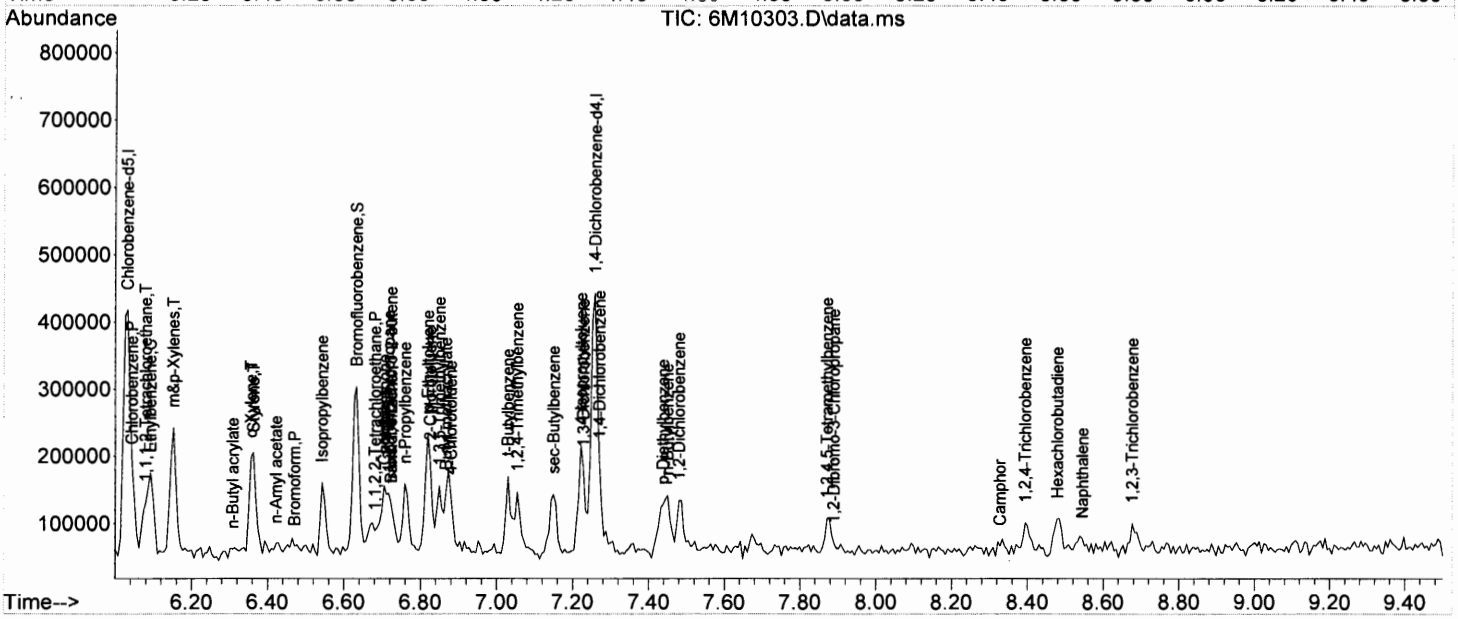
Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.080	133	8313	4.1943	ug/l	67
69) Chlorobenzene	6.044	112	26923	4.3754	ug/l	81
71) n-Butyl acrylate	6.308	55	10126m	5.2439	ug/l	
72) n-Amyl acetate	6.423	43	11254m	5.9251	ug/l	
73) Bromoform	6.471	173	4576	5.2630	ug/l	83
74) Ethylbenzene	6.092	106	16504	5.0196	ug/l	43
75) 1,1,2,2-Tetrachloroethane	6.681	83	8423	5.7943	ug/l	94
77) Styrene	6.363	104	20062	3.8866	ug/l	87
78) m&p-Xylenes	6.152	106	28822	6.5269	ug/l	62
79) o-Xylene	6.357	106	12987	3.6333	ug/l	41
80) trans-1,4-Dichloro-2-b...	6.723	53	4570	3.1814	ug/l	92
81) 1,3-Dichlorobenzene	7.228	146	19898	5.1604	ug/l	91
82) 1,4-Dichlorobenzene	7.270	146	15368	3.9141	ug/l	88
83) 1,2-Dichlorobenzene	7.481	146	13673	4.2100	ug/l	91
84) Isopropylbenzene	6.543	105	35846	3.3214	ug/l	92
85) Cyclohexanone	6.705	55	3070m	22.5562	ug/l	
86) Camphene	6.705	93	9499	2.0655	ug/l	98
87) 1,2,3-Trichloropropane	6.717	75	11791m	7.0650	ug/l	
88) 2-Chlorotoluene	6.825	91	28960	3.4355	ug/l	94
89) p-Ethyltoluene	6.819	105	34555	3.1405	ug/l	76
90) 4-Chlorotoluene	6.879	91	31520	3.9075	ug/l	90
91) n-Propylbenzene	6.759	91	44159	3.0172	ug/l	97
92) Bromobenzene	6.723	77	19196	3.3291	ug/l	84
93) 1,3,5-Trimethylbenzene	6.849	105	27395	3.1685	ug/l	74
94) Butyl methacrylate	6.867	41	16604m	5.4487	ug/l	
95) t-Butylbenzene	7.030	119	25892	3.1410	ug/l	94
96) 1,2,4-Trimethylbenzene	7.054	105	25495	3.3070	ug/l	87
97) sec-Butylbenzene	7.150	105	38437	3.2521	ug/l	93
98) 4-Isopropyltoluene	7.222	119	26933	3.3291	ug/l	95
99) n-Butylbenzene	7.450	91	33710	3.0512	ug/l	85
100) p-Diethylbenzene	7.438	119	15416	2.8643	ug/l	84
101) 1,2,4,5-Tetramethylben...	7.871	119	14125	2.5490	ug/l	72
102) 1,2-Dibromo-3-Chloropr...	7.889	157	416	2.9257	ug/l	29
103) Camphor	8.328	95	2617	57.0695	ug/l	77
104) Hexachlorobutadiene	8.478	225	9108	4.2586	ug/l	95
105) 1,2,4-Trichlorobenzene	8.394	180	9156	5.0376	ug/l	72
106) 1,2,3-Trichlorobenzene	8.677	180	5458	4.1071	ug/l	89
107) Naphthalene	8.544	128	8523m	4.7635	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10303.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 5 PPB
Data File: 6M10303.D
Acq On : 05/19/14 15:26
Operator : WP
Sam Mult : 1 Vial# : 15
Misc : S,5G
Qt Meth : 6M S0519.M
Qt On : 05/19/14 15:49
Qt Upd On: 05/19/14 14:11
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 6M10303.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Time-->


Abundance
TIC: 6M10303.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
n-Propylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
sec-Butylbenzene
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed) 4052101 0358

SampleID : CAL @ 2 PPB
Data File: 6M10302.D
Acq On : 05/19/14 15:09

Operator : WP
Sam Mult : 1 Vial# : 14
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/19/14 15:39
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.469	96	198718	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.032	117	108050	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.258	152	54880	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.054	111	55330	30.60	ug/l	-0.02
Spiked Amount 30.000			Recovery	=	102.00%	
39) 1,2-Dichloroethane-d4	4.270	67	28768	33.71	ug/l	-0.01
Spiked Amount 30.000			Recovery	=	112.37%	
66) Toluene-d8	5.292	98	172144	30.40	ug/l	-0.01
Spiked Amount 30.000			Recovery	=	101.33%	
76) Bromofluorobenzene	6.633	174	41175	31.41	ug/l	-0.01
Spiked Amount 30.000			Recovery	=	104.70%	
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.296	51	7704	0.9367	ug/l	48
6) Dichlorodifluoromethane	1.285	85	4808m	1.2348	ug/l	
7) Chloromethane	1.411	50	6887m	1.9145	ug/l	
8) Bromomethane	1.734	94	5430	2.4165	ug/l	81
9) Vinyl Chloride	1.492	62	3610m	1.2871	ug/l	
10) Chloroethane	1.814	64	3990m	1.6344	ug/l	
11) Trichlorofluoromethane	2.010	101	7367m	1.5742	ug/l	
12) Ethyl ether	2.209	59	2592m	2.0994	ug/l	
13) Furan	2.233	39	11438	1.3939	ug/l	81
14) 1,1,2-Trichloro-1,2,2-...	2.389	101	7229	2.2689	ug/l	93
15) Methylene Chloride	2.738	84	5912	2.4803	ug/l	55
16) Acrolein	2.293	56	2286	21.4538	ug/l	71
17) Acrylonitrile	2.924	53	698m	2.1941	ug/l	
18) Iodomethane	2.503	142	5288	1.5549	ug/l	76
19) Acetone	2.407	43	5269	18.5032	ug/l	84
20) Carbon Disulfide	2.563	76	19578m	1.5277	ug/l	
21) t-Butyl Alcohol	2.804	59	689m	16.7704	ug/l	
22) n-Hexane	3.170	57	6987m	1.1495	ug/l	
23) Di-isopropyl-ether	3.327	45	17677m	1.8374	ug/l	
24) 1,1-Dichloroethene	2.383	61	8549m	1.5591	ug/l	
25) Methyl Acetate	2.666	43	2362m	2.1629	ug/l	
26) Methyl-t-butyl ether	2.960	73	5260m	1.9343	ug/l	
27) 1,1-Dichloroethane	3.267	63	12414	2.2785	ug/l	74
28) trans-1,2-Dichloroethene	2.954	96	6544m	2.3497	ug/l	
29) Ethyl-t-butyl ether	3.603	59	5144m	1.1176	ug/l	
30) cis-1,2-Dichloroethene	3.729	61	9897m	1.9302	ug/l	
31) Bromochloromethane	3.898	49	4138m	1.8274	ug/l	
32) 2,2-Dichloropropane	3.742	77	6374m	1.8221	ug/l	
33) Ethyl acetate	3.784	43	2876m	2.3744	ug/l	
34) 1,4-Dioxane	4.854	88	1163m	159.0489	ug/l	
35) 1,1-Dichloropropene	4.192	75	6319	1.3469	ug/l	91
36) Chloroform	3.952	83	9099	2.0144	ug/l	63
38) Cyclohexane	4.132	56	10521	1.3812	ug/l	84
40) 1,2-Dichloroethane	4.319	62	5799	2.2864	ug/l	99
41) 2-Butanone	3.754	43	1702m	2.7251	ug/l	
42) 1,1,1-Trichloroethane	4.090	97	8695	1.8894	ug/l	94
43) Carbon Tetrachloride	4.198	117	7180	1.8866	ug/l	94
44) Vinyl Acetate	3.327	43	18533	2.9410	ug/l	100
45) Bromodichloromethane	4.908	83	6612m	2.0314	ug/l	
46) Methylcyclohexane	4.787	83	6685m	1.2069	ug/l	
47) Dibromomethane	4.848	174	2465	3.0743	ug/l	69
48) 1,2-Dichloropropane	4.781	63	6761m	2.1346	ug/l	
49) Trichloroethene	4.673	130	7518m	2.5874	ug/l	
50) Benzene	4.313	78	20466	1.7014	ug/l	100
51) tert-Amyl methyl ether	4.367	73	5977	2.2119	ug/l	51
53) Iso-propylacetate	4.337	43	4780m	2.5027	ug/l	
54) Methyl methacrylate	4.829	41	3636	3.1616	ug/l	56
55) Dibromochloromethane	5.731	129	3993	2.7496	ug/l	83
56) 2-Chloroethylvinylether	5.076	63	1577m	2.7483	ug/l	
57) cis-1,3-Dichloropropene	5.148	75	5385m	1.7172	ug/l	
58) trans-1,3-Dichloropropene	5.437	75	4117m	1.9964	ug/l	
59) Ethyl methacrylate	5.473	41	4503m	3.7175	ug/l	
60) 1,1,2-Trichloroethane	5.515	97	4220m	3.3839	ug/l	
61) 1,2-Dibromoethane	5.797	107	2195m	2.1784	ug/l	
62) 1,3-Dichloropropane	5.605	76	5996m	2.4472	ug/l	
63) 4-Methyl-2-Pentanone	5.226	43	3577m	3.7984	ug/l	
64) 2-Hexanone	5.653	43	1504m	2.9777	ug/l	
65) Tetrachloroethene	5.611	164	4346	1.9075	ug/l	76
67) Toluene	5.328	92	10052	1.6099	ug/l	97

Quantitation Report (QT Reviewed)

SampleID : CAL @ 2 PPB
Data File: 6M10302.D
Acq On : 05/19/14 15:09

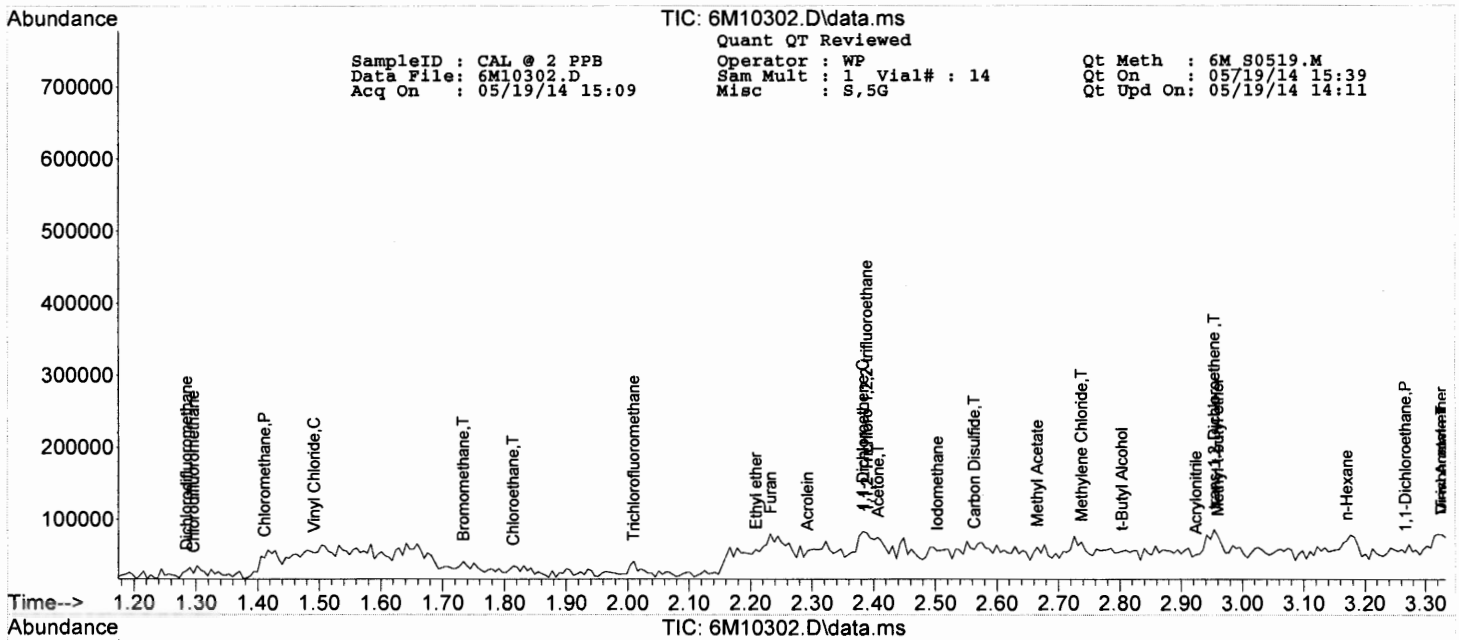
Operator : WP
Sam Mult : 1 Vial# : 14
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/19/14 15:39
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.080	133	4114	2.2887	ug/l	55
69)	Chlorobenzene	6.050	112	10918	1.9564	ug/l	84
71)	n-Butyl acrylate	6.314	55	3124m	1.7944	ug/l	
72)	n-Amyl acetate	6.422	43	1448m	0.8456	ug/l	
73)	Bromoform	6.470	173	1915	2.4430	ug/l	69
74)	Ethylbenzene	6.098	106	3564	1.2023	ug/l	65
75)	1,1,2,2-Tetrachloroethane	6.681	83	2643	2.0167	ug/l	87
77)	Styrene	6.368	104	10550	2.2670	ug/l	89
78)	m&p-Xylenes	6.152	106	13099	3.2902	ug/l	65
79)	o-Xylene	6.362	106	6544	2.0306	ug/l	84
80)	trans-1,4-Dichloro-2-b...	6.705	53	2684m	2.0725	ug/l	
81)	1,3-Dichlorobenzene	7.222	146	6773	1.9483	ug/l	83
82)	1,4-Dichlorobenzene	7.270	146	10230	2.8900	ug/l	88
83)	1,2-Dichlorobenzene	7.480	146	6119	2.0898	ug/l	92
84)	Isopropylbenzene	6.543	105	15453	1.5882	ug/l	89
85)	Cyclohexanone	6.711	55	2053m	16.7310	ug/l	
86)	Camphene	6.705	93	4257	1.0267	ug/l	65
87)	1,2,3-Trichloropropane	6.711	75	2963m	1.9692	ug/l	
88)	2-Chlorotoluene	6.819	91	12867	1.6930	ug/l	94
89)	p-Ethyltoluene	6.825	105	17487	1.7628	ug/l	83
90)	4-Chlorotoluene	6.879	91	9477	1.3031	ug/l	81
91)	n-Propylbenzene	6.765	91	22686	1.7193	ug/l	83
92)	Bromobenzene	6.729	77	12241	2.3547	ug/l	75
93)	1,3,5-Trimethylbenzene	6.849	105	11639	1.4931	ug/l	93
94)	Butyl methacrylate	6.867	41	4665m	1.6980	ug/l	
95)	t-Butylbenzene	7.029	119	12715	1.7109	ug/l	87
96)	1,2,4-Trimethylbenzene	7.053	105	14086	2.0266	ug/l	91
97)	sec-Butylbenzene	7.150	105	15213	1.4277	ug/l	93
98)	4-Isopropyltoluene	7.222	119	11027	1.5118	ug/l	94
99)	n-Butylbenzene	7.450	91	12726	1.2776	ug/l	79
100)	p-Diethylbenzene	7.438	119	7112	1.4657	ug/l	86
101)	1,2,4,5-Tetramethylben...	7.877	119	7119	1.4250	ug/l	93
102)	1,2-Dibromo-3-Chloropr...	7.919	157	224	1.7474	ug/l	86
103)	Camphor	8.322	95	805m	19.4715	ug/l	
104)	Hexachlorobutadiene	8.484	225	4259	2.2088	ug/l	83
105)	1,2,4-Trichlorobenzene	8.400	180	3594	2.1933	ug/l	93
106)	1,2,3-Trichlorobenzene	8.682	180	4859m	4.0556	ug/l	
107)	Naphthalene	8.556	128	4045m	2.5076	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed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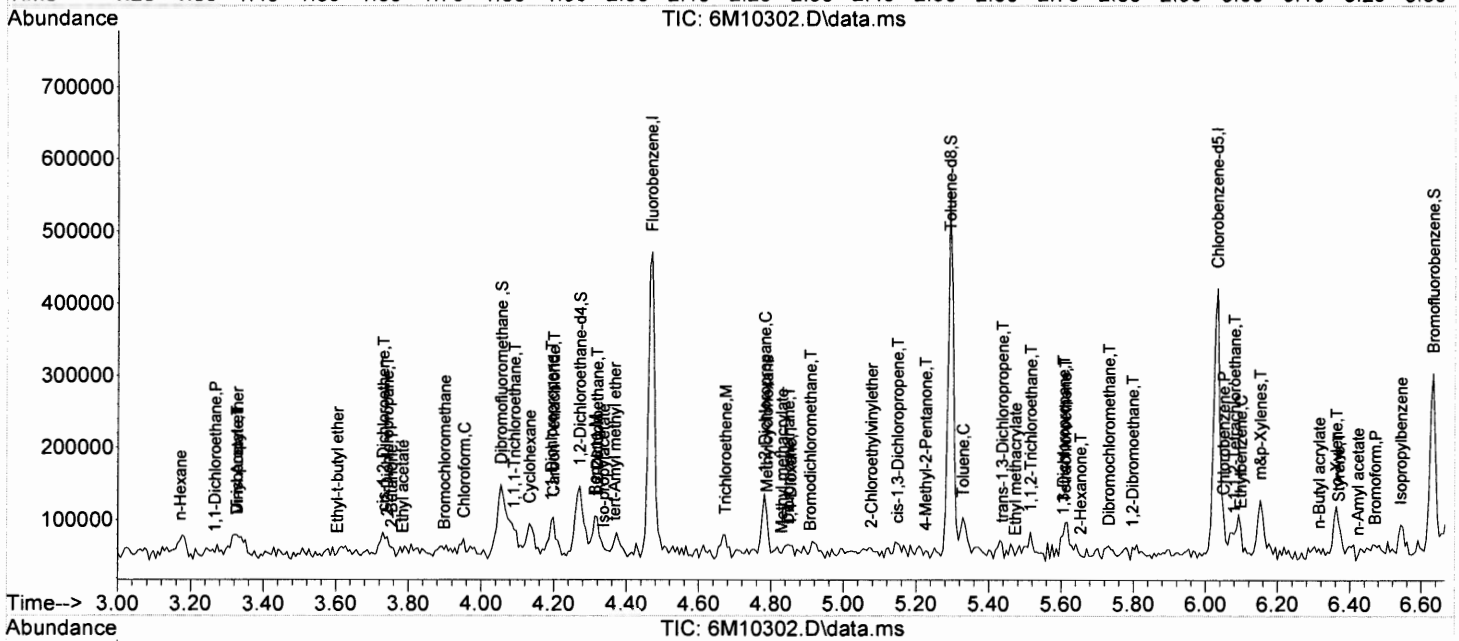
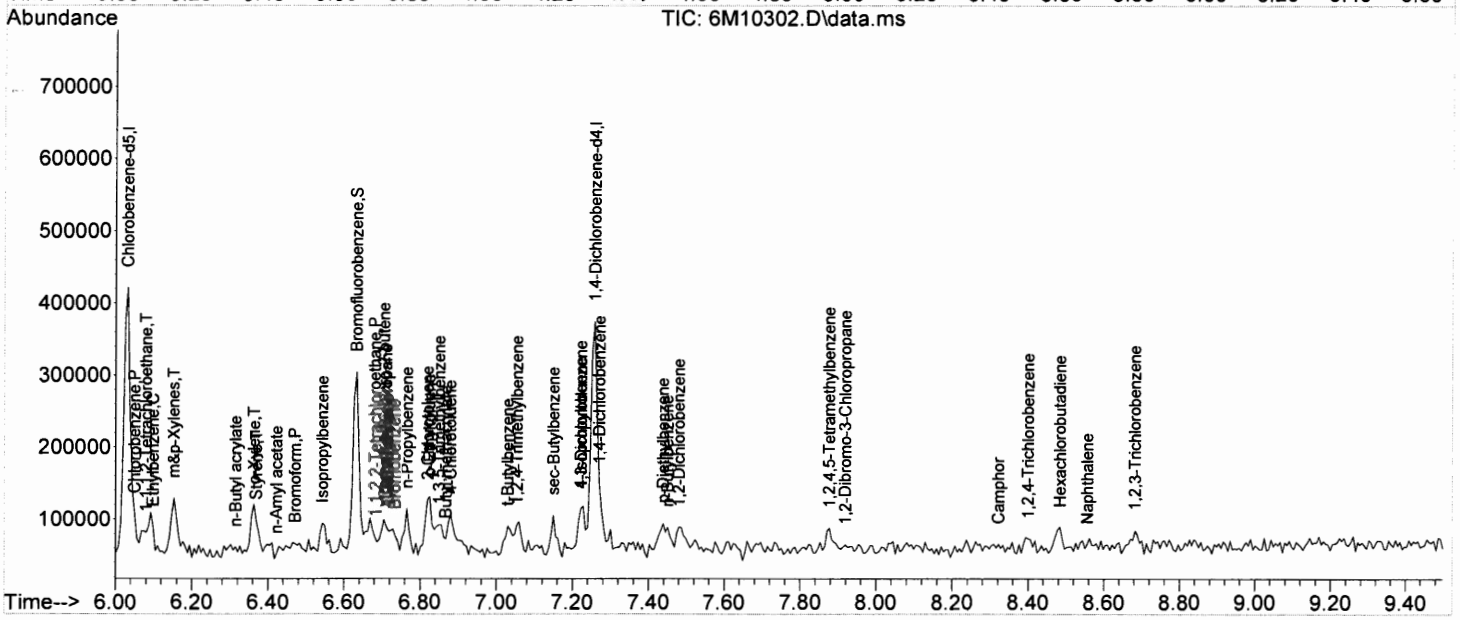
Quant QT Reviewed
SampleID : CAL @ 2 PPB
Data File: 6M10302.D
Acq On : 05/19/14 15:09
Operator : WP
Sam Mult : 1 Vial# : 14
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/19/14 15:39
Qt Upd On: 05/19/14 14:11
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,I
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 6M10302.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane ,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Isopropylbenzene
Bromofluorobenzene,S
Time-->


Abundance
TIC: 6M10302.D\data.ms
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
n-Propylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB
Data File: 6M10293.D
Acq On : 05/19/14 12:34

Operator : WP
Sam Mult : 1 Vial# : 15
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:22
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.470	96	230085	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.027	117	124940	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.253	152	60170	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.055	111	65547	31.31	ug/l	-0.02
Spiked Amount 30.000			Recovery = 104.37%			
39) 1,2-Dichloroethane-d4	4.266	67	27673	28.01	ug/l	-0.02
Spiked Amount 30.000			Recovery = 93.37%			
66) Toluene-d8	5.293	98	193753	29.59	ug/l	-0.01
Spiked Amount 30.000			Recovery = 98.63%			
76) Bromofluorobenzene	6.634	174	49434	34.40	ug/l	-0.01
Spiked Amount 30.000			Recovery = 114.67%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.285	51	403856	42.4098	ug/l	64
6) Dichlorodifluoromethane	1.285	85	258271	57.2886	ug/l	87
7) Chloromethane	1.412	50	227050	54.5114	ug/l	71
8) Bromomethane	1.740	94	156213	60.0429	ug/l	98
9) Vinyl Chloride	1.493	62	188742	58.1182	ug/l	97
10) Chloroethane	1.815	64	179464	63.4914	ug/l	82
11) Trichlorofluoromethane	2.011	101	316071	58.3305	ug/l	75
12) Ethyl ether	2.210	59	80499m	56.3131	ug/l	
13) Furan	2.240	39	514396m	54.1430	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.390	101	212612	57.6334	ug/l	90
15) Methylene Chloride	2.733	84	156966	56.8752	ug/l	83
16) Acrolein	2.294	56	64275	520.9776	ug/l	87
17) Acrylonitrile	2.913	53	22161	60.1642	ug/l	83
18) Iodomethane	2.498	142	210109	53.3601	ug/l	96
19) Acetone	2.402	43	99985	303.2505	ug/l	89
20) Carbon Disulfide	2.559	76	764943	51.5531	ug/l	100
21) t-Butyl Alcohol	2.787	59	14489	304.5867	ug/l	77
22) n-Hexane	3.172	57	411384	58.4554	ug/l	90
23) Di-isopropyl-ether	3.322	45	662473	59.4723	ug/l	80
24) 1,1-Dichloroethene	2.390	61	367277	57.8497	ug/l	98
25) Methyl Acetate	2.655	43	83846	66.3099	ug/l	100
26) Methyl-t-butyl ether	2.943	73	167071	53.0613	ug/l	87
27) 1,1-Dichloroethane	3.268	63	371247	58.8504	ug/l	96
28) trans-1,2-Dichloroethene	2.949	96	197964	61.3916	ug/l	95
29) Ethyl-t-butyl ether	3.616	59	111403	20.9048	ug/l	96
30) cis-1,2-Dichloroethene	3.725	61	350244	58.9949	ug/l	77
31) Bromochloromethane	3.899	49	149359	56.9667	ug/l	63
32) 2,2-Dichloropropane	3.737	77	220187	54.3639	ug/l	98
33) Ethyl acetate	3.773	43	83933m	59.8465	ug/l	
34) 1,4-Dioxane	4.843	88	27917	3297.3777	ug/l	84
35) 1,1-Dichloropropene	4.193	75	308874	56.8606	ug/l	98
36) Chloroform	3.953	83	278500	53.2507	ug/l	90
38) Cyclohexane	4.139	56	496800	56.3297	ug/l	85
40) 1,2-Dichloroethane	4.314	62	172185	58.6323	ug/l	96
41) 2-Butanone	3.725	43	47995	66.3684	ug/l	84
42) 1,1,1-Trichloroethane	4.085	97	282674	53.0512	ug/l	91
43) Carbon Tetrachloride	4.199	117	245372	55.6845	ug/l	94
44) Vinyl Acetate	3.322	43	434117	59.4992	ug/l	100
45) Bromodichloromethane	4.915	83	207935	55.1744	ug/l	97
46) Methylcyclohexane	4.783	83	378802	59.0632	ug/l	89
47) Dibromomethane	4.843	174	58249	62.7423	ug/l	81
48) 1,2-Dichloropropane	4.783	63	191396	52.1890	ug/l	99
49) Trichloroethene	4.668	130	185048	55.0030	ug/l	79
50) Benzene	4.314	78	767613	55.1142	ug/l	100
51) tert-Amyl methyl ether	4.374	73	165609	52.9323	ug/l	57
53) Iso-propylacetate	4.338	43	133581	60.4857	ug/l	79
54) Methyl methacrylate	4.831	41	85964	64.6427	ug/l	79
55) Dibromochloromethane	5.726	129	94810	56.4610	ug/l	92
56) 2-Chloroethylvinylether	5.065	63	41538	62.6047	ug/l	68
57) cis-1,3-Dichloropropene	5.149	75	206182	56.8618	ug/l	82
58) trans-1,3-Dichloropropene	5.420	75	145762	61.1261	ug/l	94
59) Ethyl methacrylate	5.456	41	98002m	69.9697	ug/l	
60) 1,1,2-Trichloroethane	5.516	97	83643	58.0037	ug/l	92
61) 1,2-Dibromoethane	5.792	107	71601	61.4521	ug/l	82
62) 1,3-Dichloropropane	5.606	76	156588	55.2710	ug/l	96
63) 4-Methyl-2-Pentanone	5.215	43	66740	61.2904	ug/l	71
64) 2-Hexanone	5.636	43	37323	63.9043	ug/l	67
65) Tetrachloroethene	5.612	164	148029	56.1885	ug/l	94
67) Toluene	~~5.330~~	92	401506	55.6110	ug/l	95

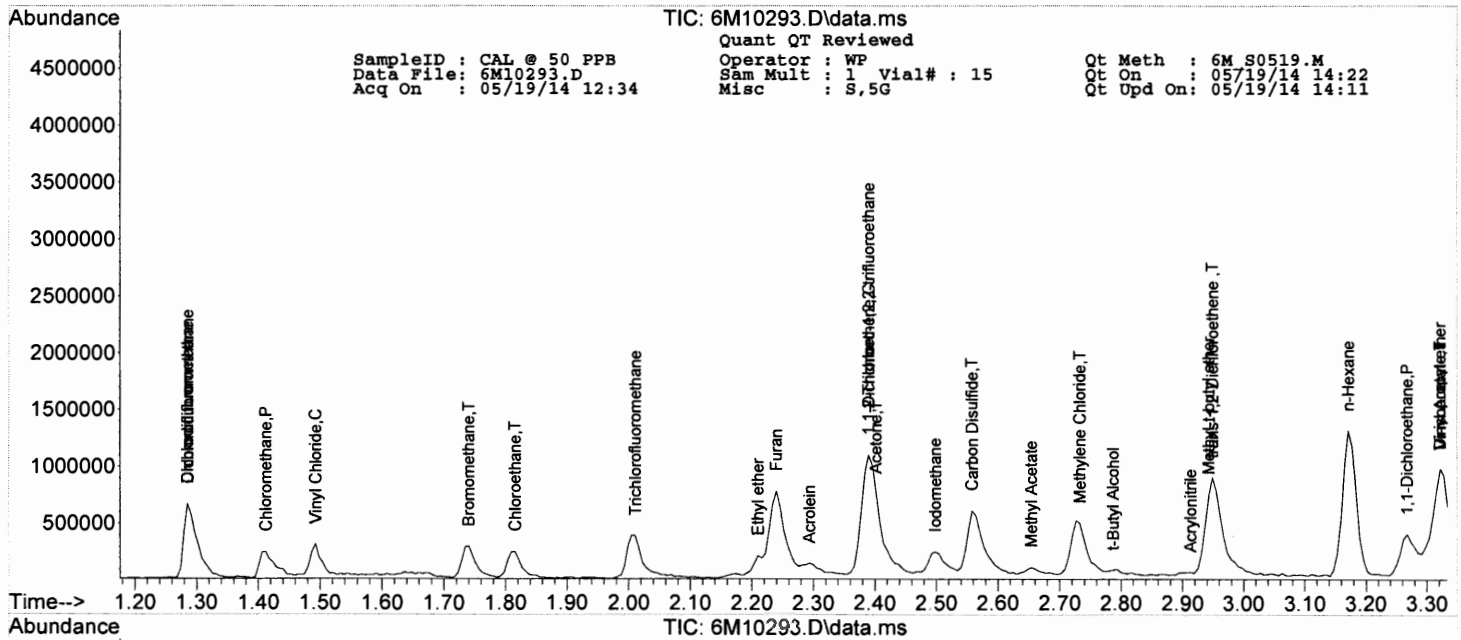
Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB
Data File: 6M10293.D
Acq On : 05/19/14 12:34
Operator : WP
Sam Mult : 1 Vial# : 15
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:22
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.075	133	115718	55.6736	ug/l	95
69)	Chlorobenzene	6.045	112	369814	57.3086	ug/l	99
71)	n-Butyl acrylate	6.303	55	150346	78.7672	ug/l	97
72)	n-Amyl acetate	6.411	43	146932	78.2611	ug/l	74
73)	Bromoform	6.466	173	52477	61.0597	ug/l	88
74)	Ethylbenzene	6.093	106	228202	70.2154	ug/l	92
75)	1,1,2,2-Tetrachloroethane	6.676	83	87949	61.2069	ug/l	92
77)	Styrene	6.363	104	352612	69.1086	ug/l	86
78)	m&p-Xylenes	6.147	106	505854	115.8892	ug/l	97
79)	o-Xylene	6.357	106	231014	65.3828	ug/l	76
80)	trans-1,4-Dichloro-2-b...	6.706	53	76825	54.1061	ug/l	37
81)	1,3-Dichlorobenzene	7.223	146	246064	64.5600	ug/l	89
82)	1,4-Dichlorobenzene	7.271	146	225603	58.1295	ug/l	94
83)	1,2-Dichlorobenzene	7.481	146	199205	62.0516	ug/l	94
84)	Isopropylbenzene	6.544	105	676997	63.4614	ug/l	96
85)	Cyclohexanone	6.706	55	38433	285.6736	ug/l	65
86)	Camphene	6.706	93	276673	60.8638	ug/l	96
87)	1,2,3-Trichloropropane	6.712	75	100453	60.8920	ug/l	81
88)	2-Chlorotoluene	6.820	91	566003	67.9272	ug/l	94
89)	p-Ethyltoluene	6.820	105	624069	57.3799	ug/l	80
90)	4-Chlorotoluene	6.874	91	483393	60.6252	ug/l	94
91)	n-Propylbenzene	6.760	91	932360	64.4476	ug/l	97
92)	Bromobenzene	6.718	77	343931	60.3426	ug/l	87
93)	1,3,5-Trimethylbenzene	6.850	105	511584	59.8595	ug/l	94
94)	Butyl methacrylate	6.862	41	213715m	70.9499	ug/l	
95)	t-Butylbenzene	7.031	119	531962	65.2856	ug/l	87
96)	1,2,4-Trimethylbenzene	7.055	105	490056	64.3084	ug/l	88
97)	sec-Butylbenzene	7.151	105	741944	63.5079	ug/l	95
98)	4-Isopropyltoluene	7.223	119	533688	66.7373	ug/l	93
99)	n-Butylbenzene	7.445	91	722529	66.1606	ug/l	87
100)	p-Diethylbenzene	7.433	119	284782	53.5300	ug/l	97
101)	1,2,4,5-Tetramethylben...	7.872	119	318574	58.1606	ug/l	93
102)	1,2-Dibromo-3-Chloropr...	7.908	157	9143	65.0533	ug/l	90
103)	Camphor	8.329	95	24656	543.9517	ug/l	99
104)	Hexachlorobutadiene	8.479	225	140684	66.5464	ug/l	93
105)	1,2,4-Trichlorobenzene	8.389	180	116484	64.8364	ug/l	93
106)	1,2,3-Trichlorobenzene	8.678	180	87855	66.8820	ug/l	93
107)	Naphthalene	8.539	128	109532	61.9317	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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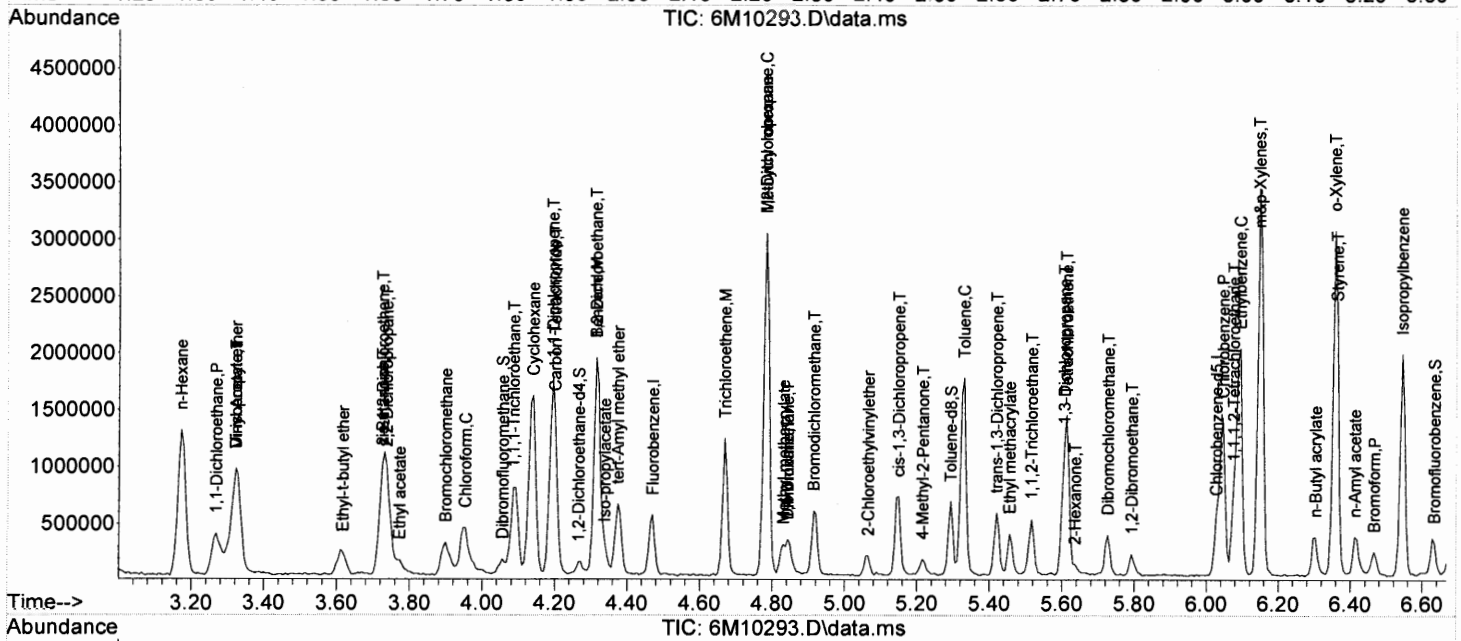
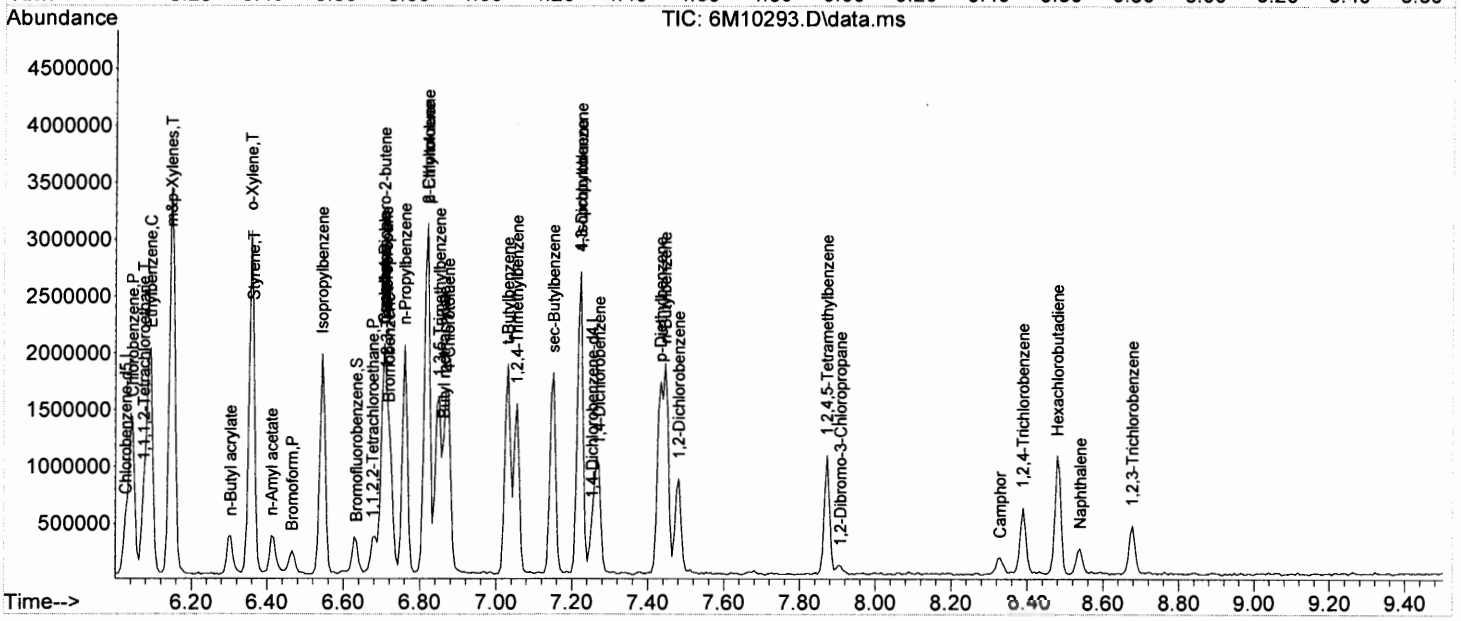
TIC: 6M10293.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 6M10293.D
Acq On : 05/19/14 12:34
Operator : WP
Sam Mult : 1 Vial# : 15
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:22
Qt Upd On: 05/19/14 14:11
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 6M10293.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Iso-propylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
1,1,1,2-Tetrachloroethane,T
Ethylbenzene,C
m&p-Xylenes,T
o-Xylene,T
Styrene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Time-->


Abundance
TIC: 6M10293.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
1,1,1,2-Tetrachloroethane,T
Ethylbenzene,C
m&p-Xylenes,T
o-Xylene,T
Styrene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,P
n-Propylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 100 PPB
Data File: 6M10294.D
Acq On : 05/19/14 12:51

Operator : WP
Sam Mult : 1 Vial# : 16
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:20
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.464	96	233845	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.027	117	117399	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.253	152	62454	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.055	111	60433	28.40	ug/l	-0.02
Spiked Amount 30.000			Recovery = 94.67%			
39) 1,2-Dichloroethane-d4	4.266	67	27648	27.53	ug/l	-0.02
Spiked Amount 30.000			Recovery = 91.77%			
66) Toluene-d8	5.293	98	200367	32.57	ug/l	-0.01
Spiked Amount 30.000			Recovery = 108.57%			
76) Bromofluorobenzene	6.628	174	44384	29.75	ug/l	-0.02
Spiked Amount 30.000			Recovery = 99.17%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.291	51	806757	83.3572	ug/l	63
6) Dichlorodifluoromethane	1.285	85	516508	112.7275	ug/l	82
7) Chloromethane	1.412	50	458926	108.4098	ug/l	72
8) Bromomethane	1.735	94	304103	115.0072	ug/l	97
9) Vinyl Chloride	1.493	62	334407	101.3164	ug/l	95
10) Chloroethane	1.809	64	339865	118.3052	ug/l	98
11) Trichlorofluoromethane	2.005	101	625555	113.5892	ug/l	85
12) Ethyl ether	2.210	59	162347m	111.7437	ug/l	
13) Furan	2.240	39	1029647m	106.6335	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.390	101	430855	114.9153	ug/l	91
15) Methylene Chloride	2.727	84	310959	110.8615	ug/l	78
16) Acrolein	2.294	56	115168	918.4785	ug/l	98
17) Acrylonitrile	2.895	53	37878	101.1803	ug/l	92
18) Iodomethane	2.498	142	419776	104.8939	ug/l	100
19) Acetone	2.402	43	202642	604.7228	ug/l	92
20) Carbon Disulfide	2.564	76	1486662	98.5822	ug/l	100
21) t-Butyl Alcohol	2.793	59	29232	604.6323	ug/l	98
22) n-Hexane	3.178	57	827857	115.7425	ug/l	87
23) Di-isopropyl-ether	3.328	45	1396947	123.3919	ug/l	83
24) 1,1-Dichloroethene	2.384	61	743902	115.2879	ug/l	92
25) Methyl Acetate	2.649	43	162633	126.5509	ug/l	100
26) Methyl-t-butyl ether	2.949	73	363098	113.4648	ug/l	92
27) 1,1-Dichloroethane	3.268	63	754275	117.6458	ug/l	95
28) trans-1,2-Dichloroethene	2.955	96	397595	121.3177	ug/l	97
29) Ethyl-t-butyl ether	3.616	59	245791	45.3812	ug/l	94
30) cis-1,2-Dichloroethene	3.725	61	699350	115.9040	ug/l	84
31) Bromochloromethane	3.899	49	300801	112.8833	ug/l	58
32) 2,2-Dichloropropane	3.731	77	472973	114.8987	ug/l	98
33) Ethyl acetate	3.773	43	169126	118.6524	ug/l	91
34) 1,4-Dioxane	4.843	88	60862	7073.0445	ug/l	87
35) 1,1-Dichloropropene	4.187	75	642031	116.2911	ug/l	96
36) Chloroform	3.947	83	593693	111.6921	ug/l	79
38) Cyclohexane	4.133	56	999923	111.5533	ug/l	86
40) 1,2-Dichloroethane	4.314	62	343281	115.0143	ug/l	96
41) 2-Butanone	3.725	43	76203	103.6807	ug/l	97
42) 1,1,1-Trichloroethane	4.085	97	594856	109.8453	ug/l	99
43) Carbon Tetrachloride	4.199	117	469330	104.7967	ug/l	99
44) Vinyl Acetate	3.322	43	890593	120.1003	ug/l	100
45) Bromodichloromethane	4.915	83	421478	110.0386	ug/l	91
46) Methylcyclohexane	4.782	83	759578	116.5298	ug/l	88
47) Dibromomethane	4.843	174	114322	121.1609	ug/l	90
48) 1,2-Dichloropropane	4.776	63	401906	107.8279	ug/l	99
49) Trichloroethene	4.668	130	373183	109.1401	ug/l	90
50) Benzene	4.314	78	1528953	108.0129	ug/l	100
51) tert-Amyl methyl ether	4.374	73	345762	108.7362	ug/l	56
53) Iso-propylacetate	4.332	43	283623	136.6743	ug/l	83
54) Methyl methacrylate	4.825	41	164354	131.5287	ug/l	91
55) Dibromochloromethane	5.720	129	193599	122.6973	ug/l	100
56) 2-Chloroethylvinylether	5.059	63	92971	149.1235	ug/l	74
57) cis-1,3-Dichloropropene	5.143	75	466972	137.0558	ug/l	91
58) trans-1,3-Dichloropropene	5.420	75	296704	132.4168	ug/l	96
59) Ethyl methacrylate	5.456	41	203750m	154.8138	ug/l	
60) 1,1,2-Trichloroethane	5.510	97	179185	132.2407	ug/l	94
61) 1,2-Dibromoethane	5.792	107	137282	125.3916	ug/l	85
62) 1,3-Dichloropropane	5.600	76	336647	126.4592	ug/l	97
63) 4-Methyl-2-Pentanone	5.209	43	145118	141.8288	ug/l	91
64) 2-Hexanone	5.630	43	81825	149.0997	ug/l	72
65) Tetrachloroethene	5.612	164	290499	117.3497	ug/l	91
67) Toluene	5.323	92	832413	122.7000	ug/l	90

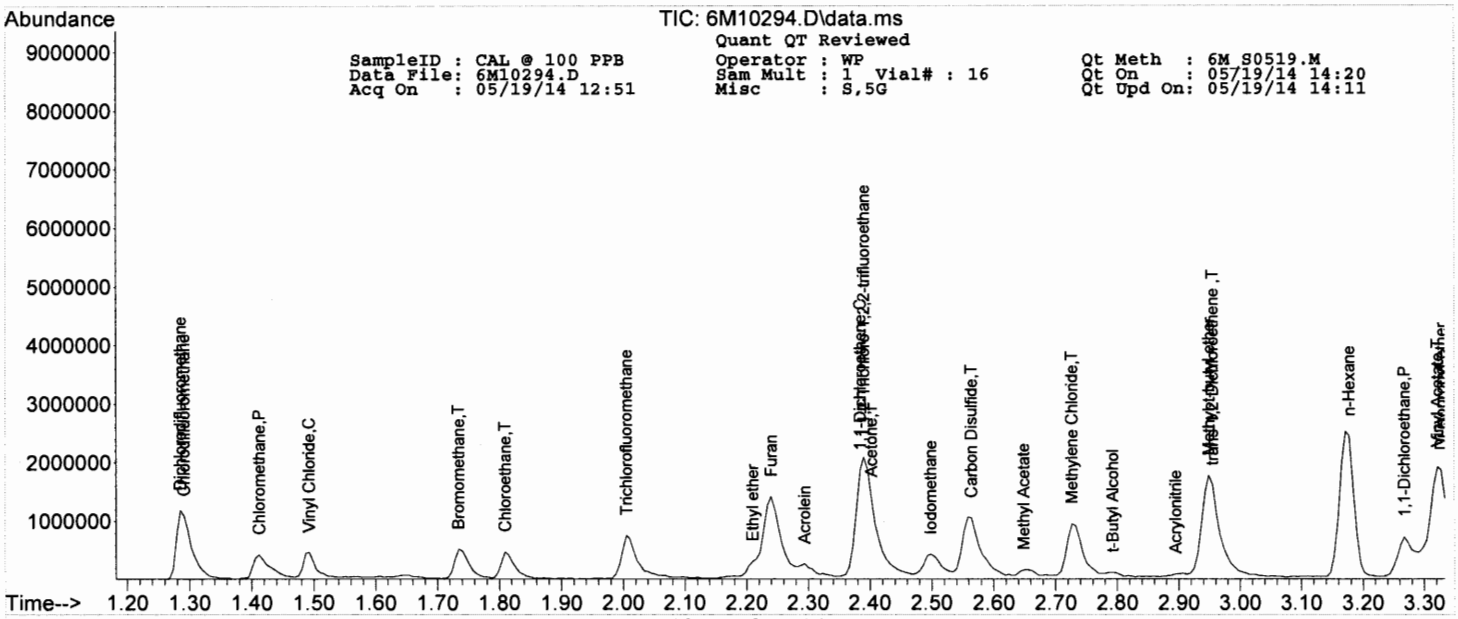
Quantitation Report (QT Reviewed)

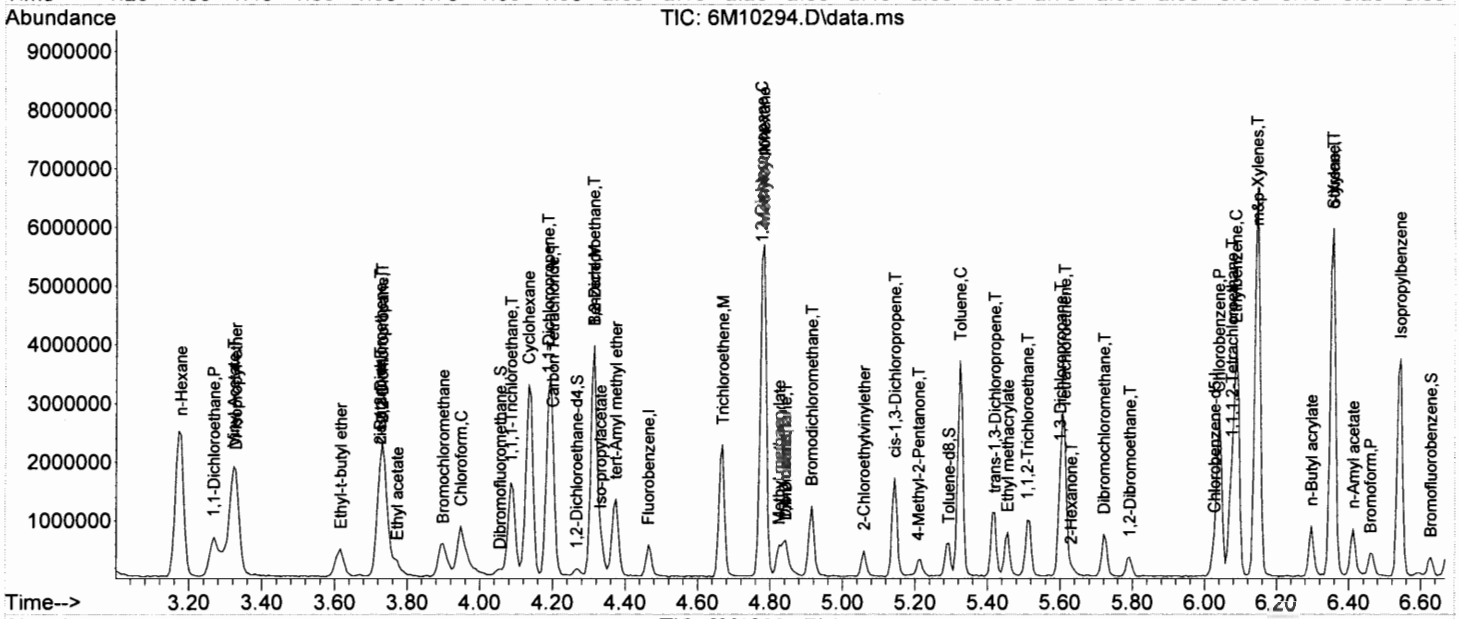
SampleID : CAL @ 100 PPB
Data File: 6M10294.D
Acq On : 05/19/14 12:51
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:20
Qt Upd On: 05/19/14 14:11

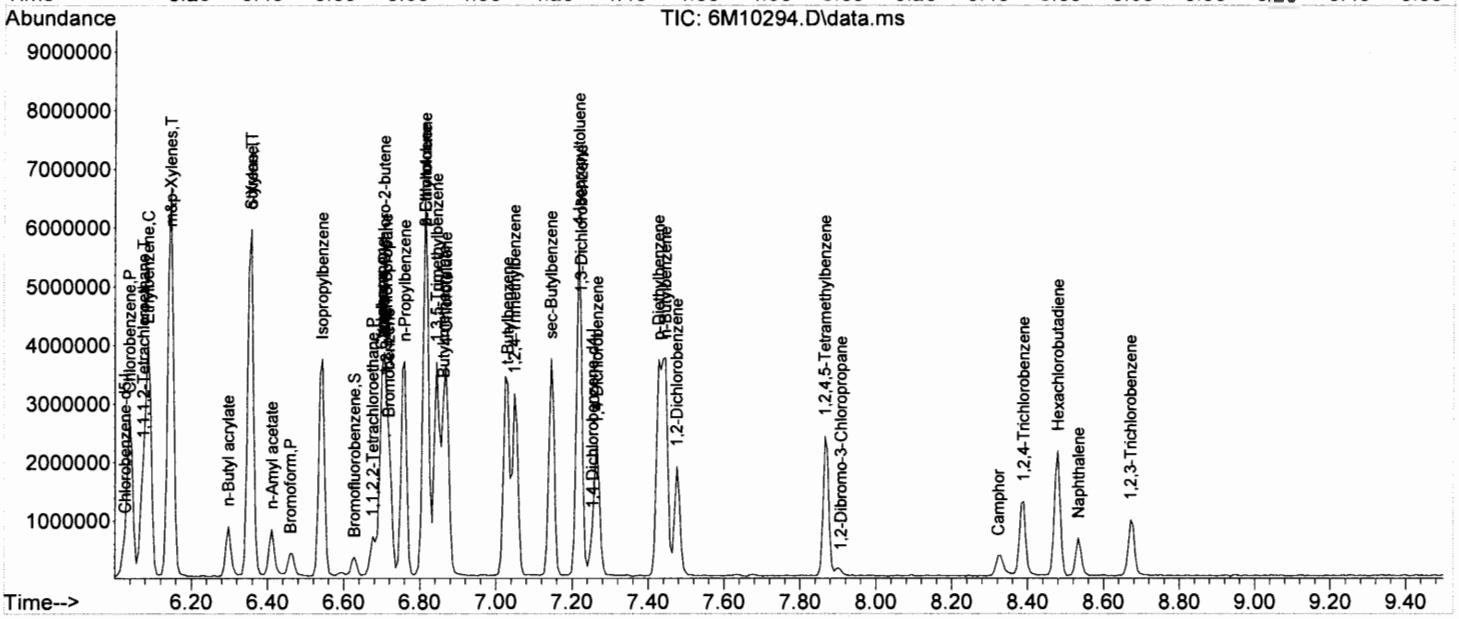
Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.075	133	224024	114.7044	ug/l	87
69)	Chlorobenzene	6.039	112	741989	122.3688	ug/l	98
71)	n-Butyl acrylate	6.297	55	321323	162.1866	ug/l	97
72)	n-Amyl acetate	6.411	43	305192	156.6112	ug/l	80
73)	Bromoform	6.460	173	113552	127.2917	ug/l	97
74)	Ethylbenzene	6.087	106	416000	123.3179	ug/l	91
75)	1,1,2,2-Tetrachloroethane	6.676	83	196929	132.0379	ug/l	94
77)	Styrene	6.357	104	714076	134.8340	ug/l	96
78)	m&p-Xylenes	6.147	106	942363	207.9963	ug/l	98
79)	o-Xylene	6.357	106	465922	127.0451	ug/l	88
80)	trans-1,4-Dichloro-2-b...	6.706	53	166089	112.6950	ug/l	28
81)	1,3-Dichlorobenzene	7.223	146	503754	127.3368	ug/l	93
82)	1,4-Dichlorobenzene	7.265	146	486885	120.8642	ug/l	94
83)	1,2-Dichlorobenzene	7.475	146	430621	129.2313	ug/l	91
84)	Isopropylbenzene	6.544	105	1410288	127.3651	ug/l	93
85)	Cyclohexanone	6.700	55	63690	456.0966	ug/l	62
86)	Camphene	6.700	93	560386	118.7679	ug/l	97
87)	1,2,3-Trichloropropane	6.712	75	193332	112.9070	ug/l	81
88)	2-Chlorotoluene	6.814	91	1090309	126.0650	ug/l	92
89)	p-Ethyltoluene	6.814	105	1331803	117.9741	ug/l	78
90)	4-Chlorotoluene	6.868	91	994442	120.1579	ug/l	96
91)	n-Propylbenzene	6.760	91	1807891	120.3969	ug/l	99
92)	Bromobenzene	6.718	77	701430	118.5650	ug/l	85
93)	1,3,5-Trimethylbenzene	6.844	105	1067858	120.3786	ug/l	88
94)	Butyl methacrylate	6.862	41	462379m	147.8887	ug/l	
95)	t-Butylbenzene	7.031	119	1015612	120.0838	ug/l	91
96)	1,2,4-Trimethylbenzene	7.049	105	1042462	131.7960	ug/l	92
97)	sec-Butylbenzene	7.145	105	1513588	124.8200	ug/l	94
98)	4-Isopropyltoluene	7.217	119	1124671	135.4960	ug/l	94
99)	n-Butylbenzene	7.445	91	1557504	137.4020	ug/l	87
100)	p-Diethylbenzene	7.427	119	706089	127.8685	ug/l	90
101)	1,2,4,5-Tetramethylben...	7.866	119	764411	134.4515	ug/l	92
102)	1,2-Dibromo-3-Chloropr...	7.908	157	21690	148.6825	ug/l	71
103)	Camphor	8.323	95	63209	1343.4960	ug/l	92
104)	Hexachlorobutadiene	8.479	225	292455	133.2780	ug/l	97
105)	1,2,4-Trichlorobenzene	8.389	180	256303	137.4441	ug/l	94
106)	1,2,3-Trichlorobenzene	8.671	180	193574	141.9743	ug/l	93
107)	Naphthalene	8.533	128	267245	145.5799	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10294.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 100 PPB
Data File: 6M10294.D
Acq On : 05/19/14 12:51
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:20
Qt Upd On: 05/19/14 14:11
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 6M10294.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Isopropylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Time-->


Abundance
TIC: 6M10294.D\data.ms
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
n-Propylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 250 PPB
Data File: 6M10296.D
Acq On : 05/19/14 13:24

Operator : WP
Sam Mult : 1 Vial# : 18
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:19
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.463	96	235183	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.026	117	134465	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.252	152	71112	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.054	111	68665	32.09	ug/l	-0.02
Spiked Amount 30.000			Recovery = 106.97%			
39) 1,2-Dichloroethane-d4	4.265	67	32283	31.97	ug/l	-0.02
Spiked Amount 30.000			Recovery = 106.57%			
66) Toluene-d8	5.293	98	215390	30.57	ug/l	-0.01
Spiked Amount 30.000			Recovery = 101.90%			
76) Bromofluorobenzene	6.627	174	45776	26.95	ug/l	-0.02
Spiked Amount 30.000			Recovery = 89.83%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.292	51	1974684	202.8711	ug/l	63
6) Dichlorodifluoromethane	1.286	85	1256471	272.6639	ug/l	87
7) Chloromethane	1.413	50	1150143	270.1469	ug/l	74
8) Bromomethane	1.736	94	722491	271.6808	ug/l	79
9) Vinyl Chloride	1.494	62	846960	255.1463	ug/l	95
10) Chloroethane	1.810	64	831274	287.7159	ug/l	92
11) Trichlorofluoromethane	2.006	101	1498299	270.5154	ug/l	87
12) Ethyl ether	2.215	59	383162m	262.2306	ug/l	
13) Furan	2.239	39	2459366m	253.2507	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.389	101	998111	264.6962	ug/l	90
15) Methylene Chloride	2.732	84	745102	264.1287	ug/l	86
16) Acrolein	2.293	56	289050	2292.0933	ug/l	88
17) Acrylonitrile	2.900	53	97633	259.3151	ug/l	92
18) Iodomethane	2.497	142	1013885	251.9088	ug/l	94
19) Acetone	2.401	43	472113	1400.8608	ug/l	99
20) Carbon Disulfide	2.564	76	3474918	229.1146	ug/l	100
21) t-Butyl Alcohol	2.792	59	63892	1314.0184	ug/l	89
22) n-Hexane	3.177	57	1922562	267.2637	ug/l	89
23) Di-isopropyl-ether	3.321	45	3352559	294.4457	ug/l	80
24) 1,1-Dichloroethene	2.389	61	1766032	272.1376	ug/l	97
25) Methyl Acetate	2.654	43	416510	322.2582	ug/l	100
26) Methyl-t-butyl ether	2.948	73	879142	273.1608	ug/l	91
27) 1,1-Dichloroethane	3.267	63	1800779	279.2732	ug/l	99
28) trans-1,2-Dichloroethene	2.954	96	933314	283.1608	ug/l	95
29) Ethyl-t-butyl ether	3.615	59	583330	107.0894	ug/l	95
30) cis-1,2-Dichloroethene	3.730	61	1694610	279.2517	ug/l	83
31) Bromochloromethane	3.898	49	687343	256.4755	ug/l	57
32) 2,2-Dichloropropane	3.736	77	1138499	275.0007	ug/l	93
33) Ethyl acetate	3.772	43	416076	290.2424	ug/l	90
34) 1,4-Dioxane	4.842	88	130432	15071.8473	ug/l	54
35) 1,1-Dichloropropene	4.193	75	1471000	264.9265	ug/l	95
36) Chloroform	3.946	83	1403528	262.5449	ug/l	85
38) Cyclohexane	4.138	56	2311985	256.4620	ug/l	85
40) 1,2-Dichloroethane	4.313	62	742813	247.4593	ug/l	98
41) 2-Butanone	3.724	43	178325	241.2461	ug/l	86
42) 1,1,1-Trichloroethane	4.090	97	1388306	254.9043	ug/l	100
43) Carbon Tetrachloride	4.199	117	1146727	254.5959	ug/l	97
44) Vinyl Acetate	3.321	43	2182609	292.6598	ug/l	100
45) Bromodichloromethane	4.914	83	972490	252.4513	ug/l	95
46) Methylcyclohexane	4.782	83	1700778	259.4386	ug/l	86
47) Dibromomethane	4.842	174	265292	279.5624	ug/l	87
48) 1,2-Dichloropropane	4.782	63	886134	236.3895	ug/l	90
49) Trichloroethene	4.667	130	882943	256.7540	ug/l	93
50) Benzene	4.313	78	3557779	249.9095	ug/l	100
51) tert-Amyl methyl ether	4.373	73	859299	268.6973	ug/l	59
53) Iso-propylacetate	4.331	43	715287	300.9406	ug/l	77
54) Methyl methacrylate	4.824	41	410425	286.7669	ug/l	93
55) Dibromochloromethane	5.725	129	459069	254.0183	ug/l	98
56) 2-Chloroethylvinylether	5.058	63	220961	309.4349	ug/l	75
57) cis-1,3-Dichloropropene	5.142	75	1158769	296.9331	ug/l	86
58) trans-1,3-Dichloropropene	5.419	75	799431	311.4983	ug/l	98
59) Ethyl methacrylate	5.455	41	486188m	322.5310	ug/l	
60) 1,1,2-Trichloroethane	5.515	97	403002	259.6723	ug/l	92
61) 1,2-Dibromoethane	5.791	107	338070	269.5980	ug/l	94
62) 1,3-Dichloropropane	5.599	76	739456	242.5176	ug/l	96
63) 4-Methyl-2-Pentanone	5.214	43	363864	310.4827	ug/l	95
64) 2-Hexanone	5.629	43	214862	341.8264	ug/l	80
65) Tetrachloroethene	5.611	164	671740	236.9157	ug/l	98
67) Toluene	5.323	92	1883741	242.4276	ug/l	91

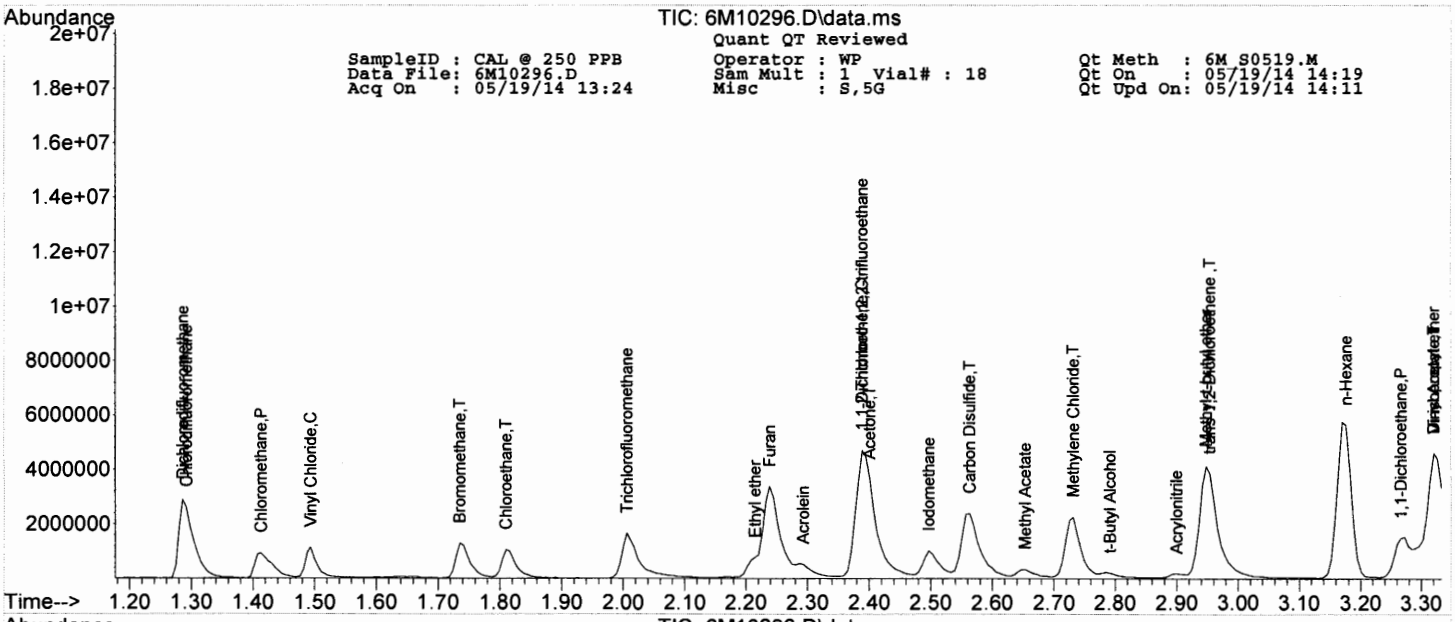
Quantitation Report (QT Reviewed)

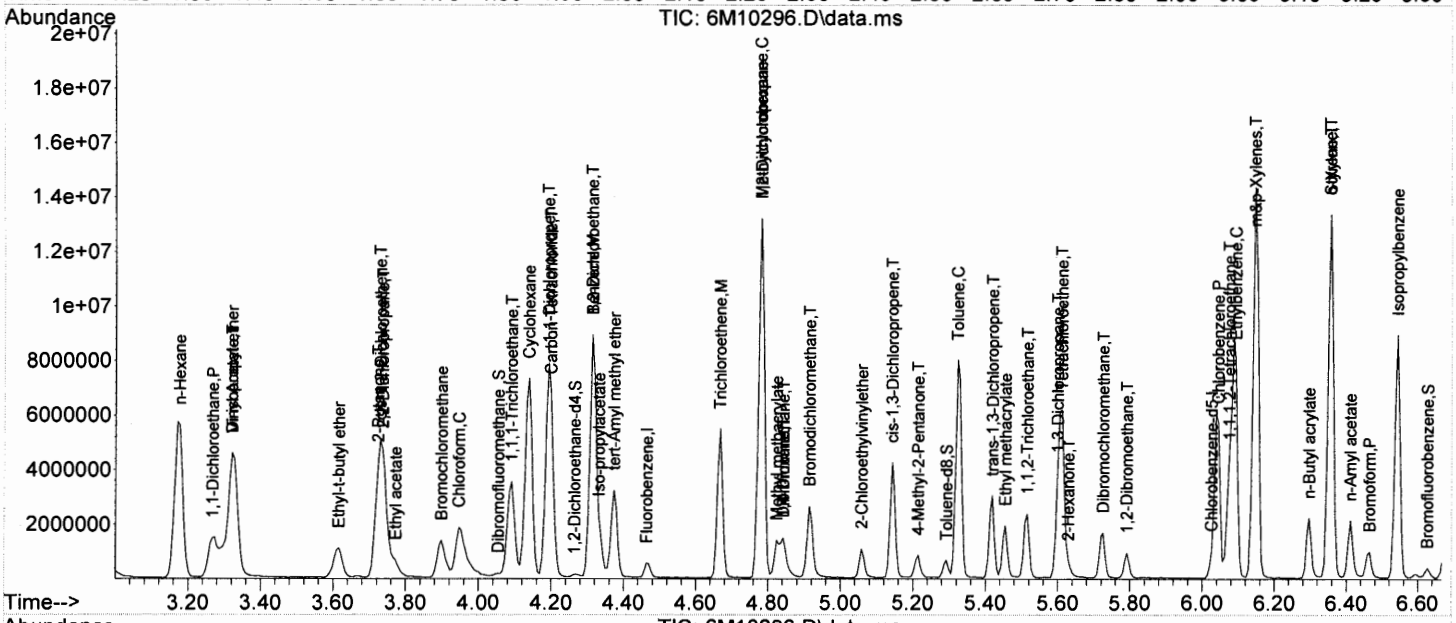
SampleID : CAL @ 250 PPB
Data File: 6M10296.D
Acq On : 05/19/14 13:24
Operator : WP
Sam Mult : 1 Vial# : 18
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:19
Qt Upd On: 05/19/14 14:11

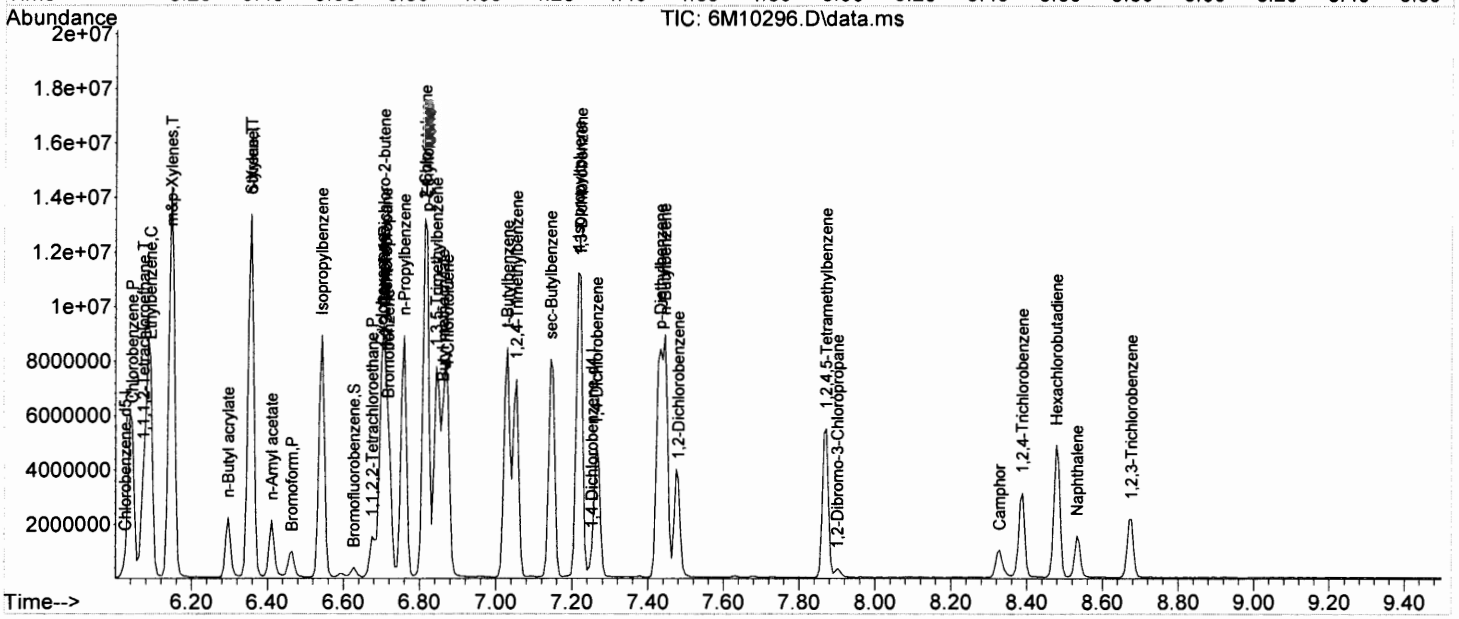
Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.074	133	513083	229.3655	ug/l	81
69)	Chlorobenzene	6.044	112	1743935	251.1070	ug/l	94
71)	n-Butyl acrylate	6.296	55	841655	373.0994	ug/l	100
72)	n-Amyl acetate	6.411	43	789914	355.9973	ug/l	75
73)	Bromoform	6.465	173	256025	252.0607	ug/l	100
74)	Ethylbenzene	6.092	106	949120	247.0993	ug/l	86
75)	1,1,2,2-Tetrachloroethane	6.675	83	423346	249.2883	ug/l	90
77)	Styrene	6.356	104	1604005	265.9978	ug/l	88
78)	m&p-Xylenes	6.146	106	2171784	420.9896	ug/l	91
79)	o-Xylene	6.356	106	998342	239.0790	ug/l	90
80)	trans-1,4-Dichloro-2-b...	6.705	53	381730	227.4770	ug/l	33
81)	1,3-Dichlorobenzene	7.222	146	1089218	241.8063	ug/l	92
82)	1,4-Dichlorobenzene	7.264	146	1139803	248.4955	ug/l	93
83)	1,2-Dichlorobenzene	7.480	146	970591	255.8151	ug/l	93
84)	Isopropylbenzene	6.543	105	3273578	259.6467	ug/l	97
85)	Cyclohexanone	6.699	55	158998	999.9876	ug/l	64
86)	Camphene	6.705	93	1306280	243.1451	ug/l	92
87)	1,2,3-Trichloropropane	6.711	75	474724	243.4869	ug/l	77
88)	2-Chlorotoluene	6.813	91	2239404	227.4023	ug/l	93
89)	p-Ethyltoluene	6.819	105	3001720	233.5254	ug/l	82
90)	4-Chlorotoluene	6.873	91	2174836	230.7898	ug/l	95
91)	n-Propylbenzene	6.759	91	4175389	244.2066	ug/l	98
92)	Bromobenzene	6.717	77	1728767	256.6410	ug/l	80
93)	1,3,5-Trimethylbenzene	6.843	105	2343640	232.0299	ug/l	87
94)	Butyl methacrylate	6.861	41	1043216m	293.0410	ug/l	
95)	t-Butylbenzene	7.030	119	2487597	258.3175	ug/l	90
96)	1,2,4-Trimethylbenzene	7.054	105	2422646	268.9981	ug/l	87
97)	sec-Butylbenzene	7.144	105	3504087	253.7865	ug/l	97
98)	4-Isopropyltoluene	7.216	119	2601686	275.2790	ug/l	94
99)	n-Butylbenzene	7.444	91	3547400	274.8473	ug/l	87
100)	p-Diethylbenzene	7.432	119	1539759	244.8918	ug/l	97
101)	1,2,4,5-Tetramethylben...	7.871	119	1883683	290.9805	ug/l	96
102)	1,2-Dibromo-3-Chloropr...	7.901	157	42803	257.6867	ug/l	87
103)	Camphor	8.328	95	170262	3178.2830	ug/l	95
104)	Hexachlorobutadiene	8.478	225	687581	275.1950	ug/l	96
105)	1,2,4-Trichlorobenzene	8.388	180	603584	284.2676	ug/l	96
106)	1,2,3-Trichlorobenzene	8.677	180	452781	291.6543	ug/l	94
107)	Naphthalene	8.532	128	662557	316.9803	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10296.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 250 PPB
Data File: 6M10296.D
Acq On : 05/19/14 13:24
Operator : WP
Sam Mult : 1 Vial# : 18
Misc : S,5G
Qt Meth : 6M S0519.M
Qt On : 05/19/14 14:19
Qt Upd On: 05/19/14 14:11
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 6M10296.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Iso-propylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,C
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Time-->


Abundance
TIC: 6M10296.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,C
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,P
n-Propylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

4052101 0370

SampleID : CAL @ 500 PPB
Data File: 6M10298.D
Acq On : 05/19/14 13:59

Operator : WP
Sam Mult : 1 Vial# : 20
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:11
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.463	96	237034	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.026	117	135686	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.252	152	63586	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.055	111	60201	27.91	ug/l	-0.02
Spiked Amount 30.000			Recovery = 93.03%			
39) 1,2-Dichloroethane-d4	4.265	67	32386	31.82	ug/l	-0.02
Spiked Amount 30.000			Recovery = 106.07%			
66) Toluene-d8	5.293	98	213088	29.97	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.90%			
76) Bromofluorobenzene	6.627	174	49658	32.70	ug/l	-0.02
Spiked Amount 30.000			Recovery = 109.00%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.287	51	4321504	440.5069	ug/l	63
6) Dichlorodifluoromethane	1.281	85	2768857	596.1711	ug/l	86
7) Chloromethane	1.408	50	2623133	611.3132	ug/l	75
8) Bromomethane	1.736	94	1704046	635.7746	ug/l	91
9) Vinyl Chloride	1.489	62	1919178	573.6366	ug/l	97
10) Chloroethane	1.811	64	1808062	620.9095	ug/l	94
11) Trichlorofluoromethane	2.007	101	3476952	622.8558	ug/l	81
12) Ethyl ether	2.209	59	943809	640.8854	ug/l	77
13) Furan	2.239	39	5475518m	559.4329	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.396	101	2088142	549.4449	ug/l	91
15) Methylene Chloride	2.732	84	1651440	580.8419	ug/l	86
16) Acrolein	2.293	56	630014	4956.8387	ug/l	99
17) Acrylonitrile	2.894	53	307500	810.3479	ug/l	97
18) Iodomethane	2.498	142	2241611	552.5991	ug/l	96
19) Acetone	2.402	43	963220	2835.7622	ug/l	96
20) Carbon Disulfide	2.564	76	7613265	498.0518	ug/l	100
21) t-Butyl Alcohol	2.792	59	146517	2989.7733	ug/l	74
22) n-Hexane	3.171	57	4224190	582.6373	ug/l	90
23) Di-isopropyl-ether	3.327	45	7150819	623.1318	ug/l	82
24) 1,1-Dichloroethene	2.390	61	3775721	577.2783	ug/l	98
25) Methyl Acetate	2.648	43	903869	693.8720	ug/l	100
26) Methyl-t-butyl ether	2.949	73	1893480	583.7345	ug/l	93
27) 1,1-Dichloroethane	3.267	63	4097314	630.4685	ug/l	96
28) trans-1,2-Dichloroethene	2.955	96	2085718	627.8505	ug/l	99
29) Ethyl-t-butyl ether	3.616	59	1305145	237.7312	ug/l	95
30) cis-1,2-Dichloroethene	3.724	61	3654339	597.4893	ug/l	84
31) Bromochloromethane	3.892	49	1543031m	571.2712	ug/l	
32) 2,2-Dichloropropane	3.730	77	2532487	606.9370	ug/l	95
33) Ethyl acetate	3.772	43	930404	643.9543	ug/l	88
34) 1,4-Dioxane	4.842	88	283064	32453.5531	ug/l	82
35) 1,1-Dichloropropene	4.193	75	3031483	541.7055	ug/l	97
36) Chloroform	3.946	83	3186453	591.4055	ug/l	88
38) Cyclohexane	4.139	56	4743975	522.1265	ug/l	87
40) 1,2-Dichloroethane	4.313	62	1638396	541.5499	ug/l	93
41) 2-Butanone	3.724	43	316372	424.6600	ug/l	99
42) 1,1,1-Trichloroethane	4.091	97	3042188	554.2086	ug/l	100
43) Carbon Tetrachloride	4.199	117	2303453	507.4182	ug/l	98
44) Vinyl Acetate	3.321	43	4905166	652.5834	ug/l	100
45) Bromodichloromethane	4.914	83	2118308	545.6030	ug/l	92
46) Methylcyclohexane	4.782	83	3395725	513.9427	ug/l	89
47) Dibromomethane	4.842	174	565655	591.4276	ug/l	98
48) 1,2-Dichloropropane	4.776	63	1751122	463.4902	ug/l	99
49) Trichloroethene	4.668	130	1856290	535.5816	ug/l	88
50) Benzene	4.313	78	7153532	498.5625	ug/l	100
51) tert-Amyl methyl ether	4.373	73	1843066	571.8145	ug/l	59
53) Iso-propylacetate	4.331	43	1639783	683.6928	ug/l	76
54) Methyl methacrylate	4.824	41	940336	651.1073	ug/l	90
55) Dibromochloromethane	5.726	129	1045963	573.5582	ug/l	95
56) 2-Chloroethylvinylether	5.058	63	538773	747.7109	ug/l	74
57) cis-1,3-Dichloropropene	5.142	75	2494362	633.4253	ug/l	89
58) trans-1,3-Dichloropropene	5.419	75	1737223	670.8177	ug/l	99
59) Ethyl methacrylate	5.455	41	1126244m	740.4129	ug/l	
60) 1,1,2-Trichloroethane	5.515	97	832844	531.8099	ug/l	89
61) 1,2-Dibromoethane	5.792	107	743825	587.8345	ug/l	96
62) 1,3-Dichloropropane	5.599	76	1555891	505.6899	ug/l	94
63) 4-Methyl-2-Pentanone	5.209	43	849589	718.4250	ug/l	99
64) 2-Hexanone	5.629	43	513382	809.3956	ug/l	78
65) Tetrachloroethene	5.611	164	1394753	487.4883	ug/l	86
67) Toluene	5.323	92	3895936	496.8746	ug/l	95

Quantitation Report (QT Reviewed)

SampleID : CAL @ 500 PPB
Data File: 6M10298.D
Acq On : 05/19/14 13:59

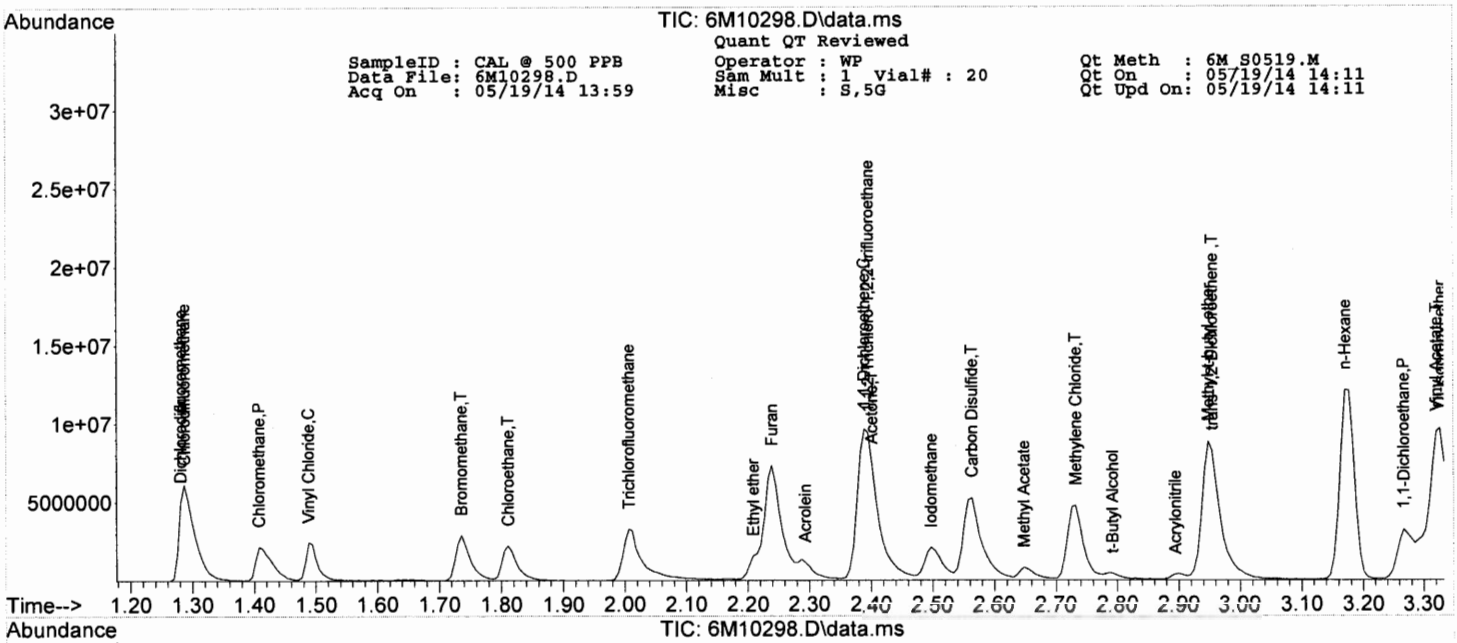
Operator : WP
Sam Mult : 1 Vial# : 20
Misc : S,5G

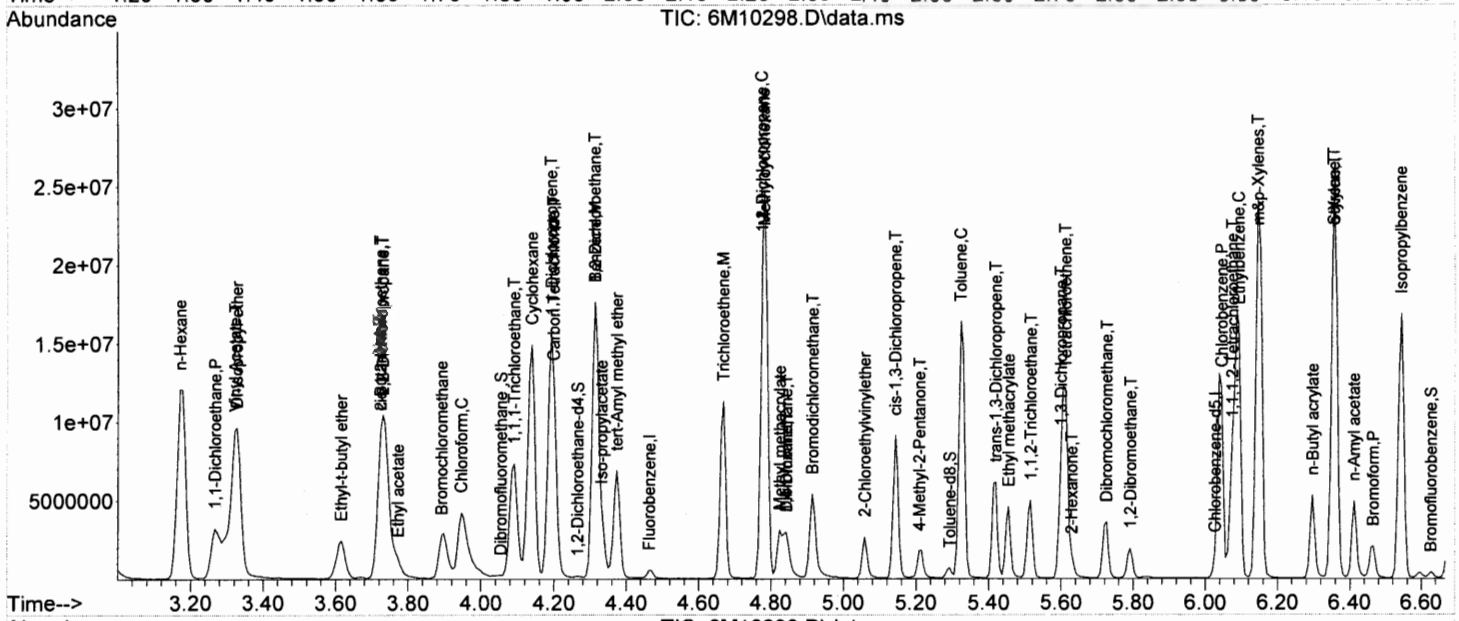
Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:11
Qt Upd On: 05/19/14 14:11

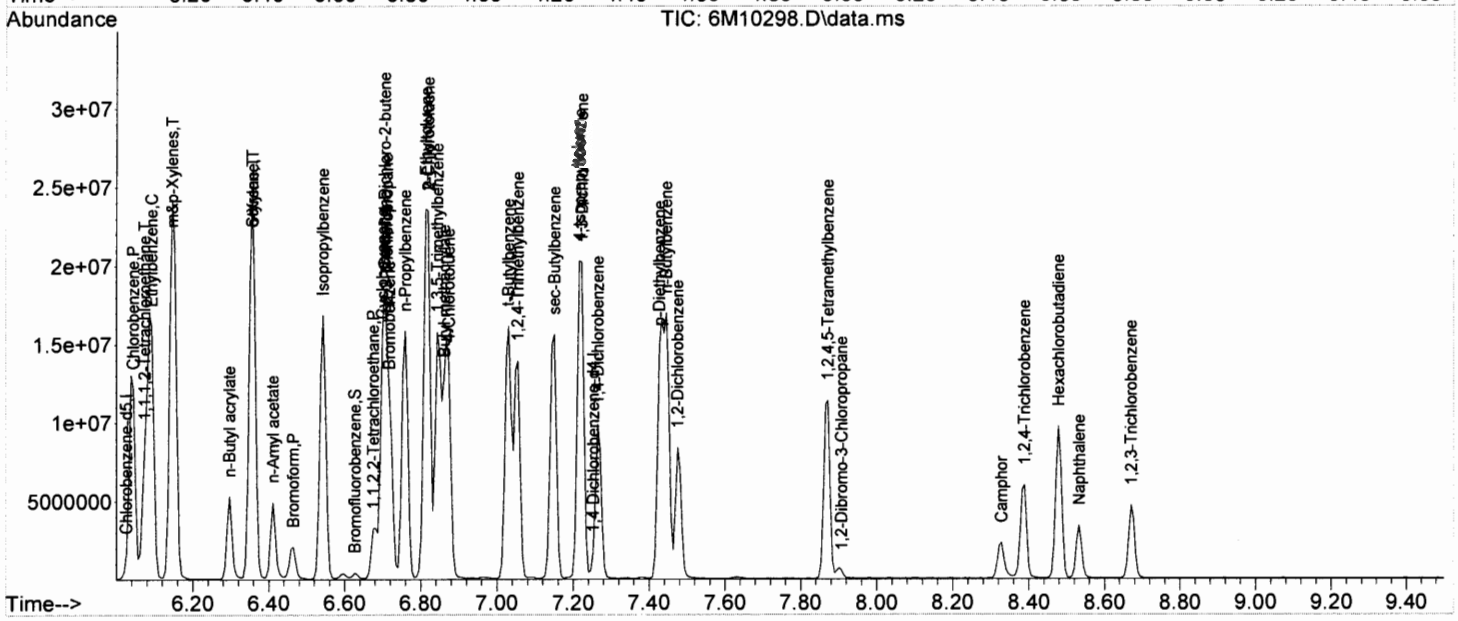
Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.074	133	1152285	510.4752	ug/l	78
69) Chlorobenzene	6.044	112	3605402	514.4657	ug/l	94
71) n-Butyl acrylate	6.297	55	1968760	976.0332	ug/l	99
72) n-Amyl acetate	6.411	43	1847427	931.1414	ug/l	77
73) Bromoform	6.465	173	574510	632.5599	ug/l	99
74) Ethylbenzene	6.092	106	1971200	573.9346	ug/l	66
75) 1,1,2,2-Tetrachloroethane	6.675	83	915452	602.8696	ug/l	86
77) Styrene	6.357	104	3095404	574.0782	ug/l	83
78) m&p-Xylenes	6.146	106	4096652	888.1068	ug/l	61
79) o-Xylene	6.357	106	2061217	552.0357	ug/l	80
80) trans-1,4-Dichloro-2-b...	6.705	53	763316	508.7061	ug/l	31
81) 1,3-Dichlorobenzene	7.222	146	2001537	496.9329	ug/l	95
82) 1,4-Dichlorobenzene	7.264	146	2258058	550.5607	ug/l	94
83) 1,2-Dichlorobenzene	7.475	146	1990878	586.8349	ug/l	93
84) Isopropylbenzene	6.543	105	6377336	565.6929	ug/l	95
85) Cyclohexanone	6.699	55	310710	2185.4434	ug/l	63
86) Camphene	6.705	93	2737153	569.7833	ug/l	91
87) 1,2,3-Trichloropropane	6.711	75	925503	530.8766	ug/l	76
88) 2-Chlorotoluene	6.819	91	3984853	452.5391	ug/l	95
89) p-Ethyltoluene	6.813	105	5659621	492.4166	ug/l	82
90) 4-Chlorotoluene	6.874	91	4122478	489.2489	ug/l	96
91) n-Propylbenzene	6.759	91	7541653	493.2968	ug/l	95
92) Bromobenzene	6.717	77	3247689	539.1944	ug/l	85
93) 1,3,5-Trimethylbenzene	6.844	105	4794881	530.8994	ug/l	88
94) Butyl methacrylate	6.862	41	2136540m	671.1918	ug/l	
95) t-Butylbenzene	7.030	119	4913973	570.6738	ug/l	91
96) 1,2,4-Trimethylbenzene	7.054	105	4722253	586.3946	ug/l	86
97) sec-Butylbenzene	7.150	105	6826822	552.9600	ug/l	99
98) 4-Isopropyltoluene	7.216	119	4804737	568.5508	ug/l	95
99) n-Butylbenzene	7.445	91	6653541	576.5215	ug/l	87
100) p-Diethylbenzene	7.427	119	3193087	567.9546	ug/l	92
101) 1,2,4,5-Tetramethylben...	7.871	119	3968041	685.5096	ug/l	94
102) 1,2-Dibromo-3-Chloropr...	7.907	157	104004	700.2436	ug/l	82
103) Camphor	8.328	95	369575	7715.4065	ug/l	99
104) Hexachlorobutadiene	8.478	225	1378856	617.1874	ug/l	98
105) 1,2,4-Trichlorobenzene	8.388	180	1169634	616.0573	ug/l	97
106) 1,2,3-Trichlorobenzene	8.671	180	881210	634.8059	ug/l	96
107) Naphthalene	8.533	128	1422285m	760.9867	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 6M10298.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 500 PPB
Data File: 6M10298.D
Acq On : 05/19/14 13:59
Operator : WP
Sam Mult : 1 Vial# : 20
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:11
Qt Upd On: 05/19/14 14:11
Abundance
Time-->
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P


TIC: 6M10298.D\data.ms
Abundance
Time-->
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Iso-propylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
1,1,1,2-Tetrachloroethane,C
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S


TIC: 6M10298.D\data.ms
Abundance
Time-->
Chlorobenzene-d5,I
Chlorobenzene,P
1,1,1,2-Tetrachloroethane,C
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,P
n-Propylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB
Data File: 6M10289.D
Acq On : 05/19/14 11:25

Operator : WP
Sam Mult : 1 Vial# : 11
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:36
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.469	96	217458	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.026	117	111883	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.258	152	57455	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.048	111	57954	29.29	ug/l	-0.02
Spiked Amount 30.000			Recovery = 97.63%			
39) 1,2-Dichloroethane-d4	4.265	67	31555	33.79	ug/l	-0.02
Spiked Amount 30.000			Recovery = 112.63%			
66) Toluene-d8	5.293	98	177996	30.36	ug/l	-0.01
Spiked Amount 30.000			Recovery = 101.20%			
76) Bromofluorobenzene	6.633	174	43998	32.06	ug/l	-0.01
Spiked Amount 30.000			Recovery = 106.87%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	0.000		0	N.D.	d	
6) Dichlorodifluoromethane	0.000		0	N.D.	d	
7) Chloromethane	0.000		0	N.D.	d	
8) Bromomethane	0.000		0	N.D.	d	
9) Vinyl Chloride	0.000		0	N.D.	d	
10) Chloroethane	0.000		0	N.D.	d	
11) Trichlorofluoromethane	0.000		0	N.D.	d	
12) Ethyl ether	0.000		0	N.D.	d	
13) Furan	0.000		0	N.D.	d	
14) 1,1,2-Trichloro-1,2,2-...	0.000		0	N.D.	d	
15) Methylene Chloride	0.000		0	N.D.	d	
16) Acrolein	0.000		0	N.D.	d	
17) Acrylonitrile	0.000		0	N.D.	d	
18) Iodomethane	0.000		0	N.D.	d	
19) Acetone	0.000		0	N.D.	d	
20) Carbon Disulfide	0.000		0	N.D.	d	
21) t-Butyl Alcohol	0.000		0	N.D.	d	
22) n-Hexane	0.000		0	N.D.	d	
23) Di-isopropyl-ether	0.000		0	N.D.	d	
24) 1,1-Dichloroethene	0.000		0	N.D.	d	
25) Methyl Acetate	0.000		0	N.D.	d	
26) Methyl-t-butyl ether	2.948	73	2590m	0.8703	ug/l	
27) 1,1-Dichloroethane	0.000		0	N.D.	d	
28) trans-1,2-Dichloroethene	0.000		0	N.D.	d	
29) Ethyl-t-butyl ether	0.000		0	N.D.	d	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	d	
31) Bromochloromethane	0.000		0	N.D.	d	
32) 2,2-Dichloropropane	0.000		0	N.D.	d	
33) Ethyl acetate	0.000		0	N.D.	d	
34) 1,4-Dioxane	0.000		0	N.D.	d	
35) 1,1-Dichloropropene	0.000		0	N.D.	d	
36) Chloroform	0.000		0	N.D.	d	
38) Cyclohexane	0.000		0	N.D.	d	
40) 1,2-Dichloroethane	0.000		0	N.D.	d	
41) 2-Butanone	0.000		0	N.D.	d	
42) 1,1,1-Trichloroethane	0.000		0	N.D.	d	
43) Carbon Tetrachloride	0.000		0	N.D.	d	
44) Vinyl Acetate	0.000		0	N.D.	d	
45) Bromodichloromethane	0.000		0	N.D.	d	
46) Methylcyclohexane	0.000		0	N.D.	d	
47) Dibromomethane	0.000		0	N.D.	d	
48) 1,2-Dichloropropane	0.000		0	N.D.	d	
49) Trichloroethene	0.000		0	N.D.	d	
50) Benzene	4.313	78	14453m	1.0980	ug/l	
51) tert-Amyl methyl ether	0.000		0	N.D.	d	
53) Iso-propylacetate	0.000		0	N.D.	d	
54) Methyl methacrylate	0.000		0	N.D.	d	
55) Dibromochloromethane	0.000		0	N.D.	d	
56) 2-Chloroethylvinylether	0.000		0	N.D.	d	
57) cis-1,3-Dichloropropene	0.000		0	N.D.	d	
58) trans-1,3-Dichloropropene	0.000		0	N.D.	d	
59) Ethyl methacrylate	0.000		0	N.D.	d	
60) 1,1,2-Trichloroethane	0.000		0	N.D.	d	
61) 1,2-Dibromoethane	0.000		0	N.D.	d	
62) 1,3-Dichloropropane	0.000		0	N.D.	d	
63) 4-Methyl-2-Pentanone	0.000		0	N.D.	d	
64) 2-Hexanone	0.000		0	N.D.	d	
65) Tetrachloroethene	0.000		0	N.D.	d	
67) Toluene	5.329	92	8812m	1.3630	ug/l	

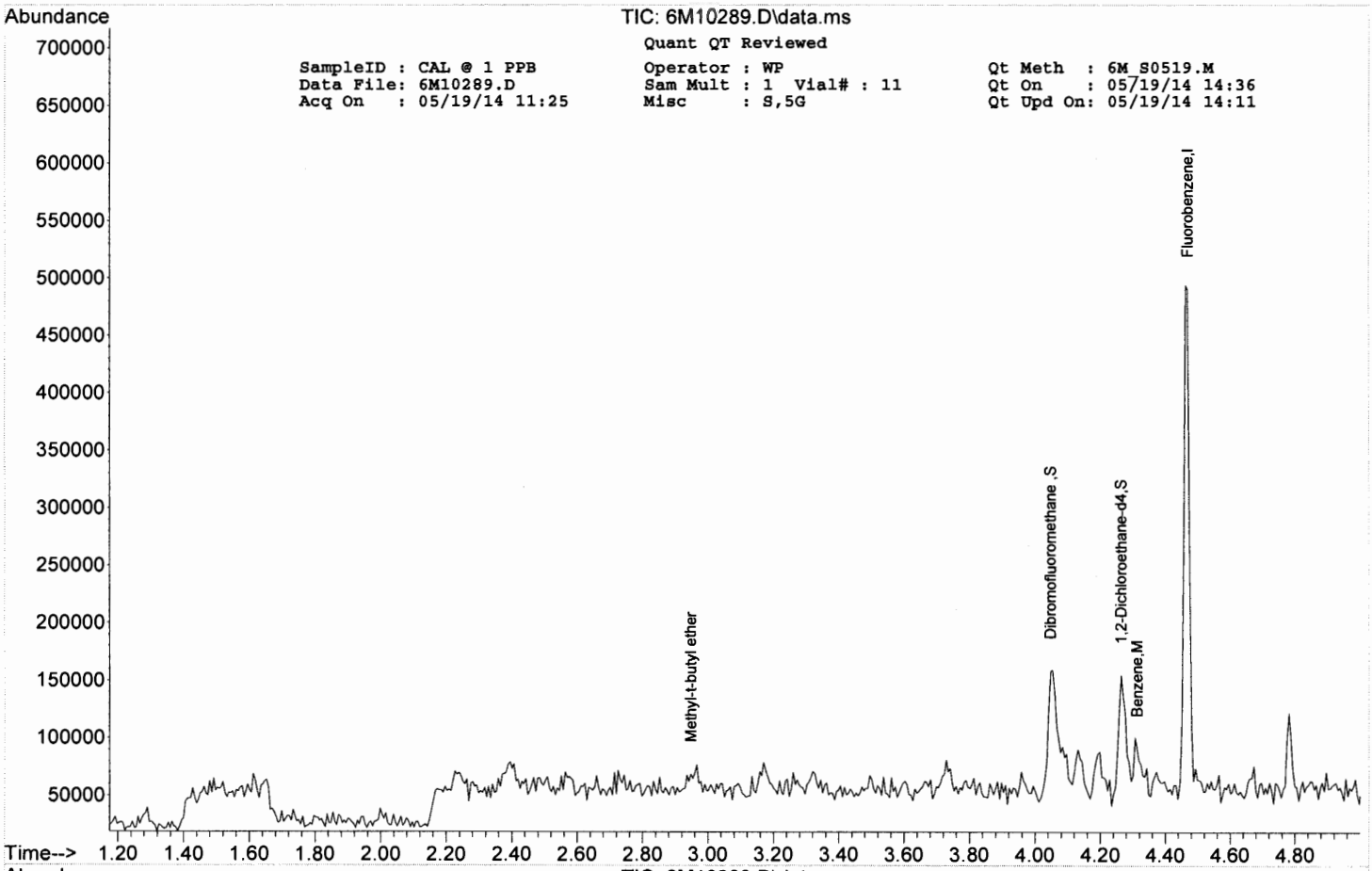
Quantitation Report (QT Reviewed)

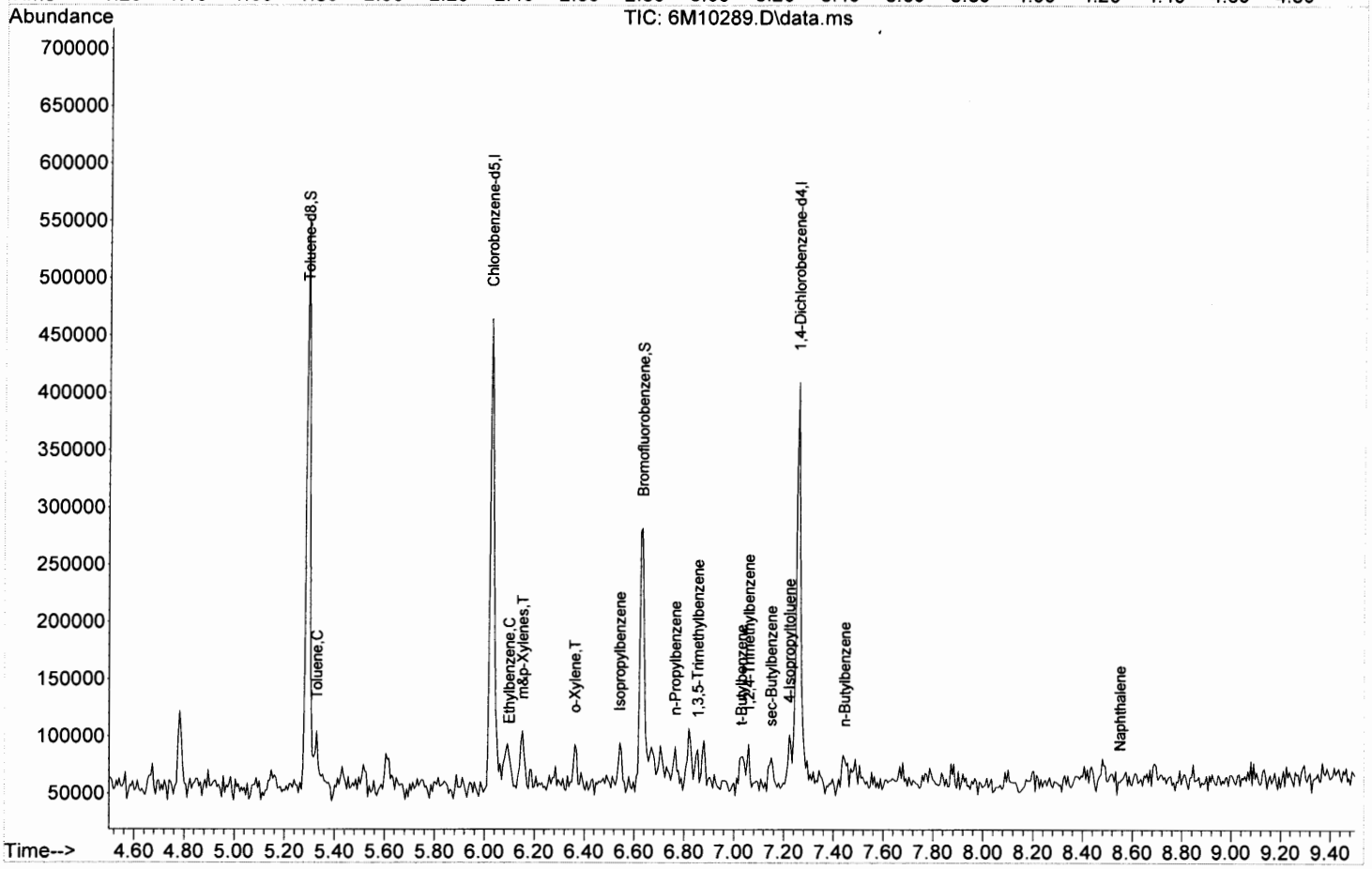
SampleID : CAL @ 1 PPB
Data File: 6M10289.D
Acq On : 05/19/14 11:25
Operator : WP
Sam Mult : 1 Vial# : 11
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:36
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	0.000		0	N.D. d		
69)	Chlorobenzene	0.000		0	N.D. d		
71)	n-Butyl acrylate	0.000		0	N.D. d		
72)	n-Amyl acetate	0.000		0	N.D. d		
73)	Bromoform	0.000		0	N.D. d		
74)	Ethylbenzene	6.098	106	4169m	1.3434	ug/l	
75)	1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
77)	Styrene	0.000		0	N.D. d		
78)	m&p-Xylenes	6.152	106	7674m	1.8412	ug/l	
79)	o-Xylene	6.362	106	4577	1.3566	ug/l	74
80)	trans-1,4-Dichloro-2-b...	0.000		0	N.D. d		
81)	1,3-Dichlorobenzene	0.000		0	N.D. d		
82)	1,4-Dichlorobenzene	0.000		0	N.D. d		
83)	1,2-Dichlorobenzene	0.000		0	N.D. d		
84)	Isopropylbenzene	6.543	105	10540	1.0347	ug/l	86
85)	Cyclohexanone	0.000		0	N.D. d		
86)	Camphene	0.000		0	N.D. d		
87)	1,2,3-Trichloropropane	0.000		0	N.D. d		
88)	2-Chlorotoluene	0.000		0	N.D. d		
89)	p-Ethyltoluene	0.000		0	N.D. d		
90)	4-Chlorotoluene	0.000		0	N.D. d		
91)	n-Propylbenzene	6.765	91	14847	1.0748	ug/l	92
92)	Bromobenzene	0.000		0	N.D. d		
93)	1,3,5-Trimethylbenzene	6.855	105	9364m	1.1474	ug/l	
94)	Butyl methacrylate	0.000		0	N.D. d		
95)	t-Butylbenzene	7.030	119	10967	1.4095	ug/l	74
96)	1,2,4-Trimethylbenzene	7.060	105	8412m	1.1560	ug/l	
97)	sec-Butylbenzene	7.150	105	12637m	1.1328	ug/l	
98)	4-Isopropyltoluene	7.222	119	6703m	0.8778	ug/l	
99)	n-Butylbenzene	7.444	91	8480	0.8132	ug/l	84
100)	p-Diethylbenzene	0.000		0	N.D. d		
101)	1,2,4,5-Tetramethylben...	0.000		0	N.D. d		
102)	1,2-Dibromo-3-Chloropr...	0.000		0	N.D. d		
103)	Camphor	0.000		0	N.D. d		
104)	Hexachlorobutadiene	0.000		0	N.D. d		
105)	1,2,4-Trichlorobenzene	0.000		0	N.D. d		
106)	1,2,3-Trichlorobenzene	0.000		0	N.D. d		
107)	Naphthalene	8.550	128	2240	1.3264	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10289.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 1 PPB
Data File: 6M10289.D
Acq On : 05/19/14 11:25
Operator : WP
Sam Mult : 1 Vial# : 11
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:36
Qt Upd On: 05/19/14 14:11
Methyl-t-butyl ether
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Benzene,M
Fluorobenzene,I
Time-->


Abundance
TIC: 6M10289.D\data.ms
Toluene-d8,S
Toluene,C
Chlorobenzene-d5,I
Ethylbenzene,C
m&p-Xylenes,T
o-Xylene,T
Isopropylbenzene
Bromofluorobenzene,S
n-Propylbenzene
1,3,5-Trimethylbenzene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
4-Isopropyltoluene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
Naphthalene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB
Data File: 6M10288.D
Acq On : 05/19/14 11:09

Operator : WP
Sam Mult : 1 Vial# : 10
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:33
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.464	96	209084	30.00 ug/l	-0.02
52) Chlorobenzene-d5	6.027	117	113219	30.00 ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.253	152	54289	30.00 ug/l	-0.02
System Monitoring Compounds					
37) Dibromofluoromethane	4.049	111	56302	29.60 ug/l	-0.02
Spiked Amount 30.000			Recovery = 98.67%		
39) 1,2-Dichloroethane-d4	4.266	67	23191	25.83 ug/l	-0.02
Spiked Amount 30.000			Recovery = 86.10%		
66) Toluene-d8	5.288	98	180973	30.50 ug/l	-0.02
Spiked Amount 30.000			Recovery = 101.67%		
76) Bromofluorobenzene	6.634	174	44133	34.04 ug/l	-0.01
Spiked Amount 30.000			Recovery = 113.47%		
Target Compounds					Qvalue
5) Chlorodifluoromethane	0.000		0	N.D. d	
6) Dichlorodifluoromethane	0.000		0	N.D. d	
7) Chloromethane	0.000		0	N.D. d	
8) Bromomethane	0.000		0	N.D. d	
9) Vinyl Chloride	0.000		0	N.D. d	
10) Chloroethane	0.000		0	N.D. d	
11) Trichlorofluoromethane	0.000		0	N.D. d	
12) Ethyl ether	0.000		0	N.D. d	
13) Furan	0.000		0	N.D. d	
14) 1,1,2-Trichloro-1,2,2-...	0.000		0	N.D. d	
15) Methylene Chloride	0.000		0	N.D. d	
16) Acrolein	0.000		0	N.D. d	
17) Acrylonitrile	0.000		0	N.D. d	
18) Iodomethane	0.000		0	N.D. d	
19) Acetone	0.000		0	N.D. d	
20) Carbon Disulfide	0.000		0	N.D. d	
21) t-Butyl Alcohol	0.000		0	N.D. d	
22) n-Hexane	0.000		0	N.D. d	
23) Di-isopropyl-ether	0.000		0	N.D. d	
24) 1,1-Dichloroethene	0.000		0	N.D. d	
25) Methyl Acetate	0.000		0	N.D. d	
26) Methyl-t-butyl ether	0.000		0	N.D. d	
27) 1,1-Dichloroethane	0.000		0	N.D. d	
28) trans-1,2-Dichloroethene	0.000		0	N.D. d	
29) Ethyl-t-butyl ether	0.000		0	N.D. d	
30) cis-1,2-Dichloroethene	0.000		0	N.D. d	
31) Bromochloromethane	0.000		0	N.D. d	
32) 2,2-Dichloropropane	0.000		0	N.D. d	
33) Ethyl acetate	0.000		0	N.D. d	
34) 1,4-Dioxane	0.000		0	N.D. d	
35) 1,1-Dichloropropene	0.000		0	N.D. d	
36) Chloroform	0.000		0	N.D. d	
38) Cyclohexane	0.000		0	N.D. d	
40) 1,2-Dichloroethane	0.000		0	N.D. d	
41) 2-Butanone	0.000		0	N.D. d	
42) 1,1,1-Trichloroethane	0.000		0	N.D. d	
43) Carbon Tetrachloride	0.000		0	N.D. d	
44) Vinyl Acetate	0.000		0	N.D. d	
45) Bromodichloromethane	0.000		0	N.D. d	
46) Methylcyclohexane	0.000		0	N.D. d	
47) Dibromomethane	0.000		0	N.D. d	
48) 1,2-Dichloropropane	0.000		0	N.D. d	
49) Trichloroethene	0.000		0	N.D. d	
50) Benzene	0.000		0	N.D. d	
51) tert-Amyl methyl ether	0.000		0	N.D. d	
53) Iso-propylacetate	0.000		0	N.D. d	
54) Methyl methacrylate	0.000		0	N.D. d	
55) Dibromochloromethane	0.000		0	N.D. d	
56) 2-Chloroethylvinylether	0.000		0	N.D. d	
57) cis-1,3-Dichloropropene	0.000		0	N.D. d	
58) trans-1,3-Dichloropropene	0.000		0	N.D. d	
59) Ethyl methacrylate	0.000		0	N.D. d	
60) 1,1,2-Trichloroethane	0.000		0	N.D. d	
61) 1,2-Dibromoethane	0.000		0	N.D. d	
62) 1,3-Dichloropropane	0.000		0	N.D. d	
63) 4-Methyl-2-Pentanone	0.000		0	N.D. d	
64) 2-Hexanone	0.000		0	N.D. d	
65) Tetrachloroethene	0.000		0	N.D. d	
67) Toluene	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB
Data File: 6M10288.D
Acq On : 05/19/14 11:09

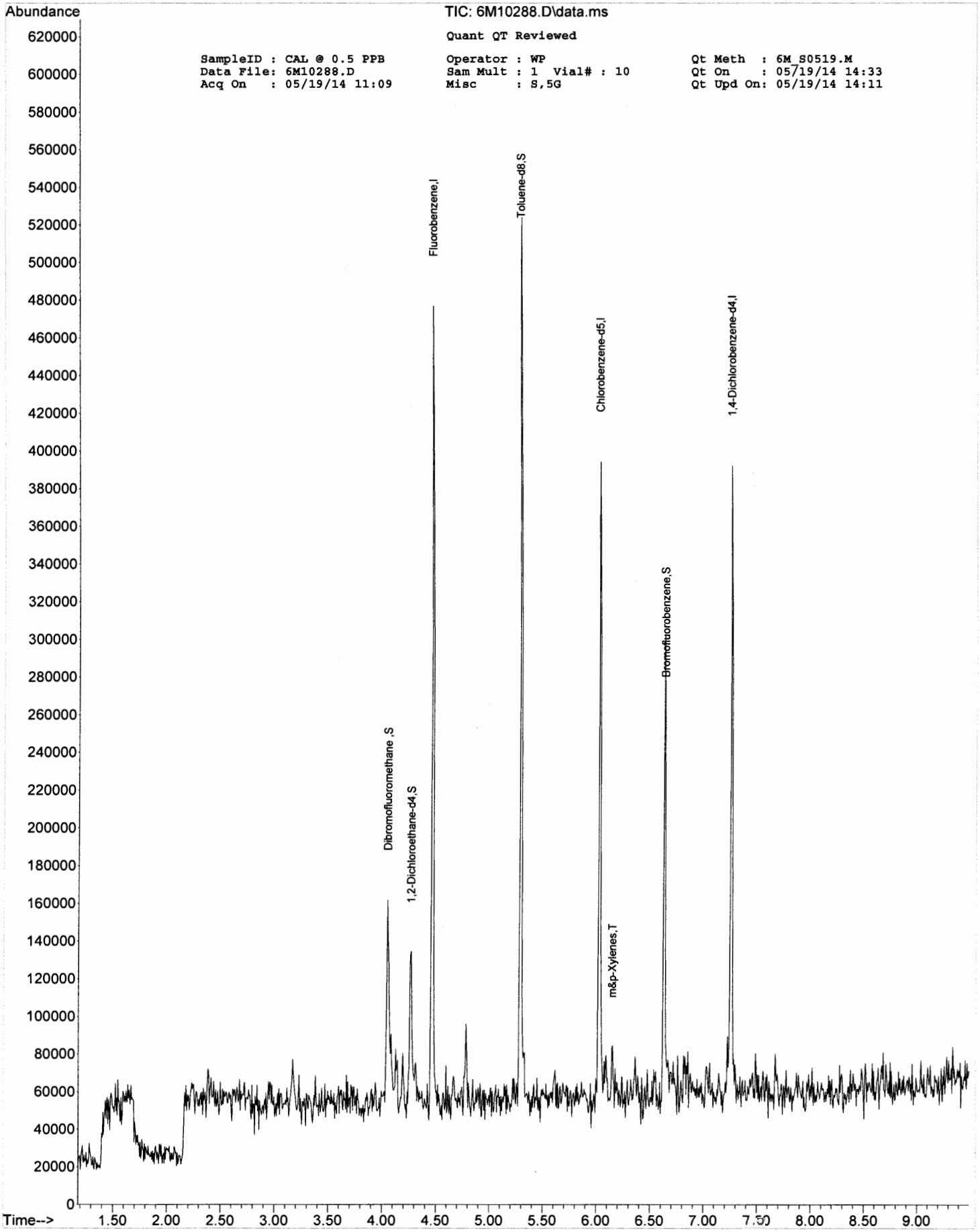
Operator : WP
Sam Mult : 1 Vial# : 10
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:33
Qt Upd On: 05/19/14 14:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	0.000		0	N.D.	d	
69)	Chlorobenzene	0.000		0	N.D.	d	
71)	n-Butyl acrylate	0.000		0	N.D.	d	
72)	n-Amyl acetate	0.000		0	N.D.	d	
73)	Bromoform	0.000		0	N.D.	d	
74)	Ethylbenzene	0.000		0	N.D.	d	
75)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.	d	
77)	Styrene	0.000		0	N.D.	d	
78)	m&p-Xylenes	6.147	106	4460m	1.1325	ug/l	
79)	o-Xylene	0.000		0	N.D.	d	
80)	trans-1,4-Dichloro-2-b...	0.000		0	N.D.	d	
81)	1,3-Dichlorobenzene	0.000		0	N.D.	d	
82)	1,4-Dichlorobenzene	0.000		0	N.D.	d	
83)	1,2-Dichlorobenzene	0.000		0	N.D.	d	
84)	Isopropylbenzene	0.000		0	N.D.	d	
85)	Cyclohexanone	0.000		0	N.D.	d	
86)	Camphene	0.000		0	N.D.	d	
87)	1,2,3-Trichloropropane	0.000		0	N.D.	d	
88)	2-Chlorotoluene	0.000		0	N.D.	d	
89)	p-Ethyltoluene	0.000		0	N.D.	d	
90)	4-Chlorotoluene	0.000		0	N.D.	d	
91)	n-Propylbenzene	0.000		0	N.D.	d	
92)	Bromobenzene	0.000		0	N.D.	d	
93)	1,3,5-Trimethylbenzene	0.000		0	N.D.	d	
94)	Butyl methacrylate	0.000		0	N.D.	d	
95)	t-Butylbenzene	0.000		0	N.D.	d	
96)	1,2,4-Trimethylbenzene	0.000		0	N.D.	d	
97)	sec-Butylbenzene	0.000		0	N.D.	d	
98)	4-Isopropyltoluene	0.000		0	N.D.	d	
99)	n-Butylbenzene	0.000		0	N.D.	d	
100)	p-Diethylbenzene	0.000		0	N.D.	d	
101)	1,2,4,5-Tetramethylben...	0.000		0	N.D.	d	
102)	1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	d	
103)	Camphor	0.000		0	N.D.	d	
104)	Hexachlorobutadiene	0.000		0	N.D.	d	
105)	1,2,4-Trichlorobenzene	0.000		0	N.D.	d	
106)	1,2,3-Trichlorobenzene	0.000		0	N.D.	d	
107)	Naphthalene	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10288.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 0.5 PPB
Data File: 6M10288.D
Acq On : 05/19/14 11:09
Operator : WP
Sam Mult : 1 Vial# : 10
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/19/14 14:33
Qt Upd On: 05/19/14 14:11
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
m&p-Xylenes,T
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

4052101 0379

Form 6
Initial Calibration

Method: EPA 8260C

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M51163.	CAL @ 20 PPB	05/21/14 13:26	2	3M51161.	CAL @ 5 PPB	05/21/14 12:54
3	3M51162.	CAL @ 10 PPB	05/21/14 13:10	4	3M51165.	CAL @ 50 PPB	05/21/14 13:59
5	3M51167.	CAL @ 100 PPB	05/21/14 14:32	6	3M51170.	CAL @ 250 PPB	05/21/14 15:25
7	3M51172.	CAL @ 500 PPB	05/21/14 15:56	8	3M51160.	CAL @ 1 PPB	05/21/14 12:38
9	3M51159.	CAL @ 0.5 PPB	05/21/14 12:22				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd			Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.6904	0.6859	0.6938	0.6219	0.5490	0.4771	0.4129	0.7151	-----	0.606	1.28	0.993	1.00	19	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluoromethan	1	0	Avg	0.2632	0.2923	0.2818	0.2876	0.3070	0.2695	0.2721	0.1681	-----	0.268	1.28	0.999	0.999	16			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.2865	0.3459	0.2680	0.3176	0.3507	0.2804	0.2837	0.3453	-----	0.310	1.39	0.998	0.998	11	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Qua	0.1433	0.1503	0.1567	0.1359	0.1142	0.0867	-----	0.2429	-----	0.147	1.67	0.980	0.999	33	0.10	a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Vinyl Chloride	1	0	Avg	0.2387	0.2414	0.2301	0.2173	0.1900	0.2188	0.2008	0.1795	-----	0.215	1.46	0.998	0.999	11	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1257	0.1245	0.1407	0.1356	0.1118	0.1095	0.0934	0.1445	-----	0.123	1.74	0.993	1.00	14	0.10	a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethane	1	0	Avg	0.2903	0.2037	0.2691	0.2277	0.2040	0.2429	0.2214	0.2992	-----	0.245	1.92	0.997	0.998	15	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.1077	0.1345	0.1048	0.1184	0.1150	0.1076	0.0968	0.1196	-----	0.113	2.11	0.997	1.00	10			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.5428	0.4979	0.4988	0.4613	0.4032	0.3744	0.3788	0.5302	-----	0.461	2.15	0.999	0.999	15			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.1.2-Trichloro-1.2.2-tri	1	0	Avg	0.1822	0.1814	0.1969	0.2120	0.1842	0.1647	0.1490	0.2533	-----	0.191	2.27	0.996	0.999	17	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2928	0.2826	0.2740	0.2816	0.2503	0.2339	0.2122	0.3870	-----	0.277	2.62	0.997	1.00	19	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Qua	0.0310	0.0287	0.0331	0.0367	0.0378	0.0360	0.0347	0.0139	-----	0.0315	2.21	0.999	1.00	24			100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0880	0.0727	0.0825	0.0989	0.0956	0.0865	0.0765	0.1005	-----	0.0877	2.81	0.995	1.00	12			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Avg	0.4255	0.3821	0.3914	0.4564	0.4143	0.3963	0.3521	0.4970	-----	0.414	2.39	0.996	1.00	11			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0797	0.0834	0.0843	0.0978	0.0928	0.0883	0.0794	0.0865	-----	0.0866	2.32	0.997	1.00	7.3	0.10	a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.6661	0.5804	0.6364	0.7040	0.6366	0.6272	0.5606	0.6395	-----	0.631	2.44	0.997	1.00	7.1	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Qua	0.0193	0.0146	0.0135	0.0204	0.0208	0.0223	0.0213	0.0343	-----	0.0209	2.71	0.999	1.00	30			100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.1614	0.1456	0.1698	0.1702	0.1431	0.1562	0.1527	0.1961	-----	0.162	3.01	1.00	1.00	11			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	1.1570	1.2264	1.1387	1.2023	1.0680	0.9975	0.8247	1.1613	-----	1.10	3.17	0.989	1.00	12			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.1-Dichloroethene	1	0	Avg	0.4222	0.3825	0.3786	0.4256	0.3937	0.3559	0.3241	0.4369	-----	0.390	2.28	0.997	1.00	9.8	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.3246	0.3365	0.3241	0.3443	0.3309	0.3317	0.3143	0.3685	-----	0.334	2.54	0.999	1.00	4.9	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.6242	0.6257	0.6378	0.6470	0.5907	0.5258	0.4397	0.6682	0.8491	0.623	2.82	0.990	1.00	18	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1.1-Dichloroethane	1	0	Avg	0.5238	0.4929	0.4793	0.5232	0.4846	0.4732	0.4252	0.6933	-----	0.512	3.14	0.997	1.00	16	0.20		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1.2-Dichloroether	1	0	Avg	0.2354	0.2441	0.2112	0.2313	0.2162	0.1931	0.1475	0.2352	-----	0.214	2.81	0.977	1.00	15	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.3439	0.3281	0.3149	0.3638	0.3394	0.3447	0.3247	0.4003	-----	0.345	3.46	0.999	1.00	7.8			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1.2-Dichloroethene	1	0	Avg	0.4721	0.5278	0.4859	0.5256	0.4759	0.4540	0.3340	0.3769	-----	0.457	3.60	0.972	0.999	15	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.2907	0.3157	0.2865	0.2817	0.2752	0.2788	0.2468	0.3595	-----	0.292	3.79	0.996	1.00	11			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2.2-Dichloropropane	1	0	Avg	0.2761	0.2629	0.2707	0.2850	0.2545	0.2520	0.2201	0.2975	-----	0.265	3.60	0.995	1.00	8.9			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.3074	0.3003	0.2932	0.3415	0.3250	0.3369	0.3220	0.3587	-----	0.323	3.65	0.999	1.00	6.9			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.4-Dioxane	1	0	Avg	0.0025	0.0022	0.0025	0.0030	0.0027	0.0027	0.0023	0.0028	-----	0.00262	4.85	0.993	1.00	11			1000.	250.0	500.0	2500.	5000.	1250	2500	50.00	
1.1-Dichloropropene	1	0	Avg	0.3308	0.3442	0.3257	0.3467	0.3106	0.2798	0.2275	0.3778	-----	0.318	4.09	0.987	1.00	15			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.4685	0.5378	0.4797	0.4732	0.4467	0.4340	0.3956	0.4927	-----	0.466	3.84	0.998	1.00	9.1	0.20		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethane	1	0	Avg	0.3759	0.3861	0.3658	0.3479	0.3661	0.3371	0.3215	0.3706	0.3936	0.363	3.96	-1	-1	6.4			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.3518	0.2785	0.3102	0.3566	0.3240	0.3309	0.2961	0.3543	-----	0.325	4.02	0.997	1.00	8.9	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.2-Dichloroethane-d4	1	0	Avg	0.1920	0.2006	0.2115	0.1996	0.2110	0.2151	0.2084	0.1960	0.2108	0.205	4.19	-1	-1	3.9			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1.2-Dichloroethane	1	0	Avg	0.4345	0.4303	0.3879	0.4264	0.4040	0.3657	0.2968	0.2488	0.4571	0.384	4.24	0.987	1.00	18	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Qua	0.1378	0.1435	0.0723	0.1365	0.1287	0.1292	0.1133	0.0663	-----	0.116	3.62	0.995	1.00	26	0.10	a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.1.1-Trichloroethane	1	0	Avg	0.3910	0.3620	0.4022	0.3743	0.3488	0.3489	0.2948	0.4324	-----	0.369	3.97	0.993	1.00	11	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.3078	0.2711	0.2732	0.2999	0.2804	0.2657	0.2148	0.1536	-----	0.258	4.09	0.987	1.00	20	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.8130	0.7570	0.7071	0.8865	0.8191	0.7963	0.6773	0.5773	-----	0.754	3.17	0.993	1.00	13			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethane	1	0	Avg	0.4113	0.3817	0.3656	0.4070	0.3979	0.3776	0.3247	0.4040	-----	0.384	4.92	0.994	1.00	7.5	0.20		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 14.3
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form 6
Initial Calibration

Method: EPA 8260C

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M51163.	CAL @ 20 PPB	05/21/14 13:26	2	3M51161.	CAL @ 5 PPB	05/21/14 12:54
3	3M51162.	CAL @ 10 PPB	05/21/14 13:10	4	3M51165.	CAL @ 50 PPB	05/21/14 13:59
5	3M51167.	CAL @ 100 PPB	05/21/14 14:32	6	3M51170.	CAL @ 250 PPB	05/21/14 15:25
7	3M51172.	CAL @ 500 PPB	05/21/14 15:56	8	3M51160.	CAL @ 1 PPB	05/21/14 12:38
9	3M51159.	CAL @ 0.5 PPB	05/21/14 12:22				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd			Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2091	0.2046	0.2133	0.2117	0.2080	0.2038	0.1784	0.2126	-----	0.205	4.74	0.995	1.00	5.5	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.2782	0.2764	0.2716	0.2977	0.2709	0.2502	0.2025	0.2010	-----	0.256	4.84	0.987	1.00	14			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.2-Dichloropropane	1	0	Avg	0.3224	0.4025	0.3364	0.3537	0.3167	0.2893	0.2407	0.2853	-----	0.318	4.76	0.990	1.00	15	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.3178	0.2651	0.2759	0.3042	0.2769	0.2611	0.2091	0.3331	-----	0.280	4.63	0.986	1.00	14	0.20		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	1.0535	1.0131	0.9161	1.0087	0.8847	0.7528	0.5777	0.9283	0.9794	0.902	4.23	0.976	1.00	17	0.50		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.7165	0.6652	0.6435	0.7251	0.6845	0.6233	0.5009	0.8049	-----	0.671	4.29	0.985	1.00	13			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.8452	0.6070	0.7424	0.7946	0.8013	0.7536	0.7161	0.5447	-----	0.726	4.26	0.999	1.00	14			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.3688	0.3469	0.3173	0.3664	0.3809	0.3714	0.3467	0.3836	-----	0.360	4.82	0.999	1.00	6.1			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethane	1	0	Avg	0.4017	0.3104	0.3811	0.4047	0.4239	0.3843	0.3500	0.4113	-----	0.383	5.87	0.997	1.00	9.7	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylether	1	0	Avg	0.2036	0.1658	0.2032	0.2330	0.2457	0.2299	0.2231	0.1554	-----	0.208	5.10	0.999	1.00	16			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1.3-Dichloropropene	1	0	Avg	0.4908	0.4065	0.4898	0.5375	0.5500	0.5086	0.4549	0.4782	-----	0.490	5.19	0.996	1.00	9.3	0.20		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1.3-Dichloroprope	1	0	Avg	0.3965	0.3283	0.3668	0.4556	0.4605	0.4573	0.4228	0.3515	-----	0.405	5.51	0.998	1.00	13	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.3891	0.2689	0.3005	0.3874	0.4132	0.4055	0.3732	0.3715	-----	0.364	5.54	0.998	1.00	14			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.1.2-Trichloroethane	1	0	Qua	0.3061	0.3078	0.3400	0.3240	0.3031	0.2796	0.2423	0.4911	-----	0.324	5.63	0.994	1.00	23	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.2-Dibromoethane	1	0	Avg	0.3483	0.3724	0.3097	0.3454	0.3511	0.3297	0.3035	0.2768	-----	0.330	5.95	0.998	1.00	9.4	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.3-Dichloropropane	1	0	Avg	0.5562	0.5606	0.5843	0.5867	0.5575	0.4710	0.3917	0.5953	-----	0.538	5.73	0.988	1.00	13			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.3915	0.3712	0.3733	0.4124	0.4307	0.4215	0.4122	0.4164	-----	0.404	5.27	1.00	1.00	5.5	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.2484	0.2113	0.2240	0.3078	0.2965	0.2987	0.2877	0.2992	-----	0.272	5.76	1.00	1.00	14	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.3127	0.3233	0.3228	0.3053	0.2824	0.2546	0.1987	0.3083	-----	0.289	5.71	0.981	1.00	15	0.20	a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2549	1.2786	1.2587	1.2384	1.3302	1.3086	1.3467	1.3531	1.2886	1.30	5.35	-1	-1	3.2			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.7561	0.7674	0.8363	0.7513	0.7271	0.6074	0.4911	0.9302	-----	0.733	5.39	0.984	1.00	18	0.40		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.1.1.2-Tetrachloroetha	1	0	Avg	0.3467	0.4083	0.3512	0.3730	0.3234	0.2694	0.2112	0.3078	-----	0.324	6.26	0.978	0.999	19			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.8707	0.8851	0.8214	0.8391	0.8183	0.6988	0.5674	1.0405	-----	0.818	6.23	0.985	1.00	17	0.50		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Qua	1.2551	0.8014	0.9833	1.3966	1.2648	1.2828	1.1662	0.7301	-----	1.11	6.52	0.998	1.00	22			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	1.2098	0.9370	1.0197	1.3280	1.2453	1.2430	1.1379	0.9687	-----	1.14	6.66	0.998	1.00	13			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.5649	0.4253	0.5147	0.5933	0.5858	0.6016	0.5726	0.5186	-----	0.547	6.73	0.999	1.00	11	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Qua	0.6109	0.6463	0.6730	0.5176	0.5060	0.3867	0.2802	0.8841	-----	0.563	6.28	0.960	0.999	33	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.1.2.2-Tetrachloroetha	1	0	Avg	0.7412	0.5613	0.7130	0.7145	0.6509	0.6141	0.5170	0.8416	-----	0.669	6.97	0.992	1.00	16	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	0.8531	0.8755	0.9204	0.8613	0.8677	0.9281	1.0480	0.8651	0.8520	0.897	6.91	-1	-1	7.0			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.4859	1.3229	1.4467	1.5052	1.2807	1.0479	0.7641	1.4403	-----	1.29	6.60	0.963	0.999	20	0.30		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Qua	0.8286	0.7477	0.8414	0.7984	0.6605	0.5394	0.3941	0.6809	1.0381	0.726	6.34	0.964	0.999	26	0.10		40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Qua	0.8816	0.8485	0.8843	0.8947	0.7055	0.5767	0.4403	0.8662	-----	0.762	6.58	0.971	0.998	23	0.30		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1.4-Dichloro-2-bu	1	0	Qua	0.1929	0.1028	0.1887	0.1884	0.1715	0.1914	0.1481	0.1176	-----	0.163	7.01	0.983	0.997	22			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.3-Dichlorobenzene	1	0	Qua	1.0610	0.9670	1.1992	1.0473	0.9448	0.8632	0.7052	1.4300	-----	1.03	7.59	0.988	1.00	21	0.60		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.4-Dichlorobenzene	1	0	Avg	1.1358	1.0454	1.0204	1.0907	0.9807	0.9518	0.8036	1.2499	-----	1.03	7.64	0.992	1.00	13	0.50		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.2-Dichlorobenzene	1	0	Avg	1.1382	1.1141	1.1456	1.1036	0.9942	0.9767	0.8293	1.2967	-----	1.07	7.89	0.993	1.00	13	0.40		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	1.8601	1.8332	2.0027	1.8801	1.6136	1.5361	1.2615	1.8464	-----	1.73	6.80	0.989	1.00	14			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Qua	0.0376	0.0118	0.0219	0.0269	0.0252	0.0275	0.0267	-----	-----	0.0254	6.88	0.999	0.999	30			100.0	25.00	50.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	0.4348	0.4321	0.3755	0.3714	0.3711	0.3744	0.3206	0.5783	-----	0.407	6.97	0.994	1.00	19			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.2.3-Trichloropropane	1	0	Avg	0.8225	0.6209	0.8571	0.8370	0.7620	0.6847	0.5627	0.9930	-----	0.768	7.01	0.988	1.00	18			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Qua	1.3971	1.1998	1.3397	1.1989	1.1084	0.8706	0.6170	1.4059	-----	1.14	7.12	0.955	0.999	24			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Avg Rsd: 14.3

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note:
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

4052101 0380

4052101 0381

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M51163.	CAL @ 20 PPB	05/21/14 13:26	2	3M51161.	CAL @ 5 PPB	05/21/14 12:54
3	3M51162.	CAL @ 10 PPB	05/21/14 13:10	4	3M51165.	CAL @ 50 PPB	05/21/14 13:59
5	3M51167.	CAL @ 100 PPB	05/21/14 14:32	6	3M51170.	CAL @ 250 PPB	05/21/14 15:25
7	3M51172.	CAL @ 500 PPB	05/21/14 15:56	8	3M51160.	CAL @ 1 PPB	05/21/14 12:38
9	3M51159.	CAL @ 0.5 PPB	05/21/14 12:22				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	1.7513	1.7095	1.9239	1.8229	1.5464	1.3474	0.9533	1.4589	-----	1.56	7.11	0.960	1.00	20		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.2934	1.1963	1.2111	1.2452	1.0545	0.9531	0.7506	1.1970	-----	1.11	7.18	0.982	1.00	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.0804	1.9864	2.1047	2.0286	1.7994	1.7027	1.4221	2.0769	-----	1.90	7.05	0.991	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.3652	1.4051	1.4484	1.3557	1.3375	1.0871	1.0059	1.5819	-----	1.32	7.02	0.995	0.999	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzene	1	0	Avg	1.4732	1.3817	1.4409	1.3320	1.1838	1.1039	0.9444	1.7303	-----	1.32	7.15	0.993	1.00	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	1.0244	0.8829	0.8954	1.1002	1.0444	0.9844	0.8496	0.6723	-----	0.932	7.17	0.994	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.2770	1.1309	1.3655	1.2844	1.1365	1.0903	0.9557	1.4126	-----	1.21	7.36	0.995	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzene	1	0	Avg	1.5503	1.5324	1.6087	1.5968	1.4126	1.2949	1.0731	1.6794	-----	1.47	7.39	0.989	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.4196	1.3269	1.4155	1.4127	1.2881	1.2674	1.0944	1.2119	-----	1.30	7.49	0.994	1.00	8.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.2020	1.0245	1.1727	1.2006	1.0673	0.9817	0.7997	1.1469	-----	1.07	7.57	0.987	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.3177	1.0546	1.2865	1.2962	1.1880	1.1522	1.0105	1.0212	-----	1.17	7.83	0.995	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.7125	0.7024	0.7771	0.7598	0.6808	0.6489	0.5715	0.6313	-----	0.686	7.82	0.995	1.00	9.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylber	1	0	Avg	1.2454	0.9976	1.2068	1.2163	1.1079	1.0912	0.9619	1.0398	-----	1.11	8.33	0.996	1.00	9.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloropr	1	0	Avg	0.1643	0.1303	0.1095	0.1691	0.1587	0.1697	0.1748	0.1509	-----	0.153	8.39	1.00	1.00	15	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Qua	0.0488	0.0417	0.0501	0.0598	0.0584	0.0562	0.0514	0.0344	0.0100	0.0457	8.87	0.998	1.00	34		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.3536	0.3338	0.3615	0.3135	0.2863	0.2946	0.3064	0.4849	-----	0.342	9.04	0.999	1.00	19		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzene	1	0	Avg	0.5747	0.5892	0.5530	0.6107	0.5630	0.5694	0.5535	0.9171	-----	0.616	8.94	1.00	1.00	20	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzene	1	0	Avg	0.5131	0.5124	0.5534	0.5773	0.5142	0.5263	0.5199	0.7274	-----	0.556	9.28	1.00	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.2249	1.0808	1.1823	1.3322	1.2926	1.2541	1.1812	0.9806	-----	1.19	9.12	0.999	1.00	9.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 14.3
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB
Data File: 3M51163.D
Acq On : 05/21/14 13:26

Operator : WP
Sam Mult : 1 Vial# : 8
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:17
Qt Upd On: 05/21/14 14:38

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.401	96	317086	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.210	117	259333	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.623	152	142022	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.956	111	119214	29.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.77%			
39) 1,2-Dichloroethane-d4	4.191	67	60901	26.84	ug/l	0.00
Spiked Amount 30.000			Recovery = 89.47%			
66) Toluene-d8	5.351	98	325461	29.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.80%			
76) Bromofluorobenzene	6.908	174	121168	23.49	ug/l	0.00
Spiked Amount 30.000			Recovery = 78.30%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.275	51	145953	21.5077	ug/l	71
6) Dichlorodifluoromethane	1.275	85	55655	17.0372	ug/l	89
7) Chloromethane	1.392	50	60565	16.7028	ug/l	75
8) Bromomethane	1.674	94	30305	18.7938	ug/l	99
9) Vinyl Chloride	1.458	62	50479	20.2541	ug/l	97
10) Chloroethane	1.741	64	26583	17.1542	ug/l	80
11) Trichlorofluoromethane	1.924	101	61376	20.8698	ug/l	79
12) Ethyl ether	2.111	59	22769	16.8240	ug/l	78
13) Furan	2.147	39	114743	18.7323	ug/l	76
14) 1,1,2-Trichloro-1,2,2-...	2.267	101	38534	21.3678	ug/l	74
15) Methylene Chloride	2.622	84	61900	22.6324	ug/l	82
16) Acrolein	2.213	56	32858	226.7356	ug/l	95
17) Acrylonitrile	2.808	53	18605m	22.0254	ug/l	
18) Iodomethane	2.393	142	89960	21.7946	ug/l	96
19) Acetone	2.321	43	84242	85.3163	ug/l	97
20) Carbon Disulfide	2.441	76	140808	18.1330	ug/l	100
21) t-Butyl Alcohol	2.712	59	20426	86.4538	ug/l	51
22) n-Hexane	3.013	57	34122	27.1887	ug/l	76
23) Di-isopropyl-ether	3.175	45	244599	20.3090	ug/l	85
24) 1,1-Dichloroethene	2.279	61	89258	21.8055	ug/l	96
25) Methyl Acetate	2.544	43	68627	20.8271	ug/l	100
26) Methyl-t-butyl ether	2.820	73	131968	17.9443	ug/l	69
27) 1,1-Dichloroethane	3.139	63	110739	20.8253	ug/l	92
28) trans-1,2-Dichloroethene	2.814	96	49772	21.4873	ug/l	76
29) Ethyl-t-butyl ether	3.463	59	72698	7.1676	ug/l	95
30) cis-1,2-Dichloroethene	3.596	61	99805	20.6456	ug/l	77
31) Bromochloromethane	3.788	49	61458	19.8562	ug/l	85
32) 2,2-Dichloropropane	3.596	77	58380	21.4660	ug/l	87
33) Ethyl acetate	3.650	43	64981	18.9921	ug/l	93
34) 1,4-Dioxane	4.846	88	26901	963.2449	ug/l	86
35) 1,1-Dichloropropene	4.088	75	69929	18.8546	ug/l	96
36) Chloroform	3.842	83	99043	18.7746	ug/l	78
38) Cyclohexane	4.016	56	74376	20.3586	ug/l	85
40) 1,2-Dichloroethane	4.245	62	91858	19.5218	ug/l	90
41) 2-Butanone	3.620	43	29143	22.7577	ug/l	95
42) 1,1,1-Trichloroethane	3.974	97	82672	18.3366	ug/l	100
43) Carbon Tetrachloride	4.088	117	65082	17.9674	ug/l	93
44) Vinyl Acetate	3.175	43	171877	20.7556	ug/l	100
45) Bromodichloromethane	4.924	83	86964	19.3447	ug/l	91
46) Methylcyclohexane	4.738	83	44215	20.2693	ug/l	92
47) Dibromomethane	4.840	174	58823	16.1767	ug/l	99
48) 1,2-Dichloropropane	4.762	63	68158	20.3170	ug/l	90
49) Trichloroethene	4.630	130	67199	20.6871	ug/l	88
50) Benzene	4.227	78	222707	22.3566	ug/l	100
51) tert-Amyl methyl ether	4.287	73	151480	18.0790	ug/l	75
53) Iso-propylacetate	4.263	43	146137	19.7403	ug/l	91
54) Methyl methacrylate	4.816	41	63768	18.5603	ug/l	97
55) Dibromochloromethane	5.868	129	69461	18.9971	ug/l	100
56) 2-Chloroethylvinylether	5.098	63	35205	18.1917	ug/l	77
57) cis-1,3-Dichloropropene	5.189	75	84858	19.1281	ug/l	98
58) trans-1,3-Dichloropropene	5.513	75	68554	18.9041	ug/l	96
59) Ethyl methacrylate	5.543	41	67274	18.9952	ug/l	92
60) 1,1,2-Trichloroethane	5.627	97	52929	20.1095	ug/l	96
61) 1,2-Dibromoethane	5.946	107	60228	20.9207	ug/l	97
62) 1,3-Dichloropropane	5.730	76	96161	19.9426	ug/l	97
63) 4-Methyl-2-Pentanone	5.273	43	67691	16.3067	ug/l	95
64) 2-Hexanone	5.760	43	42950	18.7175	ug/l	82
65) Tetrachloroethene	5.712	164	54070	18.7896	ug/l	92
67) Toluene	5.387	92	130721	20.3088	ug/l	99

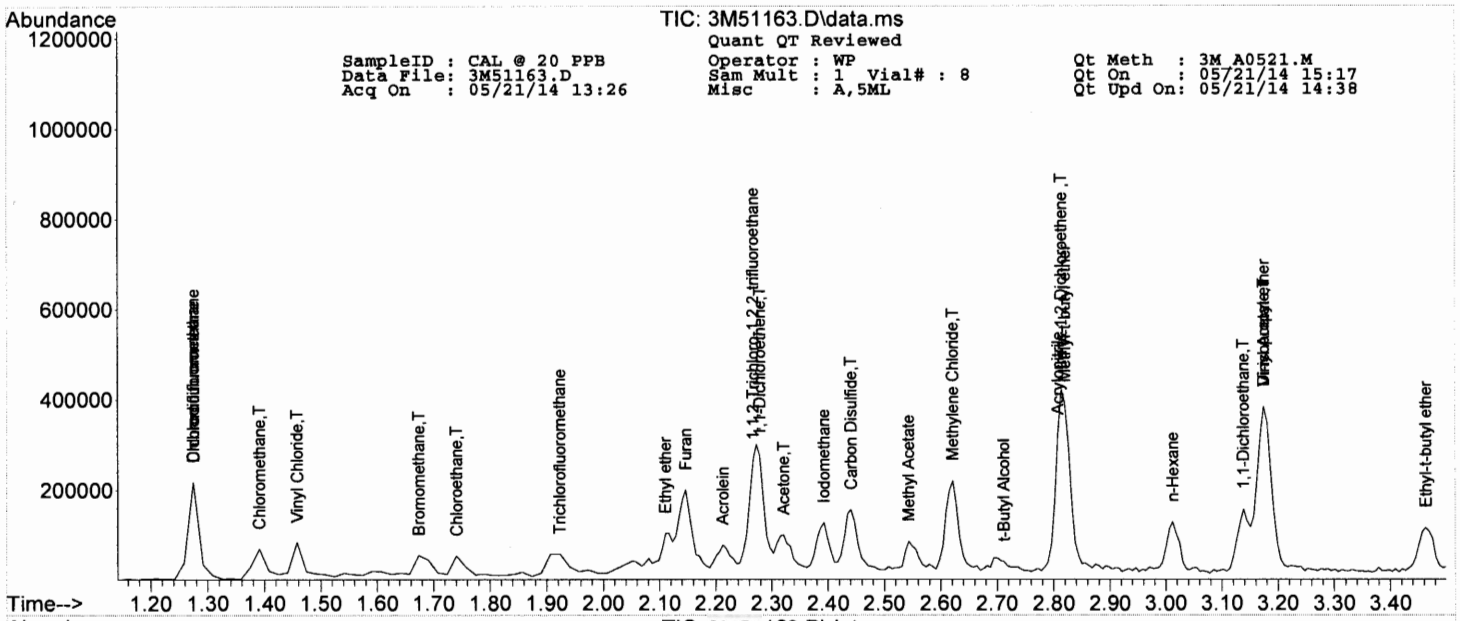
Quantitation Report (QT Reviewed)

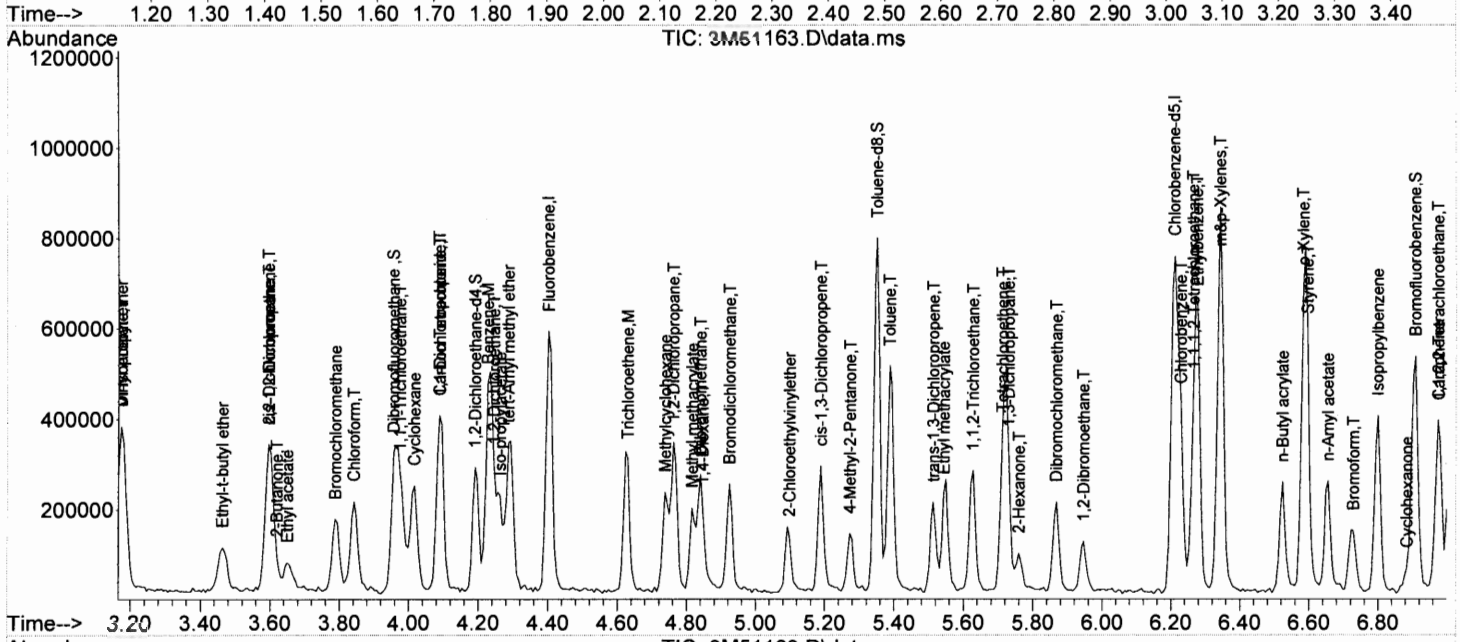
SampleID : CAL @ 20 PPB
Data File: 3M51163.D
Acq On : 05/21/14 13:26
Operator : WP
Sam Mult : 1 Vial# : 8
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:17
Qt Upd On: 05/21/14 14:38

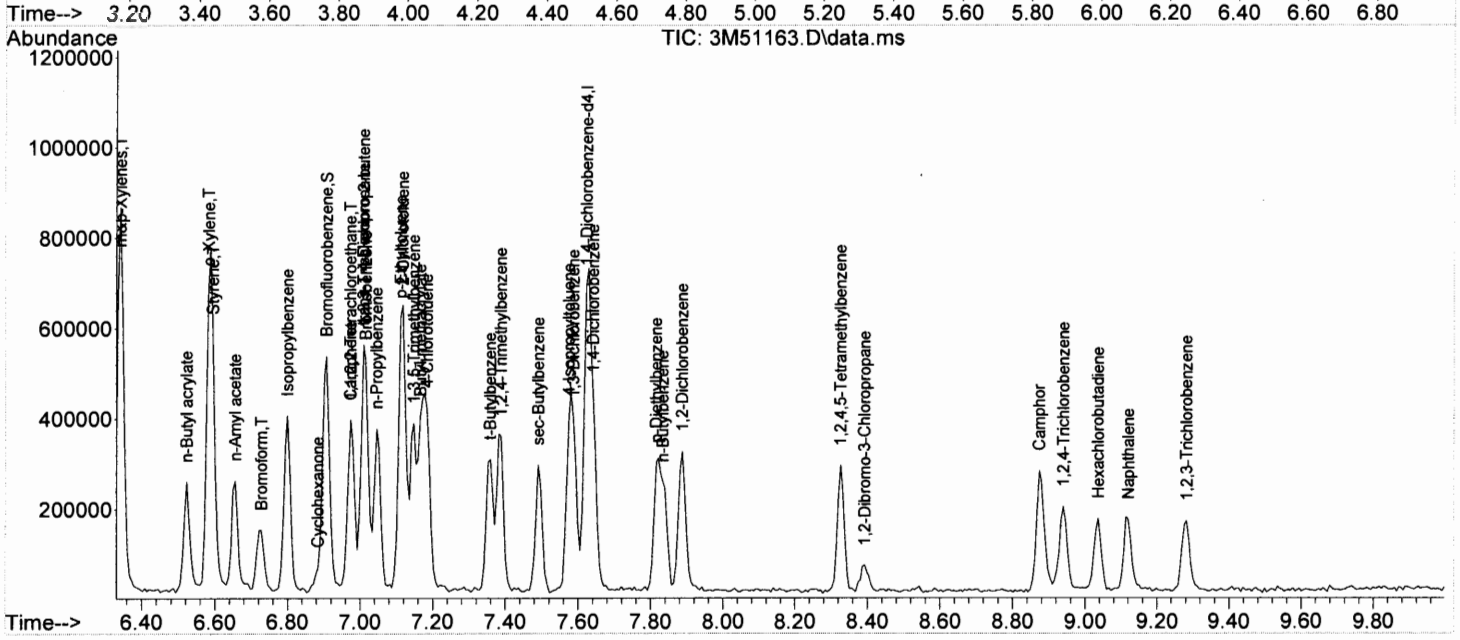
Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.265	133	59950	19.1617	ug/l	80
69)	Chlorobenzene	6.228	112	150539	21.8505	ug/l	100
71)	n-Butyl acrylate	6.523	55	118843	20.6332	ug/l	96
72)	n-Amyl acetate	6.655	43	114548	19.5828	ug/l	89
73)	Bromoform	6.727	173	53494	16.4718	ug/l	94
74)	Ethylbenzene	6.277	106	57848	23.7563	ug/l	81
75)	1,1,2,2-Tetrachloroethane	6.974	83	70180	27.1277	ug/l	94
77)	Styrene	6.595	104	140690	24.7351	ug/l	93
78)	m&p-Xylenes	6.343	106	156912	50.4216	ug/l	79
79)	o-Xylene	6.583	106	83471	24.3680	ug/l	79
80)	trans-1,4-Dichloro-2-b...	7.010	53	18268m	28.1519	ug/l	
81)	1,3-Dichlorobenzene	7.587	146	100463	22.3132	ug/l	86
82)	1,4-Dichlorobenzene	7.641	146	107542	22.6051	ug/l	90
83)	1,2-Dichlorobenzene	7.888	146	107774	22.5275	ug/l	90
84)	Isopropylbenzene	6.800	105	176118	22.9153	ug/l	93
85)	Cyclohexanone	6.884	55	17819	123.6071	ug/l	74
86)	Camphene	6.974	93	41168	20.1048	ug/l	100
87)	1,2,3-Trichloropropane	7.010	75	77875	23.2525	ug/l	93
88)	2-Chlorotoluene	7.118	91	132288	26.0869	ug/l	91
89)	p-Ethyltoluene	7.112	105	165820	22.7571	ug/l	82
90)	4-Chlorotoluene	7.184	91	122464	23.9892	ug/l	91
91)	n-Propylbenzene	7.046	91	196982	23.4155	ug/l	96
92)	Bromobenzene	7.016	77	129266	22.0197	ug/l	85
93)	1,3,5-Trimethylbenzene	7.148	105	139489	22.9643	ug/l	88
94)	Butyl methacrylate	7.166	41	96999	20.9254	ug/l	80
95)	t-Butylbenzene	7.359	119	120913	22.2760	ug/l	83
96)	1,2,4-Trimethylbenzene	7.389	105	146790	21.9604	ug/l	87
97)	sec-Butylbenzene	7.491	105	134417	22.1237	ug/l	98
98)	4-Isopropyltoluene	7.575	119	113814	21.9588	ug/l	89
99)	n-Butylbenzene	7.833	91	124769	22.0699	ug/l	90
100)	p-Diethylbenzene	7.815	119	67467	19.3269	ug/l	95
101)	1,2,4,5-Tetramethylben...	8.326	119	117920	19.8233	ug/l	90
102)	1,2-Dibromo-3-Chloropr...	8.393	157	15564	19.1135	ug/l	53
103)	Camphor	8.873	95	46228	153.0307	ug/l	98
104)	Hexachlorobutadiene	9.036	225	33480	13.1531	ug/l	96
105)	1,2,4-Trichlorobenzene	8.940	180	54420	16.7817	ug/l	95
106)	1,2,3-Trichlorobenzene	9.282	180	48585	14.9068	ug/l	97
107)	Naphthalene	9.120	128	115981	21.6130	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M51163.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 3M51163.D
Acq On : 05/21/14 13:26
Operator : WP
Sam Mult : 1 Vial# : 8
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:17
Qt Upd On: 05/21/14 14:38
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Time-->


Abundance
TIC: 3M51163.D\data.ms
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Methylcyclohexane
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Styrene,T
Xylene,T
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
Time-->


Abundance
TIC: 3M51163.D\data.ms
m&p-Xylenes,T
n-Butyl acrylate
Styrene,T
Xylene,T
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
n-Propylbenzene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB
Data File: 3M51161.D
Acq On : 05/21/14 12:54

Operator : WP
Sam Mult : 1 Vial# : 6
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:26
Qt Upd On: 05/21/14 14:38

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.401	96	304458	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.205	117	241728	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.623	152	135889	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.956	111	117550	30.12	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.40%			
39) 1,2-Dichloroethane-d4	4.191	67	61103	28.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.47%			
66) Toluene-d8	5.345	98	309091	29.59	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.63%			
76) Bromofluorobenzene	6.908	174	118982	24.11	ug/l	0.00
Spiked Amount 30.000			Recovery = 80.37%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.279	51	34806	5.3418	ug/l	77
6) Dichlorodifluoromethane	1.262	85	14833	4.7290	ug/l	72
7) Chloromethane	1.378	50	17554	5.0419	ug/l	74
8) Bromomethane	1.678	94	7629	4.9274	ug/l	77
9) Vinyl Chloride	1.462	62	12250	5.1190	ug/l	82
10) Chloroethane	1.744	64	6322	4.2488	ug/l	88
11) Trichlorofluoromethane	1.911	101	10341	3.6621	ug/l	93
12) Ethyl ether	2.117	59	6826	5.2529	ug/l	96
13) Furan	2.135	39	25267	4.2960	ug/l	74
14) 1,1,2-Trichloro-1,2,2-...	2.261	101	9209	5.3184	ug/l	83
15) Methylene Chloride	2.616	84	14341	5.4610	ug/l	64
16) Acrolein	2.225	56	7293	52.4124	ug/l	94
17) Acrylonitrile	2.832	53	3691m	4.5508	ug/l	
18) Iodomethane	2.393	142	19389	4.8922	ug/l	82
19) Acetone	2.321	43	21182	22.3419	ug/l	98
20) Carbon Disulfide	2.442	76	29451	3.9500	ug/l	100
21) t-Butyl Alcohol	2.712	59	3705	16.3320	ug/l	61
22) n-Hexane	3.013	57	7392m	6.1343	ug/l	
23) Di-isopropyl-ether	3.169	45	62235	5.3817	ug/l	77
24) 1,1-Dichloroethene	2.279	61	19414	4.9395	ug/l	84
25) Methyl Acetate	2.550	43	17076m	5.3972	ug/l	
26) Methyl-t-butyl ether	2.814	73	31754	4.4968	ug/l	73
27) 1,1-Dichloroethane	3.133	63	25013	4.8990	ug/l	85
28) trans-1,2-Dichloroethene	2.820	96	12389	5.5704	ug/l	81
29) Ethyl-t-butyl ether	3.463	59	16649	1.7096	ug/l	94
30) cis-1,2-Dichloroethene	3.590	61	26783m	5.7701	ug/l	
31) Bromochloromethane	3.788	49	16022	5.3912	ug/l	61
32) 2,2-Dichloropropane	3.602	77	13343	5.1096	ug/l	84
33) Ethyl acetate	3.656	43	15242m	4.6396	ug/l	
34) 1,4-Dioxane	4.846	88	5628	209.8805	ug/l	62
35) 1,1-Dichloropropene	4.089	75	17469	4.9054	ug/l	85
36) Chloroform	3.842	83	27291	5.3879	ug/l	65
38) Cyclohexane	4.010	56	14134	4.0293	ug/l	93
40) 1,2-Dichloroethane	4.245	62	21839	4.8338	ug/l	83
41) 2-Butanone	3.614	43	7286	5.9256	ug/l	58
42) 1,1,1-Trichloroethane	3.974	97	18370	4.2435	ug/l	97
43) Carbon Tetrachloride	4.089	117	13761	3.9566	ug/l	95
44) Vinyl Acetate	3.175	43	38414	4.8312	ug/l	100
45) Bromodichloromethane	4.924	83	19373	4.4882	ug/l	87
46) Methylcyclohexane	4.744	83	10385	4.9582	ug/l	82
47) Dibromomethane	4.840	174	14026	4.0172	ug/l	93
48) 1,2-Dichloropropane	4.768	63	20424	6.3406	ug/l	79
49) Trichloroethene	4.624	130	13456m	4.3142	ug/l	
50) Benzene	4.227	78	51409	5.3748	ug/l	100
51) tert-Amyl methyl ether	4.287	73	33758	4.1961	ug/l	83
53) Iso-propylacetate	4.257	43	24456m	3.5441	ug/l	
54) Methyl methacrylate	4.816	41	13978	4.3647	ug/l	87
55) Dibromochloromethane	5.862	129	12506	3.6694	ug/l	93
56) 2-Chloroethylvinylether	5.098	63	6681	3.7037	ug/l	68
57) cis-1,3-Dichloropropene	5.189	75	16378	3.9607	ug/l	87
58) trans-1,3-Dichloropropene	5.513	75	13227	3.9131	ug/l	89
59) Ethyl methacrylate	5.549	41	10834	3.2818	ug/l	69
60) 1,1,2-Trichloroethane	5.627	97	12404	5.0559	ug/l	79
61) 1,2-Dibromoethane	5.946	107	15006	5.5921	ug/l	97
62) 1,3-Dichloropropane	5.724	76	22589	5.0259	ug/l	96
63) 4-Methyl-2-Pentanone	5.273	43	14958	3.8658	ug/l	80
64) 2-Hexanone	5.766	43	8515m	3.9811	ug/l	
65) Tetrachloroethene	5.712	164	13028	4.8570	ug/l	90
67) Toluene	5.387	92	30918	5.1532	ug/l	90

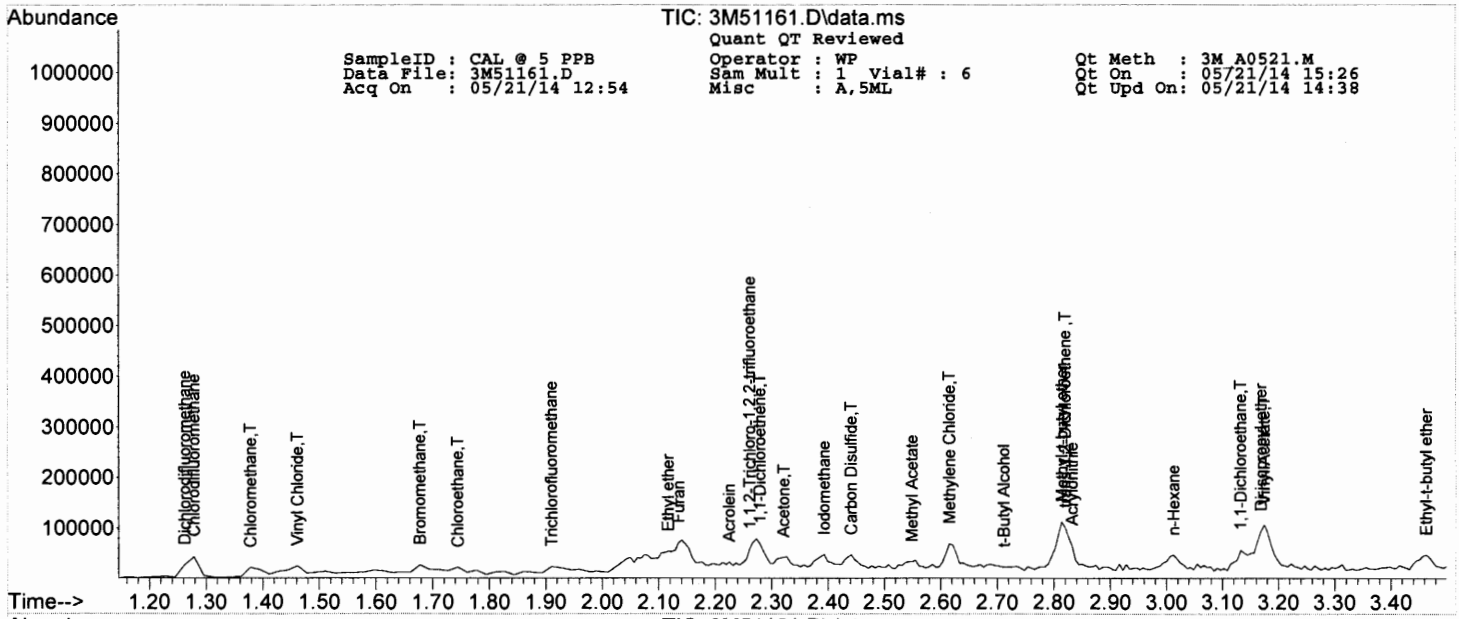
Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB
Data File: 3M51161.D
Acq On : 05/21/14 12:54
Operator : WP
Sam Mult : 1 Vial# : 6
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:26
Qt Upd On: 05/21/14 14:38

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.259	133	16451	5.6412	ug/l	69
69)	Chlorobenzene	6.223	112	35660	5.5530	ug/l	91
71)	n-Butyl acrylate	6.523	55	18151	3.2935	ug/l	91
72)	n-Amyl acetate	6.649	43	21223	3.7920	ug/l	93
73)	Bromoform	6.728	173	9633	3.1001	ug/l	86
74)	Ethylbenzene	6.277	106	14639	6.2831	ug/l	60
75)	1,1,2,2-Tetrachloroethane	6.974	83	12713	5.1359	ug/l	98
77)	Styrene	6.589	104	29962	5.5054	ug/l	96
78)	m&p-Xylenes	6.343	106	33870	11.3749	ug/l	99
79)	o-Xylene	6.583	106	19217	5.8633	ug/l	58
80)	trans-1,4-Dichloro-2-b...	7.010	53	2330m	3.7527	ug/l	
81)	1,3-Dichlorobenzene	7.587	146	21901	5.0838	ug/l	90
82)	1,4-Dichlorobenzene	7.641	146	23678	5.2017	ug/l	94
83)	1,2-Dichlorobenzene	7.888	146	25234	5.5126	ug/l	85
84)	Isopropylbenzene	6.800	105	41520	5.6461	ug/l	97
85)	Cyclohexanone	6.884	55	1346	9.7584	ug/l	99
86)	Camphene	6.974	93	9787	4.9953	ug/l	87
87)	1,2,3-Trichloropropane	7.016	75	14064	4.3889	ug/l	88
88)	2-Chlorotoluene	7.118	91	27175	5.6007	ug/l	85
89)	p-Ethyltoluene	7.112	105	38718	5.5535	ug/l	80
90)	4-Chlorotoluene	7.178	91	27096	5.5473	ug/l	93
91)	n-Propylbenzene	7.046	91	44990	5.5894	ug/l	93
92)	Bromobenzene	7.016	77	31825	5.6659	ug/l	87
93)	1,3,5-Trimethylbenzene	7.142	105	31293	5.3843	ug/l	81
94)	Butyl methacrylate	7.166	41	19996	4.5084	ug/l	77
95)	t-Butylbenzene	7.353	119	25613	4.9317	ug/l	92
96)	1,2,4-Trimethylbenzene	7.389	105	34708	5.4268	ug/l	94
97)	sec-Butylbenzene	7.491	105	30052	5.1695	ug/l	92
98)	4-Isopropyltoluene	7.575	119	23203	4.6787	ug/l	92
99)	n-Butylbenzene	7.834	91	23885	4.4156	ug/l	93
100)	p-Diethylbenzene	7.816	119	15909m	4.7630	ug/l	
101)	1,2,4,5-Tetramethylben...	8.326	119	22595	3.9698	ug/l	81
102)	1,2-Dibromo-3-Chloropr...	8.393	157	2953	3.7901	ug/l	45
103)	Camphor	8.886	95	9452	32.7016	ug/l	89
104)	Hexachlorobutadiene	9.042	225	7560	3.1041	ug/l	89
105)	1,2,4-Trichlorobenzene	8.940	180	13346	4.3013	ug/l	86
106)	1,2,3-Trichlorobenzene	9.276	180	11605	3.7213	ug/l	95
107)	Naphthalene	9.126	128	24480m	4.7677	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed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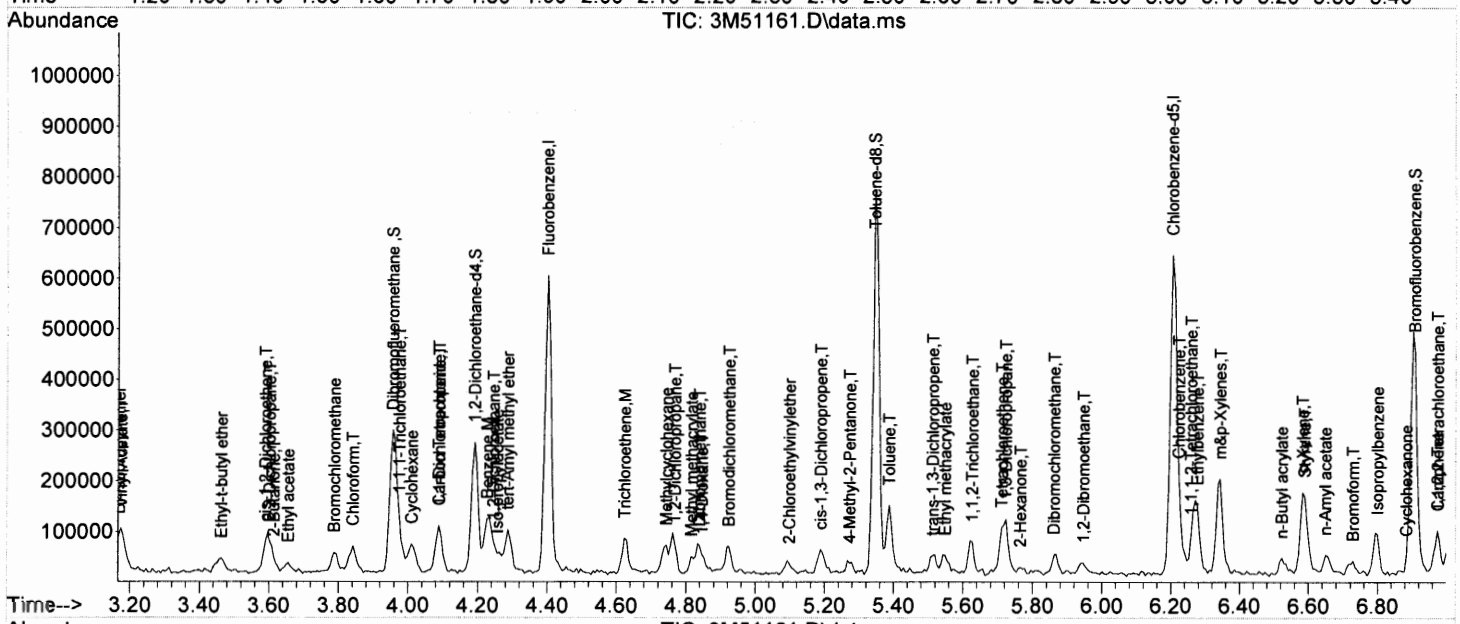
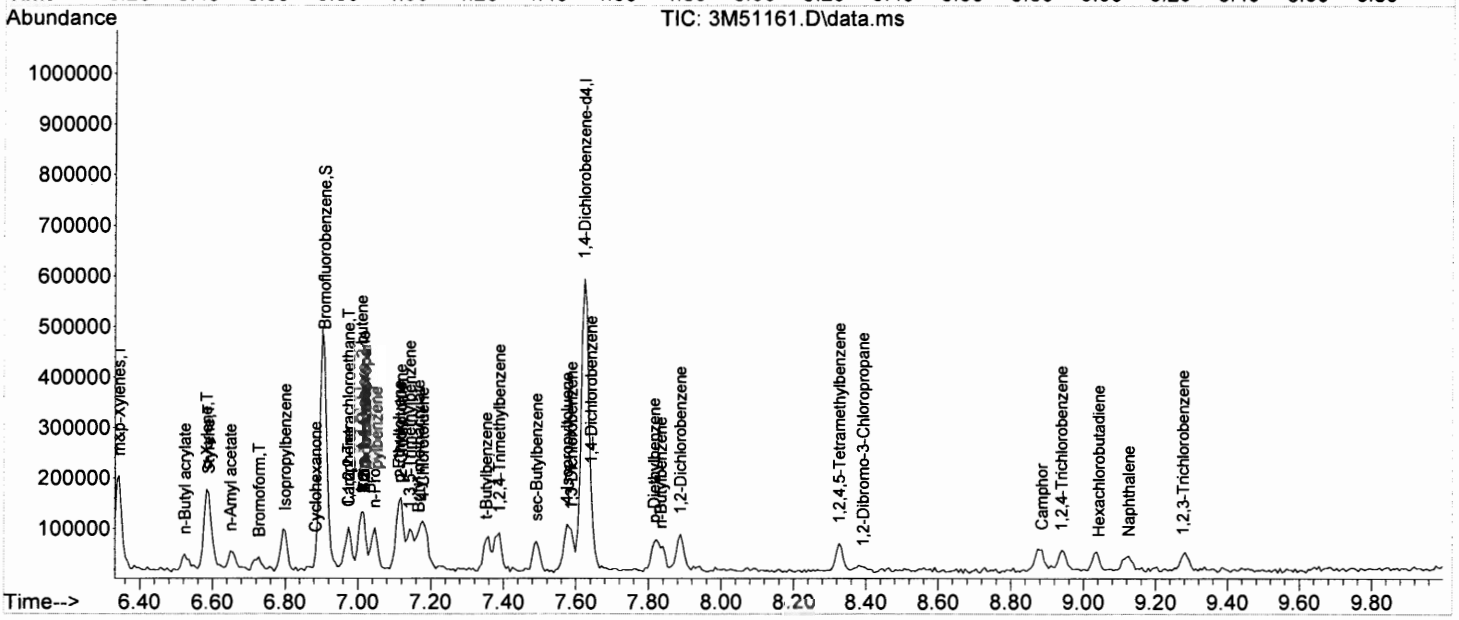
Quant QT Reviewed
SampleID : CAL @ 5 PPB
Data File: 3M51161.D
Acq On : 05/21/14 12:54
Operator : WP
Sam Mult : 1 Vial# : 6
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:26
Qt Upd On: 05/21/14 14:38
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Time-->


Abundance
TIC: 3M51161.D\data.ms
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
Time-->


Abundance
TIC: 3M51161.D\data.ms
m&p-Xylenes,I
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 10 PPB
Data File: 3M51162.D
Acq On : 05/21/14 13:10

Operator : WP
Sam Mult : 1 Vial# : 7
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:18
Qt Upd On: 05/21/14 14:38

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.402	96	315243	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.205	117	245081	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.624	152	131293	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.957	111	115337	28.54	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.13%			
39) 1,2-Dichloroethane-d4	4.192	67	66691	29.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.53%			
66) Toluene-d8	5.346	98	308494	29.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.10%			
76) Bromofluorobenzene	6.903	174	120849	25.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 84.50%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.274	51	72911	10.8070	ug/l	74
6) Dichlorodifluoromethane	1.274	85	29617	9.1194	ug/l	88
7) Chloromethane	1.391	50	28166	7.8131	ug/l	90
8) Bromomethane	1.690	94	16469	10.2731	ug/l	78
9) Vinyl Chloride	1.457	62	24184	9.7603	ug/l	95
10) Chloroethane	1.740	64	14789	9.5992	ug/l	94
11) Trichlorofluoromethane	1.923	101	28281	9.6727	ug/l	96
12) Ethyl ether	2.118	59	11015	8.1865	ug/l	71
13) Furan	2.142	39	52422	8.6081	ug/l	80
14) 1,1,2-Trichloro-1,2,2-...	2.274	101	20692	11.5412	ug/l	89
15) Methylene Chloride	2.617	84	28792	10.5887	ug/l	79
16) Acrolein	2.220	56	17425	120.9436	ug/l	89
17) Acrylonitrile	2.803	53	8677	10.3323	ug/l	70
18) Iodomethane	2.388	142	41130	10.0228	ug/l	90
19) Acetone	2.322	43	44330	45.1578	ug/l	92
20) Carbon Disulfide	2.442	76	66883	8.6634	ug/l	100
21) t-Butyl Alcohol	2.707	59	7096	30.2097	ug/l	78
22) n-Hexane	3.013	57	17843m	14.3006	ug/l	
23) Di-isopropyl-ether	3.170	45	119663	9.9937	ug/l	83
24) 1,1-Dichloroethene	2.274	61	39793	9.7782	ug/l	92
25) Methyl Acetate	2.545	43	34058	10.3964	ug/l	100
26) Methyl-t-butyl ether	2.815	73	67028	9.1674	ug/l	69
27) 1,1-Dichloroethane	3.134	63	50374	9.5286	ug/l	86
28) trans-1,2-Dichloroethene	2.815	96	22199	9.6397	ug/l	93
29) Ethyl-t-butyl ether	3.458	59	33094	3.2819	ug/l	99
30) cis-1,2-Dichloroethene	3.597	61	51065	10.6250	ug/l	91
31) Bromochloromethane	3.795	49	30111	9.7853	ug/l	66
32) 2,2-Dichloropropane	3.591	77	28453	10.5232	ug/l	88
33) Ethyl acetate	3.651	43	30818	9.0599	ug/l	99
34) 1,4-Dioxane	4.847	88	13229	476.4606	ug/l	84
35) 1,1-Dichloropropene	4.083	75	34226	9.2821	ug/l	92
36) Chloroform	3.837	83	50416	9.6127	ug/l	84
38) Cyclohexane	4.011	56	32600	8.9756	ug/l	87
40) 1,2-Dichloroethane	4.240	62	40763	8.7136	ug/l	93
41) 2-Butanone	3.609	43	7603	5.9719	ug/l	100
42) 1,1,1-Trichloroethane	3.975	97	42265	9.4292	ug/l	98
43) Carbon Tetrachloride	4.089	117	28713	7.9732	ug/l	90
44) Vinyl Acetate	3.170	43	74309	9.0259	ug/l	100
45) Bromodichloromethane	4.919	83	38420	8.5963	ug/l	81
46) Methylcyclohexane	4.739	83	22418	10.3371	ug/l	95
47) Dibromomethane	4.835	174	28545	7.8960	ug/l	88
48) 1,2-Dichloropropane	4.763	63	35350	10.5990	ug/l	87
49) Trichloroethene	4.624	130	28993	8.9776	ug/l	75
50) Benzene	4.228	78	96273	9.7209	ug/l	100
51) tert-Amyl methyl ether	4.288	73	67626	8.1183	ug/l	90
53) Iso-propylacetate	4.258	43	60653m	8.6695	ug/l	
54) Methyl methacrylate	4.811	41	25921	7.9833	ug/l	86
55) Dibromochloromethane	5.863	129	31137	9.0110	ug/l	93
56) 2-Chloroethylvinylether	5.093	63	16602	9.0777	ug/l	79
57) cis-1,3-Dichloropropene	5.183	75	40021	9.5458	ug/l	92
58) trans-1,3-Dichloropropene	5.514	75	29970	8.7450	ug/l	87
59) Ethyl methacrylate	5.550	41	24553	7.3358	ug/l	89
60) 1,1,2-Trichloroethane	5.622	97	27777	11.1671	ug/l	91
61) 1,2-Dibromoethane	5.947	107	25302	9.3000	ug/l	94
62) 1,3-Dichloropropane	5.724	76	47738	10.4760	ug/l	90
63) 4-Methyl-2-Pentanone	5.268	43	30502	7.7752	ug/l	91
64) 2-Hexanone	5.761	43	18300	8.4389	ug/l	96
65) Tetrachloroethene	5.712	164	26375	9.6984	ug/l	84
67) Toluene	5.388	92	68326	11.2324	ug/l	100

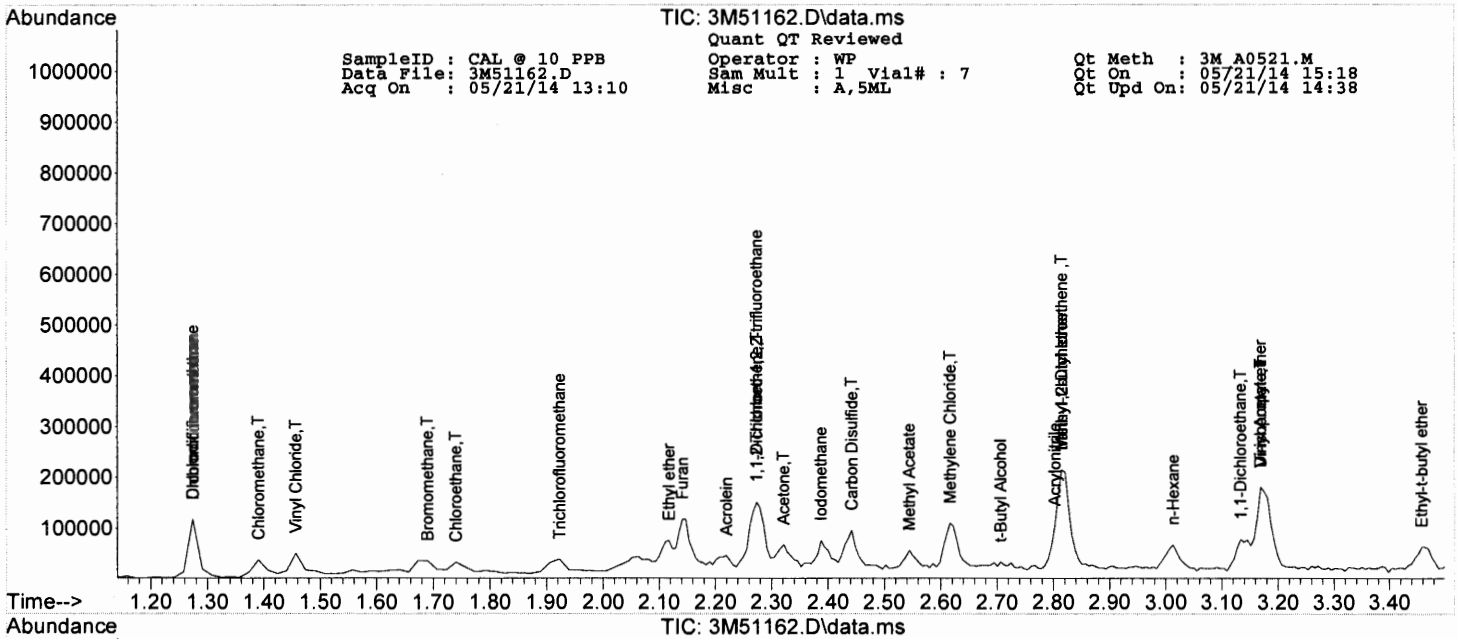
Quantitation Report (QT Reviewed)

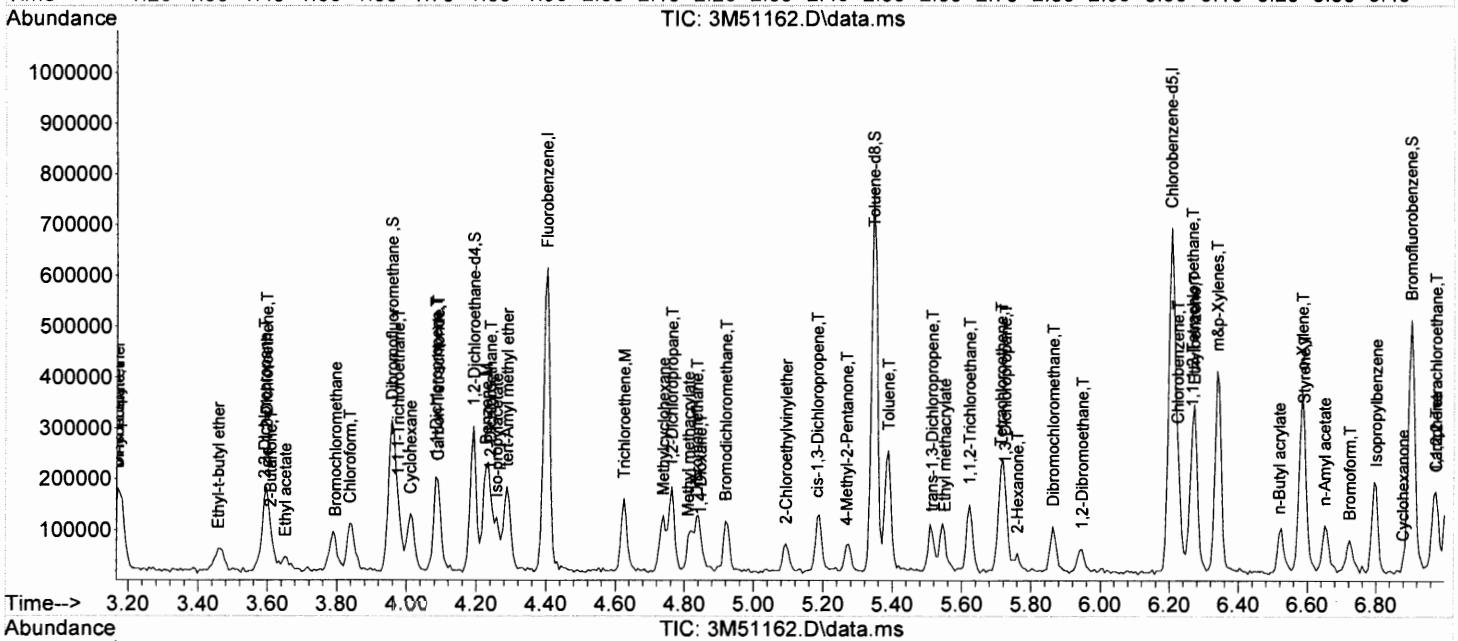
SampleID : CAL @ 10 PPB
Data File: 3M51162.D
Acq On : 05/21/14 13:10
Operator : WP
Sam Mult : 1 Vial# : 7
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:18
Qt Upd On: 05/21/14 14:38

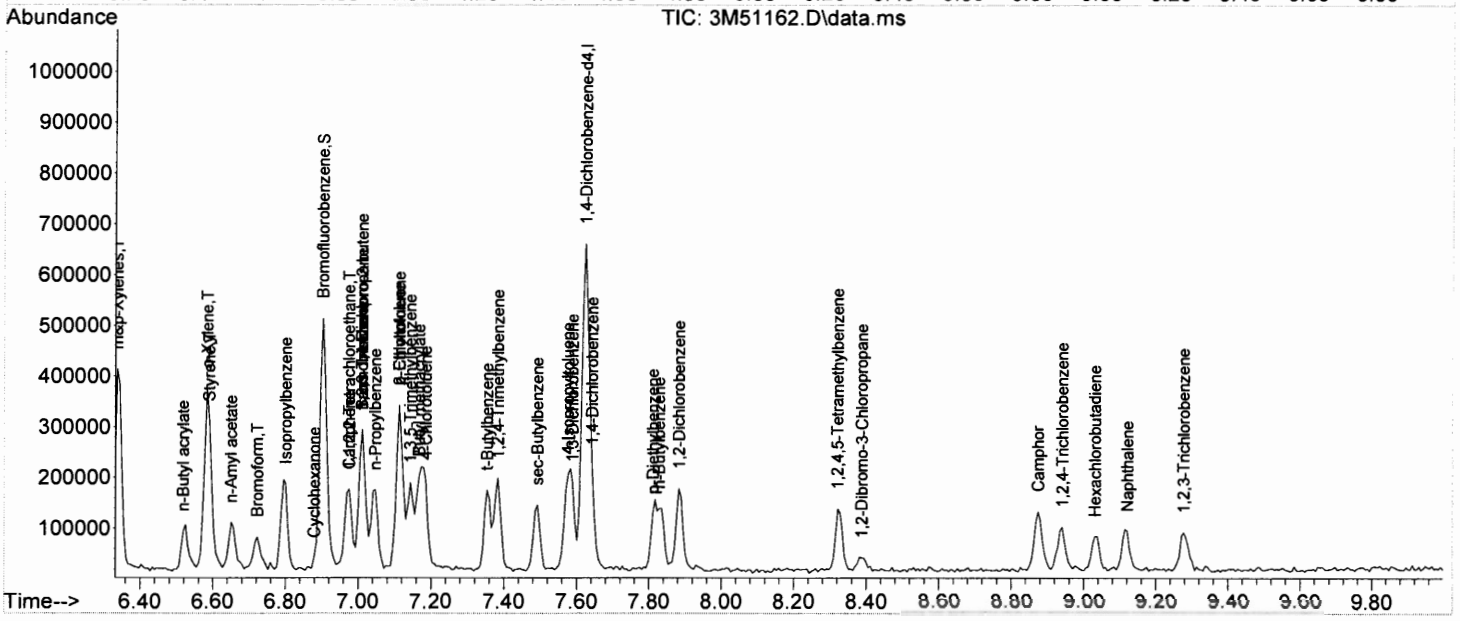
Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.265	133	28698	9.7061	ug/l	94
69)	Chlorobenzene	6.223	112	67106	10.3068	ug/l	99
71)	n-Butyl acrylate	6.518	55	43036	8.0824	ug/l	97
72)	n-Amyl acetate	6.650	43	44627	8.2528	ug/l	91
73)	Bromoform	6.722	173	22527	7.5033	ug/l	94
74)	Ethylbenzene	6.271	106	29456	13.0851	ug/l	65
75)	1,1,2,2-Tetrachloroethane	6.975	83	31207	13.0487	ug/l	94
77)	Styrene	6.590	104	63317	12.0416	ug/l	93
78)	m&p-Xylenes	6.338	106	73651	25.6008	ug/l	74
79)	o-Xylene	6.584	106	38701	12.2214	ug/l	86
80)	trans-1,4-Dichloro-2-b...	7.011	53	8262m	13.7726	ug/l	
81)	1,3-Dichlorobenzene	7.588	146	52485	12.6097	ug/l	82
82)	1,4-Dichlorobenzene	7.642	146	44659	10.1543	ug/l	93
83)	1,2-Dichlorobenzene	7.882	146	50139	11.3368	ug/l	89
84)	Isopropylbenzene	6.800	105	87648	12.3361	ug/l	94
85)	Cyclohexanone	6.879	55	4801	36.0252	ug/l	81
86)	Camphene	6.975	93	16436	8.6826	ug/l	88
87)	1,2,3-Trichloropropane	7.011	75	37514	12.1165	ug/l	97
88)	2-Chlorotoluene	7.113	91	58632	12.5070	ug/l	92
89)	p-Ethyltoluene	7.113	105	84199	12.4997	ug/l	79
90)	4-Chlorotoluene	7.185	91	53007	11.2319	ug/l	91
91)	n-Propylbenzene	7.047	91	92111	11.8441	ug/l	97
92)	Bromobenzene	7.011	77	63391	11.6807	ug/l	85
93)	1,3,5-Trimethylbenzene	7.143	105	63061	11.2302	ug/l	88
94)	Butyl methacrylate	7.167	41	39187	9.1446	ug/l	94
95)	t-Butylbenzene	7.353	119	59763	11.9100	ug/l	85
96)	1,2,4-Trimethylbenzene	7.384	105	70404	11.3934	ug/l	87
97)	sec-Butylbenzene	7.492	105	61949	11.0294	ug/l	96
98)	4-Isopropyltoluene	7.576	119	51324	10.7114	ug/l	94
99)	n-Butylbenzene	7.828	91	56304	10.7732	ug/l	90
100)	p-Diethylbenzene	7.810	119	34012m	10.5394	ug/l	
101)	1,2,4,5-Tetramethylben...	8.321	119	52815	9.6042	ug/l	90
102)	1,2-Dibromo-3-Chloropr...	8.387	157	4794	6.3684	ug/l	73
103)	Camphor	8.874	95	21954	78.6142	ug/l	96
104)	Hexachlorobutadiene	9.031	225	15821	6.7234	ug/l	85
105)	1,2,4-Trichlorobenzene	8.940	180	24202	8.0732	ug/l	93
106)	1,2,3-Trichlorobenzene	9.277	180	24222	8.0391	ug/l	89
107)	Naphthalene	9.121	128	51744	10.4304	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M51162.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 10 PPB
Data File: 3M51162.D
Acq On : 05/21/14 13:10
Operator : WP
Sam Mult : 1 Vial# : 7
Misc : A,5ML
Qt Meth : 3M A0521.M
Qt On : 05/21/14 15:18
Qt Upd On: 05/21/14 14:38
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Time-->


Abundance
TIC: 3M51162.D\data.ms
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
ter-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Styrene,T
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
Time-->


Abundance
TIC: 3M51162.D\data.ms
n-Butyl acrylate
Styrene,T
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB
Data File: 3M51165.D
Acq On : 05/21/14 13:59

Operator : WP
Sam Mult : 1 Vial# : 10
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/21/14 14:38
Qt Upd On: 05/21/14 14:38

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.401	96	311847	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.205	117	257742	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.623	152	142166	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.956	111	108512	27.14	ug/l	0.00
Spiked Amount 30.000			Recovery = 90.47%			
39) 1,2-Dichloroethane-d4	4.191	67	62248	27.89	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.97%			
66) Toluene-d8	5.345	98	319194	28.66	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.53%			
76) Bromofluorobenzene	6.902	174	122450	23.72	ug/l	0.00
Spiked Amount 30.000			Recovery = 79.07%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.277	51	323271	48.4377	ug/l	82
6) Dichlorodifluoromethane	1.260	85	149514	46.5385	ug/l	87
7) Chloromethane	1.376	50	165079	46.2909	ug/l	76
8) Bromomethane	1.676	94	70670	44.5627	ug/l	90
9) Vinyl Chloride	1.460	62	112981	46.0939	ug/l	97
10) Chloroethane	1.742	64	70502	46.2597	ug/l	91
11) Trichlorofluoromethane	1.908	101	118372	40.9264	ug/l	85
12) Ethyl ether	2.111	59	61536	46.2327	ug/l	99
13) Furan	2.141	39	239780	39.8027	ug/l	84
14) 1,1,2-Trichloro-1,2,2-...	2.267	101	110205	62.1374	ug/l	95
15) Methylene Chloride	2.616	84	146387	54.4225	ug/l	84
16) Acrolein	2.213	56	95514	670.1639	ug/l	96
17) Acrylonitrile	2.802	53	51412	61.8863	ug/l	74
18) Iodomethane	2.387	142	237212	58.4347	ug/l	92
19) Acetone	2.321	43	254349	261.9200	ug/l	97
20) Carbon Disulfide	2.436	76	365940	47.9168	ug/l	100
21) t-Butyl Alcohol	2.700	59	53144	228.7127	ug/l	88
22) n-Hexane	3.013	57	88481m	71.6868	ug/l	
23) Di-isopropyl-ether	3.175	45	624891	52.7561	ug/l	85
24) 1,1-Dichloroethene	2.273	61	221248	54.9583	ug/l	96
25) Methyl Acetate	2.544	43	178991	55.2333	ug/l	100
26) Methyl-t-butyl ether	2.814	73	336304	46.4970	ug/l	68
27) 1,1-Dichloroethane	3.133	63	271977	52.0067	ug/l	95
28) trans-1,2-Dichloroethene	2.820	96	120242	52.7824	ug/l	91
29) Ethyl-t-butyl ether	3.463	59	189082	18.9555	ug/l	96
30) cis-1,2-Dichloroethene	3.596	61	273194m	57.4620	ug/l	
31) Bromochloromethane	3.788	49	146444	48.1089	ug/l	81
32) 2,2-Dichloropropane	3.596	77	148148	55.3883	ug/l	92
33) Ethyl acetate	3.650	43	177534	52.7599	ug/l	96
34) 1,4-Dioxane	4.840	88	79957m	2911.1213	ug/l	
35) 1,1-Dichloropropene	4.089	75	180221	49.4084	ug/l	98
36) Chloroform	3.842	83	245983	47.4119	ug/l	93
38) Cyclohexane	4.010	56	185340	51.5846	ug/l	86
40) 1,2-Dichloroethane	4.239	62	221643	47.8952	ug/l	98
41) 2-Butanone	3.608	43	70966	56.3482	ug/l	83
42) 1,1,1-Trichloroethane	3.974	97	194572	43.8810	ug/l	89
43) Carbon Tetrachloride	4.089	117	155903	43.7637	ug/l	97
44) Vinyl Acetate	3.175	43	460802	56.5807	ug/l	100
45) Bromodichloromethane	4.918	83	211539	47.8463	ug/l	96
46) Methylcyclohexane	4.738	83	110071	51.3071	ug/l	93
47) Dibromomethane	4.834	174	154756	43.2740	ug/l	93
48) 1,2-Dichloropropane	4.762	63	183832	55.7184	ug/l	94
49) Trichloroethene	4.624	130	158140	49.5010	ug/l	77
50) Benzene	4.227	78	524290	53.5155	ug/l	100
51) tert-Amyl methyl ether	4.287	73	376916	45.7404	ug/l	82
53) Iso-propylacetate	4.257	43	341343	46.3935	ug/l	81
54) Methyl methacrylate	4.810	41	157400	46.0957	ug/l	97
55) Dibromochloromethane	5.862	129	173869	47.8455	ug/l	94
56) 2-Chloroethylvinylether	5.092	63	100107	52.0482	ug/l	85
57) cis-1,3-Dichloropropene	5.183	75	230911	52.3716	ug/l	92
58) trans-1,3-Dichloropropene	5.507	75	195735	54.3082	ug/l	85
59) Ethyl methacrylate	5.543	41	166434	47.2837	ug/l	82
60) 1,1,2-Trichloroethane	5.621	97	139220	53.2207	ug/l	90
61) 1,2-Dibromoethane	5.940	107	148381	51.8595	ug/l	91
62) 1,3-Dichloropropane	5.724	76	252062	52.5973	ug/l	98
63) 4-Methyl-2-Pentanone	5.267	43	177162	42.9415	ug/l	98
64) 2-Hexanone	5.754	43	132228	57.9805	ug/l	88
65) Tetrachloroethene	5.712	164	131180	45.8672	ug/l	99
67) Toluene	5.387	92	322745	50.4511	ug/l	96

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB
Data File: 3M51165.D
Acq On : 05/21/14 13:59

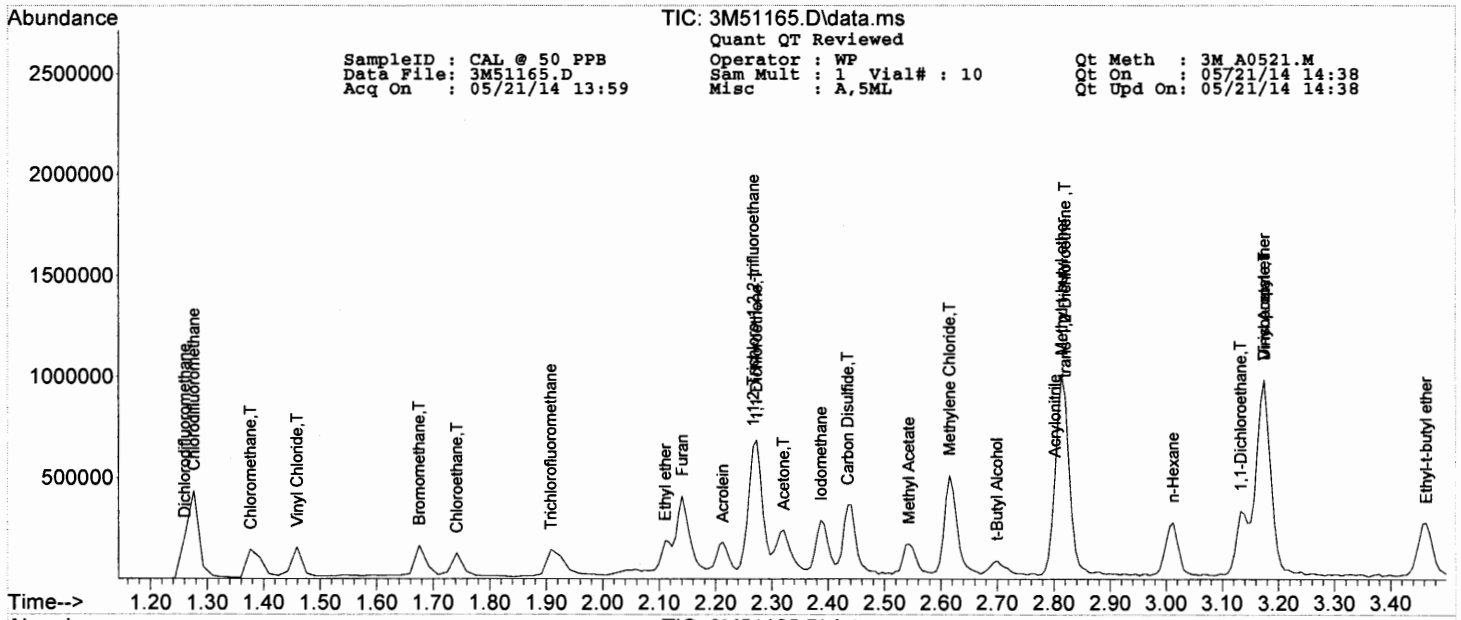
Operator : WP
Sam Mult : 1 Vial# : 10
Misc : A,5ML

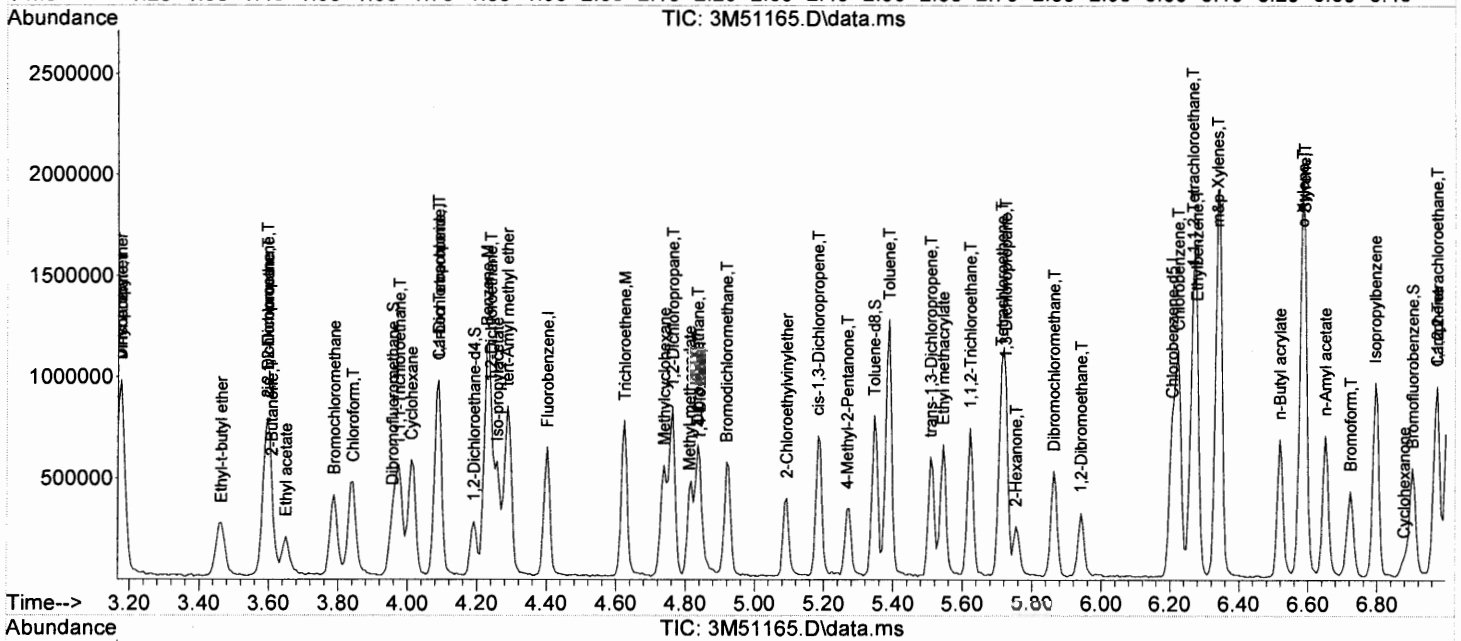
Qt Meth : 3M_A0521.M
Qt On : 05/21/14 14:38
Qt Upd On: 05/21/14 14:38

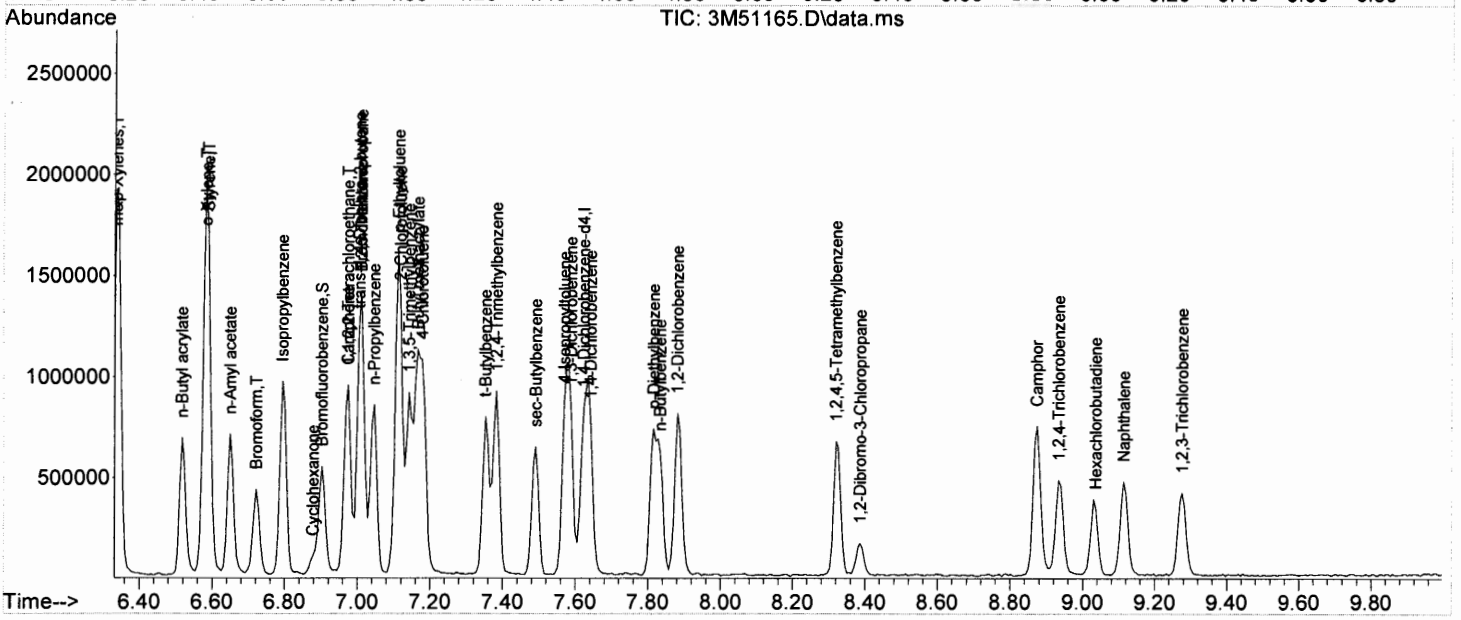
Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.265	133	160263	51.5408	ug/l	78
69) Chlorobenzene	6.223	112	360486	52.6470	ug/l	100
71) n-Butyl acrylate	6.517	55	330921	57.3953	ug/l	95
72) n-Amyl acetate	6.649	43	314683	53.7429	ug/l	93
73) Bromoform	6.722	173	140591	43.2468	ug/l	89
74) Ethylbenzene	6.277	106	122648	50.3165	ug/l	83
75) 1,1,2,2-Tetrachloroethane	6.974	83	169310	65.3797	ug/l	93
77) Styrene	6.589	104	356663	62.6423	ug/l	100
78) m&p-Xylenes	6.337	106	378349	121.4543	ug/l	81
79) o-Xylene	6.583	106	212007	61.8292	ug/l	77
80) trans-1,4-Dichloro-2-b...	7.004	53	44641	68.7243	ug/l	44
81) 1,3-Dichlorobenzene	7.587	146	248152	55.0596	ug/l	87
82) 1,4-Dichlorobenzene	7.641	146	258456	54.2720	ug/l	91
83) 1,2-Dichlorobenzene	7.882	146	261511	54.6072	ug/l	91
84) Isopropylbenzene	6.794	105	445478	57.9040	ug/l	93
85) Cyclohexanone	6.878	55	31940	221.3374	ug/l	93
86) Camphene	6.974	93	88021	42.9425	ug/l	92
87) 1,2,3-Trichloropropane	7.010	75	198334	59.1600	ug/l	93
88) 2-Chlorotoluene	7.118	91	284087	55.9647	ug/l	95
89) p-Ethyltoluene	7.112	105	431930	59.2179	ug/l	77
90) 4-Chlorotoluene	7.178	91	295061	57.7402	ug/l	90
91) n-Propylbenzene	7.046	91	480673	57.0804	ug/l	97
92) Bromobenzene	7.010	77	321234	54.6649	ug/l	90
93) 1,3,5-Trimethylbenzene	7.142	105	315624	51.9090	ug/l	80
94) Butyl methacrylate	7.166	41	260694	56.1821	ug/l	82
95) t-Butylbenzene	7.353	119	304339	56.0121	ug/l	83
96) 1,2,4-Trimethylbenzene	7.383	105	378357	56.5465	ug/l	90
97) sec-Butylbenzene	7.491	105	334749	55.0405	ug/l	98
98) 4-Isopropyltoluene	7.569	119	284479	54.8306	ug/l	90
99) n-Butylbenzene	7.834	91	307125	54.2710	ug/l	91
100) p-Diethylbenzene	7.816	119	180041	51.5230	ug/l	91
101) 1,2,4,5-Tetramethylben...	8.320	119	288210	48.4014	ug/l	90
102) 1,2-Dibromo-3-Chloropr...	8.387	157	40066	49.1537	ug/l	59
103) Camphor	8.874	95	141719	468.6637	ug/l	90
104) Hexachlorobutadiene	9.036	225	74302	29.1611	ug/l	95
105) 1,2,4-Trichlorobenzene	8.934	180	144715	44.5812	ug/l	95
106) 1,2,3-Trichlorobenzene	9.276	180	136800	41.9304	ug/l	93
107) Naphthalene	9.114	128	315657	58.7630	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M51165.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 3M51165.D
Acq On : 05/21/14 13:59
Operator : WP
Sam Mult : 1 Vial# : 10
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/21/14 14:38
Qt Upd On: 05/21/14 14:38
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Time-->


Abundance
TIC: 3M51165.D\data.ms
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
Time-->


Abundance
TIC: 3M51165.D\data.ms
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 100 PPB
Data File: 3M51167.D
Acq On : 05/21/14 14:32

Operator : WP
Sam Mult : 1 Vial# : 12
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:16
Qt Upd On: 05/21/14 14:38

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.401	96	316219	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.205	117	250049	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.623	152	149401	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.956	111	115778	28.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.20%			
39) 1,2-Dichloroethane-d4	4.191	67	66722	29.48	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.27%			
66) Toluene-d8	5.345	98	332626	30.78	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.60%			
76) Bromofluorobenzene	6.902	174	129644	23.90	ug/l	0.00
Spiked Amount 30.000			Recovery = 79.67%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.280	51	578761	85.5204	ug/l	95
6) Dichlorodifluoromethane	1.264	85	323691	99.3607	ug/l	93
7) Chloromethane	1.380	50	369704	102.2378	ug/l	81
8) Bromomethane	1.679	94	120419	74.8834	ug/l	93
9) Vinyl Chloride	1.463	62	200371	80.6169	ug/l	100
10) Chloroethane	1.746	64	117885	76.2806	ug/l	94
11) Trichlorofluoromethane	1.912	101	215064	73.3291	ug/l	99
12) Ethyl ether	2.117	59	121254	89.8399	ug/l	93
13) Furan	2.141	39	425000	69.5733	ug/l	80
14) 1,1,2-Trichloro-1,2,2-...	2.267	101	194254	108.0129	ug/l	93
15) Methylene Chloride	2.616	84	263919	96.7610	ug/l	81
16) Acrolein	2.213	56	199540	1380.6945	ug/l	97
17) Acrylonitrile	2.802	53	100817	119.6789	ug/l	99
18) Iodomethane	2.394	142	436773	106.1069	ug/l	95
19) Acetone	2.321	43	489422	497.0222	ug/l	98
20) Carbon Disulfide	2.442	76	671081	86.6575	ug/l	100
21) t-Butyl Alcohol	2.700	59	109876	466.3291	ug/l	69
22) n-Hexane	3.013	57	150866m	120.5409	ug/l	
23) Di-isopropyl-ether	3.175	45	1125808	93.7317	ug/l	84
24) 1,1-Dichloroethene	2.273	61	415045	101.6723	ug/l	95
25) Methyl Acetate	2.544	43	348815	106.1496	ug/l	100
26) Methyl-t-butyl ether	2.814	73	622690	84.9022	ug/l	68
27) 1,1-Dichloroethane	3.139	63	510800	96.3233	ug/l	100
28) trans-1,2-Dichloroethene	2.814	96	227931	98.6711	ug/l	97
29) Ethyl-t-butyl ether	3.464	59	357770	35.3707	ug/l	96
30) cis-1,2-Dichloroethene	3.596	61	501717m	104.0692	ug/l	
31) Bromochloromethane	3.788	49	290090	93.9810	ug/l	79
32) 2,2-Dichloropropane	3.596	77	268306	98.9250	ug/l	94
33) Ethyl acetate	3.650	43	342619	100.4125	ug/l	99
34) 1,4-Dioxane	4.840	88	143103	5138.1427	ug/l	69
35) 1,1-Dichloropropene	4.089	75	327469	88.5358	ug/l	93
36) Chloroform	3.842	83	470927	89.5138	ug/l	87
38) Cyclohexane	4.011	56	341593	93.7590	ug/l	85
40) 1,2-Dichloroethane	4.239	62	425867	90.7539	ug/l	96
41) 2-Butanone	3.614	43	135679	106.2420	ug/l	87
42) 1,1,1-Trichloroethane	3.975	97	367722	81.7841	ug/l	93
43) Carbon Tetrachloride	4.089	117	295629	81.8390	ug/l	95
44) Vinyl Acetate	3.175	43	863392	104.5480	ug/l	100
45) Bromodichloromethane	4.924	83	419439	93.5579	ug/l	100
46) Methylcyclohexane	4.738	83	219245	100.7832	ug/l	94
47) Dibromomethane	4.840	174	285594	78.7557	ug/l	92
48) 1,2-Dichloropropane	4.762	63	333839	99.7857	ug/l	95
49) Trichloroethene	4.624	130	291910	90.1103	ug/l	76
50) Benzene	4.227	78	932612	93.8777	ug/l	100
51) tert-Amyl methyl ether	4.287	73	721556	86.3534	ug/l	76
53) Iso-propylacetate	4.257	43	667914	93.5721	ug/l	95
54) Methyl methacrylate	4.816	41	317511	95.8461	ug/l	98
55) Dibromochloromethane	5.862	129	353387	100.2373	ug/l	99
56) 2-Chloroethylvinylether	5.093	63	204803	109.7583	ug/l	81
57) cis-1,3-Dichloropropene	5.183	75	458500	107.1890	ug/l	87
58) trans-1,3-Dichloropropene	5.507	75	383878	109.7868	ug/l	98
59) Ethyl methacrylate	5.543	41	344425	100.8613	ug/l	82
60) 1,1,2-Trichloroethane	5.622	97	252691	99.5701	ug/l	91
61) 1,2-Dibromoethane	5.940	107	292652	105.4294	ug/l	88
62) 1,3-Dichloropropane	5.724	76	464711	99.9537	ug/l	97
63) 4-Methyl-2-Pentanone	5.267	43	358989	89.6908	ug/l	93
64) 2-Hexanone	5.754	43	247190	111.7247	ug/l	91
65) Tetrachloroethene	5.712	164	235445	84.8562	ug/l	97
67) Toluene	5.387	92	606108	97.6611	ug/l	96

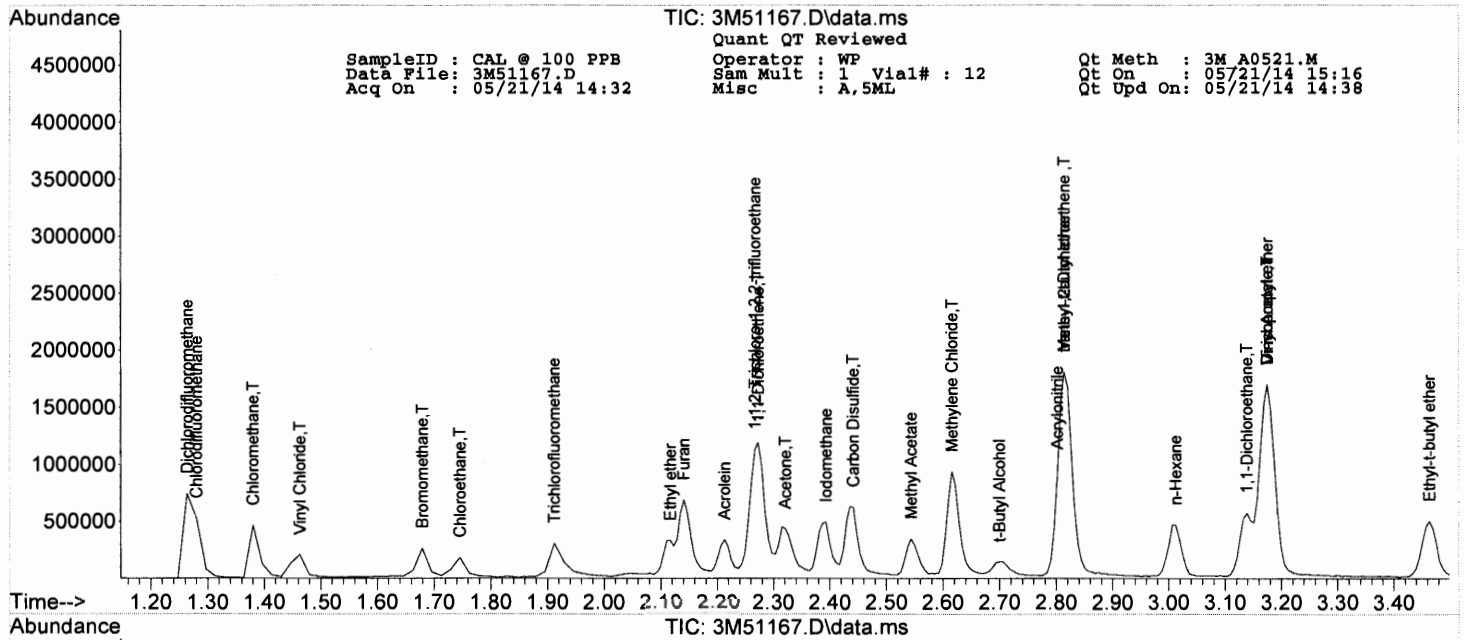
Quantitation Report (QT Reviewed)

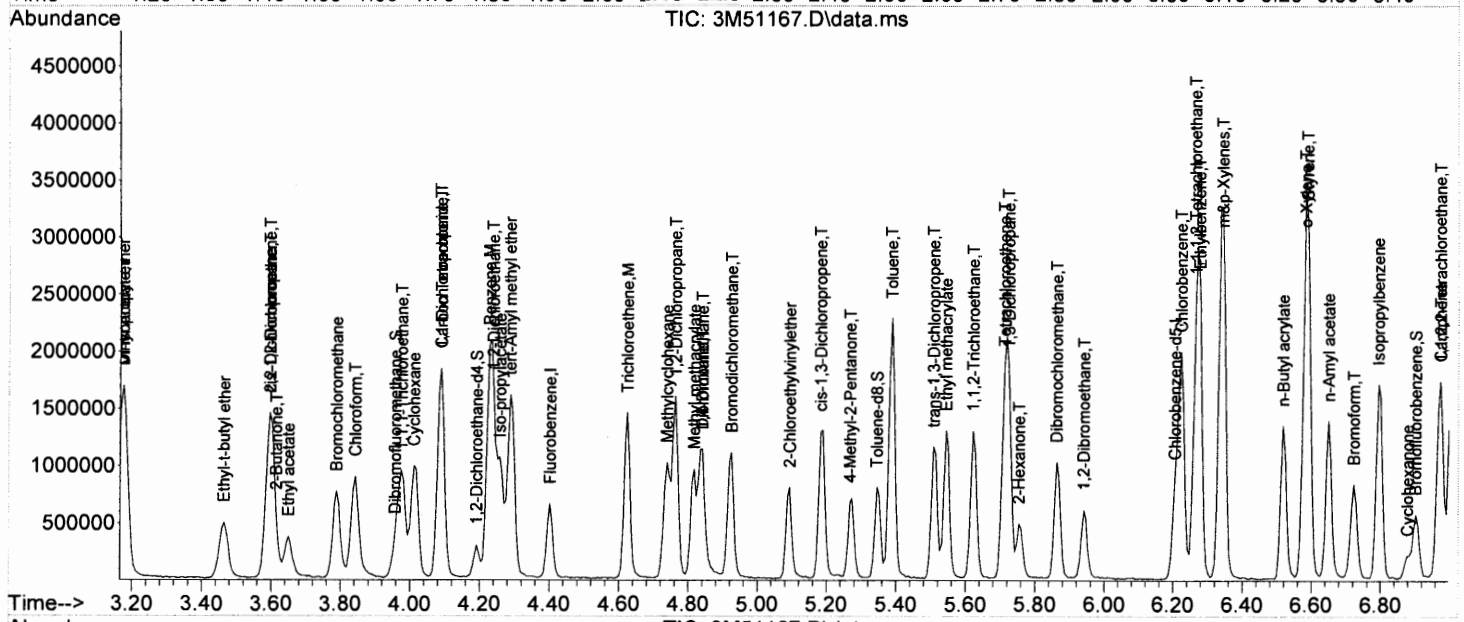
SampleID : CAL @ 100 PPB
Data File: 3M51167.D
Acq On : 05/21/14 14:32
Operator : WP
Sam Mult : 1 Vial# : 12
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:16
Qt Upd On: 05/21/14 14:38

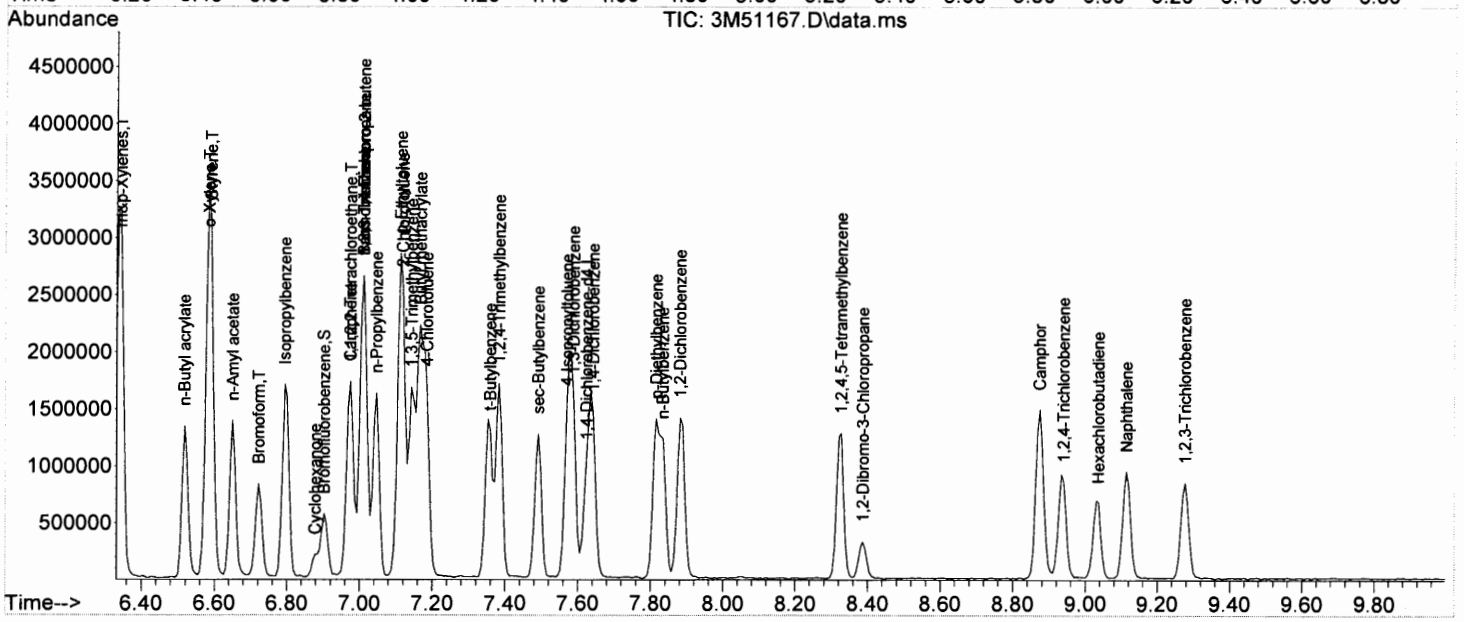
Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.265	133	269630	89.3811	ug/l	91
69)	Chlorobenzene	6.223	112	682124	102.6854	ug/l	93
71)	n-Butyl acrylate	6.517	55	629891	103.9585	ug/l	95
72)	n-Amyl acetate	6.649	43	620185	100.7885	ug/l	94
73)	Bromoform	6.722	173	291728	85.3920	ug/l	96
74)	Ethylbenzene	6.277	106	252032	98.3893	ug/l	76
75)	1,1,2,2-Tetrachloroethane	6.974	83	324168	119.1167	ug/l	93
77)	Styrene	6.589	104	637816	106.5976	ug/l	91
78)	m&p-Xylenes	6.343	106	657902	200.9666	ug/l	77
79)	o-Xylene	6.583	106	351363	97.5084	ug/l	74
80)	trans-1,4-Dichloro-2-b...	7.010	53	85453	125.1832	ug/l	36
81)	1,3-Dichlorobenzene	7.587	146	470553	99.3496	ug/l	88
82)	1,4-Dichlorobenzene	7.641	146	488406	97.5915	ug/l	93
83)	1,2-Dichlorobenzene	7.882	146	495155	98.3882	ug/l	88
84)	Isopropylbenzene	6.794	105	803581	99.3927	ug/l	94
85)	Cyclohexanone	6.878	55	62940	415.0390	ug/l	89
86)	Camphene	6.974	93	184840	85.8102	ug/l	98
87)	1,2,3-Trichloropropane	7.010	75	379493	107.7153	ug/l	93
88)	2-Chlorotoluene	7.118	91	551998	103.4766	ug/l	95
89)	p-Ethyltoluene	7.112	105	770130	100.4721	ug/l	79
90)	4-Chlorotoluene	7.184	91	525184	97.7958	ug/l	89
91)	n-Propylbenzene	7.046	91	896122	101.2621	ug/l	96
92)	Bromobenzene	7.010	77	666110	107.8636	ug/l	91
93)	1,3,5-Trimethylbenzene	7.142	105	589537	92.2627	ug/l	81
94)	Butyl methacrylate	7.166	41	520144	106.6676	ug/l	83
95)	t-Butylbenzene	7.359	119	566004	99.1256	ug/l	82
96)	1,2,4-Trimethylbenzene	7.383	105	703510	100.0498	ug/l	89
97)	sec-Butylbenzene	7.491	105	641517	100.3722	ug/l	95
98)	4-Isopropyltoluene	7.569	119	531549	97.4897	ug/l	91
99)	n-Butylbenzene	7.834	91	591662	99.4875	ug/l	90
100)	p-Diethylbenzene	7.816	119	339039	92.3255	ug/l	92
101)	1,2,4,5-Tetramethylben...	8.327	119	551748	88.1722	ug/l	89
102)	1,2-Dibromo-3-Chloropr...	8.387	157	79056	92.2905	ug/l	61
103)	Camphor	8.874	95	291141	916.1760	ug/l	91
104)	Hexachlorobutadiene	9.036	225	142601	53.2560	ug/l	95
105)	1,2,4-Trichlorobenzene	8.940	180	280403	82.1983	ug/l	96
106)	1,2,3-Trichlorobenzene	9.276	180	256088	74.6920	ug/l	92
107)	Naphthalene	9.114	128	643738	114.0355	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M51167.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 100 PPB
Data File: 3M51167.D
Acq On : 05/21/14 14:32
Operator : WP
Sam Mult : 1 Vial# : 12
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:16
Qt Upd On: 05/21/14 14:38
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Time-->


Abundance
TIC: 3M51167.D\data.ms
Ethyl-t-butyl ether
2-Butanone,T
Ethyl acetate
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Time-->


Abundance
TIC: 3M51167.D\data.ms
m&p-Xylenes,I
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
n-Propylbenzene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 250 PPB
Data File: 3M51170.D
Acq On : 05/21/14 15:25

Operator : WP
Sam Mult : 1 Vial# : 14
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:47
Qt Upd On: 05/21/14 14:38

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.402	96	314796	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.205	117	258739	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.624	152	147816	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.957	111	106133	26.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 87.67%			
39) 1,2-Dichloroethane-d4	4.191	67	67723	30.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.20%			
66) Toluene-d8	5.345	98	338587	30.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.93%			
76) Bromofluorobenzene	6.908	174	137199	25.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 85.20%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.275	51	1251595	185.7775	ug/l	95
6) Dichlorodifluoromethane	1.275	85	707043	218.0162	ug/l	92
7) Chloromethane	1.392	50	735633	204.3513	ug/l	83
8) Bromomethane	1.675	94	227521	142.1250	ug/l	79
9) Vinyl Chloride	1.458	62	574038	232.0014	ug/l	94
10) Chloroethane	1.741	64	287489	186.8682	ug/l	93
11) Trichlorofluoromethane	1.907	101	637274	218.2697	ug/l	91
12) Ethyl ether	2.111	59	282355	210.1492	ug/l	97
13) Furan	2.141	39	982392	161.5464	ug/l	82
14) 1,1,2-Trichloro-1,2,2-...	2.262	101	432287	241.4552	ug/l	89
15) Methylene Chloride	2.616	84	613806	226.0578	ug/l	74
16) Acrolein	2.214	56	472256	3282.4934	ug/l	99
17) Acrylonitrile	2.803	53	226911	270.5815	ug/l	96
18) Iodomethane	2.388	142	1039674	253.7135	ug/l	98
19) Acetone	2.322	43	1158976	1182.2940	ug/l	93
20) Carbon Disulfide	2.436	76	1645336	213.4248	ug/l	100
21) t-Butyl Alcohol	2.707	59	293009	1249.1926	ug/l	84
22) n-Hexane	3.013	57	409883m	328.9741	ug/l	
23) Di-isopropyl-ether	3.175	45	2616826	218.8546	ug/l	87
24) 1,1-Dichloroethene	2.274	61	933739	229.7692	ug/l	97
25) Methyl Acetate	2.544	43	870141	265.9938	ug/l	100
26) Methyl-t-butyl ether	2.815	73	1379329	188.9180	ug/l	68
27) 1,1-Dichloroethane	3.139	63	1241541	235.1800	ug/l	98
28) trans-1,2-Dichloroethene	2.815	96	506611	220.3028	ug/l	88
29) Ethyl-t-butyl ether	3.464	59	904340	89.8112	ug/l	96
30) cis-1,2-Dichloroethene	3.596	61	1191182m	248.1992	ug/l	
31) Bromochloromethane	3.789	49	731409	238.0272	ug/l	79
32) 2,2-Dichloropropane	3.590	77	661207	244.8905	ug/l	97
33) Ethyl acetate	3.650	43	884038	260.2592	ug/l	96
34) 1,4-Dioxane	4.846	88	356082	12842.9916	ug/l	82
35) 1,1-Dichloropropene	4.089	75	734080	199.3659	ug/l	96
36) Chloroform	3.843	83	1138675	217.4177	ug/l	88
38) Cyclohexane	4.011	56	868157	239.3653	ug/l	84
40) 1,2-Dichloroethane	4.245	62	959328	205.3607	ug/l	97
41) 2-Butanone	3.614	43	339117	266.7423	ug/l	93
42) 1,1,1-Trichloroethane	3.975	97	915476	204.5291	ug/l	98
43) Carbon Tetrachloride	4.089	117	697017	193.8274	ug/l	94
44) Vinyl Acetate	3.169	43	2089154	254.1188	ug/l	100
45) Bromodichloromethane	4.919	83	990559	221.9478	ug/l	91
46) Methylcyclohexane	4.738	83	534748	246.9257	ug/l	92
47) Dibromomethane	4.834	174	656426	181.8349	ug/l	92
48) 1,2-Dichloropropane	4.762	63	758969	227.8841	ug/l	93
49) Trichloroethene	4.624	130	685032	212.4198	ug/l	86
50) Benzene	4.227	78	1974975	199.7017	ug/l	100
51) tert-Amyl methyl ether	4.287	73	1635206	196.5806	ug/l	84
53) Iso-propylacetate	4.257	43	1625034	220.0147	ug/l	79
54) Methyl methacrylate	4.816	41	800828	233.6243	ug/l	98
55) Dibromochloromethane	5.862	129	828626	227.1436	ug/l	96
56) 2-Chloroethylvinylether	5.093	63	495727	256.7479	ug/l	82
57) cis-1,3-Dichloropropene	5.189	75	1096708	247.7794	ug/l	92
58) trans-1,3-Dichloropropene	5.508	75	986137	272.5570	ug/l	95
59) Ethyl methacrylate	5.544	41	874327	247.4382	ug/l	89
60) 1,1,2-Trichloroethane	5.622	97	602854	229.5698	ug/l	90
61) 1,2-Dibromoethane	5.941	107	710958	247.5242	ug/l	90
62) 1,3-Dichloropropane	5.724	76	1015554	211.0970	ug/l	100
63) 4-Methyl-2-Pentanone	5.267	43	908997	219.4788	ug/l	94
64) 2-Hexanone	5.754	43	644049	281.3199	ug/l	92
65) Tetrachloroethene	5.712	164	549153	191.2718	ug/l	95
67) Toluene	5.388	92	1309689	203.9402	ug/l	98

Quantitation Report (QT Reviewed)

SampleID : CAL @ 250 PPB
Data File: 3M51170.D
Acq On : 05/21/14 15:25

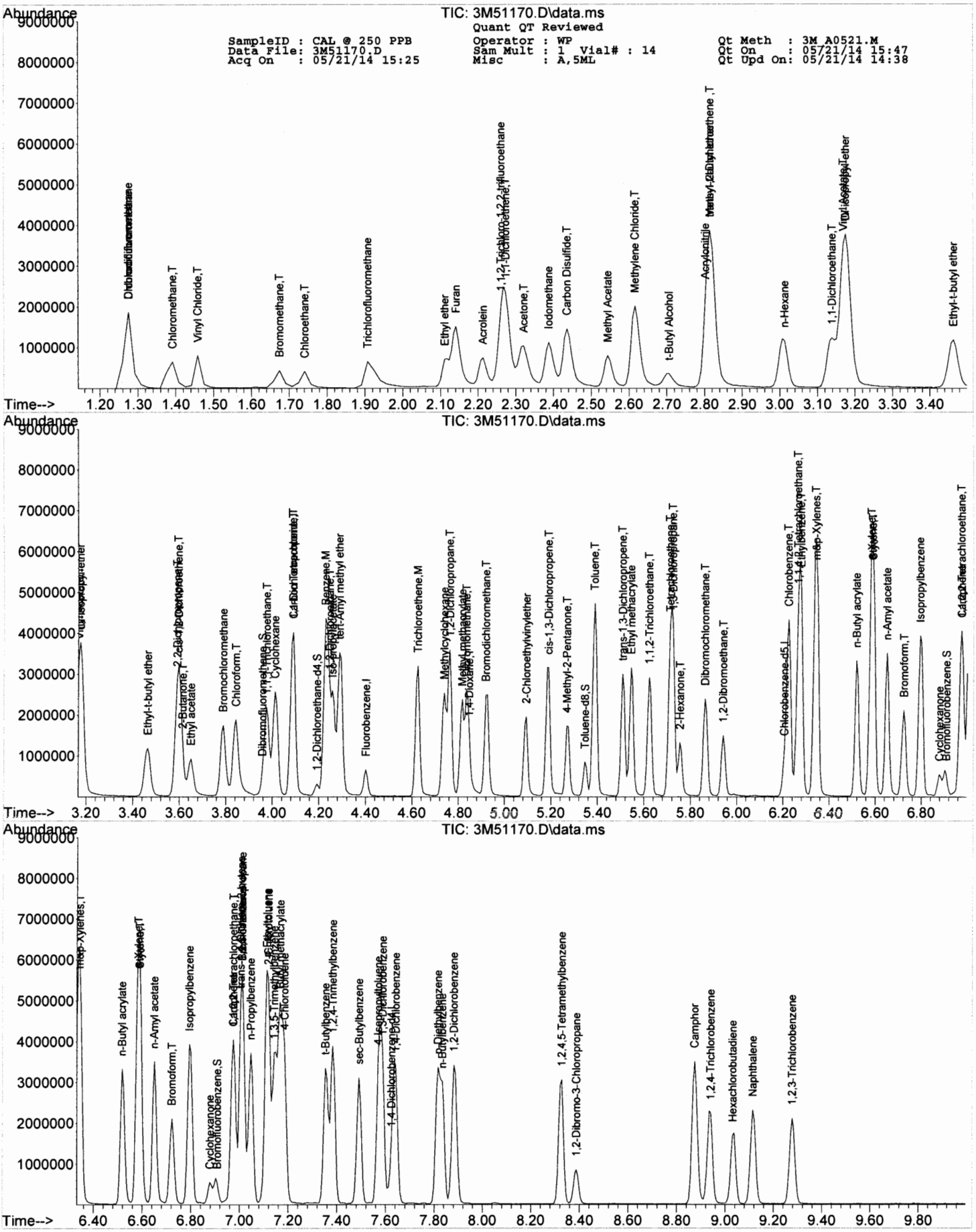
Operator : WP
Sam Mult : 1 Vial# : 14
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:47
Qt Upd On: 05/21/14 14:38

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.265	133	581005	186.1319	ug/l	84
69)	Chlorobenzene	6.223	112	1506807	219.2130	ug/l	95
71)	n-Butyl acrylate	6.518	55	1580179	263.5923	ug/l	97
72)	n-Amyl acetate	6.650	43	1531225	251.5132	ug/l	92
73)	Bromoform	6.722	173	741109	219.2568	ug/l	94
74)	Ethylbenzene	6.277	106	476352	187.9544	ug/l	82
75)	1,1,2,2-Tetrachloroethane	6.974	83	756472	280.9488	ug/l	91
77)	Styrene	6.590	104	1290817	218.0462	ug/l	97
78)	m&p-Xylenes	6.343	106	1328992	410.3146	ug/l	88
79)	o-Xylene	6.584	106	710495	199.2870	ug/l	78
80)	trans-1,4-Dichloro-2-b...	7.005	53	235814m	349.1567	ug/l	
81)	1,3-Dichlorobenzene	7.588	146	1063333	226.9127	ug/l	88
82)	1,4-Dichlorobenzene	7.642	146	1172482	236.7933	ug/l	93
83)	1,2-Dichlorobenzene	7.882	146	1203215	241.6446	ug/l	89
84)	Isopropylbenzene	6.794	105	1892226	236.5537	ug/l	94
85)	Cyclohexanone	6.878	55	169577	1130.2154	ug/l	90
86)	Camphene	6.974	93	461262	216.4327	ug/l	100
87)	1,2,3-Trichloropropane	7.011	75	843434	241.9673	ug/l	90
88)	2-Chlorotoluene	7.119	91	1072487	203.2024	ug/l	95
89)	p-Ethyltoluene	7.113	105	1659788	218.8599	ug/l	80
90)	4-Chlorotoluene	7.185	91	1174099	220.9762	ug/l	91
91)	n-Propylbenzene	7.047	91	2097409	239.5493	ug/l	94
92)	Bromobenzene	7.011	77	1339189	219.1811	ug/l	91
93)	1,3,5-Trimethylbenzene	7.143	105	1359880	215.1037	ug/l	78
94)	Butyl methacrylate	7.167	41	1212640	251.3465	ug/l	78
95)	t-Butylbenzene	7.353	119	1343101	237.7427	ug/l	84
96)	1,2,4-Trimethylbenzene	7.383	105	1595089	229.2782	ug/l	85
97)	sec-Butylbenzene	7.491	105	1561219	246.8886	ug/l	95
98)	4-Isopropyltoluene	7.570	119	1209298	224.1717	ug/l	90
99)	n-Butylbenzene	7.834	91	1419329	241.2182	ug/l	91
100)	p-Diethylbenzene	7.816	119	799372	220.0153	ug/l	93
101)	1,2,4,5-Tetramethylben...	8.327	119	1344202	217.1139	ug/l	89
102)	1,2-Dibromo-3-Chloropr...	8.387	157	209109	246.7328	ug/l	60
103)	Camphor	8.874	95	692779	2203.4454	ug/l	93
104)	Hexachlorobutadiene	9.030	225	362945	136.9994	ug/l	94
105)	1,2,4-Trichlorobenzene	8.940	180	701455	207.8317	ug/l	96
106)	1,2,3-Trichlorobenzene	9.277	180	648355	191.1304	ug/l	95
107)	Naphthalene	9.114	128	1544828	276.5943	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 3M51170.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 250 PPB
Data File: 3M51170.D
Acq On : 05/21/14 15:25
Operator : WP
Sam Mult : 1 Vial# : 14
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05721/14 15:47
Qt Upd On: 05/21/14 14:38
Abundance
Time-->
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Ethyl-t-butyl ether
2-Butanone,T
Ethyl acetate
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Methylcyclohexane
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
t-Butylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Quantitation Report (QT Reviewed)

SampleID : CAL @ 500 PPB
Data File: 3M51172.D
Acq On : 05/21/14 15:56

Operator : WP
Sam Mult : 1 Vial# : 16
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/22/14 09:55
Qt Upd On: 05/21/14 14:38

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.401	96	311621	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.204	117	242715	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.623	152	137707	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.962	111	100204	25.08	ug/l	0.01
Spiked Amount 30.000			Recovery = 83.60%			
39) 1,2-Dichloroethane-d4	4.191	67	64965	29.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.10%			
66) Toluene-d8	5.351	98	326871	31.17	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.90%			
76) Bromofluorobenzene	6.908	174	144328	28.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.20%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.275	51	2144880	321.6139	ug/l	92
6) Dichlorodifluoromethane	1.258	85	1413346	440.2445	ug/l	89
7) Chloromethane	1.391	50	1473597	413.5209	ug/l	84
8) Bromomethane	1.657	94	225943	142.5773	ug/l	86
9) Vinyl Chloride	1.458	62	1042944	425.8077	ug/l	96
10) Chloroethane	1.724	64	485097	318.5262	ug/l	89
11) Trichlorofluoromethane	1.907	101	1150105	397.9305	ug/l	88
12) Ethyl ether	2.111	59	502843	378.0655	ug/l	98
13) Furan	2.135	39	1967696m	326.8684	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.255	101	774099	436.7807	ug/l	92
15) Methylene Chloride	2.616	84	1102112	410.0310	ug/l	77
16) Acrolein	2.207	56	903044	6340.7083	ug/l	90
17) Acrylonitrile	2.802	53	397685	479.0537	ug/l	98
18) Iodomethane	2.387	142	1828688	450.8048	ug/l	99
19) Acetone	2.321	43	2062663	2125.6014	ug/l	91
20) Carbon Disulfide	2.435	76	2911750	381.5459	ug/l	100
21) t-Butyl Alcohol	2.706	59	554102	2386.3858	ug/l	89
22) n-Hexane	3.006	57	793483m	643.3419	ug/l	
23) Di-isopropyl-ether	3.175	45	4283472	361.8923	ug/l	84
24) 1,1-Dichloroethene	2.267	61	1683611	418.5146	ug/l	88
25) Methyl Acetate	2.543	43	1632810	504.2200	ug/l	100
26) Methyl-t-butyl ether	2.820	73	2284136	316.0312	ug/l	67
27) 1,1-Dichloroethane	3.139	63	2208434	422.5969	ug/l	96
28) trans-1,2-Dichloroethene	2.814	96	766084	336.5304	ug/l	83
29) Ethyl-t-butyl ether	3.463	59	1686645	169.2095	ug/l	96
30) cis-1,2-Dichloroethene	3.595	61	1734697	365.1307	ug/l	97
31) Bromochloromethane	3.788	49	1282033	421.4712	ug/l	71
32) 2,2-Dichloropropane	3.595	77	1143130	427.6935	ug/l	97
33) Ethyl acetate	3.650	43	1672716	497.4619	ug/l	96
34) 1,4-Dioxane	4.846	88	598498	21806.2692	ug/l	71
35) 1,1-Dichloropropene	4.088	75	1181979	324.2797	ug/l	96
36) Chloroform	3.842	83	2054728	396.3254	ug/l	90
38) Cyclohexane	4.016	56	1537846	428.3298	ug/l	82
40) 1,2-Dichloroethane	4.245	62	1541583	333.3647	ug/l	97
41) 2-Butanone	3.613	43	588710	467.7850	ug/l	92
42) 1,1,1-Trichloroethane	3.974	97	1531584	345.6619	ug/l	98
43) Carbon Tetrachloride	4.094	117	1115694	313.4147	ug/l	96
44) Vinyl Acetate	3.169	43	3518018	432.2818	ug/l	100
45) Bromodichloromethane	4.924	83	1686747	381.7886	ug/l	96
46) Methylcyclohexane	4.738	83	926925	432.3785	ug/l	89
47) Dibromomethane	4.840	174	1051729	294.3052	ug/l	95
48) 1,2-Dichloropropane	4.762	63	1250561	379.3127	ug/l	95
49) Trichloroethene	4.623	130	1086032	340.1961	ug/l	79
50) Benzene	4.227	78	3000372	306.4769	ug/l	100
51) tert-Amyl methyl ether	4.293	73	2601769	315.9653	ug/l	85
53) Iso-propylacetate	4.263	43	2897131	418.1409	ug/l	80
54) Methyl methacrylate	4.816	41	1402707	436.2254	ug/l	98
55) Dibromochloromethane	5.862	129	1416201	413.8396	ug/l	100
56) 2-Chloroethylvinylether	5.092	63	902763	498.4290	ug/l	83
57) cis-1,3-Dichloropropene	5.188	75	1840254	443.2178	ug/l	98
58) trans-1,3-Dichloropropene	5.507	75	1710403	503.9459	ug/l	97
59) Ethyl methacrylate	5.549	41	1509881	455.5132	ug/l	93
60) 1,1,2-Trichloroethane	5.627	97	980153	397.8888	ug/l	91
61) 1,2-Dibromoethane	5.940	107	1227740	455.6647	ug/l	95
62) 1,3-Dichloropropane	5.729	76	1584713	351.1519	ug/l	99
63) 4-Methyl-2-Pentanone	5.273	43	1667753	429.2667	ug/l	96
64) 2-Hexanone	5.759	43	1164108	542.0509	ug/l	90
65) Tetrachloroethene	5.711	164	803965	298.5107	ug/l	97
67) Toluene	5.393	92	1986794	329.8016	ug/l	92

Quantitation Report (QT Reviewed)

SampleID : CAL @ 500 PPB
Data File: 3M51172.D
Acq On : 05/21/14 15:56

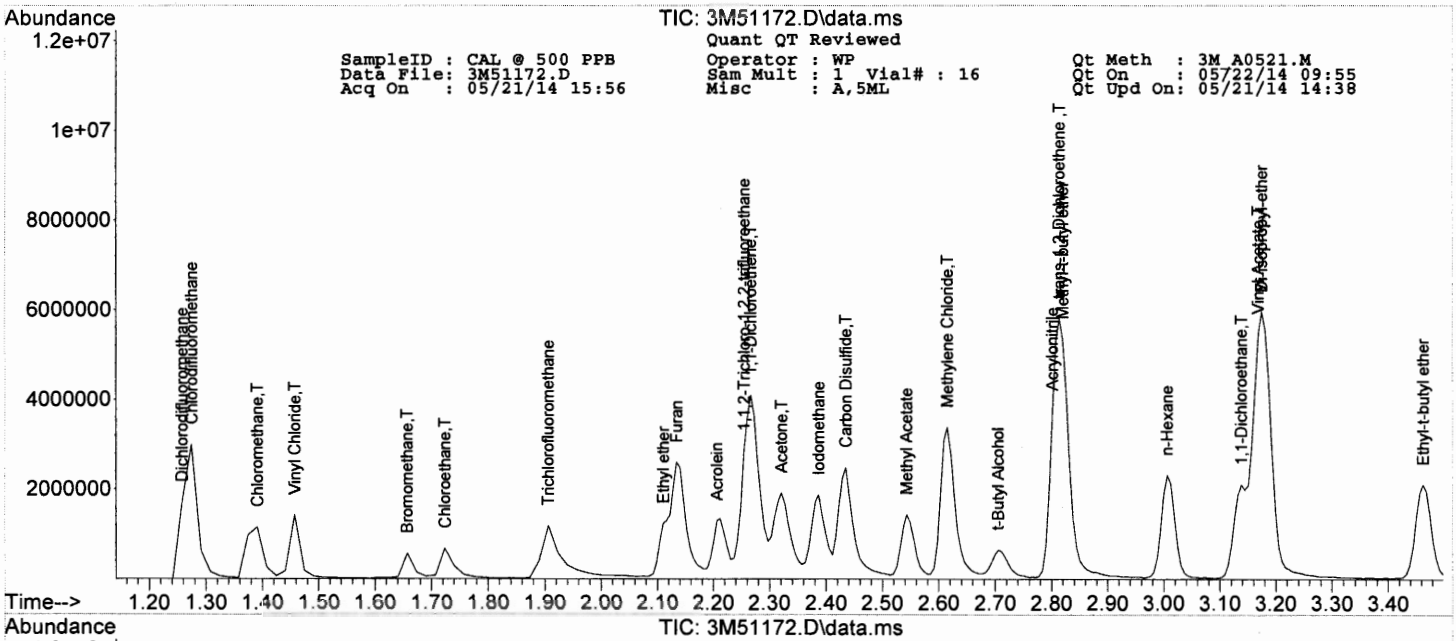
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/22/14 09:55
Qt Upd On: 05/21/14 14:38

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.264	133	854516	291.8276	ug/l	85
69)	Chlorobenzene	6.222	112	2295316	355.9725	ug/l	89
71)	n-Butyl acrylate	6.523	55	2676767	479.2945	ug/l	97
72)	n-Amyl acetate	6.655	43	2611643	460.4697	ug/l	91
73)	Bromoform	6.721	173	1314321	417.3859	ug/l	95
74)	Ethylbenzene	6.282	106	643136	272.3909	ug/l	73
75)	1,1,2,2-Tetrachloroethane	6.980	83	1186724	473.0963	ug/l	95
77)	Styrene	6.595	104	1753746	317.9919	ug/l	86
78)	m&p-Xylenes	6.349	106	1809173	599.5704	ug/l	84
79)	o-Xylene	6.583	106	1010537	304.2534	ug/l	74
80)	trans-1,4-Dichloro-2-b...	7.010	53	339956	540.3050	ug/l	44
81)	1,3-Dichlorobenzene	7.593	146	1618709	370.7864	ug/l	89
82)	1,4-Dichlorobenzene	7.641	146	1844351	399.8271	ug/l	91
83)	1,2-Dichlorobenzene	7.881	146	1903418	410.3302	ug/l	89
84)	Isopropylbenzene	6.799	105	2895491	388.5478	ug/l	92
85)	Cyclohexanone	6.884	55	307462	2199.6376	ug/l	97
86)	Camphene	6.974	93	735929	370.6607	ug/l	98
87)	1,2,3-Trichloropropane	7.016	75	1291525	397.7167	ug/l	87
88)	2-Chlorotoluene	7.124	91	1416239	288.0307	ug/l	95
89)	p-Ethyltoluene	7.112	105	2188118	309.7061	ug/l	83
90)	4-Chlorotoluene	7.190	91	1722757	348.0409	ug/l	93
91)	n-Propylbenzene	7.052	91	3263955	400.1486	ug/l	92
92)	Bromobenzene	7.010	77	2308810m	405.6158	ug/l	
93)	1,3,5-Trimethylbenzene	7.148	105	2167498	368.0200	ug/l	88
94)	Butyl methacrylate	7.166	41	1950060	433.8648	ug/l	74
95)	t-Butylbenzene	7.358	119	2193445	416.7645	ug/l	85
96)	1,2,4-Trimethylbenzene	7.388	105	2462892	380.0045	ug/l	88
97)	sec-Butylbenzene	7.497	105	2511901	426.3883	ug/l	93
98)	4-Isopropyltoluene	7.575	119	1835543	365.2393	ug/l	94
99)	n-Butylbenzene	7.833	91	2319340	423.1135	ug/l	91
100)	p-Diethylbenzene	7.815	119	1311772	387.5500	ug/l	92
101)	1,2,4,5-Tetramethylben...	8.326	119	2207847	382.7872	ug/l	87
102)	1,2-Dibromo-3-Chloropr...	8.386	157	401201	508.1380	ug/l	60
103)	Camphor	8.873	95	1181405	4033.4048	ug/l	97
104)	Hexachlorobutadiene	9.036	225	703255	284.9418	ug/l	97
105)	1,2,4-Trichlorobenzene	8.939	180	1270480	404.0595	ug/l	96
106)	1,2,3-Trichlorobenzene	9.276	180	1193377	377.6244	ug/l	95
107)	Naphthalene	9.114	128	2711138	521.0508	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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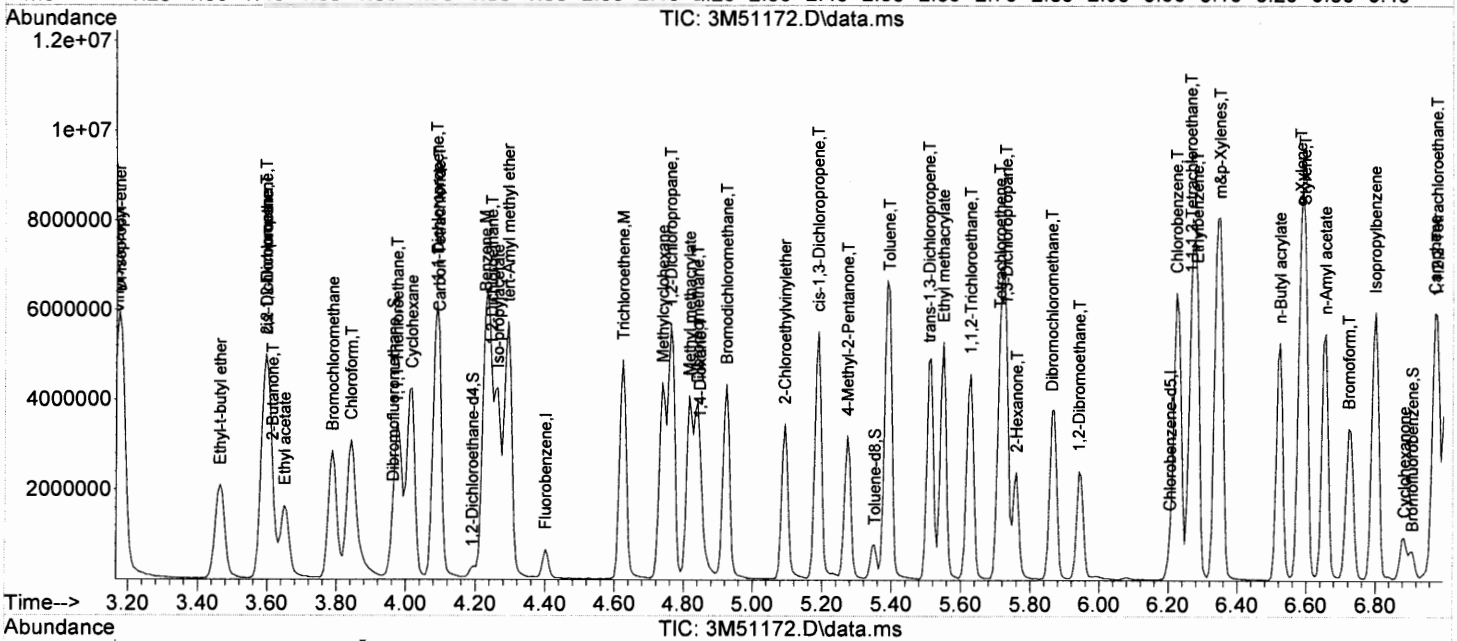
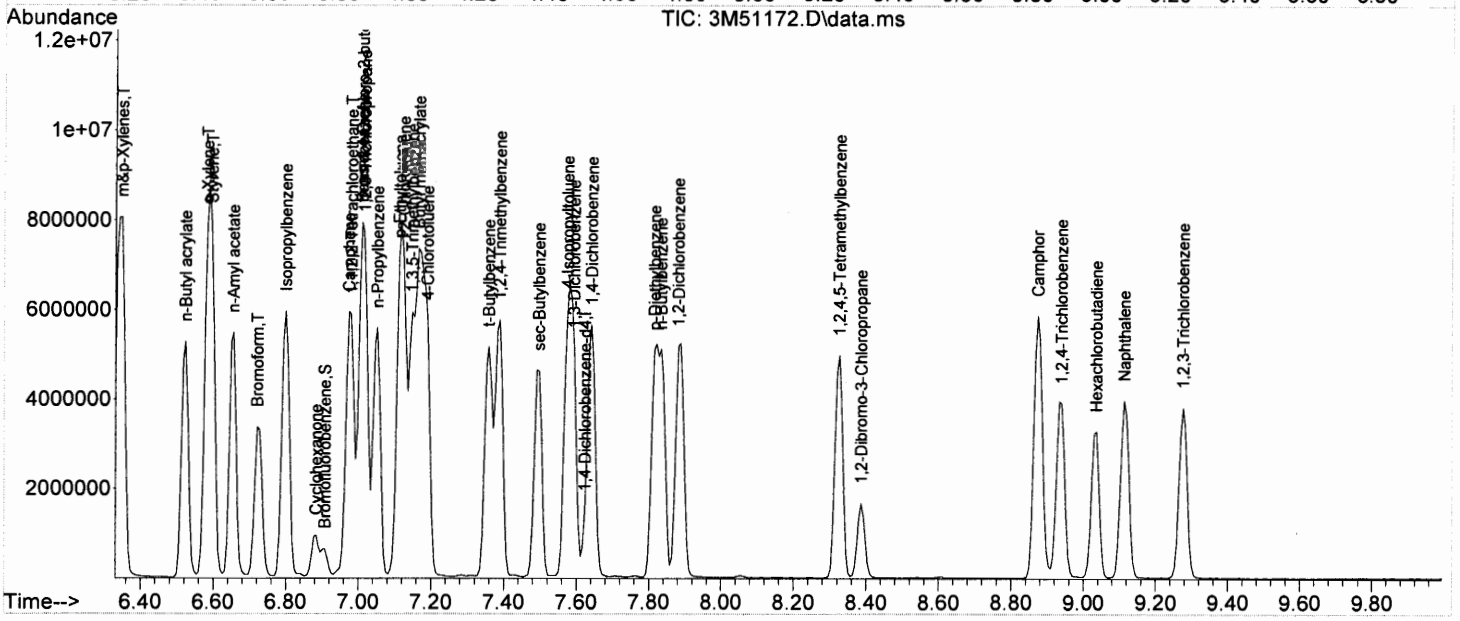
TIC: 3M51172.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 500 PPB
Data File: 3M51172.D
Acq On : 05/21/14 15:56
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/22/14 09:55
Qt Upd On: 05/21/14 14:38
Dichlorodifluoromethane
Chloromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
1,1,2-Trichloro-1,2,2-trifluoroethane
1,1-Dichloroethene,T
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Time-->


Abundance
TIC: 3M51172.D\data.ms
Ethyl-t-butyl ether
2-Butanone,T
Ethyl acetate
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Methylcyclohexane
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Time-->


Abundance
TIC: 3M51172.D\data.ms
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
n-Propylbenzene
t-Butylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB
Data File: 3M51160.D
Acq On : 05/21/14 12:38

Operator : WP
Sam Mult : 1 Vial# : 5
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:38
Qt Upd On: 05/21/14 14:38

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.400	96	312165	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.204	117	236798	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.622	152	130777	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.955	111	115704	28.91	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.37%			
39) 1,2-Dichloroethane-d4	4.190	67	61196	27.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.30%			
66) Toluene-d8	5.344	98	320415	31.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.37%			
76) Bromofluorobenzene	6.907	174	113140	23.82	ug/l	0.00
Spiked Amount 30.000			Recovery = 79.40%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.275	51	7441	1.1138	ug/l	52
6) Dichlorodifluoromethane	1.275	85	1750m	0.5442	ug/l	
7) Chloromethane	1.391	50	3594m	1.0068	ug/l	
8) Bromomethane	1.674	94	2528	1.5925	ug/l	76
9) Vinyl Chloride	1.458	62	1868	0.7613	ug/l	71
10) Chloroethane	1.740	64	1504	0.9858	ug/l	46
11) Trichlorofluoromethane	1.923	101	3114m	1.0756	ug/l	
12) Ethyl ether	2.110	59	1245m	0.9344	ug/l	
13) Furan	2.134	39	5517m	0.9149	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.254	101	2636m	1.4848	ug/l	
15) Methylene Chloride	2.615	84	4027m	1.4956	ug/l	
16) Acrolein	2.164	56	726m	5.0887	ug/l	
17) Acrylonitrile	2.813	53	1046m	1.2578	ug/l	
18) Iodomethane	2.387	142	5172	1.2728	ug/l	76
19) Acetone	2.320	43	4502m	4.6313	ug/l	
20) Carbon Disulfide	2.441	76	6655m	0.8705	ug/l	
21) t-Butyl Alcohol	2.681	59	1789m	7.6914	ug/l	
22) n-Hexane	3.006	57	2041m	1.6519	ug/l	
23) Di-isopropyl-ether	3.168	45	12084	1.0191	ug/l	73
24) 1,1-Dichloroethene	2.284	61	4547m	1.1283	ug/l	
25) Methyl Acetate	2.543	43	3835m	1.1822	ug/l	
26) Methyl-t-butyl ether	2.819	73	6953	0.9603	ug/l	68
27) 1,1-Dichloroethane	3.132	63	7215	1.3782	ug/l	59
28) trans-1,2-Dichloroethene	2.819	96	2448	1.0735	ug/l	71
29) Ethyl-t-butyl ether	3.469	59	4166	0.4172	ug/l	61
30) cis-1,2-Dichloroethene	3.595	61	3922	0.8241	ug/l	64
31) Bromochloromethane	3.787	49	3741m	1.2277	ug/l	
32) 2,2-Dichloropropane	3.589	77	3096	1.1563	ug/l	65
33) Ethyl acetate	3.649	43	3733m	1.1083	ug/l	
34) 1,4-Dioxane	4.839	88	1483m	53.9389	ug/l	
35) 1,1-Dichloropropene	4.094	75	3932	1.0769	ug/l	67
36) Chloroform	3.835	83	5127	0.9872	ug/l	54
38) Cyclohexane	4.022	56	3687	1.0251	ug/l	78
40) 1,2-Dichloroethane	4.244	62	2589	0.5589	ug/l	46
41) 2-Butanone	3.607	43	690	0.5473	ug/l	56
42) 1,1,1-Trichloroethane	3.967	97	4500	1.0138	ug/l	99
43) Carbon Tetrachloride	4.088	117	1599m	0.4484	ug/l	
44) Vinyl Acetate	3.174	43	6008	0.7370	ug/l	100
45) Bromodichloromethane	4.923	83	4204m	0.9499	ug/l	
46) Methylcyclohexane	4.737	83	2213	1.0305	ug/l	89
47) Dibromomethane	4.845	174	2092m	0.5844	ug/l	
48) 1,2-Dichloropropane	4.767	63	2969	0.8990	ug/l	53
49) Trichloroethene	4.629	130	3467	1.0841	ug/l	83
50) Benzene	4.226	78	9660	0.9850	ug/l	100
51) tert-Amyl methyl ether	4.292	73	8376	1.0154	ug/l	69
53) Iso-propylacetate	4.262	43	4300	0.6361	ug/l	83
54) Methyl methacrylate	4.827	41	3028m	0.9652	ug/l	
55) Dibromochloromethane	5.867	129	3247	0.9725	ug/l	66
56) 2-Chloroethylvinylether	5.098	63	1227m	0.6944	ug/l	
57) cis-1,3-Dichloropropene	5.188	75	3775	0.9319	ug/l	38
58) trans-1,3-Dichloropropene	5.524	75	2775m	0.8380	ug/l	
59) Ethyl methacrylate	5.554	41	2933m	0.9070	ug/l	
60) 1,1,2-Trichloroethane	5.627	97	3877m	1.6132	ug/l	
61) 1,2-Dibromoethane	5.957	107	2185m	0.8312	ug/l	
62) 1,3-Dichloropropane	5.723	76	4699m	1.0673	ug/l	
63) 4-Methyl-2-Pentanone	5.272	43	3287m	0.8672	ug/l	
64) 2-Hexanone	5.825	43	2362m	1.1273	ug/l	
65) Tetrachloroethene	5.717	164	2434	0.9263	ug/l	74
67) Toluene	5.386	92	7343	1.2494	ug/l	72

Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB
Data File: 3M51160.D
Acq On : 05/21/14 12:38

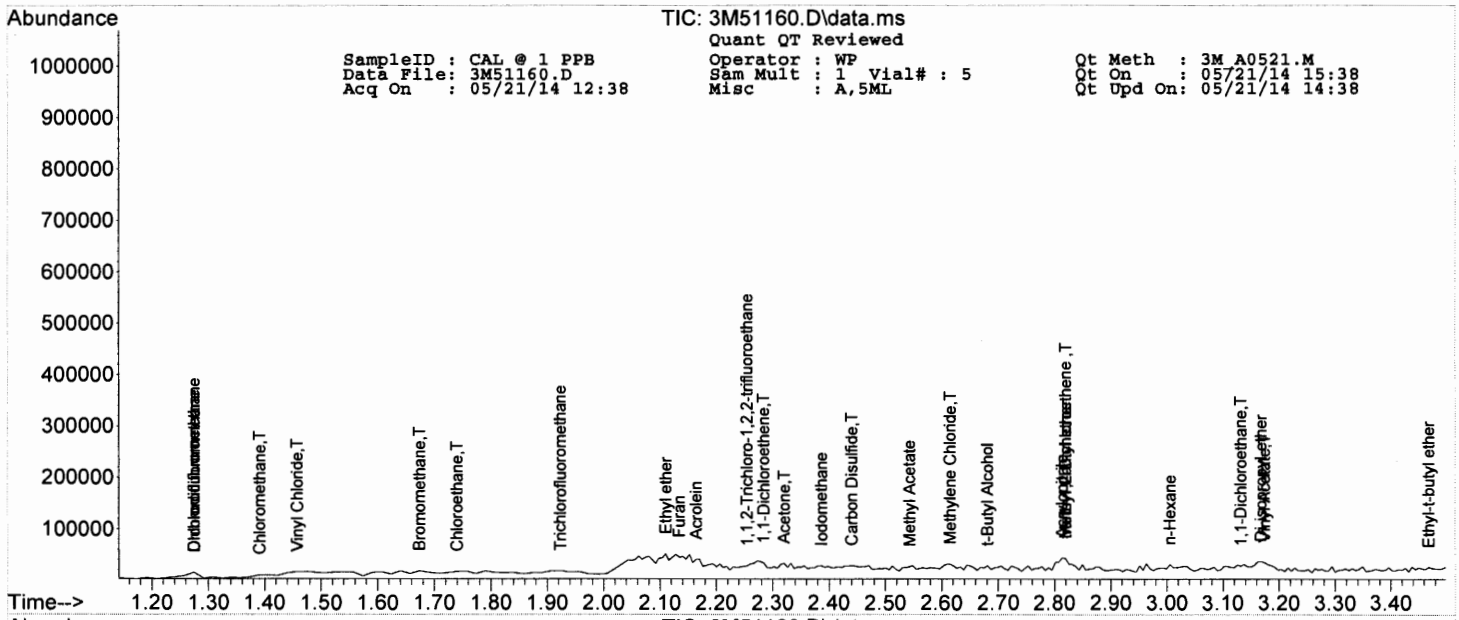
Operator : WP
Sam Mult : 1 Vial# : 5
Misc : A,5ML

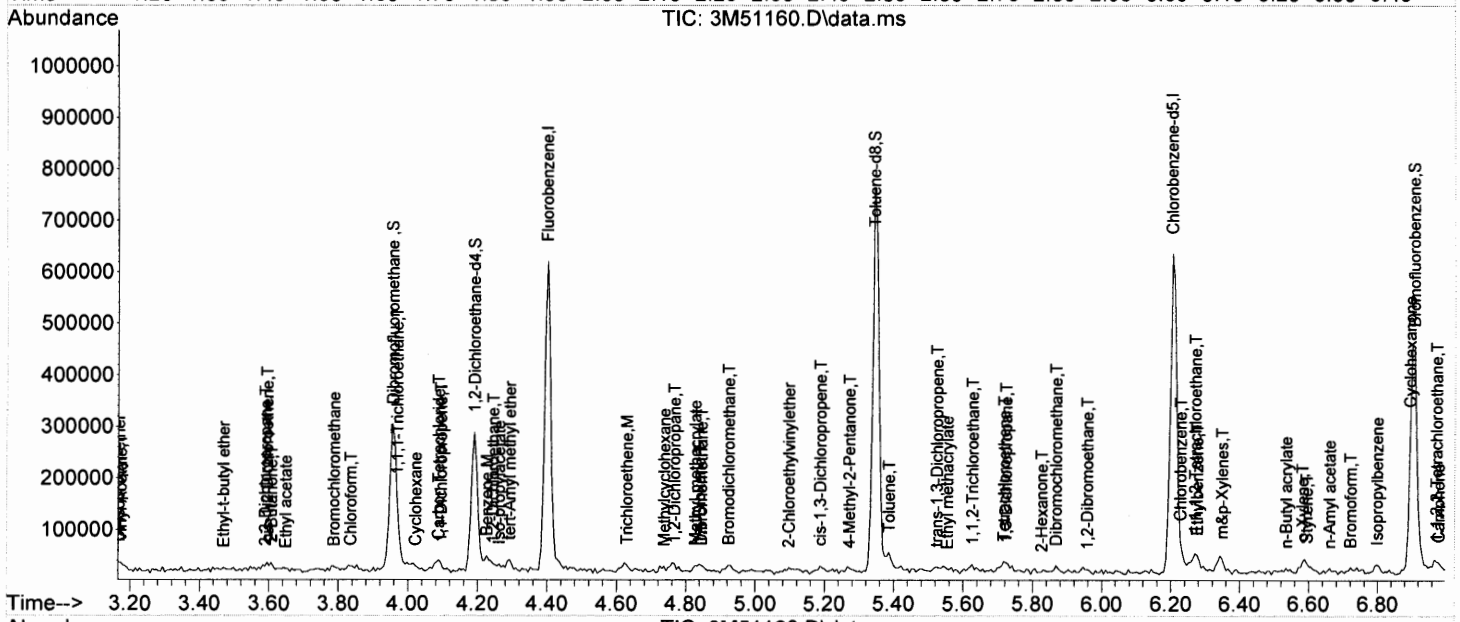
Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:38
Qt Upd On: 05/21/14 14:38

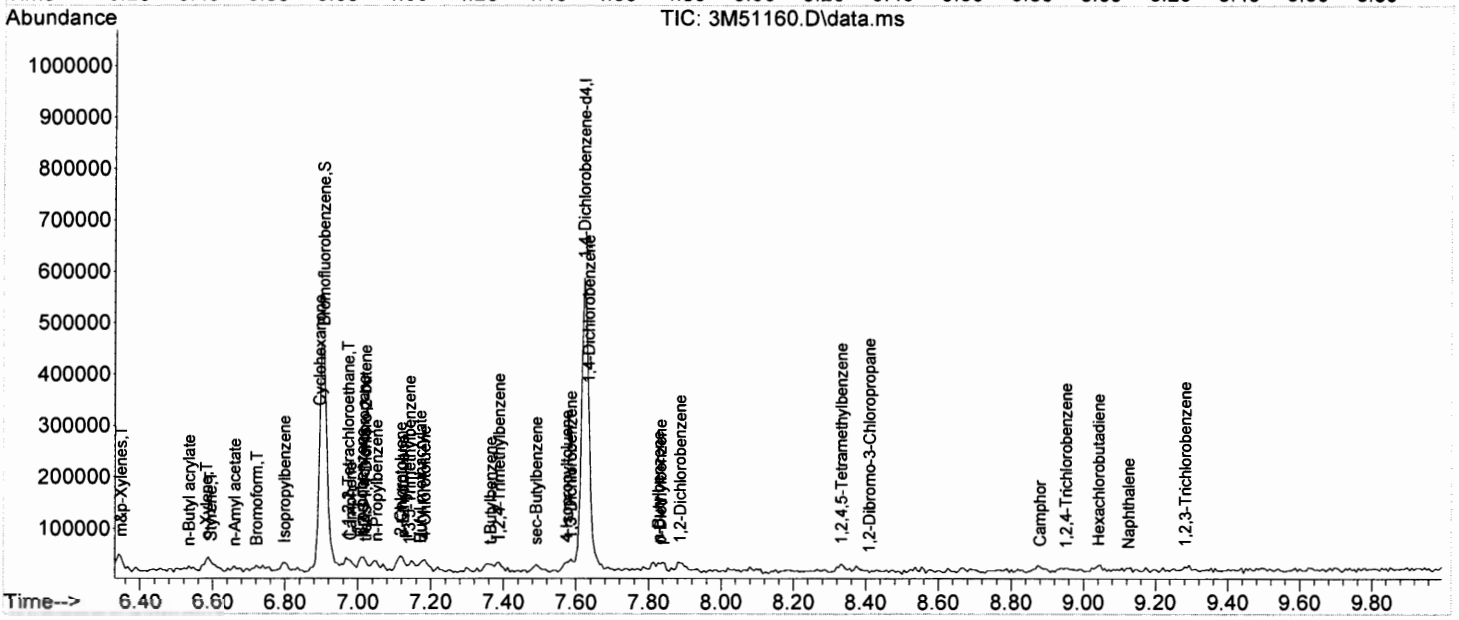
Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.270	133	2430	0.8506	ug/l	80
69) Chlorobenzene	6.228	112	8213	1.3056	ug/l	97
71) n-Butyl acrylate	6.534	55	3183m	0.6001	ug/l	
72) n-Amyl acetate	6.660	43	4223m	0.7840	ug/l	
73) Bromoform	6.721	173	2261	0.7561	ug/l	50
74) Ethylbenzene	6.276	106	3854m	1.7188	ug/l	
75) 1,1,2,2-Tetrachloroethane	6.973	83	3669m	1.5402	ug/l	
77) Styrene	6.594	104	6279	1.1988	ug/l	49
78) m&p-Xylenes	6.348	106	5937	2.0718	ug/l	71
79) o-Xylene	6.582	106	3776	1.1971	ug/l	61
80) trans-1,4-Dichloro-2-b...	7.021	53	513m	0.8585	ug/l	
81) 1,3-Dichlorobenzene	7.586	146	6234m	1.5036	ug/l	
82) 1,4-Dichlorobenzene	7.634	146	5449	1.2439	ug/l	76
83) 1,2-Dichlorobenzene	7.887	146	5653	1.2832	ug/l	91
84) Isopropylbenzene	6.799	105	8049	1.1373	ug/l	94
85) Cyclohexanone	6.895	55	2079m	15.6617	ug/l	
86) Camphene	6.979	93	2521m	1.3370	ug/l	
87) 1,2,3-Trichloropropane	7.015	75	4329	1.4037	ug/l	94
88) 2-Chlorotoluene	7.117	91	6129m	1.3126	ug/l	
89) p-Ethyltoluene	7.123	105	6360m	0.9479	ug/l	
90) 4-Chlorotoluene	7.183	91	5218	1.1100	ug/l	90
91) n-Propylbenzene	7.051	91	9054	1.1688	ug/l	96
92) Bromobenzene	7.009	77	6896m	1.2757	ug/l	
93) 1,3,5-Trimethylbenzene	7.141	105	7543	1.3486	ug/l	85
94) Butyl methacrylate	7.171	41	2931	0.6867	ug/l	77
95) t-Butylbenzene	7.364	119	6158	1.2320	ug/l	90
96) 1,2,4-Trimethylbenzene	7.388	105	7321	1.1894	ug/l	77
97) sec-Butylbenzene	7.490	105	5283	0.9443	ug/l	93
98) 4-Isopropyltoluene	7.574	119	5000m	1.0476	ug/l	
99) n-Butylbenzene	7.827	91	4452m	0.8552	ug/l	
100) p-Diethylbenzene	7.833	119	2752m	0.8561	ug/l	
101) 1,2,4,5-Tetramethylben...	8.332	119	4533	0.8276	ug/l	88
102) 1,2-Dibromo-3-Chloropr...	8.410	157	658	0.8775	ug/l	36
103) Camphor	8.879	95	1503m	5.4033	ug/l	
104) Hexachlorobutadiene	9.041	225	2114	0.9019	ug/l	79
105) 1,2,4-Trichlorobenzene	8.951	180	3998m	1.3389	ug/l	
106) 1,2,3-Trichlorobenzene	9.281	180	3171m	1.0566	ug/l	
107) Naphthalene	9.125	128	4275m	0.8651	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M51160.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 1 PPB
Data File: 3M51160.D
Acq On : 05/21/14 12:38
Operator : WP
Sam Mult : 1 Vial# : 5
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:38
Qt Upd On: 05/21/14 14:38
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
1,1,2-Trichloro-1,2,2-trifluoroethane
1,1-Dichloroethene,T
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Time-->


Abundance
TIC: 3M51160.D\data.ms
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Methylcyclohexane
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Time-->


Abundance
TIC: 3M51160.D\data.ms
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
n-Propylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB
Data File: 3M51159.D
Acq On : 05/21/14 12:22

Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:49
Qt Upd On: 05/21/14 14:38

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.401	96	299796	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.204	117	222161	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.623	152	130354	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.956	111	118001	30.70	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.33%			
39) 1,2-Dichloroethane-d4	4.191	67	63207	29.46	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.20%			
66) Toluene-d8	5.345	98	286293	29.82	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.40%			
76) Bromofluorobenzene	6.908	174	111061	23.46	ug/l	0.00
Spiked Amount 30.000			Recovery = 78.20%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	0.000		0	N.D.	d	
6) Dichlorodifluoromethane	0.000		0	N.D.	d	
7) Chloromethane	0.000		0	N.D.	d	
8) Bromomethane	0.000		0	N.D.	d	
9) Vinyl Chloride	0.000		0	N.D.	d	
10) Chloroethane	0.000		0	N.D.	d	
11) Trichlorofluoromethane	0.000		0	N.D.	d	
12) Ethyl ether	0.000		0	N.D.	d	
13) Furan	0.000		0	N.D.	d	
14) 1,1,2-Trichloro-1,2,2-...	0.000		0	N.D.	d	
15) Methylene Chloride	0.000		0	N.D.	d	
16) Acrolein	0.000		0	N.D.	d	
17) Acrylonitrile	0.000		0	N.D.	d	
18) Iodomethane	0.000		0	N.D.	d	
19) Acetone	0.000		0	N.D.	d	
20) Carbon Disulfide	0.000		0	N.D.	d	
21) t-Butyl Alcohol	0.000		0	N.D.	d	
22) n-Hexane	0.000		0	N.D.	d	
23) Di-isopropyl-ether	0.000		0	N.D.	d	
24) 1,1-Dichloroethene	0.000		0	N.D.	d	
25) Methyl Acetate	0.000		0	N.D.	d	
26) Methyl-t-butyl ether	2.814	73	4243	0.6102	ug/l #	37
27) 1,1-Dichloroethane	0.000		0	N.D.	d	
28) trans-1,2-Dichloroethene	0.000		0	N.D.	d	
29) Ethyl-t-butyl ether	0.000		0	N.D.	d	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	d	
31) Bromochloromethane	0.000		0	N.D.	d	
32) 2,2-Dichloropropane	0.000		0	N.D.	d	
33) Ethyl acetate	0.000		0	N.D.	d	
34) 1,4-Dioxane	0.000		0	N.D.	d	
35) 1,1-Dichloropropene	0.000		0	N.D.	d	
36) Chloroform	0.000		0	N.D.	d	
38) Cyclohexane	0.000		0	N.D.	d	
40) 1,2-Dichloroethane	4.239	62	2284	0.5134	ug/l	79
41) 2-Butanone	0.000		0	N.D.	d	
42) 1,1,1-Trichloroethane	0.000		0	N.D.	d	
43) Carbon Tetrachloride	0.000		0	N.D.	d	
44) Vinyl Acetate	0.000		0	N.D.	d	
45) Bromodichloromethane	0.000		0	N.D.	d	
46) Methylcyclohexane	0.000		0	N.D.	d	
47) Dibromomethane	0.000		0	N.D.	d	
48) 1,2-Dichloropropane	0.000		0	N.D.	d	
49) Trichloroethene	0.000		0	N.D.	d	
50) Benzene	4.233	78	4894	0.5196	ug/l	100
51) tert-Amyl methyl ether	0.000		0	N.D.	d	
53) Iso-propylacetate	0.000		0	N.D.	d	
54) Methyl methacrylate	0.000		0	N.D.	d	
55) Dibromochloromethane	0.000		0	N.D.	d	
56) 2-Chloroethylvinylether	0.000		0	N.D.	d	
57) cis-1,3-Dichloropropene	0.000		0	N.D.	d	
58) trans-1,3-Dichloropropene	0.000		0	N.D.	d	
59) Ethyl methacrylate	0.000		0	N.D.	d	
60) 1,1,2-Trichloroethane	0.000		0	N.D.	d	
61) 1,2-Dibromoethane	0.000		0	N.D.	d	
62) 1,3-Dichloropropane	0.000		0	N.D.	d	
63) 4-Methyl-2-Pentanone	0.000		0	N.D.	d	
64) 2-Hexanone	0.000		0	N.D.	d	
65) Tetrachloroethene	0.000		0	N.D.	d	
67) Toluene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB
Data File: 3M51159.D
Acq On : 05/21/14 12:22

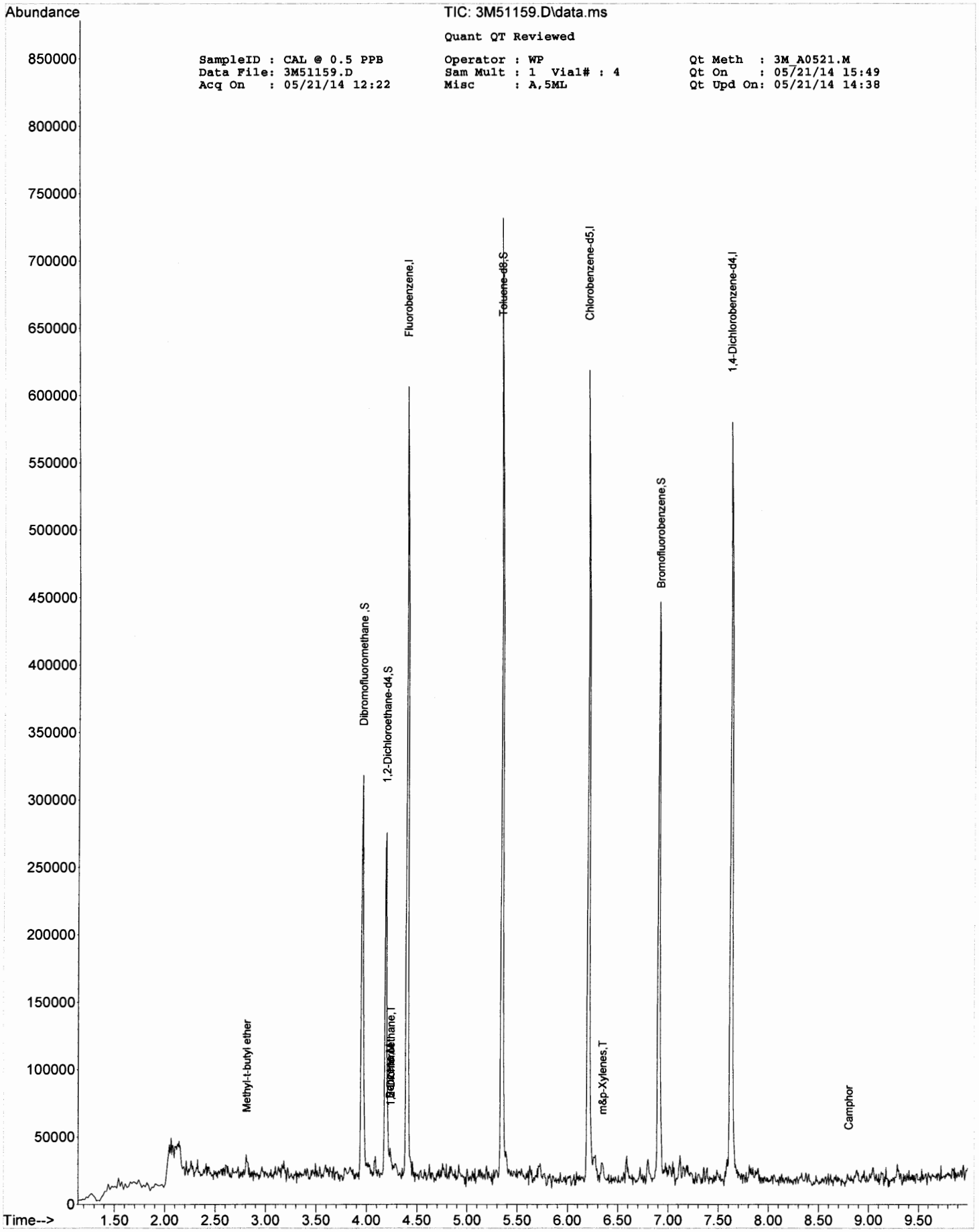
Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:49
Qt Upd On: 05/21/14 14:38

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	0.000		0	N.D. d		
69)	Chlorobenzene	0.000		0	N.D. d		
71)	n-Butyl acrylate	0.000		0	N.D. d		
72)	n-Amyl acetate	0.000		0	N.D. d		
73)	Bromoform	0.000		0	N.D. d		
74)	Ethylbenzene	0.000		0	N.D. d		
75)	1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
77)	Styrene	0.000		0	N.D. d		
78)	m&p-Xylenes	6.349	106	4511	1.5793	ug/l	66
79)	o-Xylene	0.000		0	N.D. d		
80)	trans-1,4-Dichloro-2-b...	0.000		0	N.D. d		
81)	1,3-Dichlorobenzene	0.000		0	N.D. d		
82)	1,4-Dichlorobenzene	0.000		0	N.D. d		
83)	1,2-Dichlorobenzene	0.000		0	N.D. d		
84)	Isopropylbenzene	0.000		0	N.D. d		
85)	Cyclohexanone	0.000		0	N.D. d		
86)	Camphene	0.000		0	N.D. d		
87)	1,2,3-Trichloropropane	0.000		0	N.D. d		
88)	2-Chlorotoluene	0.000		0	N.D. d		
89)	p-Ethyltoluene	0.000		0	N.D. d		
90)	4-Chlorotoluene	0.000		0	N.D. d		
91)	n-Propylbenzene	0.000		0	N.D. d		
92)	Bromobenzene	0.000		0	N.D. d		
93)	1,3,5-Trimethylbenzene	0.000		0	N.D. d		
94)	Butyl methacrylate	0.000		0	N.D. d		
95)	t-Butylbenzene	0.000		0	N.D. d		
96)	1,2,4-Trimethylbenzene	0.000		0	N.D. d		
97)	sec-Butylbenzene	0.000		0	N.D. d		
98)	4-Isopropyltoluene	0.000		0	N.D. d		
99)	n-Butylbenzene	0.000		0	N.D. d		
100)	p-Diethylbenzene	0.000		0	N.D. d		
101)	1,2,4,5-Tetramethylben...	0.000		0	N.D. d		
102)	1,2-Dibromo-3-Chloropr...	0.000		0	N.D. d		
103)	Camphor	8.801	95	218	0.7863	ug/l	79
104)	Hexachlorobutadiene	0.000		0	N.D. d		
105)	1,2,4-Trichlorobenzene	0.000		0	N.D. d		
106)	1,2,3-Trichlorobenzene	0.000		0	N.D. d		
107)	Naphthalene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M51159.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 0.5 PPB
Data File: 3M51159.D
Acq On : 05/21/14 12:22
Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/21/14 15:49
Qt Upd On: 05/21/14 14:38
Methyl-t-butyl ether
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
m&p-Xylenes,T
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Camphor
Time-->

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M51187.D **Instrument:** GCMS 3

Cont Calibration Date/Time 5/22/2014 9:52:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.40	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.28	24.85	20	20	0.1	0.606	0.753	24.26	C1
Dichlorodifluoromethane	1	0		1.28	24.30	20	20		0.268	0.325	21.50	C1
Chloromethane	1	0		1.39	20.16	20	20	0.1	0.310	0.312	0.80	
Bromomethane	1	0		1.67	23.11	20	20	0.1	0.147	0.155	15.55	
Vinyl Chloride	1	0		1.46	25.24	20	20	0.1	0.215	0.271	26.18	C1
Chloroethane	1	0		1.74	27.41	20	20	0.1	0.123	0.169	37.06	C1
Trichlorofluoromethane	1	0		1.92	22.09	20	20	0.1	0.245	0.270	10.44	
Ethyl ether	1	0		2.12	21.99	20	20		0.113	0.124	9.93	
Furan	1	0		2.14	23.78	20	20		0.461	0.548	18.91	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.27	26.58	20	20	0.1	0.191	0.253	32.92	C1
Methylene Chloride	1	0		2.62	19.03	20	20	0.1	0.277	0.263	4.86	
Acrolein	1	0		2.21	111.44	100	20		0.032	0.042	11.44	
Acrylonitrile	1	0		2.81	22.42	20	20		0.088	0.098	12.11	
Iodomethane	1	0		2.39	21.96	20	20		0.414	0.455	9.82	
Acetone	1	0		2.32	111.51	100	20	0.1	0.087	0.097	11.51	
Carbon Disulfide	1	0		2.44	21.45	20	20	0.1	0.631	0.677	7.26	
t-Butyl Alcohol	1	0		2.70	84.38	100	20		0.021	0.019	15.62	
n-Hexane	1	0		3.01	31.32	20	20		0.162	0.254	56.61	C1
Di-isopropyl-ether	1	0		3.17	24.02	20	20		1.097	1.317	20.08	
1,1-Dichloroethene	1	0		2.28	23.26	20	20	0.1	0.390	0.454	16.29	
Methyl Acetate	1	0		2.54	18.55	20	20	0.1	0.334	0.310	7.25	
Methyl-t-butyl ether	1	0		2.81	21.04	20	20	0.1	0.623	0.656	5.20	
1,1-Dichloroethane	1	0		3.14	21.31	20	20	0.2	0.512	0.546	6.55	
trans-1,2-Dichloroethene	1	0		2.81	23.71	20	20	0.1	0.214	0.254	18.56	
Ethyl-t-butyl ether	1	0		3.46	20.93	20	20		0.345	0.361	4.64	
cis-1,2-Dichloroethene	1	0		3.60	22.98	20	20	0.1	0.457	0.525	14.89	
Bromochloromethane	1	0		3.79	20.21	20	20		0.292	0.295	1.07	
2,2-Dichloropropane	1	0		3.60	27.59	20	20		0.265	0.365	37.96	C1
Ethyl acetate	1	0		3.65	20.81	20	20		0.323	0.336	4.04	
1,4-Dioxane	1	0		4.84	1037.35	1000	20		0.003	0.003	3.73	
1,1-Dichloropropene	1	0		4.09	23.92	20	20		0.318	0.380	19.60	
Chloroform	1	0		3.84	21.16	20	20	0.2	0.466	0.493	5.80	
Dibromofluoromethane	1	0	S	3.96	31.13	30	**		0.363	0.377	3.78	
Cyclohexane	1	0		4.01	25.29	20	20	0.1	0.325	0.411	26.44	C1
1,2-Dichloroethane-d4	1	0	S	4.19	30.26	30	**		0.205	0.207	0.87	
1,2-Dichloroethane	1	0		4.24	22.92	20	20	0.1	0.384	0.439	14.58	
2-Butanone	1	0		3.61	18.76	20	20	0.1	0.116	0.131	6.22	
1,1,1-Trichloroethane	1	0		3.97	21.24	20	20	0.1	0.369	0.392	6.19	
Carbon Tetrachloride	1	0		4.09	24.80	20	20	0.1	0.258	0.320	23.99	C1
Vinyl Acetate	1	0		3.17	25.06	20	20		0.754	0.945	25.31	C1
Bromodichloromethane	1	0		4.92	21.57	20	20	0.2	0.384	0.414	7.85	
Methylcyclohexane	1	0		4.74	25.88	20	20	0.1	0.205	0.266	29.42	C1
Dibromomethane	1	0		4.84	23.89	20	20		0.256	0.306	19.44	
1,2-Dichloropropane	1	0		4.76	21.11	20	20	0.1	0.318	0.336	5.54	
Trichloroethene	1	0		4.62	21.32	20	20	0.2	0.280	0.299	6.59	
Benzene	1	0		4.23	24.04	20	20	0.5	0.902	1.084	20.18	
tert-Amyl methyl ether	1	0		4.29	21.55	20	20		0.671	0.722	7.74	
Chlorobenzene-d5	1	0	I	6.20	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.26	21.32	20	20		0.726	0.773	6.59	
Methyl methacrylate	1	0		4.82	19.80	20	20		0.360	0.357	1.01	
Dibromochloromethane	1	0		5.87	20.79	20	20	0.1	0.383	0.399	3.94	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M51187.D **Instrument:** GCMS 3

Cont Calibration Date/Time 5/22/2014 9:52:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.09	20.86	20	20		0.208	0.216	4.30	
cis-1,3-Dichloropropene	1	0		5.19	21.93	20	20	0.2	0.490	0.537	9.63	
trans-1,3-Dichloropropene	1	0		5.51	20.59	20	20	0.1	0.405	0.417	2.94	
Ethyl methacrylate	1	0		5.54	22.42	20	20		0.364	0.408	12.10	
1,1,2-Trichloroethane	1	0		5.62	19.91	20	20	0.1	0.324	0.314	0.46	
1,2-Dibromoethane	1	0		5.94	20.84	20	20	0.1	0.330	0.344	4.20	
1,3-Dichloropropane	1	0		5.72	21.17	20	20		0.538	0.569	5.86	
4-Methyl-2-Pentanone	1	0		5.27	20.53	20	20	0.1	0.404	0.414	2.67	
2-Hexanone	1	0		5.76	17.58	20	20	0.1	0.272	0.239	12.08	
Tetrachloroethene	1	0		5.71	24.73	20	20	0.2	0.289	0.357	23.66	C1
Toluene-d8	1	0	S	5.34	30.18	30	**		1.295	1.303	0.59	
Toluene	1	0		5.39	21.25	20	20	0.4	0.733	0.779	6.23	
1,1,1,2-Tetrachloroethane	1	0		6.26	22.29	20	20		0.324	0.361	11.47	
Chlorobenzene	1	0		6.22	21.75	20	20	0.5	0.818	0.889	8.77	
1,4-Dichlorobenzene-d4	1	0	I	7.62	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.52	17.22	20	20		1.110	1.171	13.92	
n-Amyl acetate	1	0		6.66	20.64	20	20		1.136	1.173	3.22	
Bromoform	1	0		6.72	18.47	20	20	0.1	0.547	0.505	7.63	
Ethylbenzene	1	0		6.28	21.70	20	20	0.1	0.563	0.552	8.49	
1,1,2,2-Tetrachloroethane	1	0		6.97	18.93	20	20	0.1	0.669	0.634	5.34	
Bromofluorobenzene	1	0	S	6.91	26.74	30	**		0.897	0.799	10.86	
Styrene	1	0		6.59	20.89	20	20	0.3	1.287	1.344	4.43	
m&p-Xylenes	1	0		6.34	46.99	40	20	0.1	0.726	0.820	17.47	
o-Xylene	1	0		6.58	21.72	20	20	0.3	0.762	0.803	8.61	
trans-1,4-Dichloro-2-butene	1	0		7.00	17.75	20	20		0.163	0.189	11.23	
1,3-Dichlorobenzene	1	0		7.59	20.01	20	20	0.6	1.027	1.012	0.07	
1,4-Dichlorobenzene	1	0		7.64	19.52	20	20	0.5	1.035	1.010	2.39	
1,2-Dichlorobenzene	1	0		7.89	19.72	20	20	0.4	1.075	1.060	1.40	
Isopropylbenzene	1	0		6.80	19.81	20	20		1.729	1.713	0.95	
Cyclohexanone	1	0		6.88	84.12	100	20		0.025	0.023	15.88	
Camphene	1	0		6.97	19.95	20	20		0.407	0.406	0.24	
1,2,3-Trichloropropane	1	0		7.02	19.00	20	20		0.768	0.729	4.99	
2-Chlorotoluene	1	0		7.12	21.02	20	20		1.142	1.206	5.08	
p-Ethyltoluene	1	0		7.11	22.61	20	20		1.564	1.768	13.03	
4-Chlorotoluene	1	0		7.18	20.73	20	20		1.113	1.153	3.63	
n-Propylbenzene	1	0		7.05	21.18	20	20		1.900	2.012	5.88	
Bromobenzene	1	0		7.01	19.06	20	20		1.323	1.261	4.69	
1,3,5-Trimethylbenzene	1	0		7.15	21.99	20	20		1.324	1.456	9.97	
Butyl methacrylate	1	0		7.17	20.70	20	20		0.932	0.964	3.51	
t-Butylbenzene	1	0		7.36	20.89	20	20		1.207	1.260	4.43	
1,2,4-Trimethylbenzene	1	0		7.39	20.38	20	20		1.469	1.497	1.91	
sec-Butylbenzene	1	0		7.50	22.43	20	20		1.305	1.463	12.16	
4-Isopropyltoluene	1	0		7.58	23.15	20	20		1.074	1.244	15.77	
n-Butylbenzene	1	0		7.84	23.70	20	20		1.166	1.382	18.49	
p-Diethylbenzene	1	0		7.82	22.15	20	20		0.686	0.759	10.74	
1,2,4,5-Tetramethylbenzene	1	0		8.33	22.14	20	20		1.108	1.227	10.71	
1,2-Dibromo-3-Chloropropane	1	0		8.40	15.27	20	20	0.05	0.153	0.117	23.65	C1
Camphor	1	0		8.89	173.43	200	20		0.046	0.052	13.28	
Hexachlorobutadiene	1	0		9.04	20.82	20	20		0.342	0.356	4.12	
1,2,4-Trichlorobenzene	1	0		8.95	17.64	20	20	0.2	0.616	0.544	11.81	
1,2,3-Trichlorobenzene	1	0		9.29	18.89	20	20		0.556	0.525	5.55	
Naphthalene	1	0		9.13	17.92	20	20		1.191	1.068	10.38	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB
Data File: 3M51187.D
Acq On : 05/22/14 09:52

Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/22/14 10:11
Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-22-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.401	96	289851	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.205	117	239823	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.623	152	148988	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.956	111	109129	31.13	ug/l	0.00
Spiked Amount 30.000			Recovery	=	103.77%	
39) 1,2-Dichloroethane-d4	4.191	67	59950	30.26	ug/l	0.00
Spiked Amount 30.000			Recovery	=	100.87%	
66) Toluene-d8	5.345	98	312495	30.18	ug/l	0.00
Spiked Amount 30.000			Recovery	=	100.60%	
76) Bromofluorobenzene	6.908	174	119115	26.74	ug/l	0.00
Spiked Amount 30.000			Recovery	=	89.13%	
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.275	51	145462	24.8520	ug/l	78
6) Dichlorodifluoromethane	1.275	85	62865	24.3007	ug/l	94
7) Chloromethane	1.392	50	60344	20.1605	ug/l	76
8) Bromomethane	1.674	94	29869	23.1092	ug/l	93
9) Vinyl Chloride	1.458	62	52331	25.2366	ug/l	84
10) Chloroethane	1.741	64	32645	27.4115	ug/l	96
11) Trichlorofluoromethane	1.924	101	52248m	22.0872	ug/l	
12) Ethyl ether	2.117	59	24019	21.9857	ug/l	95
13) Furan	2.141	39	105915m	23.7814	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.267	101	48934	26.5835	ug/l	96
15) Methylene Chloride	2.616	84	50893	19.0277	ug/l	91
16) Acrolein	2.213	56	40206m	111.4378	ug/l	
17) Acrylonitrile	2.814	53	18995	22.4212	ug/l	88
18) Iodomethane	2.394	142	87943	21.9641	ug/l	78
19) Acetone	2.315	43	93280m	111.5137	ug/l	
20) Carbon Disulfide	2.442	76	130860	21.4514	ug/l	100
21) t-Butyl Alcohol	2.700	59	18129	84.3838	ug/l	91
22) n-Hexane	3.007	57	49005	31.3229	ug/l	81
23) Di-isopropyl-ether	3.175	45	254561	24.0169	ug/l	89
24) 1,1-Dichloroethene	2.279	61	87641	23.2585	ug/l	99
25) Methyl Acetate	2.544	43	59932	18.5497	ug/l	100
26) Methyl-t-butyl ether	2.814	73	126688	21.0407	ug/l	68
27) 1,1-Dichloroethane	3.139	63	105416	21.3103	ug/l	94
28) trans-1,2-Dichloroethene	2.814	96	49094	23.7121	ug/l	91
29) Ethyl-t-butyl ether	3.463	59	69758	20.9276	ug/l	93
30) cis-1,2-Dichloroethene	3.596	61	101361m	22.9781	ug/l	
31) Bromochloromethane	3.788	49	57010	20.2147	ug/l	72
32) 2,2-Dichloropropane	3.602	77	70616	27.5914	ug/l	97
33) Ethyl acetate	3.650	43	64975	20.8084	ug/l	99
34) 1,4-Dioxane	4.840	88	26238	1037.3479	ug/l	62
35) 1,1-Dichloropropene	4.089	75	73475	23.9192	ug/l	95
36) Chloroform	3.842	83	95289	21.1609	ug/l	86
38) Cyclohexane	4.011	56	79485	25.2874	ug/l	85
40) 1,2-Dichloroethane	4.239	62	84916	22.9160	ug/l	100
41) 2-Butanone	3.614	43	25341	18.7559	ug/l	92
42) 1,1,1-Trichloroethane	3.974	97	75789	21.2375	ug/l	97
43) Carbon Tetrachloride	4.089	117	61904	24.7988	ug/l	98
44) Vinyl Acetate	3.175	43	182645	25.0629	ug/l	100
45) Bromodichloromethane	4.924	83	79975	21.5693	ug/l	85
46) Methylcyclohexane	4.738	83	51328	25.8842	ug/l	88
47) Dibromomethane	4.840	174	59109	23.8885	ug/l	82
48) 1,2-Dichloropropane	4.762	63	64932	21.1075	ug/l	94
49) Trichloroethene	4.624	130	57765	21.3183	ug/l	89
50) Benzene	4.227	78	209382	24.0355	ug/l	100
51) tert-Amyl methyl ether	4.287	73	139597	21.5472	ug/l	83
53) Iso-propylacetate	4.257	43	123665m	21.3178	ug/l	
54) Methyl methacrylate	4.816	41	57018	19.7972	ug/l	97
55) Dibromochloromethane	5.868	129	63725	20.7874	ug/l	100
56) 2-Chloroethylvinylether	5.093	63	34600	20.8592	ug/l	85
57) cis-1,3-Dichloropropene	5.189	75	85815	21.9263	ug/l	98
58) trans-1,3-Dichloropropene	5.507	75	66649	20.5881	ug/l	98
59) Ethyl methacrylate	5.543	41	65187	22.4208	ug/l	87
60) 1,1,2-Trichloroethane	5.622	97	50231	19.9081	ug/l	85
61) 1,2-Dibromoethane	5.940	107	54920	20.8410	ug/l	91
62) 1,3-Dichloropropane	5.724	76	91052	21.1726	ug/l	98
63) 4-Methyl-2-Pentanone	5.273	43	66268	20.5342	ug/l	91
64) 2-Hexanone	5.760	43	38196	17.5833	ug/l	83
65) Tetrachloroethene	5.712	164	57054	24.7317	ug/l	84
67) Toluene	5.387	92	124558	21.2450	ug/l	95

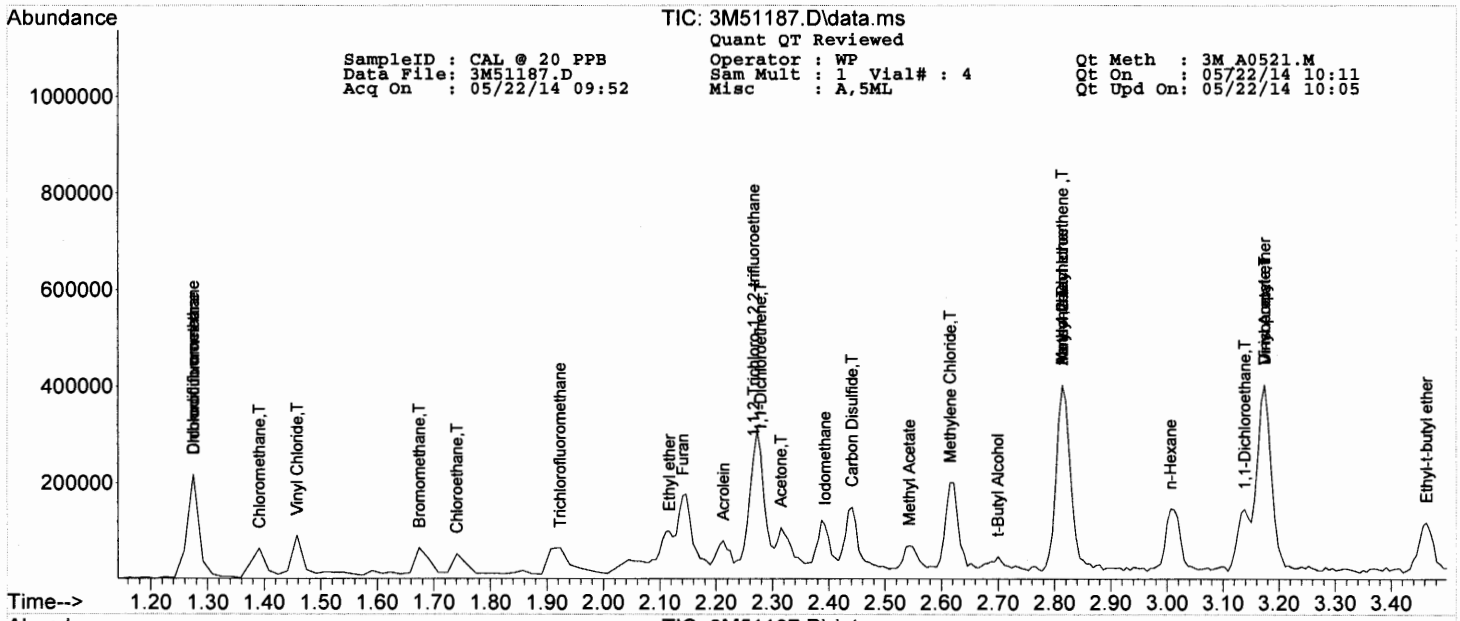
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB
Data File: 3M51187.D
Acq On : 05/22/14 09:52
Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/22/14 10:11
Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-22-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.265	133	57732	22.2938	ug/l	81
69)	Chlorobenzene	6.223	112	142200	21.7538	ug/l	94
71)	n-Butyl acrylate	6.523	55	116307	17.2164	ug/l	97
72)	n-Amyl acetate	6.655	43	116485	20.6432	ug/l	91
73)	Bromoform	6.722	173	50198	18.4736	ug/l	87
74)	Ethylbenzene	6.277	106	54832	21.6989	ug/l	86
75)	1,1,2,2-Tetrachloroethane	6.974	83	62925	18.9325	ug/l	95
77)	Styrene	6.589	104	133474	20.8867	ug/l	88
78)	m&p-Xylenes	6.343	106	162888	46.9874	ug/l	75
79)	o-Xylene	6.583	106	79733	21.7210	ug/l	71
80)	trans-1,4-Dichloro-2-b...	7.004	53	18731	17.7532	ug/l	84
81)	1,3-Dichlorobenzene	7.587	146	100495	20.0131	ug/l	86
82)	1,4-Dichlorobenzene	7.641	146	100325	19.5212	ug/l	95
83)	1,2-Dichlorobenzene	7.888	146	105271	19.7206	ug/l	89
84)	Isopropylbenzene	6.800	105	170133	19.8108	ug/l	91
85)	Cyclohexanone	6.878	55	11425	84.1244	ug/l	83
86)	Camphene	6.974	93	40359	19.9514	ug/l	90
87)	1,2,3-Trichloropropane	7.016	75	72428	19.0012	ug/l	93
88)	2-Chlorotoluene	7.118	91	119768	21.0164	ug/l	94
89)	p-Ethyltoluene	7.112	105	175610	22.6055	ug/l	85
90)	4-Chlorotoluene	7.184	91	114536	20.7268	ug/l	95
91)	n-Propylbenzene	7.046	91	199827	21.1751	ug/l	93
92)	Bromobenzene	7.010	77	125281	19.0616	ug/l	84
93)	1,3,5-Trimethylbenzene	7.148	105	144598	21.9942	ug/l	89
94)	Butyl methacrylate	7.166	41	95794	20.7020	ug/l	89
95)	t-Butylbenzene	7.359	119	125160	20.8859	ug/l	83
96)	1,2,4-Trimethylbenzene	7.389	105	148645	20.3811	ug/l	88
97)	sec-Butylbenzene	7.497	105	145338	22.4321	ug/l	95
98)	4-Isopropyltoluene	7.575	119	123553	23.1541	ug/l	90
99)	n-Butylbenzene	7.840	91	137218	23.6983	ug/l	91
100)	p-Diethylbenzene	7.822	119	75406	22.1472	ug/l	95
101)	1,2,4,5-Tetramethylben...	8.333	119	121889	22.1429	ug/l	85
102)	1,2-Dibromo-3-Chloropr...	8.399	157	11637	15.2694	ug/l	61
103)	Camphor	8.886	95	51848	173.4305	ug/l	92
104)	Hexachlorobutadiene	9.042	225	35354	20.8240	ug/l	92
105)	1,2,4-Trichlorobenzene	8.952	180	53989	17.6372	ug/l	89
106)	1,2,3-Trichlorobenzene	9.294	180	52117	18.8901	ug/l	94
107)	Naphthalene	9.132	128	106031	17.9243	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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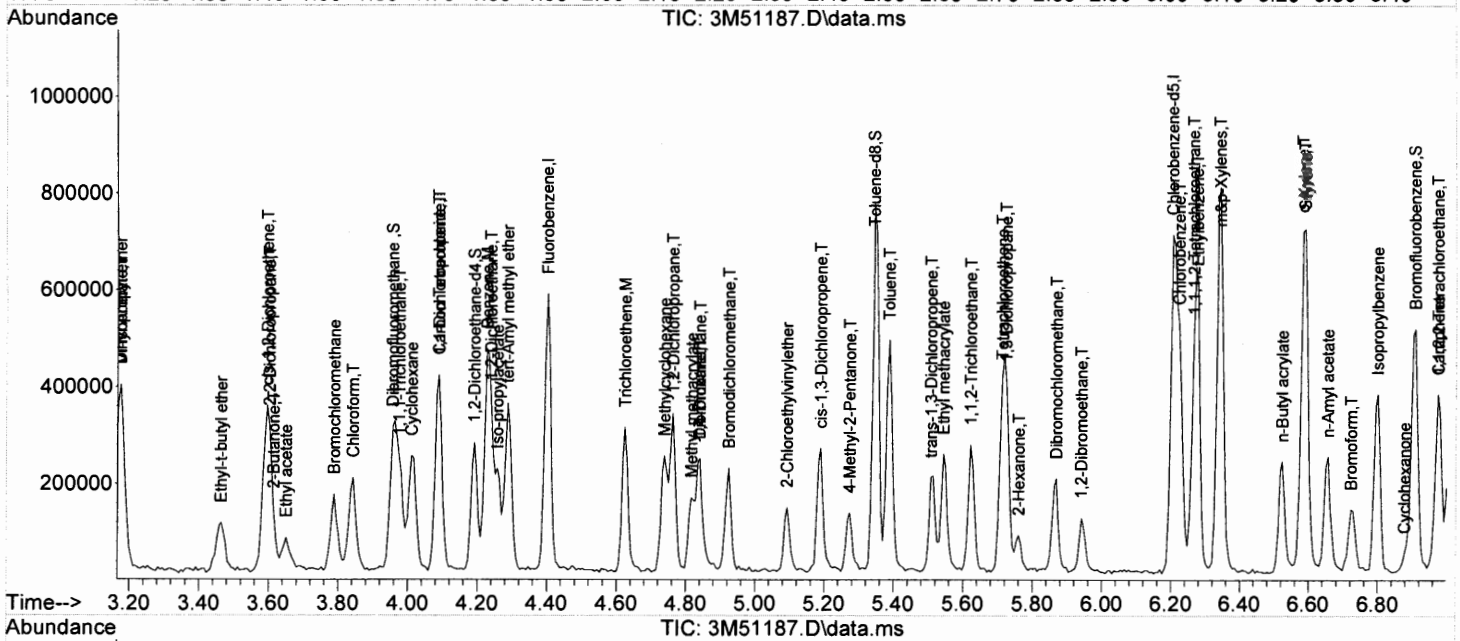
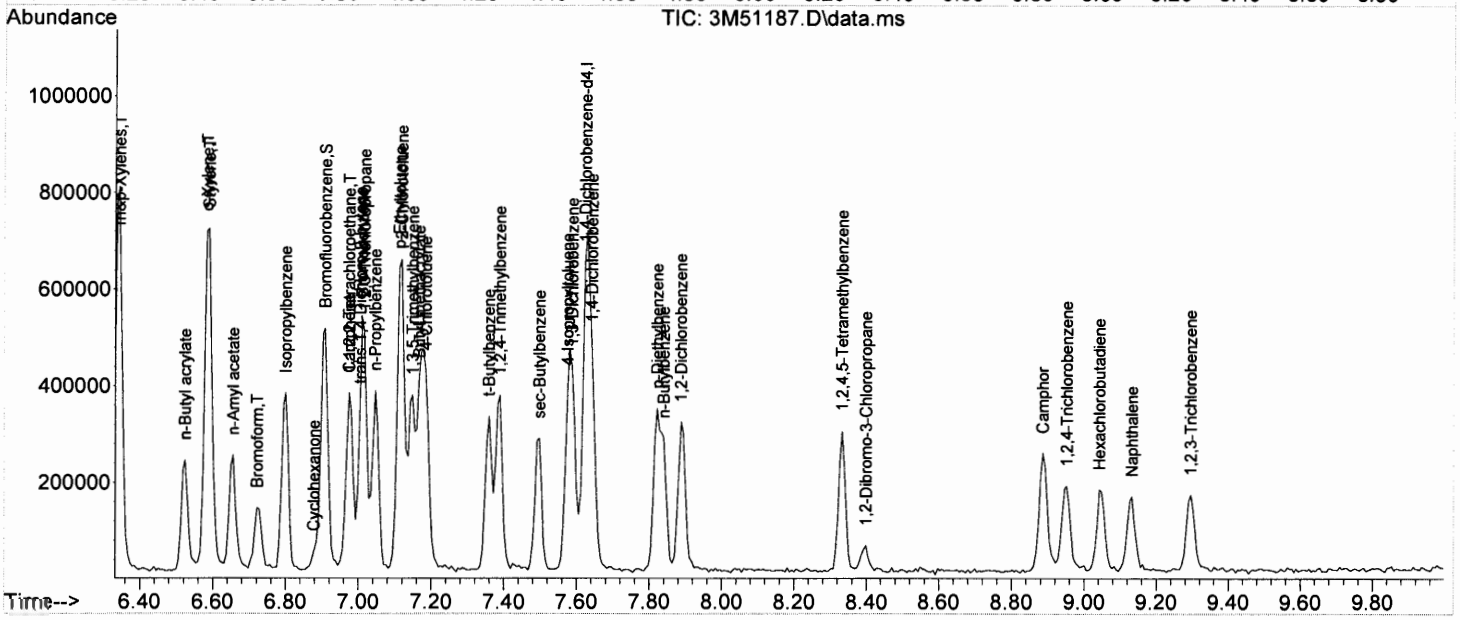
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 3M51187.D
Acq On : 05/22/14 09:52
Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/22/14 10:11
Qt Upd On: 05/22/14 10:05
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Time-->


Abundance
TIC: 3M51187.D\data.ms
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Iso-propyl ether
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
Time-->


Abundance
TIC: 3M51187.D\data.ms
m&p-Xylenes,I
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M51233A.D **Instrument:** GCMS 3

Cont Calibration Date/Time 5/23/2014 9:57:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.40	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.28	17.30	20	20	0.1	0.606	0.524	13.49	
Dichlorodifluoromethane	1	0		1.26	20.86	20	20		0.268	0.279	4.31	
Chloromethane	1	0		1.38	20.09	20	20	0.1	0.310	0.311	0.43	
Bromomethane	1	0		1.67	20.55	20	20	0.1	0.147	0.138	2.75	
Vinyl Chloride	1	0		1.46	18.86	20	20	0.1	0.215	0.202	5.68	
Chloroethane	1	0		1.74	22.34	20	20	0.1	0.123	0.138	11.68	
Trichlorofluoromethane	1	0		1.91	17.63	20	20	0.1	0.245	0.216	11.84	
Ethyl ether	1	0		2.11	22.69	20	20		0.113	0.128	13.47	
Furan	1	0		2.14	25.51	20	20		0.461	0.588	27.54	C1
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.27	18.89	20	20	0.1	0.191	0.180	5.56	
Methylene Chloride	1	0		2.62	19.02	20	20	0.1	0.277	0.263	4.89	
Acrolein	1	0		2.21	119.87	100	20		0.032	0.045	19.87	
Acrylonitrile	1	0		2.81	24.47	20	20		0.088	0.107	22.37	C1
Iodomethane	1	0		2.38	19.05	20	20		0.414	0.395	4.76	
Acetone	1	0		2.32	101.17	100	20	0.1	0.087	0.088	1.17	
Carbon Disulfide	1	0		2.44	18.45	20	20	0.1	0.631	0.582	7.74	
t-Butyl Alcohol	1	0		2.69	95.56	100	20		0.021	0.021	4.44	
n-Hexane	1	0		3.01	23.17	20	20		0.162	0.188	15.83	
Di-isopropyl-ether	1	0		3.17	21.57	20	20		1.097	1.183	7.86	
1,1-Dichloroethene	1	0		2.27	21.42	20	20	0.1	0.390	0.418	7.10	
Methyl Acetate	1	0		2.54	22.41	20	20	0.1	0.334	0.375	12.05	
Methyl-t-butyl ether	1	0		2.81	19.88	20	20	0.1	0.623	0.620	0.59	
1,1-Dichloroethane	1	0		3.13	20.08	20	20	0.2	0.512	0.514	0.40	
trans-1,2-Dichloroethene	1	0		2.81	21.13	20	20	0.1	0.214	0.226	5.66	
Ethyl-t-butyl ether	1	0		3.46	20.86	20	20		0.345	0.360	4.28	
cis-1,2-Dichloroethene	1	0		3.60	21.95	20	20	0.1	0.457	0.501	9.76	
Bromochloromethane	1	0		3.79	19.63	20	20		0.292	0.286	1.85	
2,2-Dichloropropane	1	0		3.60	26.90	20	20		0.265	0.356	34.50	C1
Ethyl acetate	1	0		3.65	19.42	20	20		0.323	0.314	2.91	
1,4-Dioxane	1	0		4.84	1055.40	1000	20		0.003	0.003	5.54	
1,1-Dichloropropene	1	0		4.08	20.08	20	20		0.318	0.319	0.42	
Chloroform	1	0		3.84	20.20	20	20	0.2	0.466	0.471	1.00	
Dibromofluoromethane	1	0	S	3.96	30.90	30	**		0.363	0.374	3.00	
Cyclohexane	1	0		4.01	20.35	20	20	0.1	0.325	0.331	1.77	
1,2-Dichloroethane-d4	1	0	S	4.19	32.61	30	**		0.205	0.223	8.69	
1,2-Dichloroethane	1	0		4.24	22.81	20	20	0.1	0.384	0.437	14.06	
2-Butanone	1	0		3.61	18.25	20	20	0.1	0.116	0.128	8.73	
1,1,1-Trichloroethane	1	0		3.97	19.81	20	20	0.1	0.369	0.366	0.96	
Carbon Tetrachloride	1	0		4.09	23.12	20	20	0.1	0.258	0.299	15.61	
Vinyl Acetate	1	0		3.17	24.03	20	20		0.754	0.906	20.16	
Bromodichloromethane	1	0		4.92	21.16	20	20	0.2	0.384	0.406	5.80	
Methylcyclohexane	1	0		4.74	21.34	20	20	0.1	0.205	0.219	6.70	
Dibromomethane	1	0		4.84	21.37	20	20		0.256	0.274	6.83	
1,2-Dichloropropane	1	0		4.76	20.70	20	20	0.1	0.318	0.330	3.49	
Trichloroethene	1	0		4.62	20.75	20	20	0.2	0.280	0.291	3.74	
Benzene	1	0		4.23	21.76	20	20	0.5	0.902	0.981	8.82	
tert-Amyl methyl ether	1	0		4.29	22.15	20	20		0.671	0.743	10.75	
Chlorobenzene-d5	1	0	I	6.20	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.26	23.78	20	20		0.726	0.863	18.89	
Methyl methacrylate	1	0		4.81	22.48	20	20		0.360	0.405	12.40	
Dibromochloromethane	1	0		5.87	19.63	20	20	0.1	0.383	0.376	1.84	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M51233A.D **Instrument:** GCMS 3

Cont Calibration Date/Time 5/23/2014 9:57:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.09	22.78	20	20		0.208	0.236	13.88	
cis-1,3-Dichloropropene	1	0		5.19	23.24	20	20	0.2	0.490	0.569	16.18	
trans-1,3-Dichloropropene	1	0		5.51	22.72	20	20	0.1	0.405	0.460	13.61	
Ethyl methacrylate	1	0		5.54	24.60	20	20		0.364	0.447	22.98	C1
1,1,2-Trichloroethane	1	0		5.63	19.64	20	20	0.1	0.324	0.310	1.82	
1,2-Dibromoethane	1	0		5.95	19.91	20	20	0.1	0.330	0.328	0.47	
1,3-Dichloropropane	1	0		5.72	22.43	20	20		0.538	0.603	12.16	
4-Methyl-2-Pentanone	1	0		5.27	21.82	20	20	0.1	0.404	0.440	9.09	
2-Hexanone	1	0		5.76	21.08	20	20	0.1	0.272	0.286	5.38	
Tetrachloroethene	1	0		5.71	23.11	20	20	0.2	0.289	0.333	15.55	
Toluene-d8	1	0	S	5.34	29.61	30	**		1.295	1.279	1.28	
Toluene	1	0		5.39	20.81	20	20	0.4	0.733	0.763	4.07	
1,1,1,2-Tetrachloroethane	1	0		6.26	20.54	20	20		0.324	0.333	2.70	
Chlorobenzene	1	0		6.22	21.81	20	20	0.5	0.818	0.892	9.05	
1,4-Dichlorobenzene-d4	1	0	I	7.63	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.52	20.67	20	20		1.110	1.404	3.34	
n-Amyl acetate	1	0		6.65	25.69	20	20		1.136	1.460	28.47	C1
Bromoform	1	0		6.73	20.35	20	20	0.1	0.547	0.557	1.76	
Ethylbenzene	1	0		6.28	21.41	20	20	0.1	0.563	0.545	7.04	
1,1,2,2-Tetrachloroethane	1	0		6.97	22.36	20	20	0.1	0.669	0.748	11.80	
Bromofluorobenzene	1	0	S	6.91	30.12	30	**		0.897	0.900	0.38	
Styrene	1	0		6.59	22.01	20	20	0.3	1.287	1.416	10.04	
m&p-Xylenes	1	0		6.34	43.74	40	20	0.1	0.726	0.764	9.34	
o-Xylene	1	0		6.58	21.80	20	20	0.3	0.762	0.805	8.98	
trans-1,4-Dichloro-2-butene	1	0		7.01	21.30	20	20		0.163	0.226	6.51	
1,3-Dichlorobenzene	1	0		7.59	21.83	20	20	0.6	1.027	1.102	9.16	
1,4-Dichlorobenzene	1	0		7.64	21.10	20	20	0.5	1.035	1.092	5.52	
1,2-Dichlorobenzene	1	0		7.89	19.93	20	20	0.4	1.075	1.071	0.33	
Isopropylbenzene	1	0		6.80	20.47	20	20		1.729	1.770	2.35	
Cyclohexanone	1	0		6.88	116.29	100	20		0.025	0.032	16.29	
Camphene	1	0		6.97	19.26	20	20		0.407	0.392	3.69	
1,2,3-Trichloropropane	1	0		7.01	21.38	20	20		0.768	0.821	6.91	
2-Chlorotoluene	1	0		7.12	21.14	20	20		1.142	1.213	5.70	
p-Ethyltoluene	1	0		7.11	21.50	20	20		1.564	1.682	7.50	
4-Chlorotoluene	1	0		7.18	22.38	20	20		1.113	1.245	11.92	
n-Propylbenzene	1	0		7.05	18.99	20	20		1.900	1.804	5.07	
Bromobenzene	1	0		7.01	17.13	20	20		1.323	1.133	14.36	
1,3,5-Trimethylbenzene	1	0		7.15	20.04	20	20		1.324	1.326	0.19	
Butyl methacrylate	1	0		7.17	23.72	20	20		0.932	1.105	18.61	
t-Butylbenzene	1	0		7.36	20.31	20	20		1.207	1.226	1.57	
1,2,4-Trimethylbenzene	1	0		7.38	20.14	20	20		1.469	1.479	0.71	
sec-Butylbenzene	1	0		7.49	21.87	20	20		1.305	1.426	9.34	
4-Isopropyltoluene	1	0		7.57	22.45	20	20		1.074	1.206	12.26	
n-Butylbenzene	1	0		7.84	23.10	20	20		1.166	1.346	15.49	
p-Diethylbenzene	1	0		7.82	21.97	20	20		0.686	0.753	9.85	
1,2,4,5-Tetramethylbenzene	1	0		8.33	23.18	20	20		1.108	1.285	15.89	
1,2-Dibromo-3-Chloropropane	1	0		8.40	21.61	20	20	0.05	0.153	0.166	8.05	
Camphor	1	0		8.89	211.41	200	20		0.046	0.064	5.71	
Hexachlorobutadiene	1	0		9.05	21.44	20	20		0.342	0.366	7.20	
1,2,4-Trichlorobenzene	1	0		8.95	23.65	20	20	0.2	0.616	0.729	18.23	
1,2,3-Trichlorobenzene	1	0		9.29	20.23	20	20		0.556	0.562	1.16	
Naphthalene	1	0		9.13	23.96	20	20		1.191	1.427	19.82	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB
Data File: 3M51233A.D
Acq On : 05/23/14 09:57

Operator : WP
Sam Mult : 1 Vial# : 5
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/23/14 10:11
Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.401	96	291995	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.204	117	232429	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.629	152	136877	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.956	111	109110	30.90	ug/l	0.00
Spiked Amount 30.000			Recovery	=	103.00%	
39) 1,2-Dichloroethane-d4	4.191	67	65075	32.61	ug/l	0.00
Spiked Amount 30.000			Recovery	=	108.70%	
66) Toluene-d8	5.345	98	297213	29.61	ug/l	0.00
Spiked Amount 30.000			Recovery	=	98.70%	
76) Bromofluorobenzene	6.908	174	123231	30.12	ug/l	0.00
Spiked Amount 30.000			Recovery	=	100.40%	
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.275	51	102025	17.3028	ug/l	91
6) Dichlorodifluoromethane	1.259	85	54367	20.8615	ug/l	97
7) Chloromethane	1.375	50	60564	20.0854	ug/l	71
8) Bromomethane	1.674	94	26863	20.5491	ug/l	94
9) Vinyl Chloride	1.458	62	39404	18.8630	ug/l	97
10) Chloroethane	1.741	64	26798	22.3367	ug/l	99
11) Trichlorofluoromethane	1.907	101	42019	17.6326	ug/l	87
12) Ethyl ether	2.111	59	24977	22.6948	ug/l	84
13) Furan	2.141	39	114443	25.5075	ug/l	83
14) 1,1,2-Trichloro-1,2,2-...	2.267	101	35025	18.8877	ug/l	92
15) Methylene Chloride	2.622	84	51252	19.0212	ug/l	95
16) Acrolein	2.207	56	43557	119.8685	ug/l	80
17) Acrylonitrile	2.808	53	20888m	24.4746	ug/l	
18) Iodomethane	2.381	142	76830	19.0477	ug/l	92
19) Acetone	2.315	43	85252	101.1682	ug/l	99
20) Carbon Disulfide	2.435	76	113390	18.4511	ug/l	100
21) t-Butyl Alcohol	2.688	59	20679	95.5632	ug/l	85
22) n-Hexane	3.006	57	36513m	23.1669	ug/l	
23) Di-isopropyl-ether	3.175	45	230329	21.5711	ug/l	92
24) 1,1-Dichloroethene	2.273	61	81311	21.4202	ug/l	98
25) Methyl Acetate	2.537	43	72942m	22.4106	ug/l	
26) Methyl-t-butyl ether	2.808	73	120600	19.8826	ug/l	70
27) 1,1-Dichloroethane	3.133	63	100069	20.0808	ug/l	94
28) trans-1,2-Dichloroethene	2.814	96	44077	21.1326	ug/l	88
29) Ethyl-t-butyl ether	3.463	59	70035	20.8564	ug/l	99
30) cis-1,2-Dichloroethene	3.595	61	97548m	21.9514	ug/l	
31) Bromochloromethane	3.788	49	55770	19.6298	ug/l	86
32) 2,2-Dichloropropane	3.595	77	69354	26.8994	ug/l	92
33) Ethyl acetate	3.650	43	61081	19.4177	ug/l	98
34) 1,4-Dioxane	4.840	88	26892	1055.3978	ug/l	90
35) 1,1-Dichloropropene	4.082	75	62149	20.0835	ug/l	91
36) Chloroform	3.842	83	91632	20.1994	ug/l	98
38) Cyclohexane	4.010	56	64454	20.3549	ug/l	85
40) 1,2-Dichloroethane	4.245	62	85159	22.8128	ug/l	93
41) 2-Butanone	3.613	43	24850	18.2538	ug/l	80
42) 1,1,1-Trichloroethane	3.974	97	71211	19.8081	ug/l	94
43) Carbon Tetrachloride	4.088	117	58147	23.1227	ug/l	79
44) Vinyl Acetate	3.175	43	176430	24.0323	ug/l	100
45) Bromodichloromethane	4.924	83	79039	21.1603	ug/l	91
46) Methylcyclohexane	4.738	83	42630	21.3401	ug/l	97
47) Dibromomethane	4.840	174	53259	21.3663	ug/l	92
48) 1,2-Dichloropropane	4.762	63	64143	20.6979	ug/l	78
49) Trichloroethene	4.623	130	56634	20.7475	ug/l	78
50) Benzene	4.227	78	191004	21.7649	ug/l	100
51) tert-Amyl methyl ether	4.287	73	144560	22.1494	ug/l	82
53) Iso-propylacetate	4.257	43	133684	23.7780	ug/l	87
54) Methyl methacrylate	4.810	41	62749	22.4802	ug/l	99
55) Dibromochloromethane	5.868	129	58330	19.6328	ug/l	95
56) 2-Chloroethylvinylether	5.092	63	36615	22.7762	ug/l	89
57) cis-1,3-Dichloropropene	5.188	75	88137	23.2360	ug/l	96
58) trans-1,3-Dichloropropene	5.513	75	71290	22.7223	ug/l	91
59) Ethyl methacrylate	5.543	41	69306	24.5958	ug/l	90
60) 1,1,2-Trichloroethane	5.627	97	48022	19.6354	ug/l	86
61) 1,2-Dibromoethane	5.946	107	50840	19.9065	ug/l	84
62) 1,3-Dichloropropane	5.723	76	93496	22.4326	ug/l	93
63) 4-Methyl-2-Pentanone	5.273	43	68238	21.8173	ug/l	95
64) 2-Hexanone	5.759	43	44373	21.0767	ug/l	93
65) Tetrachloroethene	5.711	164	51670	23.1104	ug/l	82
67) Toluene	5.387	92	118271	20.8144	ug/l	98

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB
Data File: 3M51233A.D
Acq On : 05/23/14 09:57

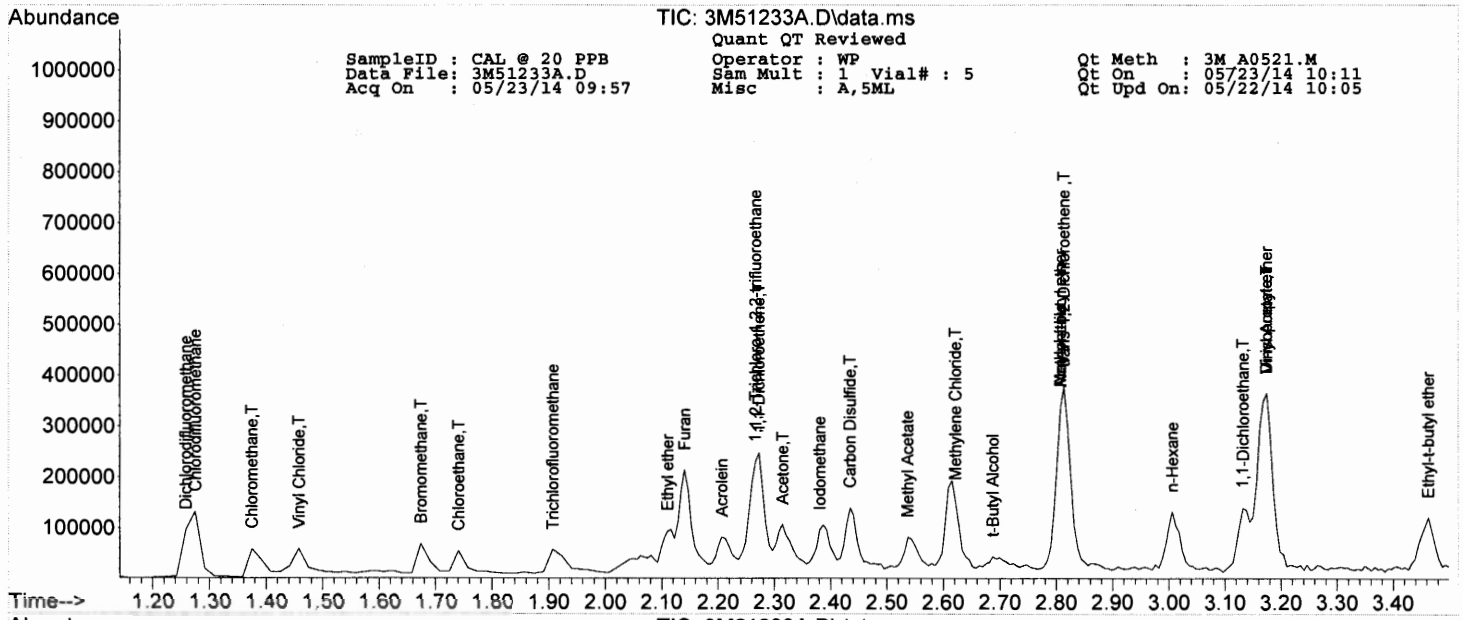
Operator : WP
Sam Mult : 1 Vial# : 5
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/23/14 10:11
Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.264	133	51550	20.5398	ug/l	82
69)	Chlorobenzene	6.222	112	138175	21.8105	ug/l	90
71)	n-Butyl acrylate	6.523	55	128147	20.6683	ug/l	97
72)	n-Amyl acetate	6.649	43	133200	25.6940	ug/l	95
73)	Bromoform	6.727	173	50809	20.3529	ug/l	97
74)	Ethylbenzene	6.276	106	49712	21.4075	ug/l	86
75)	1,1,2,2-Tetrachloroethane	6.974	83	68274	22.3595	ug/l	99
77)	Styrene	6.589	104	129203	22.0073	ug/l	85
78)	m&p-Xylenes	6.343	106	139500	43.7360	ug/l	88
79)	o-Xylene	6.583	106	73500	21.7961	ug/l	83
80)	trans-1,4-Dichloro-2-b...	7.010	53	20602	21.3010	ug/l	69
81)	1,3-Dichlorobenzene	7.593	146	100598	21.8312	ug/l	85
82)	1,4-Dichlorobenzene	7.641	146	99638	21.1030	ug/l	94
83)	1,2-Dichlorobenzene	7.887	146	97760	19.9340	ug/l	91
84)	Isopropylbenzene	6.799	105	161511	20.4709	ug/l	95
85)	Cyclohexanone	6.884	55	14506	116.2902	ug/l	89
86)	Camphene	6.974	93	35796	19.2614	ug/l	96
87)	1,2,3-Trichloropropane	7.010	75	74877	21.3818	ug/l	96
88)	2-Chlorotoluene	7.118	91	110664	21.1396	ug/l	94
89)	p-Ethyltoluene	7.112	105	153449	21.5006	ug/l	80
90)	4-Chlorotoluene	7.184	91	113640	22.3842	ug/l	90
91)	n-Propylbenzene	7.046	91	164611	18.9868	ug/l	95
92)	Bromobenzene	7.010	77	103426	17.1287	ug/l	81
93)	1,3,5-Trimethylbenzene	7.148	105	121025	20.0374	ug/l	86
94)	Butyl methacrylate	7.166	41	100848	23.7226	ug/l	83
95)	t-Butylbenzene	7.358	119	111842	20.3149	ug/l	84
96)	1,2,4-Trimethylbenzene	7.382	105	134964	20.1427	ug/l	87
97)	sec-Butylbenzene	7.491	105	130164	21.8677	ug/l	99
98)	4-Isopropyltoluene	7.575	119	110066	22.4517	ug/l	90
99)	n-Butylbenzene	7.839	91	122868	23.0975	ug/l	94
100)	p-Diethylbenzene	7.821	119	68720	21.9694	ug/l	94
101)	1,2,4,5-Tetramethylben...	8.332	119	117213	23.1775	ug/l	90
102)	1,2-Dibromo-3-Chloropr...	8.398	157	15130	21.6093	ug/l	57
103)	Camphor	8.885	95	57999	211.4116	ug/l	95
104)	Hexachlorobutadiene	9.048	225	33441	21.4401	ug/l	96
105)	1,2,4-Trichlorobenzene	8.951	180	66497	23.6454	ug/l	86
106)	1,2,3-Trichlorobenzene	9.294	180	51283	20.2324	ug/l	96
107)	Naphthalene	9.132	128	130239	23.9646	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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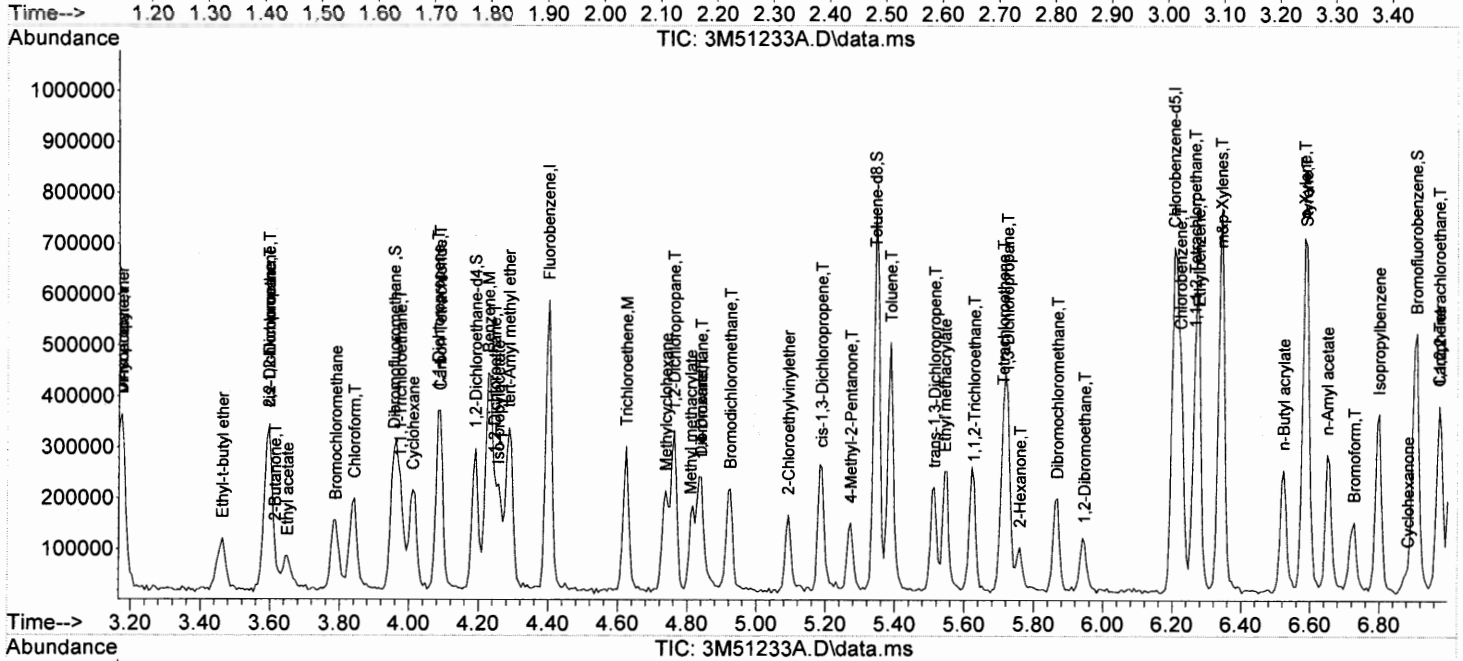
SampleID : CAL @ 20 PPB
Data File: 3M51233A.D
Acq On : 05/23/14 09:57
Operator : WP
Sam Mult : 1 Vial# : 5
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/23/14 10:11
Qt Upd On: 05/22/14 10:05
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Time-->


Abundance
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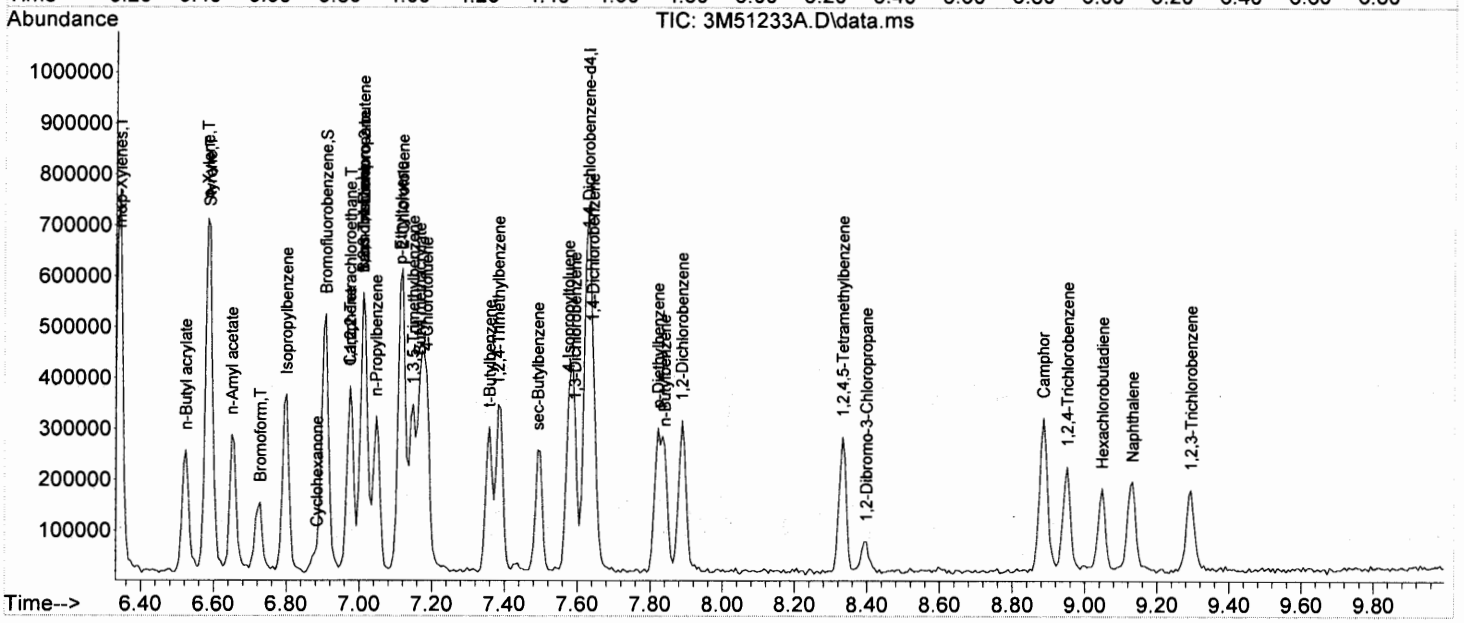
2-Butanone,T
Ethyl acetate
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Methylcyclohexane
1,2-Dichloropropane,T
Methyl methacrylate
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
1,1,1,2-Tetrachloroethane,T
Ethylbenzene,T
m&p-Xylenes,T
o-Xylene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,T
Time-->


Abundance
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n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,T
n-Propylbenzene
1,3,5-Trimethylbenzene
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
4-Isopropyltoluene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M10508.D **Instrument:** GCMS 6

Cont Calibration Date/Time 5/23/2014 4:58:00 P Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.48	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.29	61.03	50	20	0.1	0.862	1.185	22.06	C1
Dichlorodifluoromethane	1	0		1.29	41.21	50	20		0.535	0.505	17.57	
Chloromethane	1	0		1.41	50.11	50	20	0.1	0.539	0.540	0.22	
Bromomethane	1	0		1.74	45.03	50	20	0.1	0.370	0.333	9.94	
Vinyl Chloride	1	0		1.49	52.30	50	20	0.1	0.375	0.425	4.60	
Chloroethane	1	0		1.82	54.50	50	20	0.1	0.392	0.427	9.00	
Trichlorofluoromethane	1	0		2.01	52.76	50	20	0.1	0.668	0.755	5.52	
Ethyl ether	1	0		2.22	48.49	50	20		0.199	0.193	3.02	
Furan	1	0		2.25	51.06	50	20		1.130	1.233	2.13	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.40	59.97	50	20	0.1	0.491	0.589	19.93	
Methylene Chloride	1	0		2.74	50.32	50	20	0.1	0.386	0.388	0.64	
Acrolein	1	0		2.30	225.10	250	20		0.029	0.026	9.96	
Acrylonitrile	1	0		2.93	41.43	50	20		0.057	0.048	17.14	
Iodomethane	1	0		2.50	57.27	50	20		0.471	0.539	14.54	
Acetone	1	0		2.41	248.44	250	20	0.1	0.060	0.049	0.63	
Carbon Disulfide	1	0		2.57	54.84	50	20	0.1	1.661	1.821	9.68	
t-Butyl Alcohol	1	0		2.81	184.57	250	20		0.008	0.006	26.17	C1
n-Hexane	1	0		3.18	48.45	50	20		0.821	0.930	3.09	
Di-isopropyl-ether	1	0		3.33	43.35	50	20		1.565	1.356	13.31	
1,1-Dichloroethene	1	0		2.40	52.77	50	20	0.1	0.803	0.938	5.53	
Methyl Acetate	1	0		2.67	50.94	50	20	0.1	0.189	0.206	1.88	
Methyl-t-butyl ether	1	0		2.96	41.07	50	20	0.1	0.413	0.339	17.87	
1,1-Dichloroethane	1	0		3.28	49.96	50	20	0.2	0.904	0.904	0.07	
trans-1,2-Dichloroethene	1	0		2.96	53.96	50	20	0.1	0.467	0.504	7.92	
Ethyl-t-butyl ether	1	0		3.62	38.15	50	20		0.293	0.216	23.69	C1
cis-1,2-Dichloroethene	1	0		3.74	54.75	50	20	0.1	0.804	0.880	9.51	
Bromochloromethane	1	0		3.91	56.98	50	20		0.349	0.398	13.95	
2,2-Dichloropropane	1	0		3.74	50.39	50	20		0.515	0.557	0.78	
Ethyl acetate	1	0		3.79	48.33	50	20		0.222	0.215	3.34	
1,4-Dioxane	1	0		4.86	2362.83	2500	20		0.001	0.001	5.49	
1,1-Dichloropropene	1	0		4.20	50.45	50	20		0.657	0.772	0.89	
Chloroform	1	0		3.95	52.05	50	20	0.2	0.689	0.717	4.10	
Dibromofluoromethane	1	0	S	4.06	35.93	75	**		0.270	0.323	19.76	
Cyclohexane	1	0		4.15	52.99	50	20	0.1	1.020	1.274	5.98	
1,2-Dichloroethane-d4	1	0	S	4.28	32.84	75	**		0.130	0.143	9.48	
1,2-Dichloroethane	1	0		4.32	50.28	50	20	0.1	0.412	0.415	0.56	
2-Butanone	1	0		3.74	46.48	50	20	0.1	0.104	0.097	7.04	
1,1,1-Trichloroethane	1	0		4.10	58.01	50	20	0.1	0.655	0.759	16.02	
Carbon Tetrachloride	1	0		4.21	60.02	50	20	0.1	0.542	0.650	20.03	
Vinyl Acetate	1	0		3.33	40.70	50	20		1.113	0.906	18.60	
Bromodichloromethane	1	0		4.92	53.36	50	20	0.2	0.502	0.535	6.72	
Methylcyclohexane	1	0		4.79	51.12	50	20	0.1	0.745	0.930	2.24	
Dibromomethane	1	0		4.85	51.66	50	20		0.144	0.149	3.32	
1,2-Dichloropropane	1	0		4.79	53.32	50	20	0.1	0.458	0.488	6.63	
Trichloroethene	1	0		4.67	49.55	50	20	0.2	0.441	0.446	0.90	
Benzene	1	0		4.32	51.88	50	20	0.5	1.743	1.808	3.76	
tert-Amyl methyl ether	1	0		4.38	37.87	50	20		0.431	0.326	24.26	C1
Chlorobenzene-d5	1	0	I	6.03	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.34	28.93	50	20		0.622	0.355	42.14	C1
Methyl methacrylate	1	0		4.84	40.18	50	20		0.398	0.320	19.63	
Dibromochloromethane	1	0		5.73	47.04	50	20	0.1	0.464	0.437	5.91	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M10508.D **Instrument:** GCMS 6

Cont Calibration Date/Time 5/23/2014 4:58:00 P Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.07	42.19	50	20		0.194	0.157	15.63	
cis-1,3-Dichloropropene	1	0		5.16	38.17	50	20	0.2	0.975	0.745	23.66	C1
trans-1,3-Dichloropropene	1	0		5.43	38.06	50	20	0.1	0.675	0.514	23.89	C1
Ethyl methacrylate	1	0		5.46	44.86	50	20		0.461	0.384	10.28	
1,1,2-Trichloroethane	1	0		5.52	43.16	50	20	0.1	0.420	0.363	13.69	
1,2-Dibromoethane	1	0		5.80	45.69	50	20	0.1	0.310	0.283	8.63	
1,3-Dichloropropane	1	0		5.61	48.08	50	20		0.728	0.700	3.83	
4-Methyl-2-Pentanone	1	0		5.22	29.24	50	20	0.1	0.357	0.209	41.53	C1
2-Hexanone	1	0		5.64	44.92	50	20	0.1	0.190	0.171	10.16	
Tetrachloroethene	1	0		5.62	43.96	50	20	0.2	0.587	0.564	12.09	
Toluene-d8	1	0	S	5.30	26.86	75	**		1.583	1.418	10.46	
Toluene	1	0		5.34	38.05	50	20	0.4	1.752	1.381	23.90	C1
1,1,1,2-Tetrachloroethane	1	0		6.08	42.41	50	20		0.506	0.429	15.17	
Chlorobenzene	1	0		6.05	43.01	50	20	0.5	1.572	1.352	13.98	
1,4-Dichlorobenzene-d4	1	0	I	7.26	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.30	35.12	50	20		1.302	0.844	29.76	C1
n-Amyl acetate	1	0		6.42	32.56	50	20		1.218	0.741	34.88	C1
Bromoform	1	0		6.47	44.55	50	20	0.1	0.498	0.444	10.91	
Ethylbenzene	1	0		6.10	40.36	50	20	0.1	1.752	1.320	19.28	
1,1,2,2-Tetrachloroethane	1	0		6.68	40.25	50	20	0.1	0.813	0.654	19.51	
Bromofluorobenzene	1	0	S	6.64	30.04	75	**		0.739	0.740	0.13	
Styrene	1	0		6.36	40.34	50	20	0.3	2.842	2.293	19.31	
m&p-Xylenes	1	0		6.15	83.62	100	20	0.1	1.981	1.657	16.38	
o-Xylene	1	0		6.36	47.09	50	20	0.3	1.899	1.660	5.81	
trans-1,4-Dichloro-2-butene	1	0		6.71	41.75	50	20		0.667	0.557	16.50	
1,3-Dichlorobenzene	1	0		7.23	41.20	50	20	0.6	2.051	1.690	17.60	
1,4-Dichlorobenzene	1	0		7.28	42.56	50	20	0.5	2.122	1.806	14.89	
1,2-Dichlorobenzene	1	0		7.48	42.63	50	20	0.4	1.745	1.488	14.75	
Isopropylbenzene	1	0		6.55	42.22	50	20		5.310	4.827	15.56	
Cyclohexanone	1	0		6.71	240.23	250	20		0.066	0.053	3.91	
Camphene	1	0		6.71	42.21	50	20		1.986	1.840	15.59	
1,2,3-Trichloropropane	1	0		6.72	40.46	50	20		0.914	0.740	19.08	
2-Chlorotoluene	1	0		6.82	43.79	50	20		4.130	3.856	12.43	
p-Ethyltoluene	1	0		6.82	44.67	50	20		5.069	4.831	10.66	
4-Chlorotoluene	1	0		6.88	43.95	50	20		3.751	3.501	12.10	
n-Propylbenzene	1	0		6.77	42.81	50	20		7.052	6.582	14.38	
Bromobenzene	1	0		6.73	38.11	50	20		2.915	2.222	23.78	C1
1,3,5-Trimethylbenzene	1	0		6.85	45.94	50	20		4.158	3.764	8.11	
Butyl methacrylate	1	0		6.87	40.24	50	20		1.583	1.420	19.52	
t-Butylbenzene	1	0		7.04	43.56	50	20		4.240	3.695	12.88	
1,2,4-Trimethylbenzene	1	0		7.06	43.17	50	20		4.072	3.516	13.65	
sec-Butylbenzene	1	0		7.15	43.49	50	20		5.789	5.345	13.02	
4-Isopropyltoluene	1	0		7.22	42.13	50	20		4.023	3.948	15.74	
n-Butylbenzene	1	0		7.45	43.20	50	20		5.365	5.502	13.59	
p-Diethylbenzene	1	0		7.43	44.91	50	20		2.501	2.358	10.18	
1,2,4,5-Tetramethylbenzene	1	0		7.88	43.25	50	20		2.731	2.591	13.50	
1,2-Dibromo-3-Chloropropane	1	0		7.91	51.49	50	20	0.05	0.080	0.072	2.98	
Camphor	1	0		8.34	311.90	500	20		0.027	0.017	37.62	C1
Hexachlorobutadiene	1	0		8.49	47.42	50	20		1.174	1.113	5.15	
1,2,4-Trichlorobenzene	1	0		8.40	44.76	50	20	0.2	1.034	0.926	10.48	
1,2,3-Trichlorobenzene	1	0		8.68	42.46	50	20		0.847	0.667	15.09	
Naphthalene	1	0		8.55	36.83	50	20		1.093	0.805	26.33	C1

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB
Data File: 6M10508.D
Acq On : 05/23/14 16:58

Operator : WP
Sam Mult : 1 Vial# : 17
Misc : S,5G:.4

Qt Meth : 6M_S0519.M
Qt On : 05/23/14 17:10
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.476	96	165026	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.033	117	107082	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.259	152	63589	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.062	111	53355	35.93	ug/l	-0.01
Spiked Amount 30.000			Recovery = 119.77%			
39) 1,2-Dichloroethane-d4	4.278	67	23576	32.84	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.47%			
66) Toluene-d8	5.300	98	151790	26.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 89.53%			
76) Bromofluorobenzene	6.640	174	47050	30.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.13%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.286	51	325924	61.0286	ug/l	43
6) Dichlorodifluoromethane	1.286	85	138922	41.2131	ug/l	90
7) Chloromethane	1.406	50	148641	50.1117	ug/l	79
8) Bromomethane	1.740	94	91565	45.0305	ug/l	73
9) Vinyl Chloride	1.493	62	116773	52.2990	ug/l	95
10) Chloroethane	1.815	64	117389	54.5025	ug/l	97
11) Trichlorofluoromethane	2.011	101	207629	52.7608	ug/l	78
12) Ethyl ether	2.222	59	53088m	48.4890	ug/l	
13) Furan	2.246	39	339074m	51.0625	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.397	101	162128	59.9668	ug/l	90
15) Methylene Chloride	2.739	84	106850	50.3218	ug/l	78
16) Acrolein	2.301	56	35284m	225.1013	ug/l	
17) Acrylonitrile	2.926	53	13074m	41.4291	ug/l	
18) Iodomethane	2.505	142	148239	57.2689	ug/l	99
19) Acetone	2.415	43	67641	248.4359	ug/l	97
20) Carbon Disulfide	2.571	76	500931	54.8378	ug/l	100
21) t-Butyl Alcohol	2.805	59	8022	184.5738	ug/l	57
22) n-Hexane	3.184	57	255661	48.4544	ug/l	92
23) Di-isopropyl-ether	3.334	45	373095	43.3456	ug/l	85
24) 1,1-Dichloroethene	2.397	61	258029	52.7651	ug/l	97
25) Methyl Acetate	2.667	43	56767m	50.9406	ug/l	
26) Methyl-t-butyl ether	2.956	73	93350	41.0669	ug/l	78
27) 1,1-Dichloroethane	3.280	63	248589	49.9628	ug/l	95
28) trans-1,2-Dichloroethene	2.962	96	138641	53.9581	ug/l	93
29) Ethyl-t-butyl ether	3.623	59	59280m	38.1540	ug/l	
30) cis-1,2-Dichloroethene	3.737	61	242164	54.7549	ug/l	79
31) Bromochloromethane	3.905	49	109507	56.9756	ug/l	62
32) 2,2-Dichloropropane	3.743	77	153194	50.3881	ug/l	75
33) Ethyl acetate	3.785	43	59017m	48.3281	ug/l	
34) 1,4-Dioxane	4.855	88	18871	2362.8278	ug/l	89
35) 1,1-Dichloropropene	4.200	75	212260	50.4459	ug/l	94
36) Chloroform	3.953	83	197259m	52.0488	ug/l	
38) Cyclohexane	4.146	56	350542	52.9924	ug/l	86
40) 1,2-Dichloroethane	4.320	62	114077	50.2813	ug/l	78
41) 2-Butanone	3.743	43	26708	46.4786	ug/l	86
42) 1,1,1-Trichloroethane	4.098	97	208895	58.0083	ug/l	92
43) Carbon Tetrachloride	4.206	117	178862	60.0152	ug/l	94
44) Vinyl Acetate	3.328	43	249102m	40.7013	ug/l	
45) Bromodichloromethane	4.921	83	147284	53.3578	ug/l	88
46) Methylcyclohexane	4.789	83	255730	51.1209	ug/l	92
47) Dibromomethane	4.849	174	41052	51.6611	ug/l	84
48) 1,2-Dichloropropane	4.789	63	134286	53.3159	ug/l	93
49) Trichloroethene	4.675	130	122557	49.5480	ug/l	90
50) Benzene	4.320	78	497308	51.8812	ug/l	100
51) tert-Amyl methyl ether	4.380	73	89747m	37.8693	ug/l	
53) Iso-propylacetate	4.344	43	63291m	28.9308	ug/l	
54) Methyl methacrylate	4.837	41	57109	40.1844	ug/l	80
55) Dibromochloromethane	5.733	129	77939	47.0427	ug/l	99
56) 2-Chloroethylvinylether	5.065	63	28022	42.1872	ug/l	67
57) cis-1,3-Dichloropropene	5.156	75	132893	38.1683	ug/l	85
58) trans-1,3-Dichloropropene	5.426	75	91652	38.0554	ug/l	89
59) Ethyl methacrylate	5.462	41	68449m	44.8611	ug/l	
60) 1,1,2-Trichloroethane	5.522	97	64696	43.1564	ug/l	85
61) 1,2-Dibromoethane	5.799	107	50511	45.6854	ug/l	84
62) 1,3-Dichloropropane	5.612	76	124961	48.0828	ug/l	98
63) 4-Methyl-2-Pentanone	5.222	43	37238m	29.2367	ug/l	
64) 2-Hexanone	5.643	43	30520m	44.9215	ug/l	
65) Tetrachloroethene	5.618	164	100667	43.9565	ug/l	97
67) Toluene	5.336	92	246388	38.0495	ug/l	83

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB
Data File: 6M10508.D
Acq On : 05/23/14 16:58

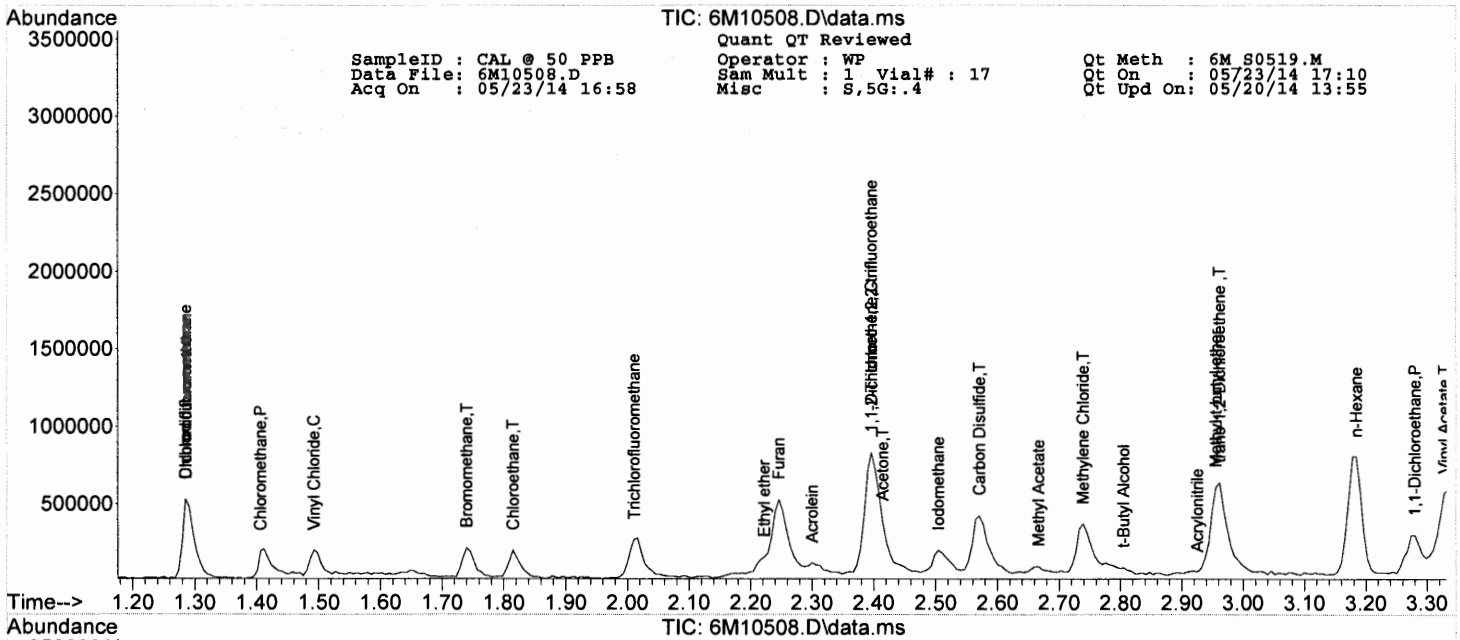
Operator : WP
Sam Mult : 1 Vial# : 17
Misc : S,5G:.4

Qt Meth : 6M_S0519.M
Qt On : 05/23/14 17:10
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.081	133	76615	42.4138	ug/l	91
69)	Chlorobenzene	6.051	112	241368	43.0098	ug/l	95
71)	n-Butyl acrylate	6.304	55	89465m	35.1182	ug/l	
72)	n-Amyl acetate	6.424	43	78511	32.5610	ug/l	78
73)	Bromoform	6.472	173	47057	44.5458	ug/l	96
74)	Ethylbenzene	6.099	106	139879	40.3588	ug/l	98
75)	1,1,2,2-Tetrachloroethane	6.682	83	69360	40.2458	ug/l	96
77)	Styrene	6.364	104	243068	40.3442	ug/l	98
78)	m&p-Xylenes	6.153	106	351183	83.6184	ug/l	97
79)	o-Xylene	6.364	106	175942	47.0944	ug/l	83
80)	trans-1,4-Dichloro-2-b...	6.712	53	59027	41.7493	ug/l	37
81)	1,3-Dichlorobenzene	7.229	146	179127	41.1992	ug/l	89
82)	1,4-Dichlorobenzene	7.277	146	191366	42.5557	ug/l	92
83)	1,2-Dichlorobenzene	7.482	146	157698	42.6265	ug/l	91
84)	Isopropylbenzene	6.550	105	511565	42.2202	ug/l	97
85)	Cyclohexanone	6.712	55	28013	240.2306	ug/l	64
86)	Camphene	6.706	93	194959	42.2052	ug/l	96
87)	1,2,3-Trichloropropane	6.718	75	78375	40.4598	ug/l	85
88)	2-Chlorotoluene	6.821	91	408667	43.7851	ug/l	93
89)	p-Ethyltoluene	6.821	105	512044	44.6692	ug/l	80
90)	4-Chlorotoluene	6.881	91	371000	43.9493	ug/l	92
91)	n-Propylbenzene	6.767	91	697590	42.8093	ug/l	98
92)	Bromobenzene	6.730	77	235440	38.1115	ug/l	91
93)	1,3,5-Trimethylbenzene	6.851	105	398893	45.9437	ug/l	91
94)	Butyl methacrylate	6.869	41	150461m	40.2396	ug/l	
95)	t-Butylbenzene	7.037	119	391583	43.5587	ug/l	88
96)	1,2,4-Trimethylbenzene	7.061	105	372678	43.1749	ug/l	85
97)	sec-Butylbenzene	7.151	105	566439	43.4895	ug/l	97
98)	4-Isopropyltoluene	7.223	119	418440	42.1319	ug/l	95
99)	n-Butylbenzene	7.452	91	583069	43.2038	ug/l	87
100)	p-Diethylbenzene	7.434	119	249955	44.9080	ug/l	95
101)	1,2,4,5-Tetramethylben...	7.879	119	274568	43.2508	ug/l	91
102)	1,2-Dibromo-3-Chloropr...	7.915	157	7644	51.4876	ug/l	74
103)	Camphor	8.335	95	17854m	311.9022	ug/l	
104)	Hexachlorobutadiene	8.486	225	117966	47.4249	ug/l	93
105)	1,2,4-Trichlorobenzene	8.395	180	98093	44.7600	ug/l	95
106)	1,2,3-Trichlorobenzene	8.684	180	70678	42.4552	ug/l	97
107)	Naphthalene	8.546	128	85368m	36.8332	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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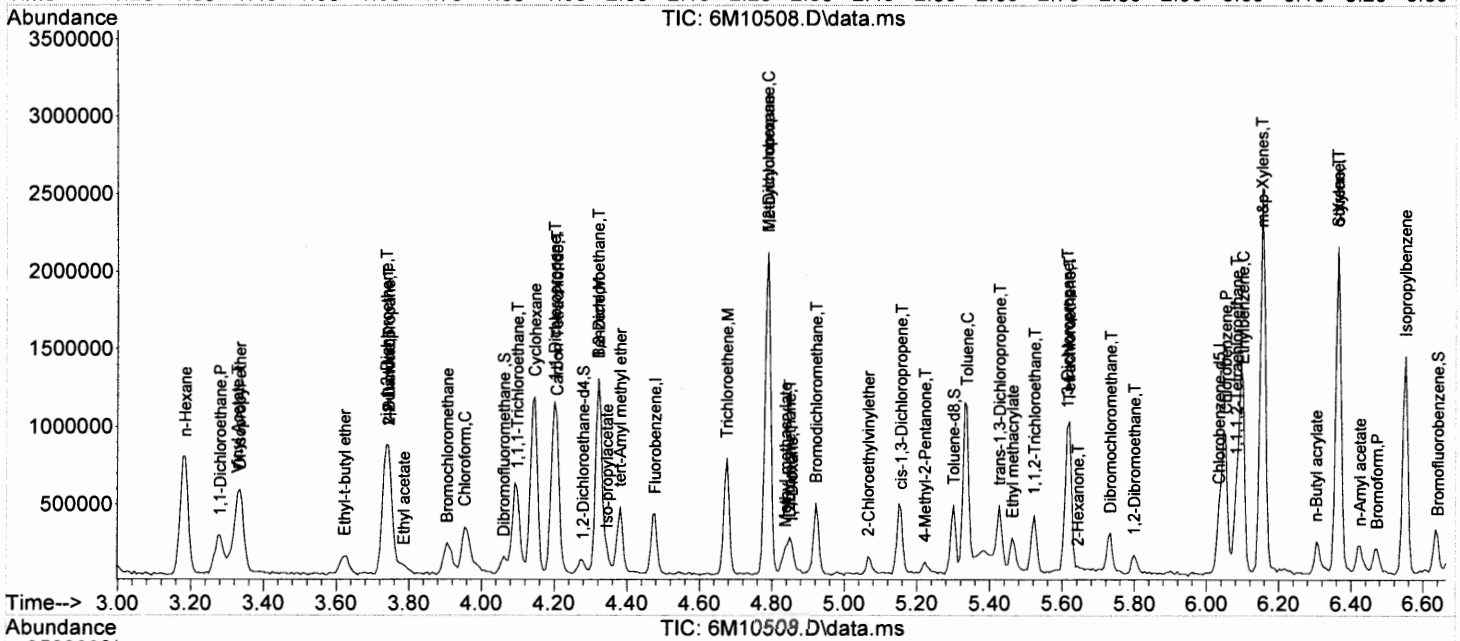
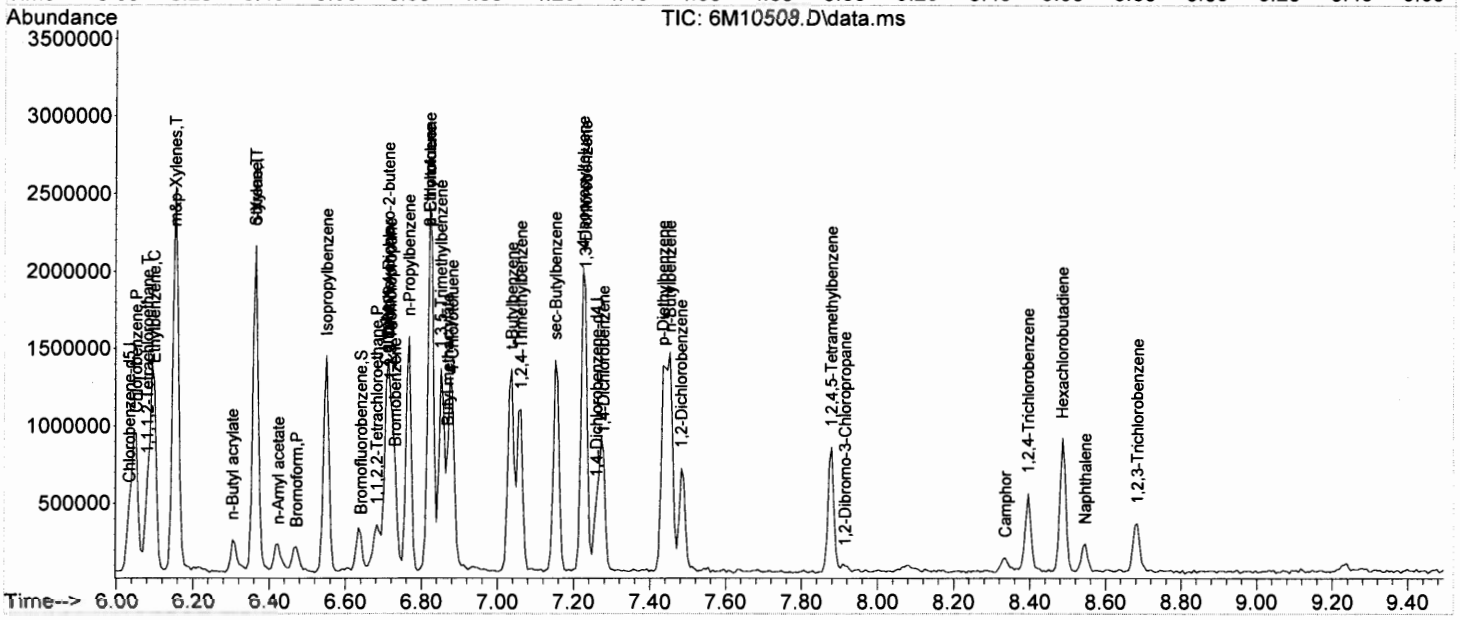
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 6M10508.D
Acq On : 05/23/14 16:58
Operator : WP
Sam Mult : 1 Vial# : 17
Misc : S,5G:.4
Qt Meth : 6M_S0519.M
Qt On : 05/23/14 17:10
Qt Upd On: 05/20/14 13:55
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 6M10508.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Iso-propylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Time-->


Abundance
TIC: 6M10508.D\data.ms
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
n-Propylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2-Dibromo-3-Chloropropane
1,2,4,5-Tetramethylbenzene
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M10594.D **Instrument:** GCMS 6

Cont Calibration Date/Time 5/28/2014 7:46:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.47	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.29	58.47	50	20	0.1	0.862	1.134	16.93	
Dichlorodifluoromethane	1	0		1.28	3.84	50	20		0.535	0.046	92.33	C1
Chloromethane	1	0		1.41	14.75	50	20	0.1	0.539	0.159	70.50	C1
Bromomethane	1	0		1.74	30.00	50	20	0.1	0.370	0.222	40.00	C1
Vinyl Chloride	1	0		1.49	24.68	50	20	0.1	0.375	0.198	50.65	C1
Chloroethane	1	0		1.81	37.90	50	20	0.1	0.392	0.297	24.21	C1
Trichlorofluoromethane	1	0		2.01	44.00	50	20	0.1	0.668	0.627	12.00	
Ethyl ether	1	0		2.22	44.25	50	20		0.199	0.176	11.50	
Furan	1	0		2.24	49.73	50	20		1.130	1.200	0.54	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.40	49.53	50	20	0.1	0.491	0.487	0.94	
Methylene Chloride	1	0		2.74	47.90	50	20	0.1	0.386	0.370	4.20	
Acrolein	1	0		2.31	259.65	250	20		0.029	0.030	3.86	
Acrylonitrile	1	0		2.91	43.72	50	20		0.057	0.050	12.57	
Iodomethane	1	0		2.50	48.45	50	20		0.471	0.456	3.10	
Acetone	1	0		2.41	245.80	250	20	0.1	0.060	0.049	1.68	
Carbon Disulfide	1	0		2.56	43.03	50	20	0.1	1.661	1.429	13.94	
t-Butyl Alcohol	1	0		2.79	224.10	250	20		0.008	0.007	10.36	
n-Hexane	1	0		3.18	47.22	50	20		0.821	0.906	5.57	
Di-isopropyl-ether	1	0		3.33	51.86	50	20		1.565	1.623	3.72	
1,1-Dichloroethene	1	0		2.40	45.45	50	20	0.1	0.803	0.807	9.10	
Methyl Acetate	1	0		2.66	51.23	50	20	0.1	0.189	0.208	2.46	
Methyl-t-butyl ether	1	0		2.95	45.84	50	20	0.1	0.413	0.379	8.32	
1,1-Dichloroethane	1	0		3.27	51.17	50	20	0.2	0.904	0.926	2.33	
trans-1,2-Dichloroethene	1	0		2.96	52.22	50	20	0.1	0.467	0.488	4.44	
Ethyl-t-butyl ether	1	0		3.62	42.53	50	20		0.293	0.241	14.95	
cis-1,2-Dichloroethene	1	0		3.73	53.73	50	20	0.1	0.804	0.864	7.45	
Bromochloromethane	1	0		3.90	51.19	50	20		0.349	0.358	2.38	
2,2-Dichloropropane	1	0		3.74	50.70	50	20		0.515	0.560	1.40	
Ethyl acetate	1	0		3.78	44.94	50	20		0.222	0.200	10.12	
1,4-Dioxane	1	0		4.85	2613.19	2500	20		0.001	0.002	4.53	
1,1-Dichloropropene	1	0		4.19	53.39	50	20		0.657	0.817	6.78	
Chloroform	1	0		3.95	53.89	50	20	0.2	0.689	0.743	7.79	
Dibromofluoromethane	1	0	S	4.05	30.03	75	**		0.270	0.270	0.09	
Cyclohexane	1	0		4.14	50.16	50	20	0.1	1.020	1.206	0.33	
1,2-Dichloroethane-d4	1	0	S	4.27	24.98	75	**		0.130	0.109	16.73	
1,2-Dichloroethane	1	0		4.32	53.35	50	20	0.1	0.412	0.440	6.69	
2-Butanone	1	0		3.74	54.46	50	20	0.1	0.104	0.114	8.92	
1,1,1-Trichloroethane	1	0		4.09	54.20	50	20	0.1	0.655	0.710	8.39	
Carbon Tetrachloride	1	0		4.20	55.55	50	20	0.1	0.542	0.602	11.10	
Vinyl Acetate	1	0		3.33	47.75	50	20		1.113	1.062	4.51	
Bromodichloromethane	1	0		4.92	50.37	50	20	0.2	0.502	0.506	0.75	
Methylcyclohexane	1	0		4.79	53.43	50	20	0.1	0.745	0.971	6.85	
Dibromomethane	1	0		4.85	49.97	50	20		0.144	0.144	0.05	
1,2-Dichloropropane	1	0		4.78	56.70	50	20	0.1	0.458	0.519	13.41	
Trichloroethene	1	0		4.67	56.40	50	20	0.2	0.441	0.508	12.80	
Benzene	1	0		4.32	56.67	50	20	0.5	1.743	1.975	13.35	
tert-Amyl methyl ether	1	0		4.38	47.32	50	20		0.431	0.408	5.36	
Chlorobenzene-d5	1	0	I	6.03	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.34	40.38	50	20		0.622	0.497	19.25	
Methyl methacrylate	1	0		4.83	41.48	50	20		0.398	0.330	17.03	
Dibromochloromethane	1	0		5.73	43.39	50	20	0.1	0.464	0.403	13.21	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M10594.D **Instrument:** GCMS 6

Cont Calibration Date/Time 5/28/2014 7:46:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.06	50.10	50	20		0.194	0.187	0.20	
cis-1,3-Dichloropropene	1	0		5.15	45.17	50	20	0.2	0.975	0.881	9.66	
trans-1,3-Dichloropropene	1	0		5.43	44.86	50	20	0.1	0.675	0.605	10.28	
Ethyl methacrylate	1	0		5.46	40.50	50	20		0.461	0.346	18.99	
1,1,2-Trichloroethane	1	0		5.52	38.78	50	20	0.1	0.420	0.326	22.44	C1
1,2-Dibromoethane	1	0		5.80	46.78	50	20	0.1	0.310	0.290	6.44	
1,3-Dichloropropane	1	0		5.61	50.28	50	20		0.728	0.732	0.55	
4-Methyl-2-Pentanone	1	0		5.22	33.62	50	20	0.1	0.357	0.240	32.76	C1
2-Hexanone	1	0		5.64	48.41	50	20	0.1	0.190	0.184	3.19	
Tetrachloroethene	1	0		5.62	49.45	50	20	0.2	0.587	0.634	1.10	
Toluene-d8	1	0	S	5.29	28.16	75	**		1.583	1.486	6.14	
Toluene	1	0		5.33	47.29	50	20	0.4	1.752	1.714	5.42	
1,1,1,2-Tetrachloroethane	1	0		6.08	47.68	50	20		0.506	0.483	4.63	
Chlorobenzene	1	0		6.04	52.38	50	20	0.5	1.572	1.647	4.76	
1,4-Dichlorobenzene-d4	1	0	I	7.26	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.30	41.03	50	20		1.302	0.993	17.94	
n-Amyl acetate	1	0		6.42	40.98	50	20		1.218	0.941	18.04	
Bromoform	1	0		6.46	45.62	50	20	0.1	0.498	0.455	8.76	
Ethylbenzene	1	0		6.09	53.47	50	20	0.1	1.752	1.755	6.94	
1,1,2,2-Tetrachloroethane	1	0		6.68	43.08	50	20	0.1	0.813	0.700	13.85	
Bromofluorobenzene	1	0	S	6.63	29.76	75	**		0.739	0.733	0.79	
Styrene	1	0		6.36	53.27	50	20	0.3	2.842	3.028	6.55	
m&p-Xylenes	1	0		6.15	104.16	100	20	0.1	1.981	2.064	4.16	
o-Xylene	1	0		6.36	52.00	50	20	0.3	1.899	1.835	4.01	
trans-1,4-Dichloro-2-butene	1	0		6.71	55.18	50	20		0.667	0.736	10.35	
1,3-Dichlorobenzene	1	0		7.23	52.44	50	20	0.6	2.051	2.151	4.89	
1,4-Dichlorobenzene	1	0		7.27	45.84	50	20	0.5	2.122	1.945	8.32	
1,2-Dichlorobenzene	1	0		7.48	46.60	50	20	0.4	1.745	1.627	6.79	
Isopropylbenzene	1	0		6.55	49.27	50	20		5.310	5.637	1.45	
Cyclohexanone	1	0		6.71	254.91	250	20		0.066	0.056	1.96	
Camphene	1	0		6.71	52.75	50	20		1.986	2.308	5.49	
1,2,3-Trichloropropane	1	0		6.72	42.48	50	20		0.914	0.776	15.04	
2-Chlorotoluene	1	0		6.82	51.83	50	20		4.130	4.553	3.67	
p-Ethyltoluene	1	0		6.82	53.16	50	20		5.069	5.748	6.32	
4-Chlorotoluene	1	0		6.87	50.03	50	20		3.751	3.984	0.07	
n-Propylbenzene	1	0		6.76	51.92	50	20		7.052	7.971	3.85	
Bromobenzene	1	0		6.72	50.50	50	20		2.915	2.944	1.01	
1,3,5-Trimethylbenzene	1	0		6.85	50.81	50	20		4.158	4.167	1.62	
Butyl methacrylate	1	0		6.87	55.61	50	20		1.583	1.971	11.23	
t-Butylbenzene	1	0		7.03	50.96	50	20		4.240	4.329	1.91	
1,2,4-Trimethylbenzene	1	0		7.05	51.36	50	20		4.072	4.183	2.73	
sec-Butylbenzene	1	0		7.15	54.38	50	20		5.789	6.690	8.76	
4-Isopropyltoluene	1	0		7.22	50.90	50	20		4.023	4.766	1.79	
n-Butylbenzene	1	0		7.45	53.33	50	20		5.365	6.789	6.67	
p-Diethylbenzene	1	0		7.43	53.97	50	20		2.501	2.842	7.95	
1,2,4,5-Tetramethylbenzene	1	0		7.87	46.60	50	20		2.731	2.796	6.81	
1,2-Dibromo-3-Chloropropane	1	0		7.91	44.75	50	20	0.05	0.080	0.062	10.49	
Camphor	1	0		8.33	249.78	500	20		0.027	0.013	50.04	C1
Hexachlorobutadiene	1	0		8.48	50.36	50	20		1.174	1.182	0.72	
1,2,4-Trichlorobenzene	1	0		8.39	45.53	50	20	0.2	1.034	0.941	8.94	
1,2,3-Trichlorobenzene	1	0		8.68	43.90	50	20		0.847	0.690	12.20	
Naphthalene	1	0		8.54	41.18	50	20		1.093	0.900	17.65	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB
Data File: 6M10594.D
Acq On : 05/28/14 07:46

Operator : SGG
Sam Mult : 1 Vial# : 4
Misc : S,5G:.4

Qt Meth : 6M_S0519.M
Qt On : 05/28/14 07:58
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-28-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.469	96	179721	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.032	117	109414	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.258	152	58136	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.055	111	48561	30.03	ug/l	-0.02
Spiked Amount 30.000			Recovery = 100.10%			
39) 1,2-Dichloroethane-d4	4.271	67	19528	24.98	ug/l	-0.01
Spiked Amount 30.000			Recovery = 83.27%			
66) Toluene-d8	5.293	98	162579	28.16	ug/l	-0.01
Spiked Amount 30.000			Recovery = 93.87%			
76) Bromofluorobenzene	6.633	174	42620	29.76	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.20%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.291	51	339794m	58.4661	ug/l	
6) Dichlorodifluoromethane	1.285	85	13920	3.8363	ug/l	91
7) Chloromethane	1.411	50	47655	14.7524	ug/l	79
8) Bromomethane	1.740	94	66436	30.0009	ug/l	63
9) Vinyl Chloride	1.492	62	59284	24.6768	ug/l	94
10) Chloroethane	1.814	64	88893m	37.8975	ug/l	
11) Trichlorofluoromethane	2.010	101	187738	44.0014	ug/l	88
12) Ethyl ether	2.221	59	52759	44.2484	ug/l	70
13) Furan	2.239	39	359486m	49.7314	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.396	101	145842	49.5323	ug/l	92
15) Methylene Chloride	2.738	84	110759	47.8977	ug/l	92
16) Acrolein	2.305	56	44403	259.6522	ug/l	64
17) Acrylonitrile	2.913	53	15024	43.7155	ug/l	79
18) Iodomethane	2.504	142	136578	48.4496	ug/l	89
19) Acetone	2.414	43	72884	245.7998	ug/l	87
20) Carbon Disulfide	2.564	76	428096	43.0325	ug/l	100
21) t-Butyl Alcohol	2.792	59	10607	224.0956	ug/l	92
22) n-Hexane	3.177	57	271233	47.2170	ug/l	91
23) Di-isopropyl-ether	3.327	45	486126	51.8595	ug/l	79
24) 1,1-Dichloroethene	2.396	61	241759	45.4502	ug/l	93
25) Methyl Acetate	2.660	43	62180	51.2314	ug/l	100
26) Methyl-t-butyl ether	2.955	73	113484	45.8422	ug/l	88
27) 1,1-Dichloroethane	3.273	63	277246	51.1663	ug/l	97
28) trans-1,2-Dichloroethene	2.961	96	146123	52.2200	ug/l	92
29) Ethyl-t-butyl ether	3.622	59	72071	42.5263	ug/l	94
30) cis-1,2-Dichloroethene	3.730	61	258778	53.7272	ug/l	90
31) Bromochloromethane	3.898	49	107153m	51.1923	ug/l	
32) 2,2-Dichloropropane	3.742	77	167879	50.6977	ug/l	96
33) Ethyl acetate	3.778	43	59768	44.9412	ug/l	80
34) 1,4-Dioxane	4.848	88	22729	2613.1903	ug/l	97
35) 1,1-Dichloropropene	4.193	75	244657	53.3906	ug/l	99
36) Chloroform	3.946	83	222438	53.8935	ug/l	67
38) Cyclohexane	4.139	56	361387	50.1639	ug/l	85
40) 1,2-Dichloroethane	4.319	62	131806	53.3454	ug/l	91
41) 2-Butanone	3.736	43	34082	54.4616	ug/l	80
42) 1,1,1-Trichloroethane	4.091	97	212546	54.1961	ug/l	98
43) Carbon Tetrachloride	4.205	117	180303	55.5520	ug/l	92
44) Vinyl Acetate	3.327	43	318237	47.7458	ug/l	100
45) Bromodichloromethane	4.920	83	151427	50.3731	ug/l	98
46) Methylcyclohexane	4.788	83	290982	53.4273	ug/l	88
47) Dibromomethane	4.848	174	43248	49.9745	ug/l	85
48) 1,2-Dichloropropane	4.782	63	155534	56.7028	ug/l	99
49) Trichloroethene	4.674	130	152022	56.3977	ug/l	99
50) Benzene	4.319	78	591610	56.6727	ug/l	100
51) tert-Amyl methyl ether	4.379	73	122127m	47.3186	ug/l	
53) Iso-propylacetate	4.337	43	90649m	40.3775	ug/l	
54) Methyl methacrylate	4.830	41	60239	41.4834	ug/l	89
55) Dibromochloromethane	5.726	129	73460	43.3942	ug/l	93
56) 2-Chloroethylvinylether	5.064	63	34163	50.0989	ug/l	71
57) cis-1,3-Dichloropropene	5.149	75	160698	45.1704	ug/l	90
58) trans-1,3-Dichloropropene	5.425	75	110396	44.8612	ug/l	99
59) Ethyl methacrylate	5.461	41	63049m	40.5031	ug/l	
60) 1,1,2-Trichloroethane	5.515	97	59398	38.7778	ug/l	85
61) 1,2-Dibromoethane	5.798	107	52849	46.7813	ug/l	95
62) 1,3-Dichloropropane	5.605	76	133504	50.2751	ug/l	96
63) 4-Methyl-2-Pentanone	5.221	43	43756	33.6219	ug/l	87
64) 2-Hexanone	5.641	43	33604m	48.4065	ug/l	
65) Tetrachloroethene	5.617	164	115654	49.4499	ug/l	97
67) Toluene	5.329	92	312544	47.2891	ug/l	97

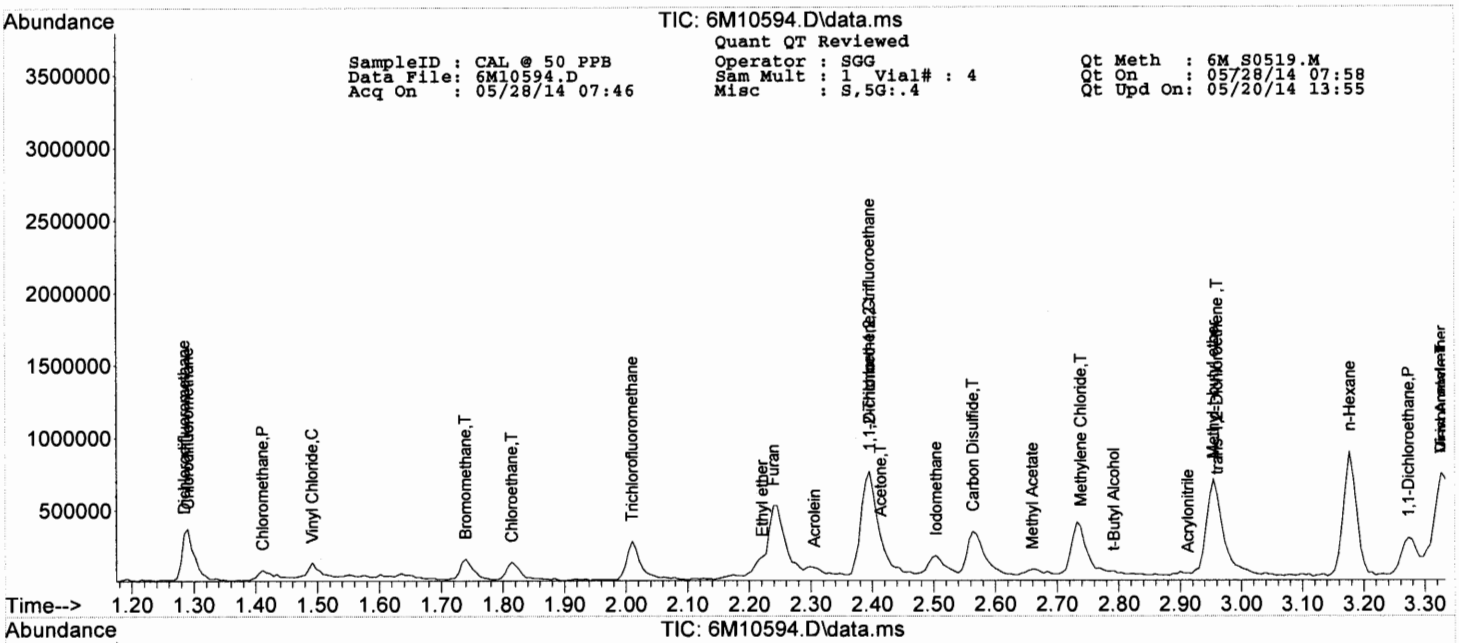
Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB
Data File: 6M10594.D
Acq On : 05/28/14 07:46
Operator : SGG
Sam Mult : 1 Vial# : 4
Misc : S,5G:.4
Qt Meth : 6M_S0519.M
Qt On : 05/28/14 07:58
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-28-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.080	133	88009	47.6831	ug/l	92
69)	Chlorobenzene	6.044	112	300358	52.3806	ug/l	97
71)	n-Butyl acrylate	6.303	55	96223	41.0323	ug/l	96
72)	n-Amyl acetate	6.417	43	91194	40.9808	ug/l	76
73)	Bromoform	6.465	173	44060	45.6209	ug/l	88
74)	Ethylbenzene	6.092	106	170048	53.4677	ug/l	96
75)	1,1,2,2-Tetrachloroethane	6.681	83	67872	43.0764	ug/l	92
77)	Styrene	6.363	104	293439	53.2732	ug/l	99
78)	m&p-Xylenes	6.152	106	399942	104.1603	ug/l	96
79)	o-Xylene	6.357	106	177805	52.0036	ug/l	90
80)	trans-1,4-Dichloro-2-b...	6.711	53	71321	55.1763	ug/l	22
81)	1,3-Dichlorobenzene	7.228	146	208465	52.4443	ug/l	88
82)	1,4-Dichlorobenzene	7.270	146	188454	45.8390	ug/l	94
83)	1,2-Dichlorobenzene	7.481	146	157625	46.6031	ug/l	93
84)	Isopropylbenzene	6.549	105	546228	49.2735	ug/l	94
85)	Cyclohexanone	6.705	55	27186	254.9059	ug/l	67
86)	Camphene	6.705	93	223668	52.7453	ug/l	90
87)	1,2,3-Trichloropropane	6.717	75	75228	42.4779	ug/l	86
88)	2-Chlorotoluene	6.820	91	441107	51.8338	ug/l	92
89)	p-Ethyltoluene	6.820	105	556918	53.1586	ug/l	81
90)	4-Chlorotoluene	6.874	91	385984	50.0329	ug/l	94
91)	n-Propylbenzene	6.759	91	772342	51.9241	ug/l	94
92)	Bromobenzene	6.723	77	285241	50.5039	ug/l	86
93)	1,3,5-Trimethylbenzene	6.850	105	403752	50.8124	ug/l	87
94)	Butyl methacrylate	6.868	41	190984m	55.6136	ug/l	
95)	t-Butylbenzene	7.030	119	419409	50.9571	ug/l	89
96)	1,2,4-Trimethylbenzene	7.054	105	405351	51.3648	ug/l	87
97)	sec-Butylbenzene	7.150	105	648223	54.3812	ug/l	93
98)	4-Isopropyltoluene	7.222	119	461803	50.8952	ug/l	95
99)	n-Butylbenzene	7.451	91	657771	53.3328	ug/l	88
100)	p-Diethylbenzene	7.433	119	275418	53.9731	ug/l	92
101)	1,2,4,5-Tetramethylben...	7.871	119	270932	46.5973	ug/l	88
102)	1,2-Dibromo-3-Chloropr...	7.914	157	6039	44.7526	ug/l	91
103)	Camphor	8.328	95	13072	249.7824	ug/l	79
104)	Hexachlorobutadiene	8.485	225	114523	50.3592	ug/l	94
105)	1,2,4-Trichlorobenzene	8.394	180	91225	45.5305	ug/l	93
106)	1,2,3-Trichlorobenzene	8.683	180	66828	43.9004	ug/l	96
107)	Naphthalene	8.539	128	87252	41.1772	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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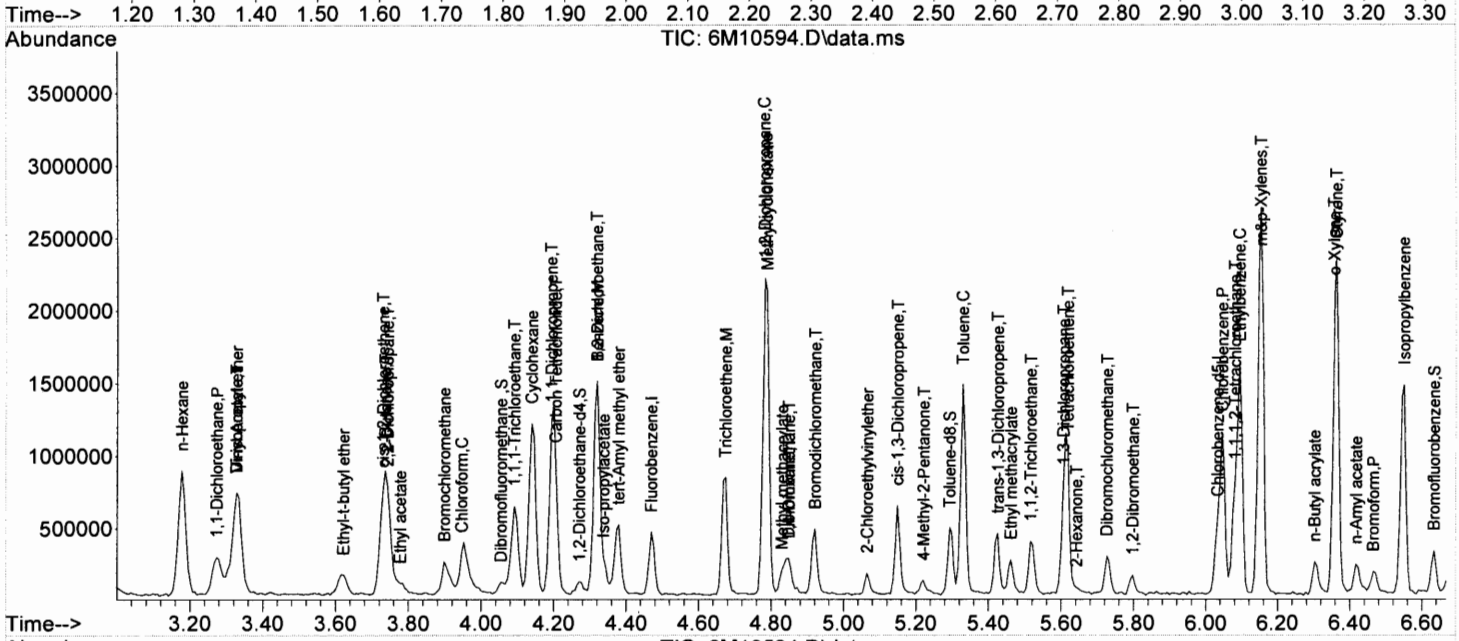
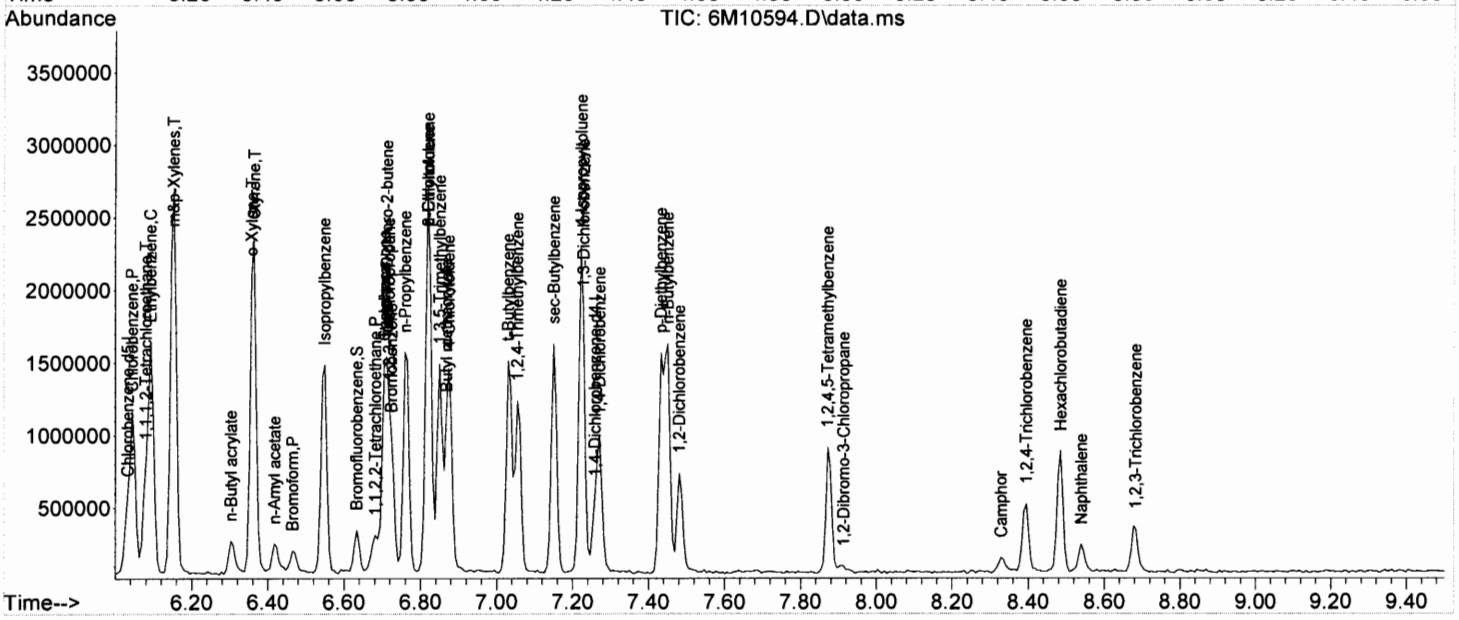
TIC: 6M10594.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 6M10594.D
Acq On : 05/28/14 07:46
Operator : SGG
Sam Mult : 1 Vial# : 4
Misc : S,5G:.4
Qt Meth : 6M_S0519.M
Qt On : 05/28/14 07:58
Qt Upd On: 05/20/14 13:55
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 6M10594.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Iso-propylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
o-Xylene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Time-->


Abundance
TIC: 6M10594.D\data.ms
m&p-Xylenes,T
o-Xylene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,P
n-Propylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M10647.D **Instrument:** GCMS 6

Cont Calibration Date/Time 5/29/2014 7:08:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.46	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.28	57.88	50	20	0.1	0.862	1.123	15.76	
Dichlorodifluoromethane	1	0		1.28	1.84	50	20		0.535	0.022	96.31	C1
Chloromethane	1	0		1.41	3.48	50	20	0.1	0.539	0.038	93.04	C1
Bromomethane	1	0		1.73	17.01	50	20	0.1	0.370	0.126	65.98	C1
Vinyl Chloride	1	0		1.48	8.65	50	20	0.1	0.375	0.069	82.70	C1
Chloroethane	1	0		1.80	27.29	50	20	0.1	0.392	0.214	45.42	C1
Trichlorofluoromethane	1	0		2.00	29.39	50	20	0.1	0.668	0.415	41.23	C1
Ethyl ether	1	0		2.21	41.65	50	20		0.199	0.166	16.69	
Furan	1	0		2.23	40.62	50	20		1.130	0.977	18.76	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.38	42.07	50	20	0.1	0.491	0.414	15.86	
Methylene Chloride	1	0		2.72	45.84	50	20	0.1	0.386	0.354	8.32	
Acrolein	1	0		2.29	221.17	250	20		0.029	0.025	11.53	
Acrylonitrile	1	0		2.90	43.14	50	20		0.057	0.049	13.73	
Iodomethane	1	0		2.49	40.11	50	20		0.471	0.377	19.79	
Acetone	1	0		2.40	215.69	250	20	0.1	0.060	0.043	13.72	
Carbon Disulfide	1	0		2.56	26.20	50	20	0.1	1.661	0.870	47.61	C1
t-Butyl Alcohol	1	0		2.78	217.21	250	20		0.008	0.007	13.12	
n-Hexane	1	0		3.17	34.64	50	20		0.821	0.662	30.72	C1
Di-isopropyl-ether	1	0		3.32	47.33	50	20		1.565	1.481	5.34	
1,1-Dichloroethene	1	0		2.38	38.03	50	20	0.1	0.803	0.674	23.95	C1
Methyl Acetate	1	0		2.65	42.19	50	20	0.1	0.189	0.170	15.63	
Methyl-t-butyl ether	1	0		2.94	40.68	50	20	0.1	0.413	0.336	18.64	
1,1-Dichloroethane	1	0		3.26	45.63	50	20	0.2	0.904	0.825	8.74	
trans-1,2-Dichloroethene	1	0		2.95	43.28	50	20	0.1	0.467	0.404	13.43	
Ethyl-t-butyl ether	1	0		3.60	40.41	50	20		0.293	0.228	19.18	
cis-1,2-Dichloroethene	1	0		3.72	52.06	50	20	0.1	0.804	0.837	4.12	
Bromochloromethane	1	0		3.89	50.95	50	20		0.349	0.356	1.90	
2,2-Dichloropropane	1	0		3.72	46.58	50	20		0.515	0.514	6.83	
Ethyl acetate	1	0		3.77	41.64	50	20		0.222	0.185	16.72	
1,4-Dioxane	1	0		4.84	2384.44	2500	20		0.001	0.001	4.62	
1,1-Dichloropropene	1	0		4.19	50.57	50	20		0.657	0.774	1.15	
Chloroform	1	0		3.94	48.47	50	20	0.2	0.689	0.668	3.06	
Dibromofluoromethane	1	0	S	4.05	27.01	75	**		0.270	0.243	9.96	
Cyclohexane	1	0		4.13	44.25	50	20	0.1	1.020	1.064	11.49	
1,2-Dichloroethane-d4	1	0	S	4.27	32.11	75	**		0.130	0.140	7.04	
1,2-Dichloroethane	1	0		4.31	51.44	50	20	0.1	0.412	0.424	2.89	
2-Butanone	1	0		3.72	52.41	50	20	0.1	0.104	0.109	4.82	
1,1,1-Trichloroethane	1	0		4.08	52.72	50	20	0.1	0.655	0.690	5.45	
Carbon Tetrachloride	1	0		4.19	53.59	50	20	0.1	0.542	0.581	7.18	
Vinyl Acetate	1	0		3.32	44.49	50	20		1.113	0.990	11.03	
Bromodichloromethane	1	0		4.91	50.18	50	20	0.2	0.502	0.504	0.35	
Methylcyclohexane	1	0		4.78	48.70	50	20	0.1	0.745	0.886	2.60	
Dibromomethane	1	0		4.84	52.51	50	20		0.144	0.152	5.03	
1,2-Dichloropropane	1	0		4.78	51.27	50	20	0.1	0.458	0.469	2.53	
Trichloroethene	1	0		4.66	45.62	50	20	0.2	0.441	0.410	8.76	
Benzene	1	0		4.31	53.87	50	20	0.5	1.743	1.877	7.74	
tert-Amyl methyl ether	1	0		4.37	44.08	50	20		0.431	0.380	11.85	
Chlorobenzene-d5	1	0	I	6.03	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.33	34.69	50	20		0.622	0.426	30.62	C1
Methyl methacrylate	1	0		4.82	40.52	50	20		0.398	0.323	18.96	
Dibromochloromethane	1	0		5.72	38.56	50	20	0.1	0.464	0.358	22.89	C1

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M10647.D **Instrument:** GCMS 6

Cont Calibration Date/Time 5/29/2014 7:08:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.06	40.13	50	20		0.194	0.149	19.73	
cis-1,3-Dichloropropene	1	0		5.14	41.87	50	20	0.2	0.975	0.817	16.26	
trans-1,3-Dichloropropene	1	0		5.41	40.41	50	20	0.1	0.675	0.545	19.18	
Ethyl methacrylate	1	0		5.46	40.15	50	20		0.461	0.343	19.70	
1,1,2-Trichloroethane	1	0		5.51	40.09	50	20	0.1	0.420	0.337	19.82	
1,2-Dibromoethane	1	0		5.79	41.16	50	20	0.1	0.310	0.255	17.68	
1,3-Dichloropropane	1	0		5.60	42.84	50	20		0.728	0.624	14.31	
4-Methyl-2-Pentanone	1	0		5.21	44.20	50	20	0.1	0.357	0.315	11.60	
2-Hexanone	1	0		5.64	40.66	50	20	0.1	0.190	0.155	18.68	
Tetrachloroethene	1	0		5.61	46.72	50	20	0.2	0.587	0.599	6.56	
Toluene-d8	1	0	S	5.29	28.48	75	**		1.583	1.503	5.07	
Toluene	1	0		5.32	43.45	50	20	0.4	1.752	1.576	13.10	
1,1,1,2-Tetrachloroethane	1	0		6.07	40.25	50	20		0.506	0.407	19.50	
Chlorobenzene	1	0		6.04	45.62	50	20	0.5	1.572	1.435	8.75	
1,4-Dichlorobenzene-d4	1	0	I	7.25	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.30	49.76	50	20		1.302	1.217	0.47	
n-Amyl acetate	1	0		6.41	42.60	50	20		1.218	0.980	14.80	
Bromoform	1	0		6.46	45.07	50	20	0.1	0.498	0.449	9.86	
Ethylbenzene	1	0		6.09	48.62	50	20	0.1	1.752	1.594	2.75	
1,1,2,2-Tetrachloroethane	1	0		6.68	48.57	50	20	0.1	0.813	0.790	2.86	
Bromofluorobenzene	1	0	S	6.63	28.79	75	**		0.739	0.709	4.05	
Styrene	1	0		6.36	49.19	50	20	0.3	2.842	2.796	1.63	
m&p-Xylenes	1	0		6.15	102.42	100	20	0.1	1.981	2.029	2.42	
o-Xylene	1	0		6.35	52.42	50	20	0.3	1.899	1.850	4.84	
trans-1,4-Dichloro-2-butene	1	0		6.71	53.54	50	20		0.667	0.714	7.08	
1,3-Dichlorobenzene	1	0		7.22	50.88	50	20	0.6	2.051	2.087	1.77	
1,4-Dichlorobenzene	1	0		7.26	44.46	50	20	0.5	2.122	1.887	11.07	
1,2-Dichlorobenzene	1	0		7.47	46.28	50	20	0.4	1.745	1.616	7.44	
Isopropylbenzene	1	0		6.54	50.74	50	20		5.310	5.806	1.47	
Cyclohexanone	1	0		6.70	256.47	250	20		0.066	0.056	2.59	
Camphene	1	0		6.70	51.68	50	20		1.986	2.261	3.36	
1,2,3-Trichloropropane	1	0		6.71	43.60	50	20		0.914	0.797	12.81	
2-Chlorotoluene	1	0		6.81	53.93	50	20		4.130	4.734	7.87	
p-Ethyltoluene	1	0		6.81	50.53	50	20		5.069	5.464	1.06	
4-Chlorotoluene	1	0		6.87	49.21	50	20		3.751	3.918	1.58	
n-Propylbenzene	1	0		6.75	50.55	50	20		7.052	7.762	1.10	
Bromobenzene	1	0		6.72	49.56	50	20		2.915	2.889	0.89	
1,3,5-Trimethylbenzene	1	0		6.84	51.45	50	20		4.158	4.220	2.91	
Butyl methacrylate	1	0		6.86	42.25	50	20		1.583	1.492	15.49	
t-Butylbenzene	1	0		7.02	48.42	50	20		4.240	4.111	3.17	
1,2,4-Trimethylbenzene	1	0		7.05	49.72	50	20		4.072	4.049	0.56	
sec-Butylbenzene	1	0		7.14	53.01	50	20		5.789	6.521	6.02	
4-Isopropyltoluene	1	0		7.22	47.01	50	20		4.023	4.404	5.97	
n-Butylbenzene	1	0		7.44	49.34	50	20		5.365	6.281	1.33	
p-Diethylbenzene	1	0		7.43	50.91	50	20		2.501	2.679	1.83	
1,2,4,5-Tetramethylbenzene	1	0		7.87	39.59	50	20		2.731	2.367	20.81	C1
1,2-Dibromo-3-Chloropropane	1	0		7.91	44.02	50	20	0.05	0.080	0.061	11.97	
Camphor	1	0		8.32	290.65	500	20		0.027	0.016	41.87	C1
Hexachlorobutadiene	1	0		8.48	44.86	50	20		1.174	1.053	10.28	
1,2,4-Trichlorobenzene	1	0		8.39	41.08	50	20	0.2	1.034	0.849	17.84	
1,2,3-Trichlorobenzene	1	0		8.68	41.32	50	20		0.847	0.649	17.35	
Naphthalene	1	0		8.54	34.59	50	20		1.093	0.756	30.83	C1

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB
Data File: 6M10647.D
Acq On : 05/29/14 07:08

Operator : SGG
Sam Mult : 1 Vial# : 4
Misc : S,5G:.4

Qt Meth : 6M_S0519.M
Qt On : 05/29/14 07:20
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.464	96	173184	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.026	117	108786	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.253	152	54377	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.049	111	42100m	27.01	ug/l	-0.02
Spiked Amount 30.000			Recovery = 90.03%			
39) 1,2-Dichloroethane-d4	4.265	67	24191	32.11	ug/l	-0.02
Spiked Amount 30.000			Recovery = 107.03%			
66) Toluene-d8	5.287	98	163496	28.48	ug/l	-0.02
Spiked Amount 30.000			Recovery = 94.93%			
76) Bromofluorobenzene	6.627	174	38555m	28.79	ug/l	-0.02
Spiked Amount 30.000			Recovery = 95.97%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.279	51	324091m	57.8787	ug/l	
6) Dichlorodifluoromethane	1.279	85	6439m	1.8427	ug/l	
7) Chloromethane	1.406	50	10831	3.4795	ug/l	47
8) Bromomethane	1.728	94	36295	17.0086	ug/l	86
9) Vinyl Chloride	1.480	62	19882	8.6492	ug/l	93
10) Chloroethane	1.803	64	61685	27.2906	ug/l	99
11) Trichlorofluoromethane	1.999	101	119919	29.3863	ug/l	66
12) Ethyl ether	2.209	59	47858m	41.6530	ug/l	
13) Furan	2.233	39	282091m	40.6178	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.378	101	119368	42.0712	ug/l	84
15) Methylene Chloride	2.720	84	102149	45.8417	ug/l	87
16) Acrolein	2.288	56	36375m	221.1749	ug/l	
17) Acrylonitrile	2.901	53	14286	43.1372	ug/l	70
18) Iodomethane	2.486	142	108947m	40.1066	ug/l	
19) Acetone	2.402	43	61644	215.6921	ug/l	91
20) Carbon Disulfide	2.558	76	251135	26.1971	ug/l	100
21) t-Butyl Alcohol	2.781	59	9907m	217.2071	ug/l	
22) n-Hexane	3.171	57	191152m	34.6406	ug/l	
23) Di-isopropyl-ether	3.315	45	427522	47.3292	ug/l	87
24) 1,1-Dichloroethene	2.378	61	194671m	38.0256	ug/l	
25) Methyl Acetate	2.648	43	49211	42.1857	ug/l	100
26) Methyl-t-butyl ether	2.937	73	97037	40.6780	ug/l	82
27) 1,1-Dichloroethane	3.261	63	238262	45.6315	ug/l	99
28) trans-1,2-Dichloroethene	2.949	96	116713	43.2841	ug/l	87
29) Ethyl-t-butyl ether	3.604	59	65945	40.4113	ug/l	95
30) cis-1,2-Dichloroethene	3.718	61	241627	52.0599	ug/l	87
31) Bromochloromethane	3.893	49	102769m	50.9511	ug/l	
32) 2,2-Dichloropropane	3.724	77	148431	46.5840	ug/l	94
33) Ethyl acetate	3.766	43	53362	41.6389	ug/l	88
34) 1,4-Dioxane	4.842	88	19985	2384.4374	ug/l	36
35) 1,1-Dichloropropene	4.187	75	223318	50.5739	ug/l	95
36) Chloroform	3.941	83	192775	48.4696	ug/l	97
38) Cyclohexane	4.133	56	307227	44.2539	ug/l	82
40) 1,2-Dichloroethane	4.307	62	122486	51.4445	ug/l	89
41) 2-Butanone	3.724	43	31605	52.4098	ug/l	75
42) 1,1,1-Trichloroethane	4.079	97	199255	52.7249	ug/l	100
43) Carbon Tetrachloride	4.193	117	167606	53.5892	ug/l	93
44) Vinyl Acetate	3.321	43	285726	44.4862	ug/l	100
45) Bromodichloromethane	4.908	83	145347	50.1756	ug/l	99
46) Methylcyclohexane	4.776	83	255741	48.7000	ug/l	90
47) Dibromomethane	4.842	174	43792	52.5132	ug/l	85
48) 1,2-Dichloropropane	4.776	63	135504	51.2652	ug/l	81
49) Trichloroethene	4.662	130	118378	45.6213	ug/l	69
50) Benzene	4.307	78	541889	53.8691	ug/l	100
51) tert-Amyl methyl ether	4.373	73	109620m	44.0759	ug/l	
53) Iso-propylacetate	4.331	43	77267m	34.6901	ug/l	
54) Methyl methacrylate	4.818	41	58501m	40.5191	ug/l	
55) Dibromochloromethane	5.720	129	64894m	38.5554	ug/l	
56) 2-Chloroethylvinylether	5.059	63	27049m	40.1338	ug/l	
57) cis-1,3-Dichloropropene	5.143	75	148108	41.8719	ug/l	91
58) trans-1,3-Dichloropropene	5.413	75	98873m	40.4106	ug/l	
59) Ethyl methacrylate	5.455	41	62130m	40.1482	ug/l	
60) 1,1,2-Trichloroethane	5.509	97	61053m	40.0883	ug/l	
61) 1,2-Dibromoethane	5.792	107	46232	41.1602	ug/l	91
62) 1,3-Dichloropropane	5.600	76	113120	42.8448	ug/l	97
63) 4-Methyl-2-Pentanone	5.209	43	57192m	44.1998	ug/l	
64) 2-Hexanone	5.636	43	28063m	40.6581	ug/l	
65) Tetrachloroethene	5.612	164	108676	46.7225	ug/l	89
67) Toluene	5.323	92	285654	43.4502	ug/l	97

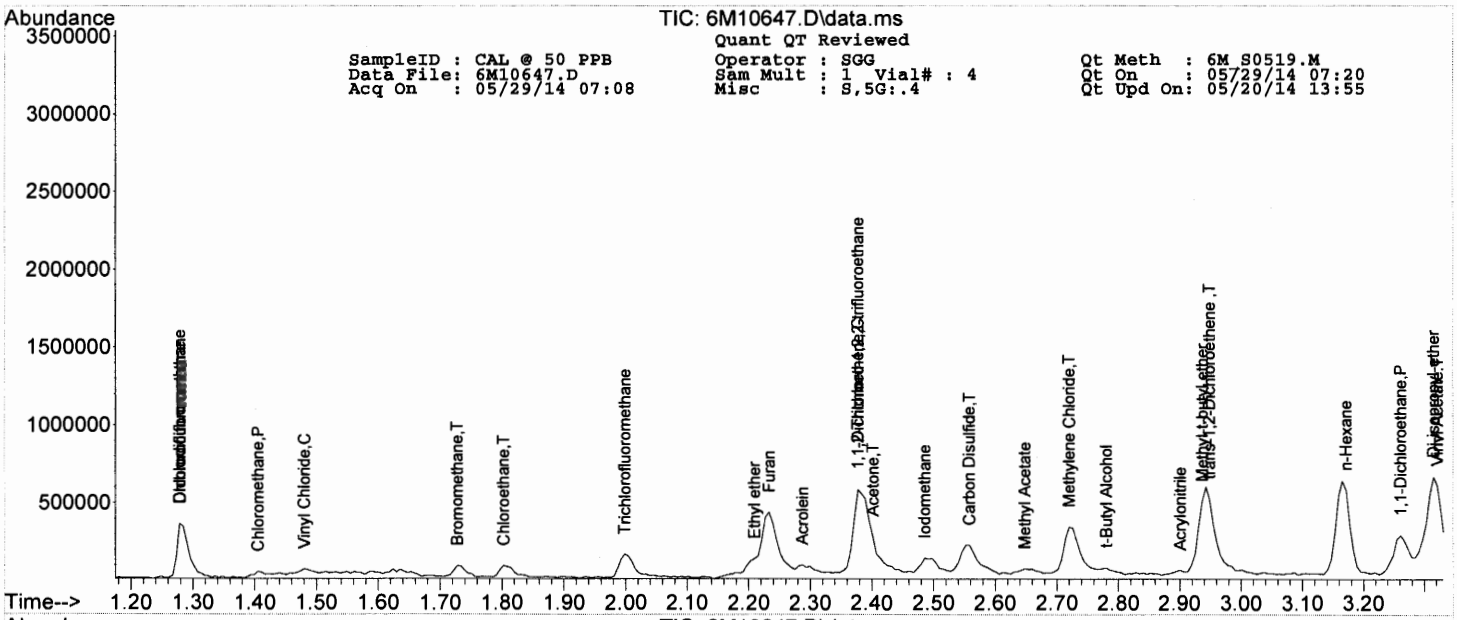
Quantitation Report (QT Reviewed)

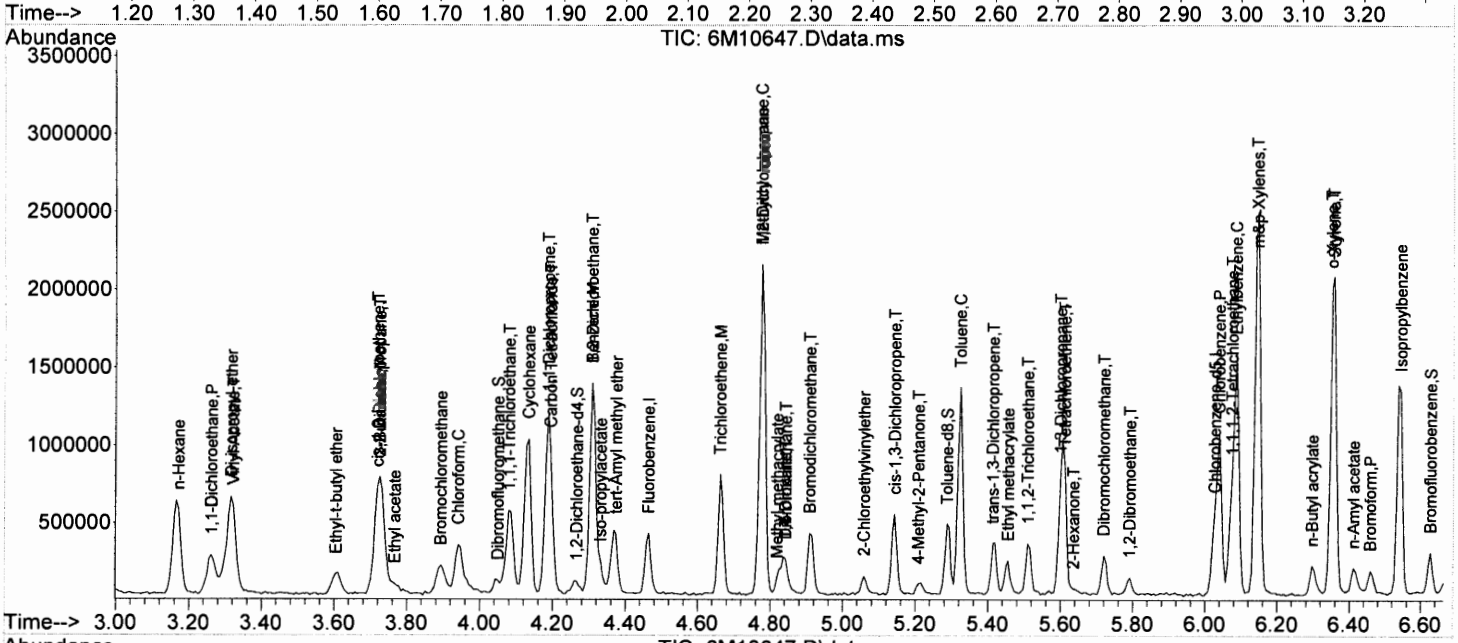
SampleID : CAL @ 50 PPB
Data File: 6M10647.D
Acq On : 05/29/14 07:08
Operator : SGG
Sam Mult : 1 Vial# : 4
Misc : S,5G:.4
Qt Meth : 6M_S0519.M
Qt On : 05/29/14 07:20
Qt Upd On: 05/20/14 13:55

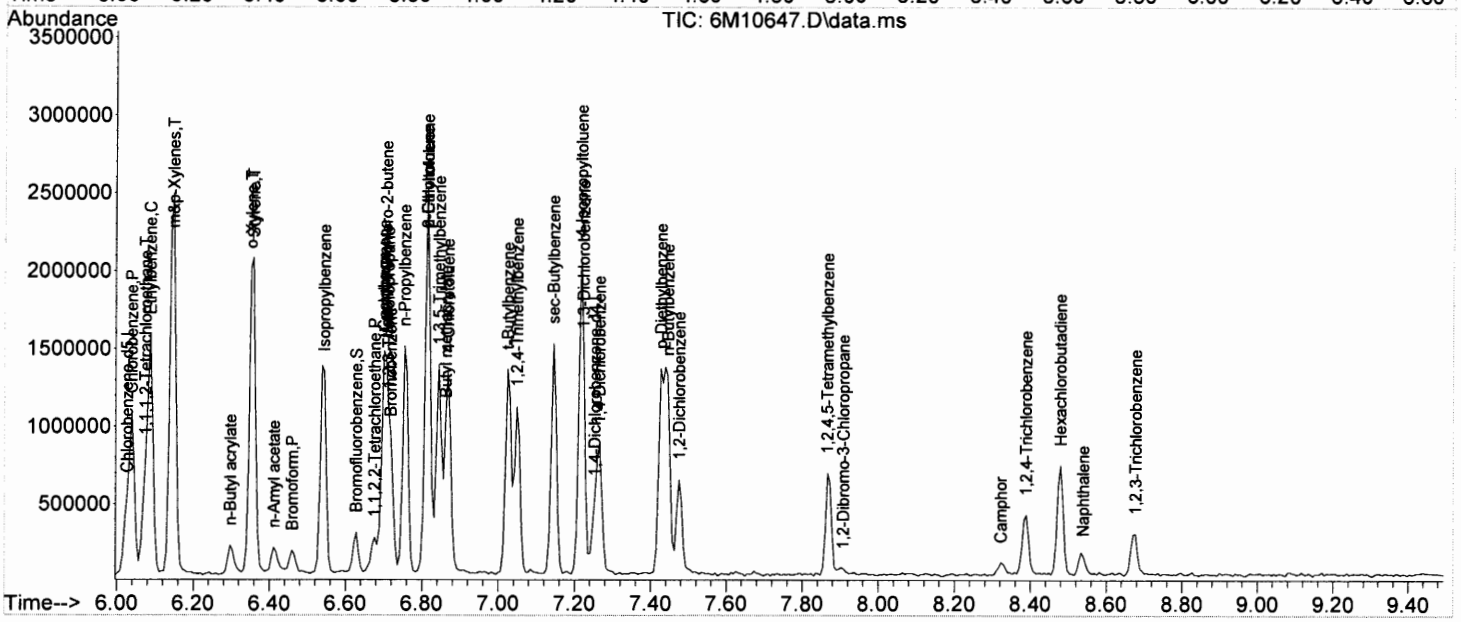
Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.074	133	73866m	40.2514	ug/l	
69)	Chlorobenzene	6.038	112	260107	45.6230	ug/l	95
71)	n-Butyl acrylate	6.297	55	110251m	49.7638	ug/l	
72)	n-Amyl acetate	6.411	43	88825m	42.5988	ug/l	
73)	Bromoform	6.459	173	40712	45.0684	ug/l	96
74)	Ethylbenzene	6.086	106	144448	48.6242	ug/l	76
75)	1,1,2,2-Tetrachloroethane	6.676	83	71583	48.5722	ug/l	79
77)	Styrene	6.357	104	253410	49.1863	ug/l	94
78)	m&p-Xylenes	6.147	106	367841	102.4225	ug/l	96
79)	o-Xylene	6.351	106	167660	52.4216	ug/l	89
80)	trans-1,4-Dichloro-2-b...	6.706	53	64733	53.5415	ug/l	26
81)	1,3-Dichlorobenzene	7.223	146	189184	50.8837	ug/l	88
82)	1,4-Dichlorobenzene	7.265	146	170976	44.4626	ug/l	94
83)	1,2-Dichlorobenzene	7.475	146	146414	46.2810	ug/l	93
84)	Isopropylbenzene	6.543	105	526147	50.7354	ug/l	96
85)	Cyclohexanone	6.700	55	25585	256.4672	ug/l	68
86)	Camphene	6.700	93	204892	51.6790	ug/l	99
87)	1,2,3-Trichloropropane	6.712	75	72215	43.5954	ug/l	83
88)	2-Chlorotoluene	6.814	91	428995	53.9335	ug/l	94
89)	p-Ethyltoluene	6.814	105	495178	50.5276	ug/l	76
90)	4-Chlorotoluene	6.868	91	355101	49.2090	ug/l	96
91)	n-Propylbenzene	6.754	91	703454	50.5501	ug/l	97
92)	Bromobenzene	6.718	77	261795	49.5569	ug/l	84
93)	1,3,5-Trimethylbenzene	6.844	105	382456	51.4526	ug/l	86
94)	Butyl methacrylate	6.862	41	135185m	42.2537	ug/l	
95)	t-Butylbenzene	7.024	119	372544	48.4159	ug/l	89
96)	1,2,4-Trimethylbenzene	7.048	105	366992	49.7188	ug/l	92
97)	sec-Butylbenzene	7.144	105	590971	53.0122	ug/l	96
98)	4-Isopropyltoluene	7.216	119	399129	47.0141	ug/l	95
99)	n-Butylbenzene	7.445	91	569242	49.3373	ug/l	88
100)	p-Diethylbenzene	7.427	119	242782	50.9144	ug/l	94
101)	1,2,4,5-Tetramethylben...	7.866	119	214516m	39.5936	ug/l	
102)	1,2-Dibromo-3-Chloropr...	7.908	157	5552	44.0160	ug/l	79
103)	Camphor	8.322	95	14227	290.6451	ug/l	96
104)	Hexachlorobutadiene	8.479	225	95424	44.8615	ug/l	87
105)	1,2,4-Trichlorobenzene	8.389	180	76988	41.0811	ug/l	92
106)	1,2,3-Trichlorobenzene	8.677	180	58819	41.3227	ug/l	95
107)	Naphthalene	8.539	128	68547m	34.5860	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10647.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 6M10647.D
Acq On : 05/29/14 07:08
Operator : SGG
Sam Mult : 1 Vial# : 4
Misc : S,5G:.4
Qt Meth : 6M S0519.M
Qt On : 05/29/14 07:20
Qt Upd On: 05/20/14 13:55
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 6M10647.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Iso-propylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
o-Xylene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Time-->


Abundance
TIC: 6M10647.D\data.ms
m&p-Xylenes,T
o-Xylene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
n-Propylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

GC/MS Volatile Data
Raw QC Data

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6
Data File: 6M10285.D
Analysis Date: 05/19/14 10:25
Method: EPA 8260C

Tune Scan/Time Range: Average of 3.832 to 3.950 min

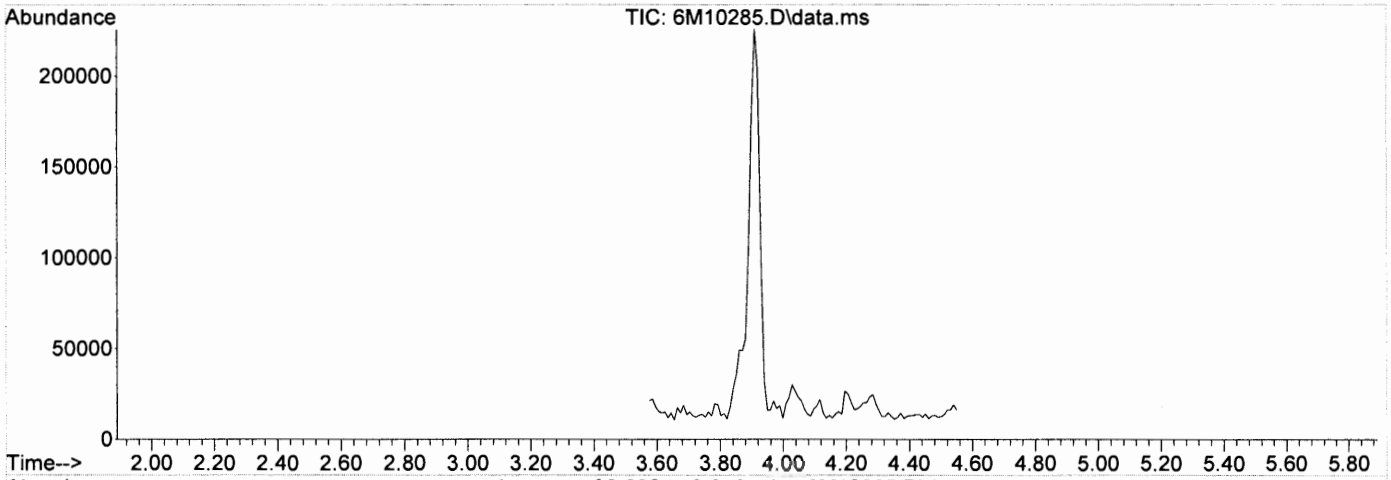
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	22.9	3064	PASS
75	95	30	60	46.2	6184	PASS
95	95	100	100	100.0	13383	PASS
96	95	5	9	6.9	922	PASS
173	174	0.00	2	1.3	107	PASS
174	95	50	100	61.5	8232	PASS
175	174	5	9	7.6	626	PASS
176	174	95	101	100.9	8306	PASS
177	176	5	9	6.7	558	PASS

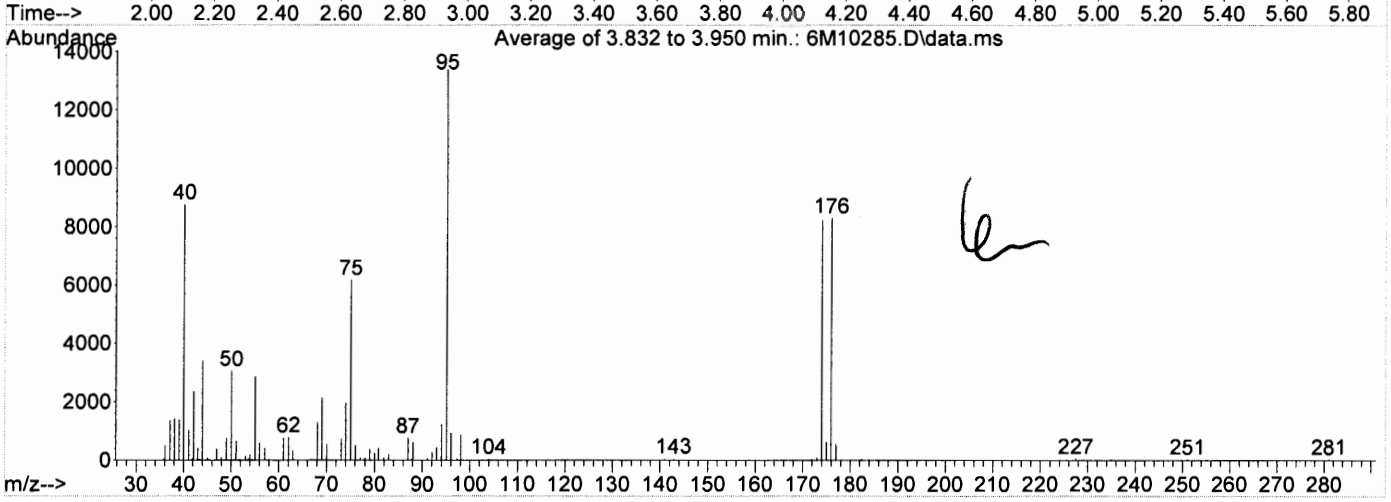
Data File	Sample Number	Analysis Date:
6M10286.D	BLK	05/19/14 10:35
6M10287.D	BLK	05/19/14 10:52
6M10288.D	CAL @ 0.5 PPB	05/19/14 11:09
6M10289.D	CAL @ 1 PPB	05/19/14 11:25
6M10290.D	2 PPB	05/19/14 11:42
6M10291.D	5 PPB	05/19/14 12:01
6M10292.D	20 PPB	05/19/14 12:18
6M10293.D	CAL @ 50 PPB	05/19/14 12:34
6M10294.D	CAL @ 100 PPB	05/19/14 12:51
6M10295.D	BLK	05/19/14 13:08
6M10296.D	CAL @ 250 PPB	05/19/14 13:24
6M10297.D	BLK	05/19/14 13:43
6M10298.D	CAL @ 500 PPB	05/19/14 13:59
6M10299.D	BLK	05/19/14 14:16
6M10300.D	BLK	05/19/14 14:33
6M10301.D	BLK	05/19/14 14:52
6M10302.D	CAL @ 2 PPB	05/19/14 15:09
6M10303.D	CAL @ 5 PPB	05/19/14 15:26
6M10304.D	CAL @ 20 PPB	05/19/14 15:42
6M10305.D	ICV	05/19/14 15:59
6M10306.D	BLK	05/19/14 16:16
6M10307.D	DAILY BLANK	05/19/14 16:33
6M10308.D	AC78623-010	05/19/14 16:50
6M10309.D	AC78682-003	05/19/14 17:06
6M10310.D	MBS35788	05/19/14 17:23
6M10311.D	BLK	05/19/14 17:40
6M10312.D	AC78682-003	05/19/14 17:56
6M10313.D	AC78741-002	05/19/14 18:13
6M10314.D	AC78741-003	05/19/14 18:29
6M10315.D	AC78741-004	05/19/14 18:46
6M10316.D	AC78741-005	05/19/14 19:02
6M10317.D	AC78741-006	05/19/14 19:19
6M10318.D	AC78741-007	05/19/14 19:35
6M10319.D	AC78741-008	05/19/14 19:52
6M10320.D	AC78741-001	05/19/14 20:09
6M10321.D	AC78679-002	05/19/14 20:25
6M10322.D	AC78677-004	05/19/14 20:42
6M10323.D	AC78677-003	05/19/14 20:58
6M10324.D	AC78671-005	05/19/14 21:15
6M10325.D	AC78694-001	05/19/14 21:31
6M10326.D	STD	05/19/14 21:48
6M10327.D	BLK	05/19/14 22:05
6M10328.D	BLK	05/19/14 22:21
6M10329.D	BLK	05/19/14 22:38
6M10330.D	BLK	05/19/14 22:54
6M10331.D	BLK	05/19/14 23:11

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-19-14\
Data File : 6M10285.D
Acq On : 19 May 2014 10:25
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 7 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2014\GCMS_6\MethodQt\6M_S0519.M
Title : @GCMS_6,ug,624,8260
Last Update : Mon May 19 16:01:01 2014





Spectrum Information: Average of 3.832 to 3.950 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	3064	PASS
75	95	30	60	46.2	6184	PASS
95	95	100	100	100.0	13383	PASS
96	95	5	9	6.9	922	PASS
173	174	0.00	2	1.3	107	PASS
174	95	50	100	61.5	8232	PASS
175	174	5	9	7.6	626	PASS
176	174	95	101	100.9	8306	PASS
177	176	5	9	6.7	558	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3

Data File: 3M51153.D
Analysis Date: 05/21/14 10:44
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.094 to 4.232 min

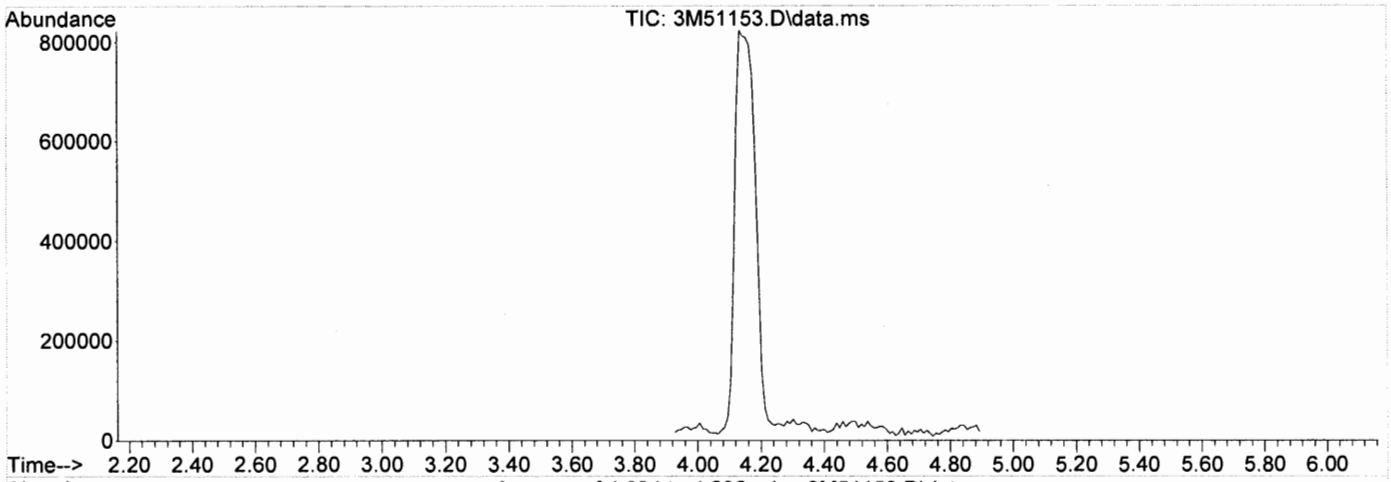
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	22.0	15933	PASS
75	95	30	60	48.7	35239	PASS
95	95	100	100	100.0	72427	PASS
96	95	5	9	8.0	5808	PASS
173	174	0.00	2	0.2	169	PASS
174	95	50	100	99.1	71789	PASS
175	174	5	9	7.8	5583	PASS
176	174	95	101	97.6	70078	PASS
177	176	5	9	6.6	4642	PASS

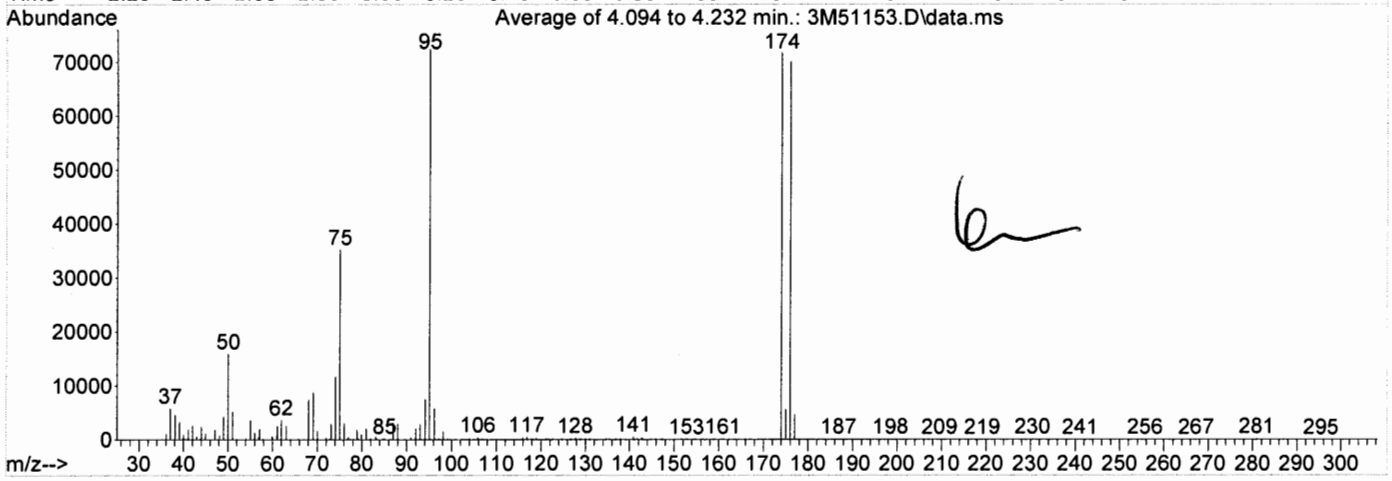
Data File	Sample Number	Analysis Date:
3M51154.D	BLK	05/21/14 10:56
3M51155.D	20 PPB	05/21/14 11:13
3M51156.D	20 PPB	05/21/14 11:29
3M51157.D	BLK	05/21/14 11:45
3M51159.D	CAL @ 0.5 PPB	05/21/14 12:22
3M51160.D	CAL @ 1 PPB	05/21/14 12:38
3M51161.D	CAL @ 5 PPB	05/21/14 12:54
3M51162.D	CAL @ 10 PPB	05/21/14 13:10
3M51163.D	CAL @ 20 PPB	05/21/14 13:26
3M51164.D	BLK	05/21/14 13:42
3M51165.D	CAL @ 50 PPB	05/21/14 13:59
3M51166.D	BLK	05/21/14 14:16
3M51167.D	CAL @ 100 PPB	05/21/14 14:32
3M51168.D	BLK	05/21/14 14:53
3M51169.D	BLK	05/21/14 15:10
3M51170.D	CAL @ 250 PPB	05/21/14 15:25
3M51171.D	BLK	05/21/14 15:41
3M51172.D	CAL @ 500 PPB	05/21/14 15:56
3M51173.D	BLK	05/21/14 16:12
3M51174.D	BLK	05/21/14 16:27
3M51175.D	BLK	05/21/14 16:42
3M51176.D	ICV	05/21/14 16:57
3M51177.D	ICV	05/21/14 17:13
3M51178.D	BLK	05/21/14 17:28
3M51179.D	BLK	05/21/14 17:44
3M51180.D	BLK	05/21/14 17:59
3M51181.D	MBS35803	05/21/14 18:14
3M51182.D	MBS35804	05/21/14 21:00
3M51183.D	MBS35805	05/22/14 08:57

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-21-14\
Data File : 3M51153.D
Acq On : 21 May 2014 10:44
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 10 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2014\GCMS_3\MethodQt\3M_A0506.M
Title : @GCMS_3,ug,624,8260
Last Update : Tue May 06 14:28:45 2014





Spectrum Information: Average of 4.094 to 4.232 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	15933	PASS
75	95	30	60	48.7	35239	PASS
95	95	100	100	100.0	72427	PASS
96	95	5	9	8.0	5808	PASS
173	174	0.00	2	0.2	169	PASS
174	95	50	100	99.1	71789	PASS
175	174	5	9	7.8	5583	PASS
176	174	95	101	97.6	70078	PASS
177	176	5	9	6.6	4642	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3

Data File: 3M51185.D
Analysis Date: 05/22/14 09:25
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.103 to 4.221 min

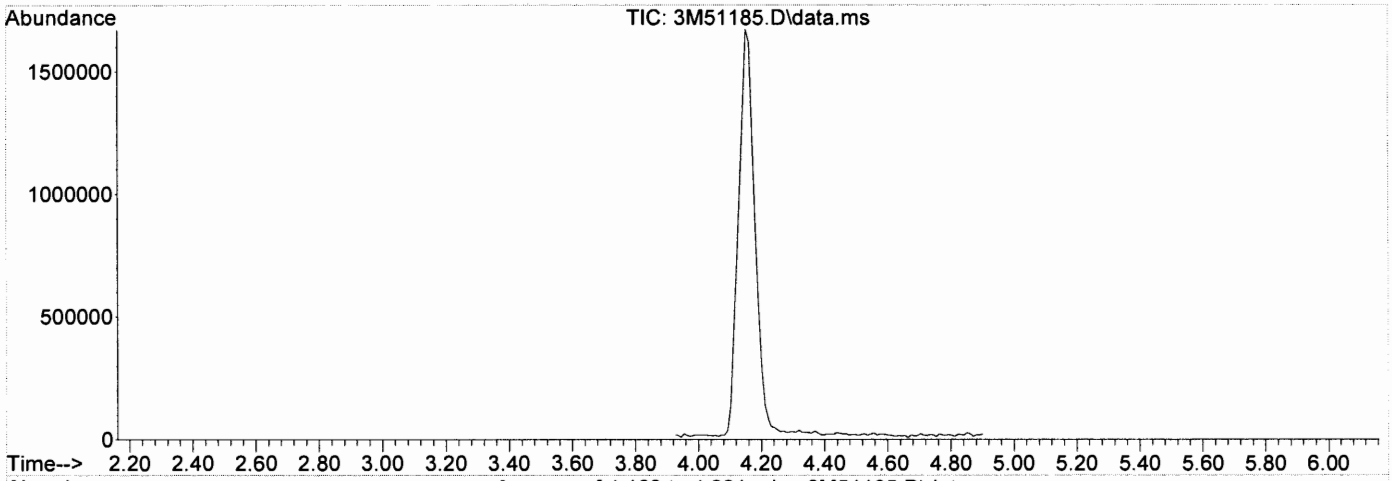
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	26.9	24611	PASS
75	95	30	60	51.3	47014	PASS
95	95	100	100	100.0	91633	PASS
96	95	5	9	7.1	6468	PASS
173	174	0.00	2	0.6	473	PASS
174	95	50	100	93.6	85753	PASS
175	174	5	9	8.3	7148	PASS
176	174	95	101	100.0	85770	PASS
177	176	5	9	7.2	6177	PASS

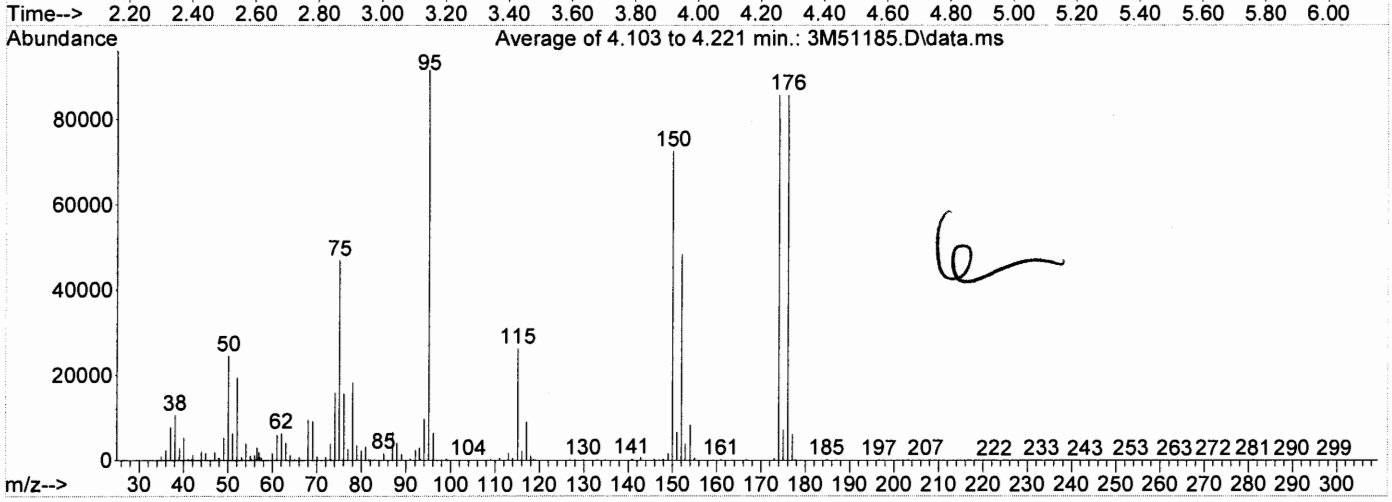
Data File	Sample Number	Analysis Date:
3M51186.D	BLK	05/22/14 09:35
3M51187.D	CAL @ 20 PPB	05/22/14 09:52
3M51188.D	20 PPB	05/22/14 10:09
3M51189.D	BLK	05/22/14 10:25
3M51190.D	DAILY BLANK	05/22/14 10:42
3M51191.D	DAILY BLANK	05/22/14 10:59
3M51192.D	AC78746-004(10X)	05/22/14 11:15
3M51193.D	AC78746-001(8uL)	05/22/14 11:31
3M51194.D	MBS35809	05/22/14 11:48
3M51195.D	MBS35810	05/22/14 12:05
3M51196.D	AC78707-001(T)	05/22/14 12:23
3M51197.D	AC78707-002(T)	05/22/14 12:40
3M51198.D	AC78707-003(T)	05/22/14 12:57
3M51199.D	AC78707-004(T)	05/22/14 13:13
3M51200.D	AC78747-001(T)	05/22/14 13:29
3M51201.D	EF-1-V-186621(052	05/22/14 13:45
3M51202.D	AC78707-003(T)	05/22/14 14:01
3M51203.D	AC78717-007(20X)	05/22/14 14:18
3M51204.D	AC78748-001(T)	05/22/14 14:35
3M51205.D	AC78707-002(5X)(	05/22/14 14:51
3M51206.D	AC78746-002(T)	05/22/14 15:07
3M51207.D	AC78746-003(T)	05/22/14 15:23
3M51208.D	AC78746-005(T)	05/22/14 15:39
3M51209.D	AC78746-006(T)	05/22/14 15:56
3M51210.D	AC78746-006(40uL	05/22/14 16:13
3M51211.D	AC78724-001(T)	05/22/14 16:30
3M51212.D	AC78746-002(T)	05/22/14 16:46
3M51213.D	BLK	05/22/14 17:03
3M51214.D	AC78763-014	05/22/14 17:19
3M51215.D	AC78763-015	05/22/14 17:35
3M51216.D	AC78763-016	05/22/14 17:52
3M51217.D	AC78763-017	05/22/14 18:08
3M51218.D	AC78763-018	05/22/14 18:24
3M51219.D	AC78762-001(40uL	05/22/14 18:40
3M51220.D	AC78747-001(T:M	05/22/14 18:56
3M51221.D	AC78747-001(T:M	05/22/14 19:12
3M51222.D	BLK	05/22/14 19:27
3M51223.D	BLK	05/22/14 19:42
3M51224.D	AC78717-003	05/22/14 19:58
3M51225.D	AC78717-001(20X)	05/22/14 20:13
3M51226.D	AC78717-005(50X)	05/22/14 20:28
3M51227.D	AC78734-002(MS)	05/22/14 20:43
3M51228.D	AC78734-002(MSD	05/22/14 20:59
3M51229.D	MBS35814	05/22/14 21:14

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-22-14\
Data File : 3M51185.D
Acq On : 22 May 2014 9:25
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 10 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2014\GCMS_3\MethodQt\3M_A0521.M
Title : @GCMS_3,ug,624,8260
Last Update : Thu May 22 09:58:29 2014





6

Spectrum Information: Average of 4.103 to 4.221 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.9	24611	PASS
75	95	30	60	51.3	47014	PASS
95	95	100	100	100.0	91633	PASS
96	95	5	9	7.1	6468	PASS
173	174	0.00	2	0.6	473	PASS
174	95	50	100	93.6	85753	PASS
175	174	5	9	8.3	7148	PASS
176	174	95	101	100.0	85770	PASS
177	176	5	9	7.2	6177	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 3M51231.D
Instrument: GCMS 3 **Analysis Date:** 05/23/14 09:11
Method: EPA 8260C
Tune Scan/Time Range: Average of 4.103 to 4.221 min

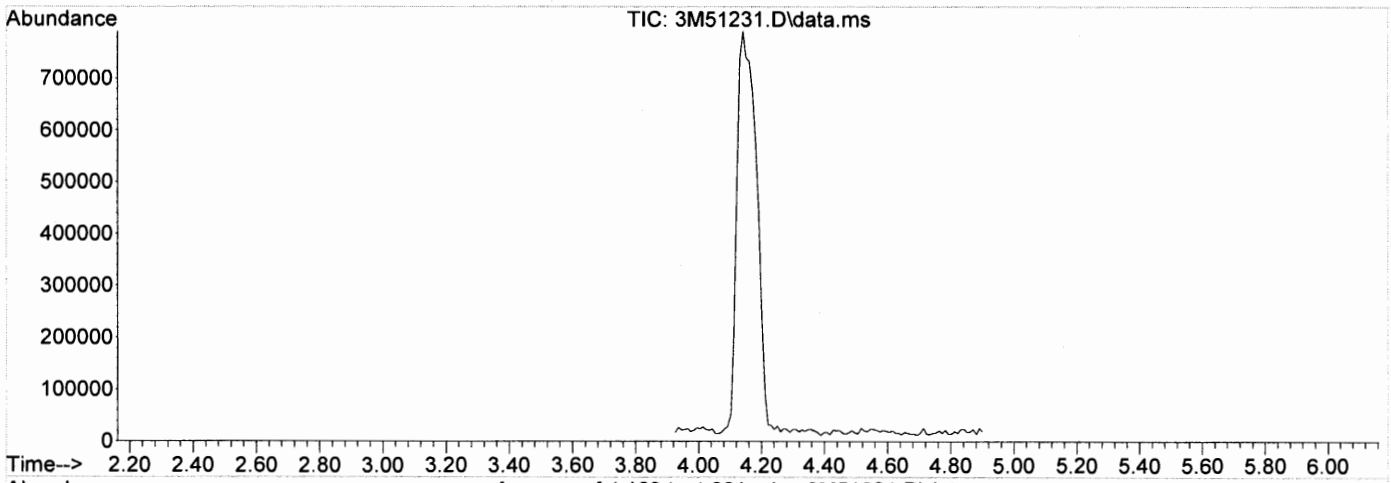
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	21.5	17727	PASS
75	95	30	60	47.3	38999	PASS
95	95	100	100	100.0	82516	PASS
96	95	5	9	6.1	5002	PASS
173	174	0.00	2	0.3	233	PASS
174	95	50	100	96.6	79728	PASS
175	174	5	9	7.9	6314	PASS
176	174	95	101	95.9	76434	PASS
177	176	5	9	7.4	5663	PASS

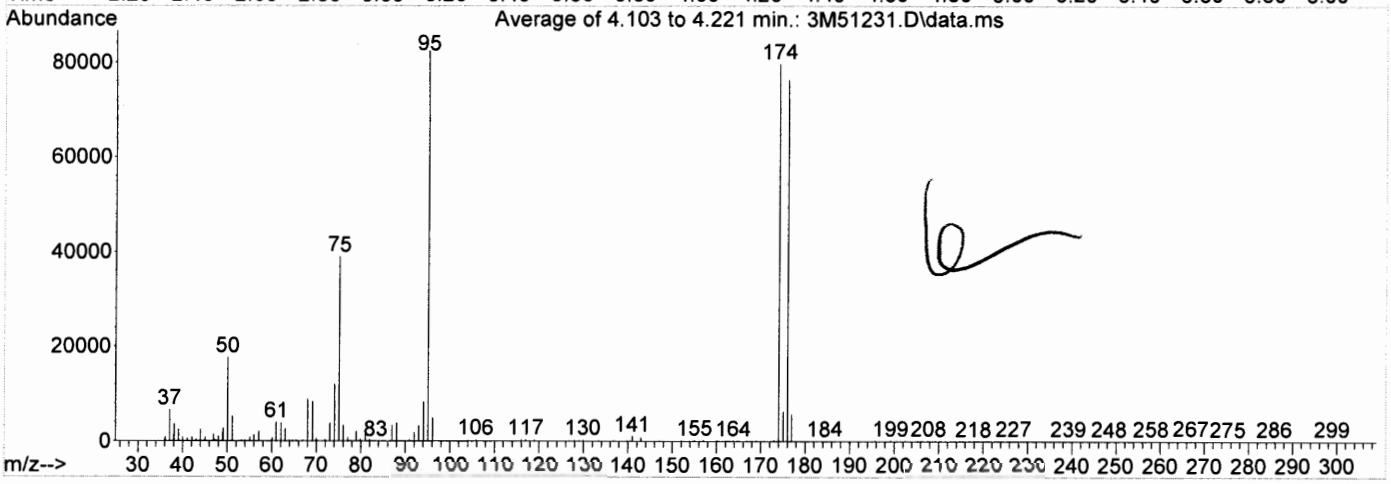
Data File	Sample Number	Analysis Date:
3M51232.D	BLK	05/23/14 09:20
3M51233.D	20 PPB	05/23/14 09:40
3M51233A.D	CAL @ 20 PPB	05/23/14 09:57
3M51234.D	BLK	05/23/14 10:13
3M51235.D	DAILY BLANK	05/23/14 10:30
3M51236.D	DAILY BLANK	05/23/14 10:47
3M51237.D	AC78785-009	05/23/14 11:04
3M51238.D	AC78722-008	05/23/14 11:21
3M51239.D	EF-1-V-186621(052	05/23/14 11:37
3M51240.D	AC78653-005	05/23/14 11:54
3M51241.D	AC78653-003	05/23/14 12:10
3M51242.D	MBS35816	05/23/14 12:27
3M51243.D	MBS35817	05/23/14 12:43
3M51244.D	BLK	05/23/14 13:00
3M51245.D	AC78787-005	05/23/14 13:16
3M51246.D	AC78787-013	05/23/14 13:33
3M51247.D	AC78763-014	05/23/14 13:49
3M51248.D	AC78778-004	05/23/14 14:06
3M51249.D	AC78778-005	05/23/14 14:23
3M51250.D	AC78787-003	05/23/14 14:39
3M51251.D	AC78787-009	05/23/14 14:56
3M51252.D	AC78771-001(0.4u	05/23/14 15:13
3M51253.D	BLK	05/23/14 15:29
3M51254.D	AC78787-011	05/23/14 15:45
3M51255.D	AC78734-004	05/23/14 16:02
3M51256.D	AC78787-016(50X)	05/23/14 16:17
3M51257.D	AC78792-006(80uL	05/23/14 16:34
3M51258.D	AC78763-014(MS)	05/23/14 16:51
3M51259.D	AC78763-014(MSD	05/23/14 17:07
3M51260.D	AC78787-016	05/23/14 17:23
3M51261.D	AC78792-009	05/23/14 17:38
3M51262.D	AC78792-010	05/23/14 17:53
3M51263.D	BLK	05/23/14 18:09
3M51264.D	AC78732-004	05/23/14 18:24
3M51265.D	AC78732-007	05/23/14 18:39
3M51266.D	AC78732-012	05/23/14 18:54
3M51267.D	AC78732-002	05/23/14 19:12
3M51268.D	AC78732-003	05/23/14 19:27
3M51269.D	AC78732-005(MS:	05/23/14 19:42
3M51270.D	AC78732-006(MSD	05/23/14 19:57
3M51271.D	MBS35822	05/23/14 20:13
3M51271A.D	MBS35823	05/23/14 20:28
3M51272.D	BLK	05/23/14 20:44
3M51273.D	AC78791-006	05/23/14 20:59
3M51274.D	AC78793-003	05/23/14 21:14
3M51275.D	AC78797-002	05/23/14 21:30
3M51276.D	AC78800-012	05/23/14 21:45
3M51277.D	AC78800-013	05/23/14 22:01
3M51278.D	AC78809-002	05/23/14 22:16
3M51279.D	AC78809-003	05/23/14 22:31
3M51280.D	AC78807-002	05/23/14 22:47
3M51281.D	AC78807-003	05/23/14 23:02
3M51282.D	AC78808-002	05/23/14 23:17
3M51283.D	AC78808-003	05/23/14 23:33
3M51284.D	AC78805-002	05/23/14 23:49
3M51285.D	AC78805-003	05/24/14 00:04
3M51286.D	BLK	05/24/14 00:20
3M51287.D	BLK	05/24/14 00:35
3M51288.D	MBS35824	05/24/14 00:51
3M51289.D	BLK	05/24/14 01:06
3M51290.D	AC78798-001	05/24/14 01:21

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Data File : 3M51231.D
Acq On : 23 May 2014 9:11
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 10 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2014\GCMS_3\MethodQt\3M_A0521.M
Title : @GCMS_3,ug,624,8260
Last Update : Thu May 22 09:58:29 2014





Spectrum Information: Average of 4.103 to 4.221 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	17727	PASS
75	95	30	60	47.3	38999	PASS
95	95	100	100	100.0	82516	PASS
96	95	5	9	6.1	5002	PASS
173	174	0.00	2	0.3	233	PASS
174	95	50	100	96.6	79728	PASS
175	174	5	9	7.9	6314	PASS
176	174	95	101	95.9	76434	PASS
177	176	5	9	7.4	5663	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6

Data File: 6M10507.D
Analysis Date: 05/23/14 16:48
Method: EPA 8260C

Tune Scan/Time Range: Average of 3.876 to 3.905 min

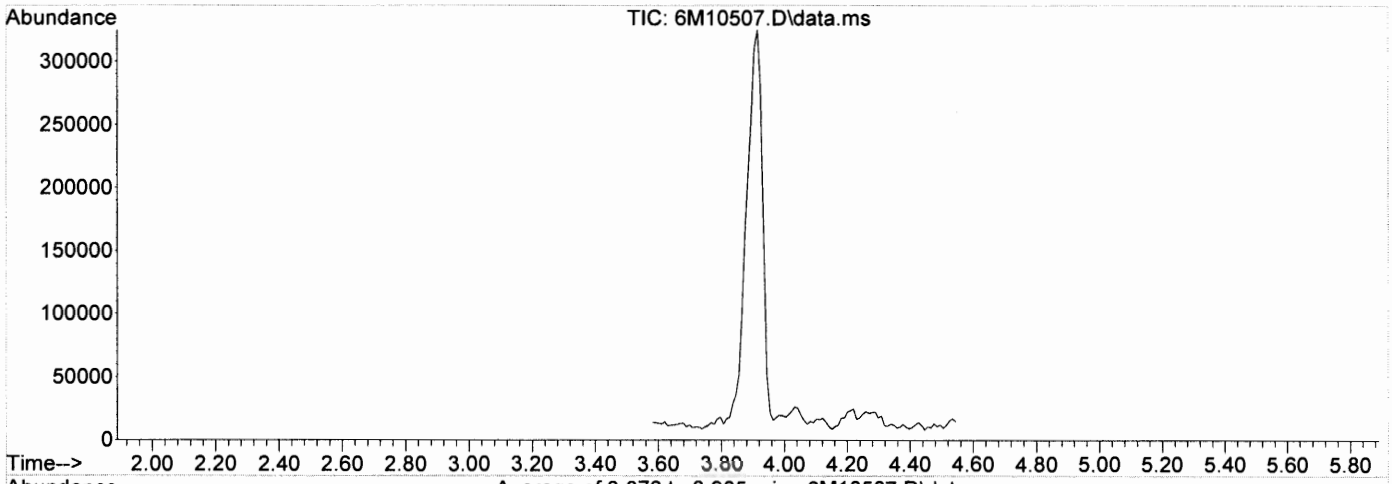
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	28.0	12491	PASS
75	95	30	60	55.6	24766	PASS
95	95	100	100	100.0	44536	PASS
96	95	5	9	5.6	2511	PASS
173	174	0.00	2	1.8	532	PASS
174	95	50	100	67.5	30046	PASS
175	174	5	9	7.9	2383	PASS
176	174	95	101	95.4	28677	PASS
177	176	5	9	7.8	2231	PASS

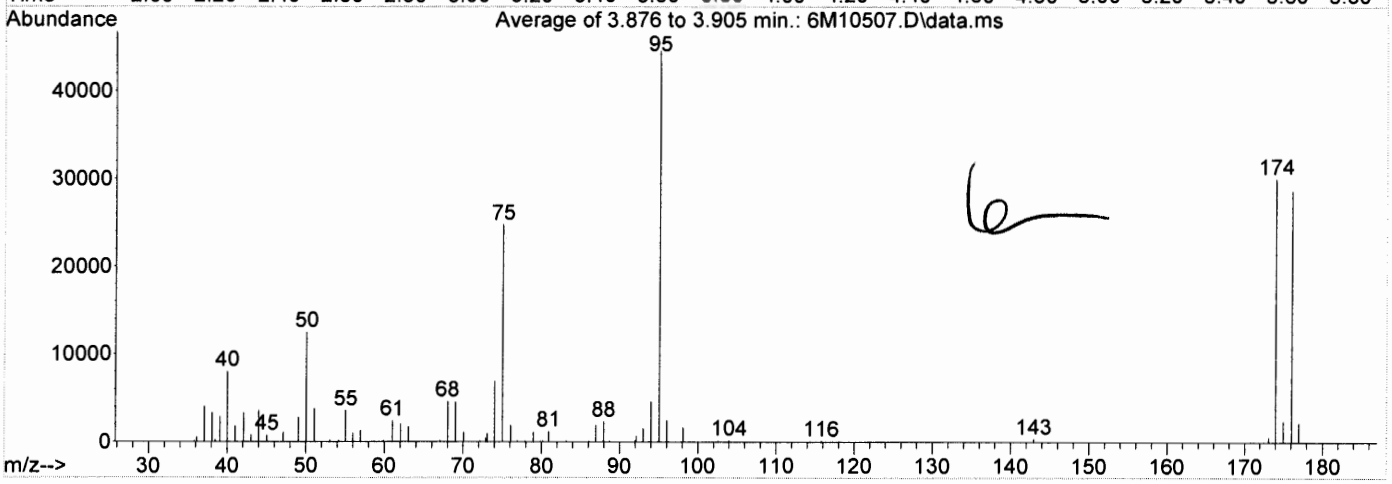
Data File	Sample Number	Analysis Date:
6M10508.D	CAL @ 50 PPB	05/23/14 16:58
6M10509.D	BLK	05/23/14 17:20
6M10510.D	DAILY BLANK	05/23/14 17:37
6M10511.D	AC78761-001	05/23/14 17:54
6M10512.D	MBS35820	05/23/14 18:11
6M10513.D	AC78752-001(MS)	05/23/14 18:27
6M10514.D	AC78752-001(MSD	05/23/14 18:44
6M10515.D	AC78680-001	05/23/14 19:01
6M10516.D	AC78680-002	05/23/14 19:17
6M10517.D	AC78680-003	05/23/14 19:34
6M10518.D	AC78680-004	05/23/14 19:50
6M10519.D	AC78680-005	05/23/14 20:07
6M10520.D	AC78769-001	05/23/14 20:24
6M10521.D	AC78769-002	05/23/14 20:40
6M10522.D	AC78769-003	05/23/14 20:57
6M10523.D	AC78769-004	05/23/14 21:14
6M10524.D	AC78800-002	05/23/14 21:30
6M10525.D	AC78800-004	05/23/14 21:47
6M10526.D	AC78800-006	05/23/14 22:04
6M10527.D	BLK	05/23/14 22:20
6M10528.D	AC78744-002	05/23/14 22:37
6M10529.D	AC78744-001	05/23/14 22:54
6M10530.D	MBS35836	05/23/14 23:10
6M10531.D	AC78778-001	05/23/14 23:27
6M10532.D	AC78778-002	05/23/14 23:44
6M10533.D	AC78778-003	05/24/14 00:00
6M10534.D	AC78787-001	05/24/14 00:17
6M10535.D	AC78787-002	05/24/14 00:33
6M10536.D	AC78787-007	05/24/14 00:50
6M10537.D	AC78787-008	05/24/14 01:07
6M10538.D	AC78787-014	05/24/14 01:23
6M10539.D	AC78787-015	05/24/14 01:40
6M10540.D	AC78822-001	05/24/14 01:56
6M10541.D	AC78822-002	05/24/14 02:13
6M10542.D	AC78822-003	05/24/14 02:29

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Data File : 6M10507.D
Acq On : 23 May 2014 16:48
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 17 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2014\GCMS_6\MethodQt\6M_S0519.M
Title : @GCMS_6,ug,624,8260
Last Update : Mon May 19 16:01:01 2014





Spectrum Information: Average of 3.876 to 3.905 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	28.0	12491	PASS
75	95	30	60	55.6	24766	PASS
95	95	100	100	100.0	44536	PASS
96	95	5	9	5.6	2511	PASS
173	174	0.00	2	1.8	532	PASS
174	95	50	100	67.5	30046	PASS
175	174	5	9	7.9	2383	PASS
176	174	95	101	95.4	28677	PASS
177	176	5	9	7.8	2231	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6

Data File: 6M10591.D
Analysis Date: 05/28/14 07:11
Method: EPA 8260C

Tune Scan/Time Range: Average of 3.896 to 3.925 min

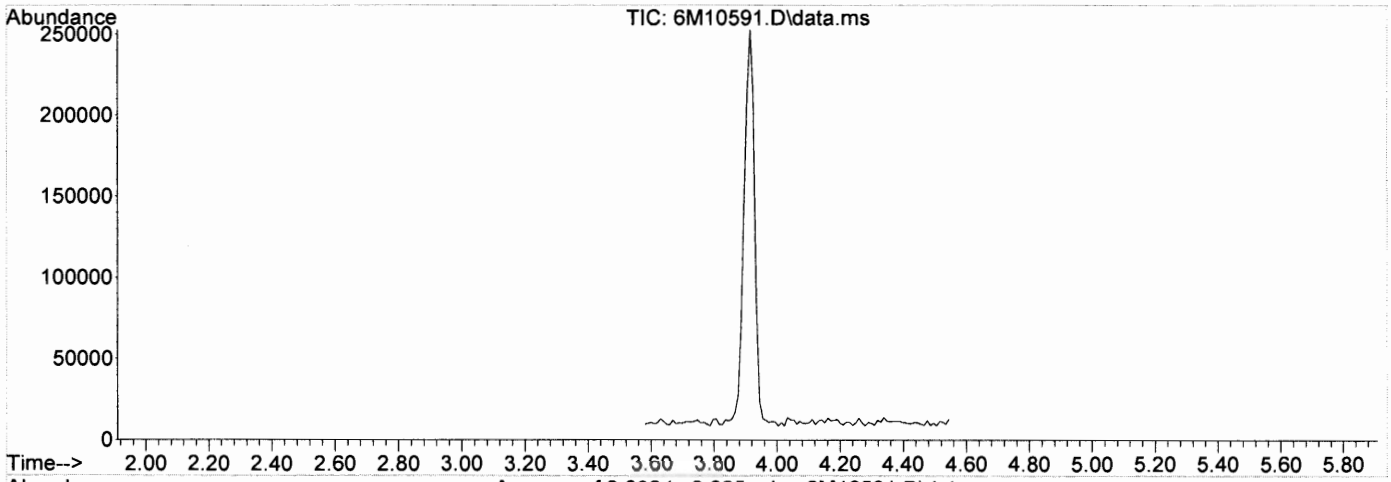
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	23.4	10210	PASS
75	95	30	60	45.4	19767	PASS
95	95	100	100	100.0	43578	PASS
96	95	5	9	6.7	2921	PASS
173	174	0.00	2	0.5	134	PASS
174	95	50	100	63.1	27512	PASS
175	174	5	9	7.1	1946	PASS
176	174	95	101	98.6	27129	PASS
177	176	5	9	7.0	1903	PASS

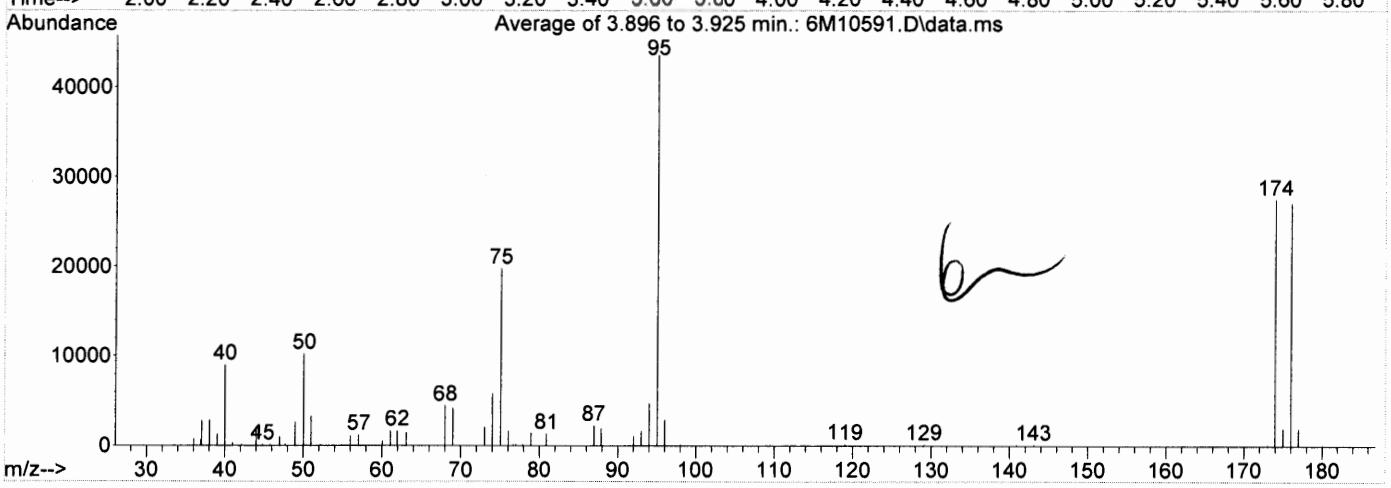
Data File	Sample Number	Analysis Date:
6M10594.D	CAL @ 50 PPB	05/28/14 07:46
6M10595.D	BLK	05/28/14 08:02
6M10596.D	DAILY BLANK	05/28/14 08:19
6M10597.D	MBS35844	05/28/14 08:35
6M10598.D	AC78778-001(MS)	05/28/14 08:52
6M10599.D	AC78778-001(MSD	05/28/14 09:09
6M10600.D	MBS35856	05/28/14 09:29
6M10601.D	AC78778-002(MS)	05/28/14 09:46
6M10602.D	AC78778-002(MSD	05/28/14 10:03
6M10603.D	BLK	05/28/14 10:19
6M10604.D	AC78818-001	05/28/14 10:36
6M10605.D	AC78787-019	05/28/14 10:53
6M10606.D	AC78787-018	05/28/14 11:09
6M10607.D	BLK	05/28/14 11:26
6M10608.D	AC78848-001	05/28/14 11:42
6M10609.D	AC78848-003	05/28/14 12:01
6M10610.D	AC78848-006	05/28/14 12:20
6M10611.D	AC78848-009	05/28/14 12:37
6M10612.D	AC78848-002	05/28/14 12:54
6M10613.D	BLK	05/28/14 13:10
6M10614.D	AC78848-012	05/28/14 13:27
6M10615.D	AC78848-016	05/28/14 13:44
6M10616.D	AC78848-020	05/28/14 14:00
6M10617.D	AC78848-023	05/28/14 14:17
6M10618.D	AC78848-015	05/28/14 14:34
6M10619.D	AC78848-017	05/28/14 14:50
6M10620.D	AC78848-018	05/28/14 15:07
6M10621.D	MBS35857	05/28/14 15:24
6M10622.D	AC78778-003(MS)	05/28/14 15:40
6M10623.D	AC78778-003(MSD	05/28/14 15:57
6M10624.D	BLK	05/28/14 16:13
6M10625.D	AC78848-027	05/28/14 16:30
6M10626.D	AC78848-030	05/28/14 16:48
6M10627.D	AC78848-010	05/28/14 17:08
6M10628.D	AC78848-011	05/28/14 17:24
6M10629.D	AC78848-005	05/28/14 17:41
6M10630.D	AC78816-002	05/28/14 17:57
6M10631.D	AC78871-001	05/28/14 18:14
6M10632.D	AC78871-002	05/28/14 18:31
6M10633.D	AC78825-001	05/28/14 18:47
6M10634.D	AC78825-002	05/28/14 19:04
6M10635.D	78866-002	05/28/14 19:20
6M10636.D	78866-001	05/28/14 19:37
6M10637.D	BLK	05/28/14 19:53
6M10638.D	BLK	05/28/14 20:10
6M10639.D	BLK	05/28/14 20:27

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-28-14\
Data File : 6M10591.D
Acq On : 28 May 2014 7:11
Operator : SGG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2014\GCMS_6\MethodQt\6M_S0519.M
Title : @GCMS_6,ug,624,8260
Last Update : Mon May 19 16:01:01 2014





Spectrum Information: Average of 3.896 to 3.925 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.4	10210	PASS
75	95	30	60	45.4	19767	PASS
95	95	100	100	100.0	43578	PASS
96	95	5	9	6.7	2921	PASS
173	174	0.00	2	0.5	134	PASS
174	95	50	100	63.1	27512	PASS
175	174	5	9	7.1	1946	PASS
176	174	95	101	98.6	27129	PASS
177	176	5	9	7.0	1903	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6

Data File: 6M10645.D
Analysis Date: 05/29/14 06:42
Method: EPA 8260C

Tune Scan/Time Range: Average of 3.880 to 3.900 min

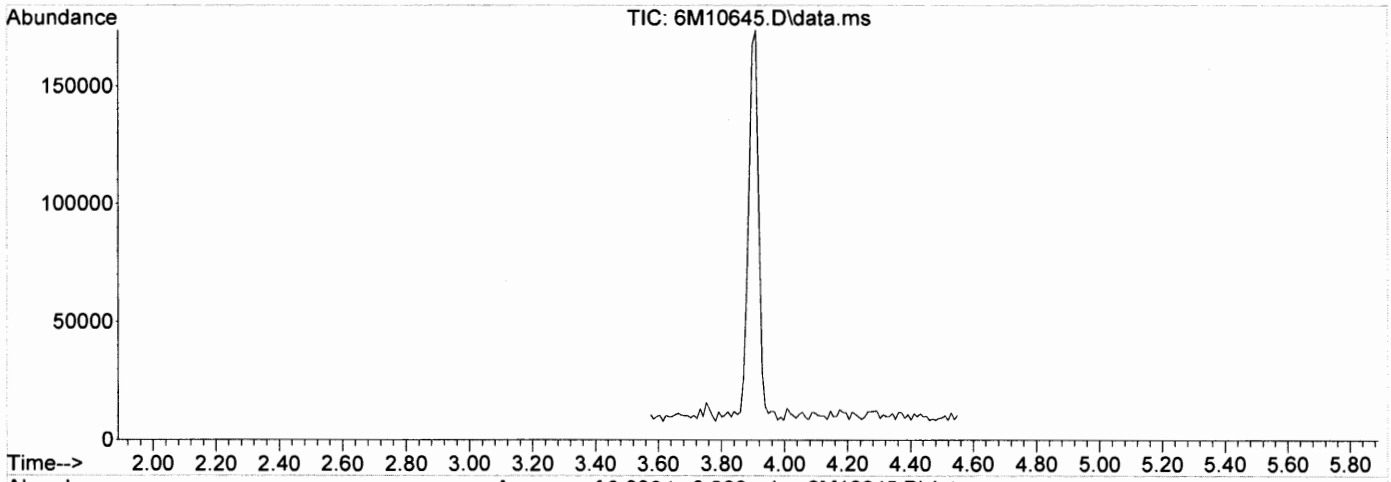
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	28.4	6405	PASS
75	95	30	60	56.0	12605	PASS
95	95	100	100	100.0	22519	PASS
96	95	5	9	8.8	1992	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	59.5	13408	PASS
175	174	5	9	8.8	1174	PASS
176	174	95	101	96.3	12908	PASS
177	176	5	9	6.3	811	PASS

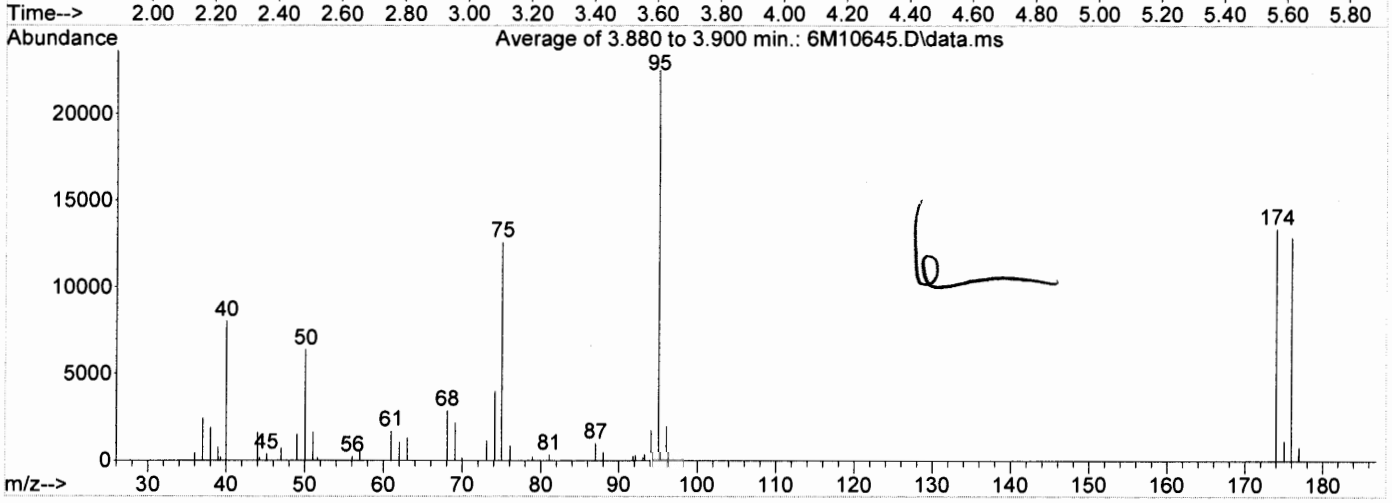
Data File	Sample Number	Analysis Date:
6M10647.D	CAL @ 50 PPB	05/29/14 07:08
6M10649.D	DAILY BLANK	05/29/14 07:42
6M10650.D	MBS35858	05/29/14 07:58
6M10651.D	AC78866-001(MS)	05/29/14 08:15
6M10652.D	AC78866-001(MSD	05/29/14 08:31
6M10653.D	BLK	05/29/14 08:48
6M10654.D	AC78866-001	05/29/14 09:05
6M10655.D	AC78866-002	05/29/14 09:22
6M10656.D	AC78820-004	05/29/14 09:39
6M10657.D	AC78820-013	05/29/14 09:55
6M10658.D	BLK	05/29/14 10:12
6M10659.D	AC78854-001	05/29/14 10:29
6M10660.D	AC78854-017	05/29/14 10:45
6M10661.D	AC78854-006	05/29/14 11:02
6M10662.D	AC78854-014	05/29/14 11:19
6M10663.D	AC78800-006	05/29/14 11:35
6M10664.D	BLK	05/29/14 11:52
6M10665.D	AC78873-004	05/29/14 12:09
6M10666.D	AC78873-005	05/29/14 12:25
6M10667.D	AC78787-020	05/29/14 12:42
6M10668.D	AC78787-022	05/29/14 12:59
6M10669.D	BLK	05/29/14 13:19
6M10670.D	AC78861-003	05/29/14 13:35
6M10671.D	AC78861-005	05/29/14 13:52
6M10672.D	MBS35871	05/29/14 14:08
6M10673.D	AC78787-023	05/29/14 14:25
6M10674.D	AC78861-006	05/29/14 14:42
6M10675.D	AC78861-009	05/29/14 15:00
6M10676.D	AC78793-002	05/29/14 15:17
6M10677.D	AC78861-011	05/29/14 15:34
6M10678.D	AC78861-012	05/29/14 15:50
6M10679.D	AC78861-013	05/29/14 16:07
6M10680.D	AC78861-014	05/29/14 16:24
6M10681.D	AC78861-015	05/29/14 16:43
6M10682.D	AC78861-016	05/29/14 16:59
6M10683.D	AC78861-017	05/29/14 17:16
6M10684.D	AC78861-008	05/29/14 17:33
6M10685.D	AC78787-024	05/29/14 17:49
6M10686.D	AC78787-025	05/29/14 18:06
6M10687.D	AC78787-026	05/29/14 18:22
6M10688.D	AC78787-021	05/29/14 18:39
6M10689.D	BLK	05/29/14 18:55
6M10690.D	BLK	05/29/14 19:12
6M10691.D	BLK	05/29/14 19:28

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Data File : 6M10645.D
Acq On : 29 May 2014 6:42
Operator : SGG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2014\GCMS_6\MethodQt\6M_S0519.M
Title : @GCMS_6,ug,624,8260
Last Update : Mon May 19 16:01:01 2014





Spectrum Information: Average of 3.880 to 3.900 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	28.4	6405	PASS
75	95	30	60	56.0	12605	PASS
95	95	100	100	100.0	22519	PASS
96	95	5	9	8.8	1992	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	59.5	13408	PASS
175	174	5	9	8.8	1174	PASS
176	174	95	101	96.3	12908	PASS
177	176	5	9	6.3	811	PASS

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M51236.D
Analysis Date: 05/23/14 10:47
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	136777612	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	10	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U

Worksheet #: 304422

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT/LSC Reviewed)

SampleID : DAILY BLANK
Data File: 3M51236.D
Acq On : 05/23/14 10:47

Operator : WP
Sam Mult : 1 Vial# : 8
Misc : A,5ML

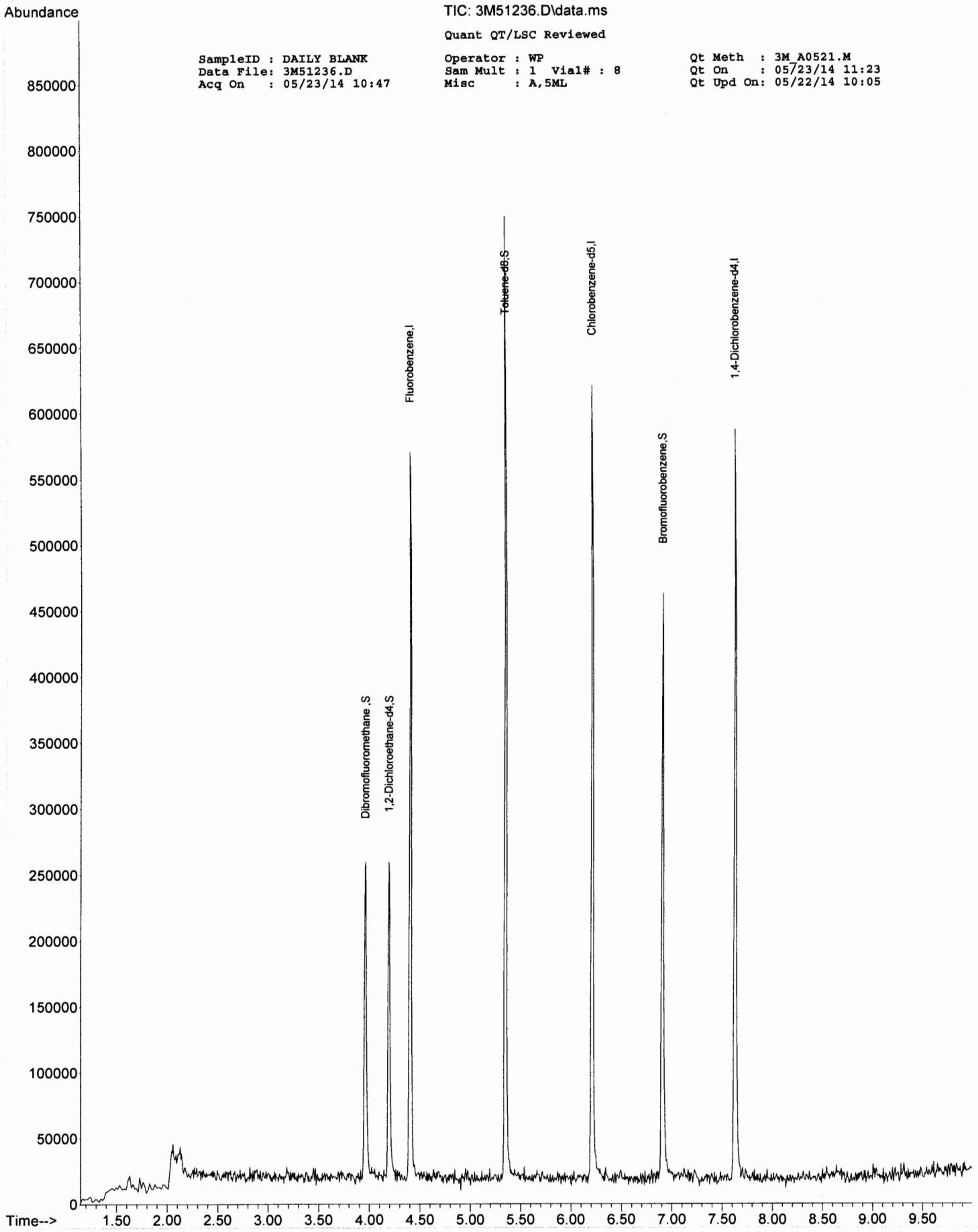
Qt Meth : 3M_A0521.M
Qt On : 05/23/14 11:23
Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.401	96	283259	30.00 ug/l	0.00
52) Chlorobenzene-d5	6.210	117	220590	30.00 ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.629	152	132724	30.00 ug/l	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	3.956	111	101968	29.77 ug/l	0.00
Spiked Amount 30.000			Recovery = 99.23%		
39) 1,2-Dichloroethane-d4	4.190	67	59570	30.77 ug/l	0.00
Spiked Amount 30.000			Recovery = 102.57%		
66) Toluene-d8	5.350	98	289725	30.42 ug/l	0.00
Spiked Amount 30.000			Recovery = 101.40%		
76) Bromofluorobenzene	6.907	174	108477	27.34 ug/l	0.00
Spiked Amount 30.000			Recovery = 91.13%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M51236.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 3M51236.D
Acq On : 05/23/14 10:47
Operator : WP
Sam Mult : 1 Vial# : 8
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/23/14 11:23
Qt Upd On: 05/22/14 10:05
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 6M10510.D
Analysis Date: 05/23/14 17:37
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.0020	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	136777612	m&p-Xylenes	0.0010	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT/LSC Reviewed)

SampleID : DAILY BLANK
Data File: 6M10510.D
Acq On : 05/23/14 17:37

Operator : WP
Sam Mult : 1 Vial# : 19
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/23/14 17:49
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.475	96	194050	30.00 ug/l	0.00
52) Chlorobenzene-d5	6.032	117	104946	30.00 ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.264	152	48823	30.00 ug/l	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	4.061	111	52596	30.12 ug/l	-0.01
Spiked Amount 30.000			Recovery = 100.40%		
39) 1,2-Dichloroethane-d4	4.277	67	24234	28.71 ug/l	0.00
Spiked Amount 30.000			Recovery = 95.70%		
66) Toluene-d8	5.299	98	158622	28.64 ug/l	0.00
Spiked Amount 30.000			Recovery = 95.47%		
76) Bromofluorobenzene	6.639	174	35368	29.41 ug/l	0.00
Spiked Amount 30.000			Recovery = 98.03%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

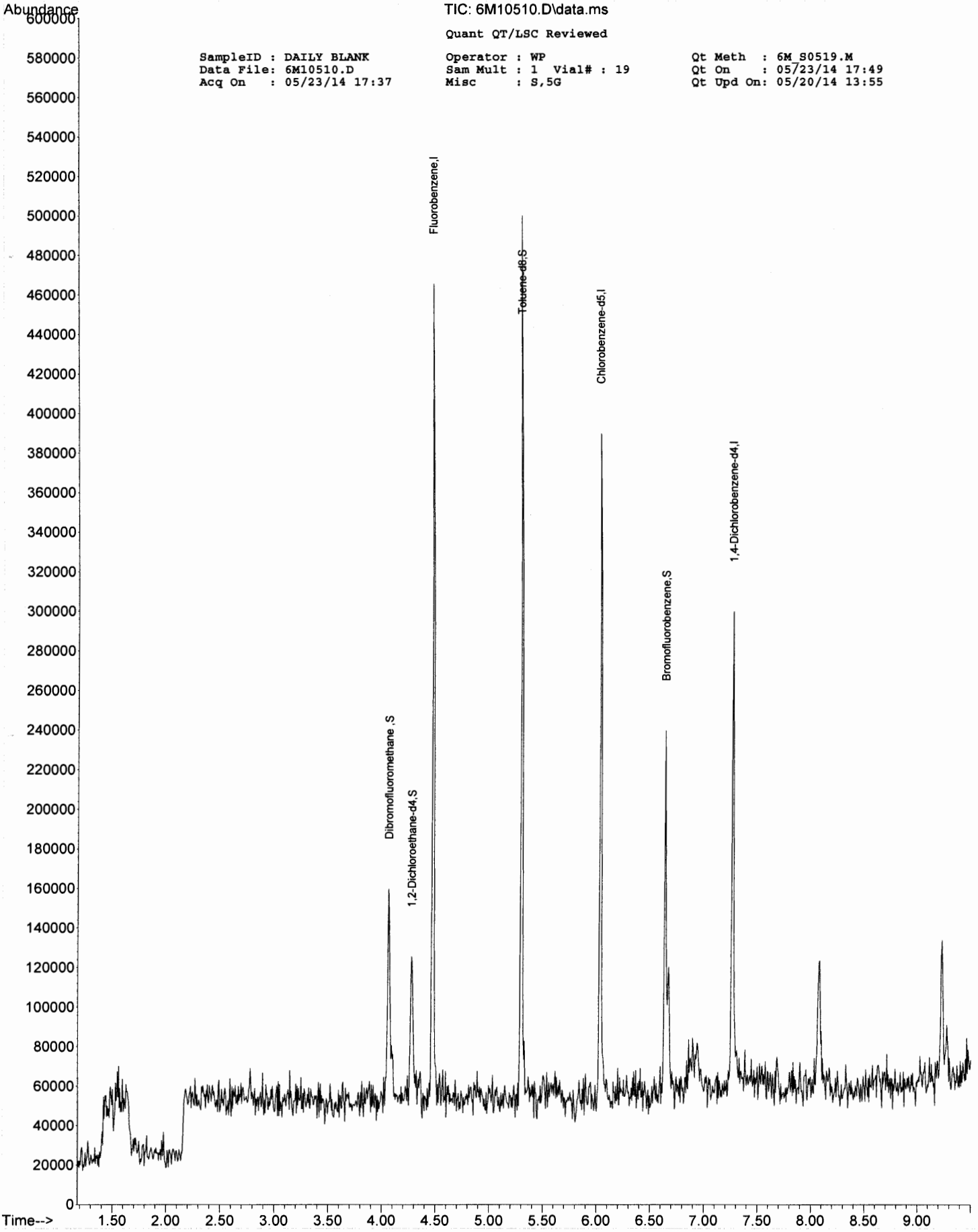
TIC: 6M10510.D\data.ms

Quant QT/LSC Reviewed

SampleID : DAILY BLANK
Data File: 6M10510.D
Acq On : 05/23/14 17:37

Operator : WP
Sam Mult : 1 Vial# : 19
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/23/14 17:49
Qt Upd On: 05/20/14 13:55



Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 6M10596.D
Analysis Date: 05/28/14 08:19
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.0020	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	136777612	m&p-Xylenes	0.0010	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT/LSC Reviewed)

SampleID : DAILY BLANK
Data File: 6M10596.D
Acq On : 05/28/14 08:19

Operator : SGG
Sam Mult : 1 Vial# : 6
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/28/14 08:46
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-28-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.470	96	182137	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.033	117	99940	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.265	152	45318	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.061	111	50712	30.94	ug/l	-0.01
Spiked Amount 30.000			Recovery = 103.13%			
39) 1,2-Dichloroethane-d4	4.272	67	22574	28.49	ug/l	-0.01
Spiked Amount 30.000			Recovery = 94.97%			
66) Toluene-d8	5.299	98	160146	30.37	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.23%			
76) Bromofluorobenzene	6.640	174	38655	34.63	ug/l	0.00
Spiked Amount 30.000			Recovery = 115.43%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

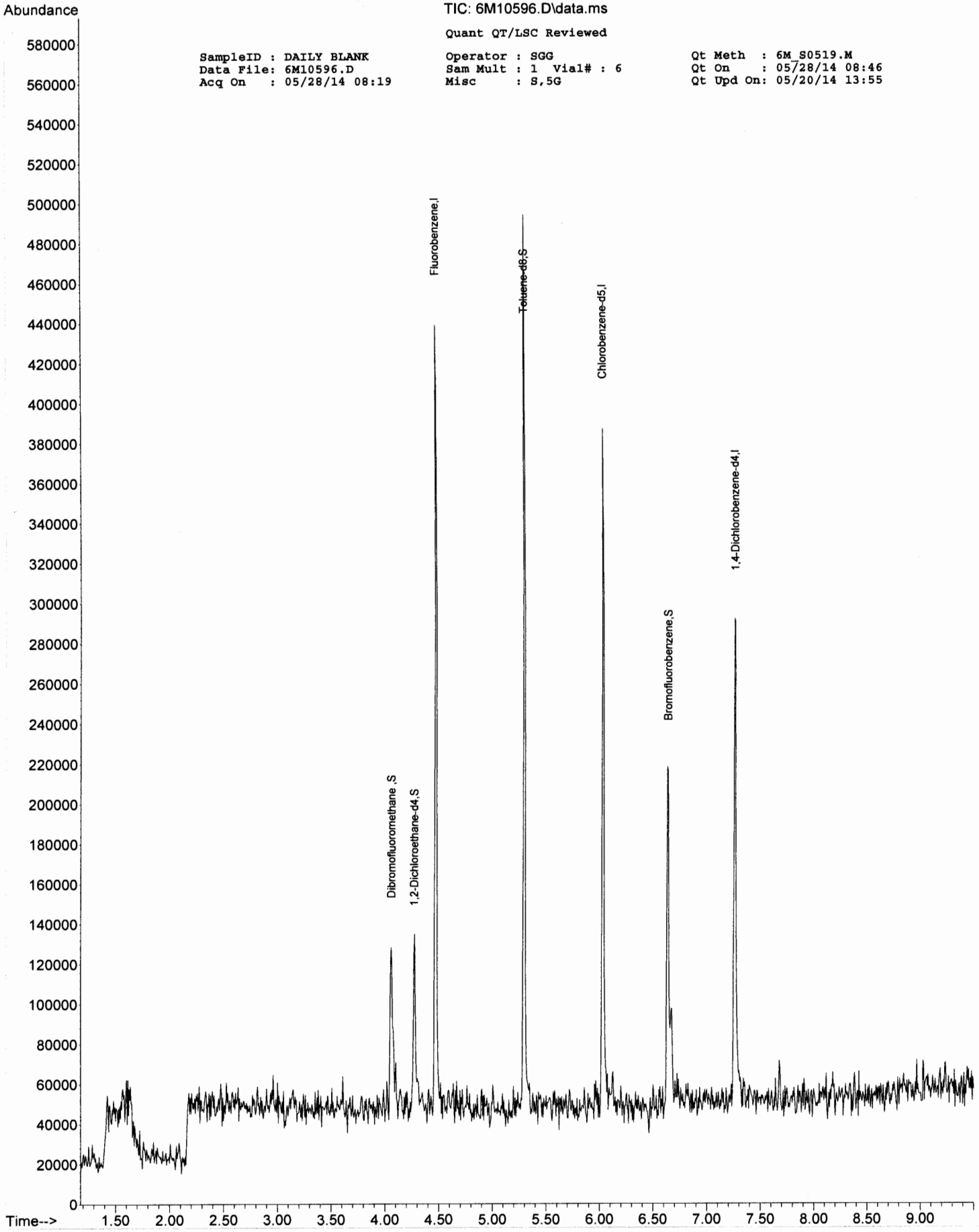
TIC: 6M10596.D\data.ms

Quant QT/LSC Reviewed

SampleID : DAILY BLANK
Data File: 6M10596.D
Acq On : 05/28/14 08:19

Operator : SGG
Sam Mult : 1 Vial# : 6
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/28/14 08:46
Qt Upd On: 05/20/14 13:55



Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 6M10649.D
Analysis Date: 05/29/14 07:42
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.0020	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	136777612	m&p-Xylenes	0.0010	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U

Worksheet #: 304422 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT/LSC Reviewed)

SampleID : DAILY BLANK
Data File: 6M10649.D
Acq On : 05/29/14 07:42

Operator : SGG
Sam Mult : 1 Vial# : 6
Misc : S,5G

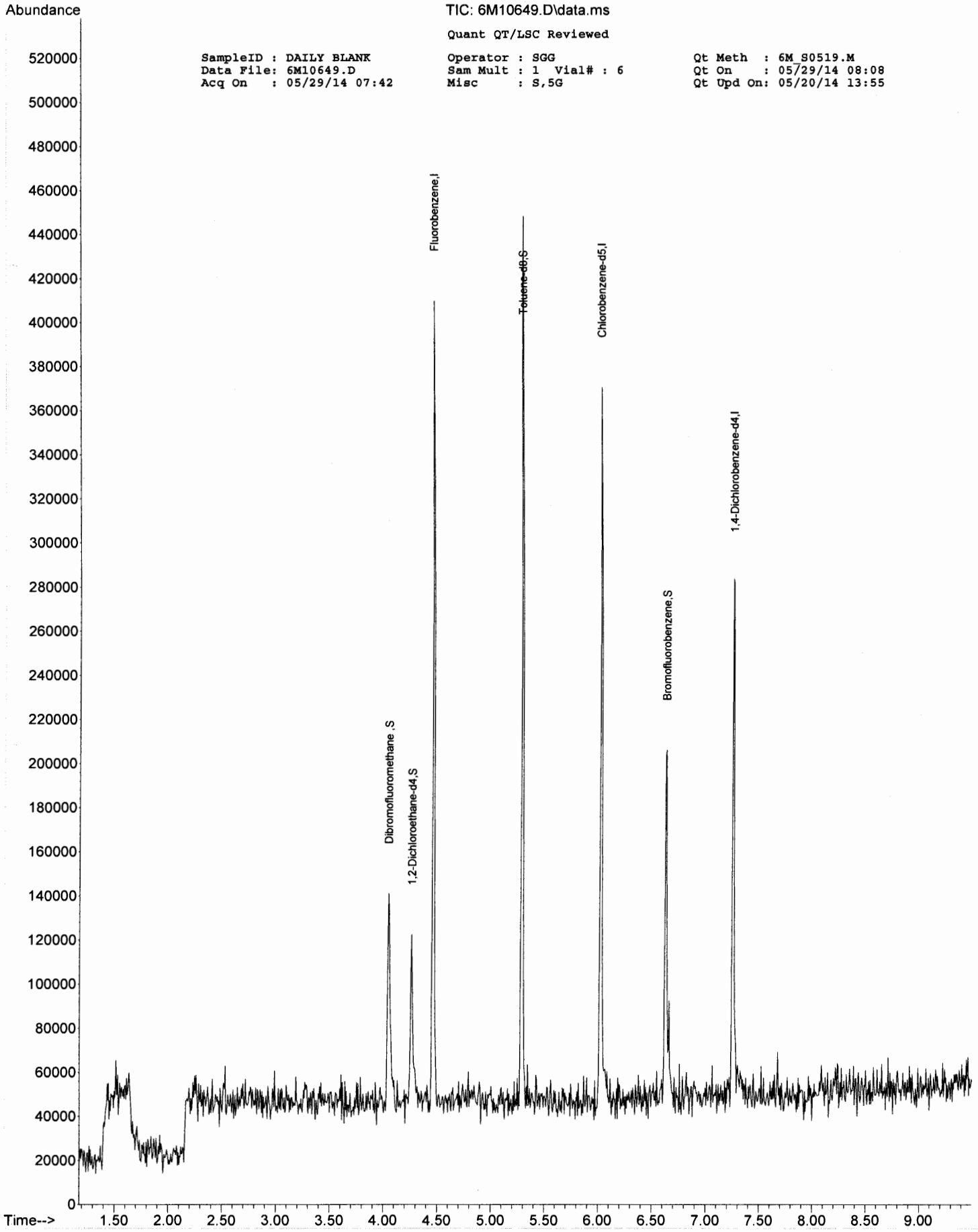
Qt Meth : 6M_S0519.M
Qt On : 05/29/14 08:08
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.462	96	171551	30.00 ug/l	-0.02
52) Chlorobenzene-d5	6.025	117	95167	30.00 ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.257	152	43255	30.00 ug/l	-0.01
System Monitoring Compounds					
37) Dibromofluoromethane	4.048	111	53022	34.35 ug/l	-0.02
Spiked Amount 30.000			Recovery = 114.50%		
39) 1,2-Dichloroethane-d4	4.264	67	21914	29.37 ug/l	-0.02
Spiked Amount 30.000			Recovery = 97.90%		
66) Toluene-d8	5.292	98	146724	29.22 ug/l	-0.01
Spiked Amount 30.000			Recovery = 97.40%		
76) Bromofluorobenzene	6.632	174	36694	34.44 ug/l	-0.01
Spiked Amount 30.000			Recovery = 114.80%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10649.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 6M10649.D
Acq On : 05/29/14 07:42
Operator : SGG
Sam Mult : 1 Vial# : 6
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/29/14 08:08
Qt Upd On: 05/20/14 13:55
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form3
Recovery Data
QC Batch: MBS35810

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51195.D	MBS35810	5/22/2014 12:05:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	17.2683	0	20	86	20	130
1,1-Dichloroethene	1	19.1431	0	20	96	50	130
1,1-Dichloroethane	1	17.386	0	20	87	50	130
Chloroform	1	18.0734	0	20	90	50	130
1,2-Dichloroethane	1	18.7177	0	20	94	50	130
2-Butanone	1	15.2873	0	20	76	20	130
Carbon Tetrachloride	1	19.3279	0	20	97	50	130
Trichloroethene	1	18.6072	0	20	93	50	130
Benzene	1	20.3295	0	20	102	50	130
Tetrachloroethene	1	20.7226	0	20	104	50	130
Toluene	1	17.8187	0	20	89	50	130
Chlorobenzene	1	17.4378	0	20	87	50	130
1,4-Dichlorobenzene	1	16.8905	0	20	84	50	130
1,2-Dichlorobenzene	1	16.6751	0	20	83	50	130
n-Propylbenzene	1	17.5738	0	20	88	50	130
sec-Butylbenzene	1	18.151	0	20	91	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 3M51195.D
Acq On : 05/22/14 12:05

Operator : WP
Sam Mult : 1 Vial# : 12
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/22/14 13:09
Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-22-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.406	96	286340	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.210	117	229783	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.628	152	134191	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.962	111	98171	28.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.50%			
39) 1,2-Dichloroethane-d4	4.196	67	59681	30.49	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.63%			
66) Toluene-d8	5.356	98	290635	29.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.63%			
76) Bromofluorobenzene	6.913	174	114396	28.52	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.07%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.276	51	124644	21.5563	ug/l	60
6) Dichlorodifluoromethane	1.259	85	37269	14.5831	ug/l	89
7) Chloromethane	1.392	50	46559	15.7457	ug/l	83
8) Bromomethane	1.675	94	17074	13.1683	ug/l	82
9) Vinyl Chloride	1.459	62	35374	17.2683	ug/l	90
10) Chloroethane	1.741	64	22362	19.0073	ug/l	94
11) Trichlorofluoromethane	1.908	101	35514	15.1972	ug/l	98
12) Ethyl ether	2.122	59	20913	19.3774	ug/l	94
13) Furan	2.140	39	74918	17.0278	ug/l	76
14) 1,1,2-Trichloro-1,2,2-...	2.266	101	32951	18.1202	ug/l	95
15) Methylene Chloride	2.621	84	42090	15.9294	ug/l	60
16) Acrolein	2.218	56	22186m	62.1579	ug/l	
17) Acrylonitrile	2.813	53	13577m	16.2224	ug/l	
18) Iodomethane	2.387	142	59562	15.0582	ug/l	92
19) Acetone	2.327	43	72420m	87.6377	ug/l	
20) Carbon Disulfide	2.441	76	106203	17.6229	ug/l	100
21) t-Butyl Alcohol	2.705	59	12736	59.9852	ug/l	77
22) n-Hexane	3.012	57	32490m	21.0215	ug/l	
23) Di-isopropyl-ether	3.180	45	195949	18.7138	ug/l	81
24) 1,1-Dichloroethene	2.278	61	71260	19.1431	ug/l	94
25) Methyl Acetate	2.549	43	48837	15.3010	ug/l	100
26) Methyl-t-butyl ether	2.819	73	100968	16.9747	ug/l	69
27) 1,1-Dichloroethane	3.138	63	84962	17.3860	ug/l	98
28) trans-1,2-Dichloroethene	2.819	96	36779	17.9819	ug/l	90
29) Ethyl-t-butyl ether	3.469	59	147854	44.9005	ug/l	96
30) cis-1,2-Dichloroethene	3.601	61	85342m	19.5839	ug/l	
31) Bromochloromethane	3.793	49	49240	17.6737	ug/l	84
32) 2,2-Dichloropropane	3.595	77	58978	23.3267	ug/l	97
33) Ethyl acetate	3.655	43	58080m	18.8284	ug/l	
34) 1,4-Dioxane	4.845	88	21974m	879.4185	ug/l	
35) 1,1-Dichloropropene	4.088	75	57190	18.8460	ug/l	95
36) Chloroform	3.841	83	80400	18.0734	ug/l	76
38) Cyclohexane	4.016	56	61077	19.6693	ug/l	84
40) 1,2-Dichloroethane	4.250	62	68519	18.7177	ug/l	86
41) 2-Butanone	3.625	43	20432m	15.2873	ug/l	
42) 1,1,1-Trichloroethane	3.980	97	66749	18.9337	ug/l	86
43) Carbon Tetrachloride	4.094	117	47663	19.3279	ug/l	97
44) Vinyl Acetate	3.180	43	145478	20.2076	ug/l	100
45) Bromodichloromethane	4.923	83	62235	16.9906	ug/l	81
46) Methylcyclohexane	4.743	83	37574	19.1806	ug/l	82
47) Dibromomethane	4.839	174	45272	18.5207	ug/l	80
48) 1,2-Dichloropropane	4.767	63	57761	19.0066	ug/l	99
49) Trichloroethene	4.629	130	49808	18.6072	ug/l	72
50) Benzene	4.232	78	174952	20.3295	ug/l	100
51) tert-Amyl methyl ether	4.292	73	115711	18.0793	ug/l	78
53) Iso-propylacetate	4.262	43	106422	19.1469	ug/l	96
54) Methyl methacrylate	4.815	41	48456	17.5595	ug/l	97
55) Dibromochloromethane	5.873	129	48082	16.3699	ug/l	93
56) 2-Chloroethylvinylether	5.098	63	29522	18.5755	ug/l	78
57) cis-1,3-Dichloropropene	5.188	75	69122	18.4328	ug/l	92
58) trans-1,3-Dichloropropene	5.519	75	51505	16.6052	ug/l	97
59) Ethyl methacrylate	5.549	41	55422	19.8950	ug/l	92
60) 1,1,2-Trichloroethane	5.627	97	43372	17.9235	ug/l	90
61) 1,2-Dibromoethane	5.945	107	39719	15.7311	ug/l	78
62) 1,3-Dichloropropane	5.729	76	75097	18.2256	ug/l	95
63) 4-Methyl-2-Pentanone	5.278	43	51258	16.5771	ug/l	97
64) 2-Hexanone	5.765	43	32195	15.4684	ug/l	92
65) Tetrachloroethene	5.717	164	45804	20.7226	ug/l	89
67) Toluene	5.392	92	100096	17.8187	ug/l	96

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 3M51195.D
Acq On : 05/22/14 12:05

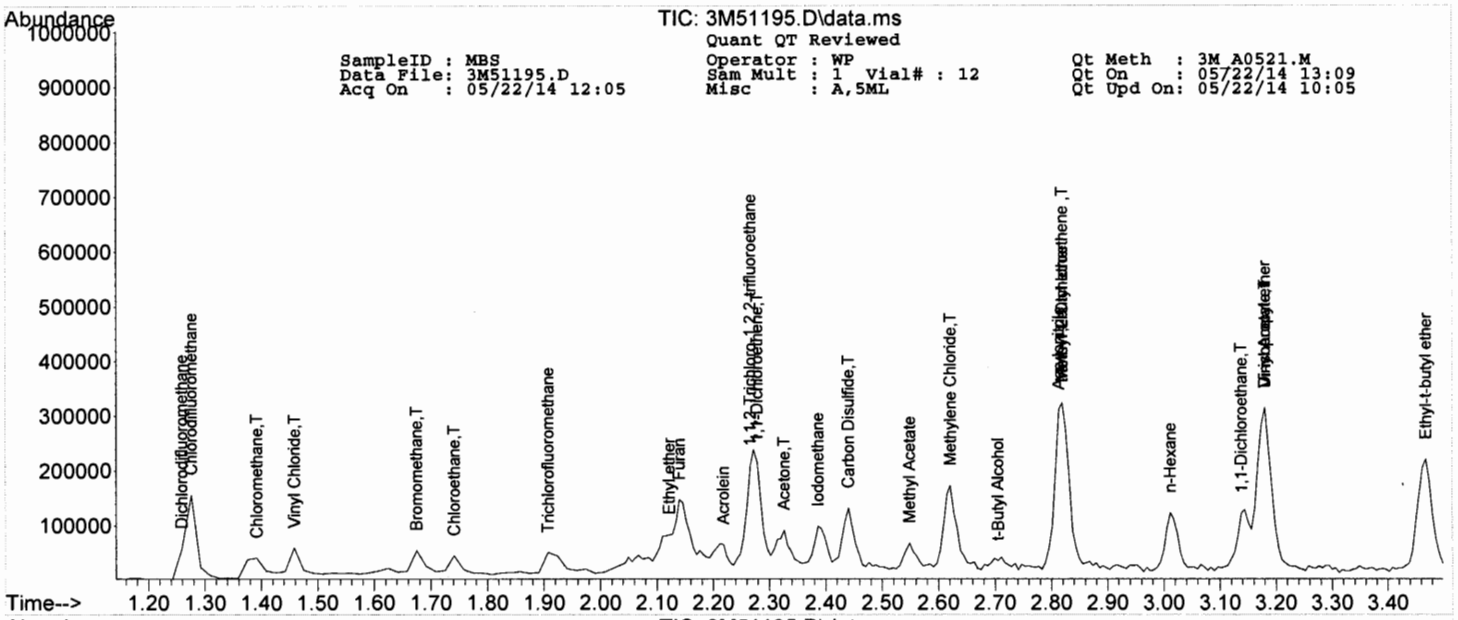
Operator : WP
Sam Mult : 1 Vial# : 12
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/22/14 13:09
Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-22-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.270	133	43420	17.4997	ug/l	70
69)	Chlorobenzene	6.228	112	109215	17.4378	ug/l	91
71)	n-Butyl acrylate	6.522	55	100930	16.5846	ug/l	96
72)	n-Amyl acetate	6.655	43	97831	19.2491	ug/l	91
73)	Bromoform	6.733	173	34802	14.2199	ug/l	100
74)	Ethylbenzene	6.282	106	38806	16.9745	ug/l	96
75)	1,1,2,2-Tetrachloroethane	6.979	83	50640	16.9163	ug/l	89
77)	Styrene	6.595	104	98116	17.0467	ug/l	87
78)	m&p-Xylenes	6.342	106	118299	37.7276	ug/l	87
79)	o-Xylene	6.588	106	62258	18.7837	ug/l	67
80)	trans-1,4-Dichloro-2-b...	7.009	53	12705	13.3331	ug/l	82
81)	1,3-Dichlorobenzene	7.592	146	78940	17.4255	ug/l	87
82)	1,4-Dichlorobenzene	7.646	146	78184	16.8905	ug/l	92
83)	1,2-Dichlorobenzene	7.893	146	80173	16.6751	ug/l	89
84)	Isopropylbenzene	6.805	105	134755	17.4215	ug/l	96
85)	Cyclohexanone	6.889	55	16678	136.4000	ug/l	72
86)	Camphene	6.979	93	39359	21.6026	ug/l	99
87)	1,2,3-Trichloropropane	7.015	75	58202	16.9527	ug/l	98
88)	2-Chlorotoluene	7.123	91	99550	19.3638	ug/l	96
89)	p-Ethyltoluene	7.117	105	137664	19.6749	ug/l	81
90)	4-Chlorotoluene	7.190	91	92459	18.5766	ug/l	93
91)	n-Propylbenzene	7.051	91	149371	17.5738	ug/l	94
92)	Bromobenzene	7.015	77	103813	17.5369	ug/l	88
93)	1,3,5-Trimethylbenzene	7.148	105	104283	17.6111	ug/l	88
94)	Butyl methacrylate	7.172	41	80195	19.2419	ug/l	81
95)	t-Butylbenzene	7.358	119	97003	17.9722	ug/l	86
96)	1,2,4-Trimethylbenzene	7.394	105	117563	17.8968	ug/l	87
97)	sec-Butylbenzene	7.496	105	105921	18.1510	ug/l	96
98)	4-Isopropyltoluene	7.580	119	98096	20.4105	ug/l	93
99)	n-Butylbenzene	7.839	91	102623	19.6779	ug/l	92
100)	p-Diethylbenzene	7.827	119	61416	20.0273	ug/l	92
101)	1,2,4,5-Tetramethylben...	8.332	119	94242	19.0083	ug/l	86
102)	1,2-Dibromo-3-Chloropr...	8.398	157	8055	11.7348	ug/l	88
103)	Camphor	8.885	95	48574	180.4332	ug/l	87
104)	Hexachlorobutadiene	9.041	225	25985	16.9933	ug/l	91
105)	1,2,4-Trichlorobenzene	8.945	180	45902	16.6488	ug/l	95
106)	1,2,3-Trichlorobenzene	9.288	180	38722	15.5826	ug/l	87
107)	Naphthalene	9.125	128	97737	18.3441	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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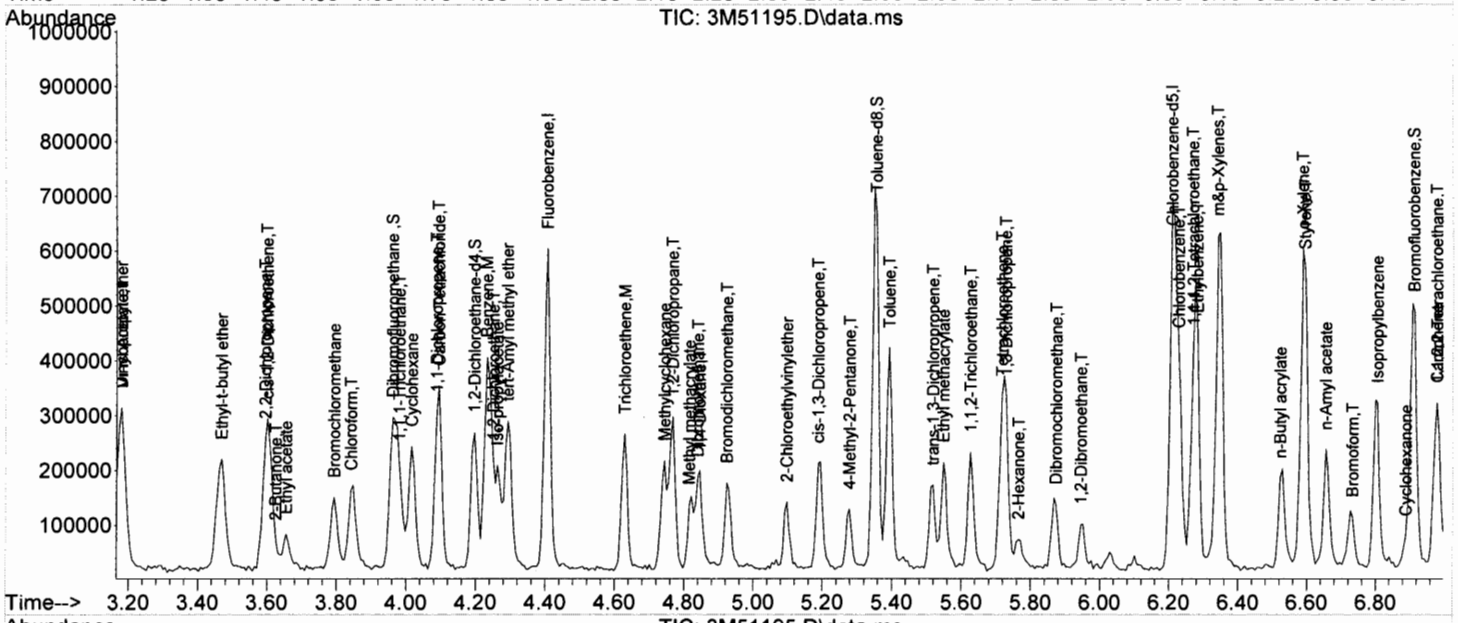
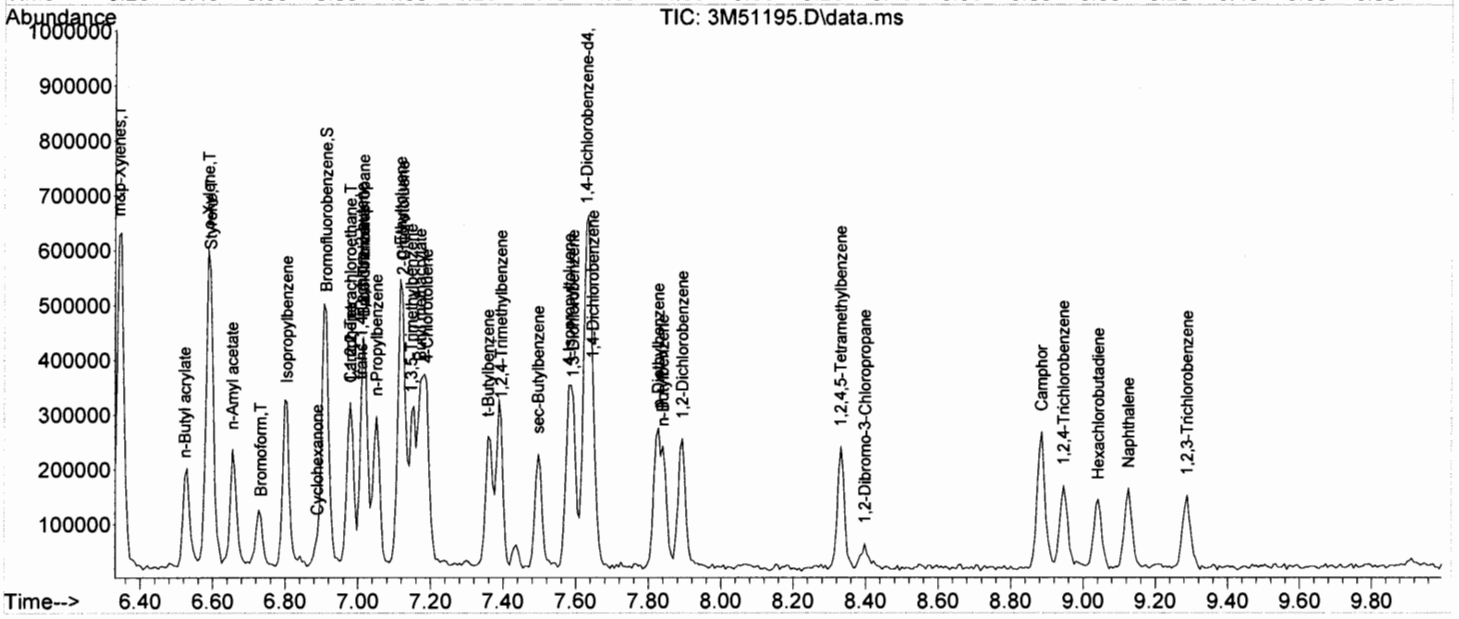
Quant QT Reviewed
SampleID : MBS
Data File: 3M51195.D
Acq On : 05/22/14 12:05
Operator : WP
Sam Mult : 1 Vial# : 12
Misc : A,5ML
Qt Meth : 3M A0521.M
Qt On : 05/22/14 13:09
Qt Upd On: 05/22/14 10:05
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl Ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Time-->


Abundance
TIC: 3M51195.D\data.ms
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
Time-->


Abundance
TIC: 3M51195.D\data.ms
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data
QC Batch: MBS35814

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51229.D	MBS35814	5/22/2014 9:14:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	13.8395	0	20	69	20	130
1,1-Dichloroethene	1	16.4423	0	20	82	50	130
1,1-Dichloroethane	1	15.0824	0	20	75	50	130
Chloroform	1	15.1429	0	20	76	50	130
1,2-Dichloroethane	1	17.0626	0	20	85	50	130
2-Butanone	1	15.2312	0	20	76	20	130
Carbon Tetrachloride	1	17.2917	0	20	86	50	130
Trichloroethene	1	15.9164	0	20	80	50	130
Benzene	1	16.5978	0	20	83	50	130
Tetrachloroethene	1	16.5012	0	20	83	50	130
Toluene	1	15.7235	0	20	79	50	130
Chlorobenzene	1	15.7051	0	20	79	50	130
1,4-Dichlorobenzene	1	14.2779	0	20	71	50	130
1,2-Dichlorobenzene	1	14.0185	0	20	70	50	130
n-Propylbenzene	1	15.0671	0	20	75	50	130
sec-Butylbenzene	1	14.9109	0	20	75	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 3M51229.D
Acq On : 05/22/14 21:14

Operator : WP
Sam Mult : 1 Vial# : 26
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/23/14 09:22
Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-22-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.407	96	291621	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.211	117	243390	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.629	152	138393	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.962	111	103445	29.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.77%			
39) 1,2-Dichloroethane-d4	4.191	67	58926	29.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.53%			
66) Toluene-d8	5.357	98	302288	28.76	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.87%			
76) Bromofluorobenzene	6.914	174	109338	26.43	ug/l	0.00
Spiked Amount 30.000			Recovery = 88.10%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.281	51	119068	20.2191	ug/l	55
6) Dichlorodifluoromethane	1.264	85	30766	11.8205	ug/l	76
7) Chloromethane	1.380	50	40550	13.4652	ug/l	75
8) Bromomethane	1.680	94	17280	13.0842	ug/l	88
9) Vinyl Chloride	1.464	62	28873	13.8395	ug/l	92
10) Chloroethane	1.746	64	22348	18.6514	ug/l	90
11) Trichlorofluoromethane	1.913	101	39251	16.4922	ug/l	92
12) Ethyl ether	2.117	59	14846	13.5068	ug/l	88
13) Furan	2.153	39	77952	17.3966	ug/l	81
14) 1,1,2-Trichloro-1,2,2-...	2.273	101	28317	15.2899	ug/l	91
15) Methylene Chloride	2.622	84	40667	15.1121	ug/l	90
16) Acrolein	2.219	56	23047	63.4031	ug/l	82
17) Acrylonitrile	2.814	53	12465	14.6241	ug/l	75
18) Iodomethane	2.394	142	60874	15.1112	ug/l	83
19) Acetone	2.327	43	61002	72.4836	ug/l	85
20) Carbon Disulfide	2.442	76	94015	15.3180	ug/l	100
21) t-Butyl Alcohol	2.706	59	15781	72.9958	ug/l	74
22) n-Hexane	3.019	57	26205	16.6480	ug/l	74
23) Di-isopropyl-ether	3.181	45	169999	15.9414	ug/l	92
24) 1,1-Dichloroethene	2.279	61	62335	16.4423	ug/l	92
25) Methyl Acetate	2.550	43	44121	13.5731	ug/l	100
26) Methyl-t-butyl ether	2.820	73	89833	14.8292	ug/l	69
27) 1,1-Dichloroethane	3.145	63	75064	15.0824	ug/l	95
28) trans-1,2-Dichloroethene	2.826	96	34096	16.3682	ug/l	90
29) Ethyl-t-butyl ether	3.470	59	137519	41.0057	ug/l	96
30) cis-1,2-Dichloroethene	3.608	61	75135m	16.9294	ug/l	
31) Bromochloromethane	3.794	49	43774	15.4272	ug/l	73
32) 2,2-Dichloropropane	3.608	77	49941	19.3948	ug/l	85
33) Ethyl acetate	3.656	43	48096	15.3094	ug/l	99
34) 1,4-Dioxane	4.846	88	19679	773.3084	ug/l	92
35) 1,1-Dichloropropene	4.095	75	51866	16.7821	ug/l	97
36) Chloroform	3.848	83	68606	15.1429	ug/l	90
38) Cyclohexane	4.017	56	48101	15.2100	ug/l	88
40) 1,2-Dichloroethane	4.251	62	63612	17.0626	ug/l	78
41) 2-Butanone	3.620	43	20733	15.2312	ug/l	90
42) 1,1,1-Trichloroethane	3.986	97	57346	15.9719	ug/l	80
43) Carbon Tetrachloride	4.095	117	43428	17.2917	ug/l	79
44) Vinyl Acetate	3.181	43	140965	19.2261	ug/l	100
45) Bromodichloromethane	4.930	83	62812	16.8376	ug/l	88
46) Methylcyclohexane	4.744	83	32914	16.4975	ug/l	96
47) Dibromomethane	4.846	174	40131	16.1203	ug/l	72
48) 1,2-Dichloropropane	4.768	63	52284	16.8928	ug/l	95
49) Trichloroethene	4.630	130	43391	15.9164	ug/l	86
50) Benzene	4.239	78	145472	16.5978	ug/l	100
51) tert-Amyl methyl ether	4.293	73	107671	16.5184	ug/l	82
53) Iso-propylacetate	4.263	43	100338	17.0431	ug/l	84
54) Methyl methacrylate	4.816	41	43851	15.0024	ug/l	97
55) Dibromochloromethane	5.868	129	39333	12.6426	ug/l	92
56) 2-Chloroethylvinylether	5.099	63	25675	15.2518	ug/l	84
57) cis-1,3-Dichloropropene	5.195	75	60230	15.1636	ug/l	96
58) trans-1,3-Dichloropropene	5.519	75	55417	16.8676	ug/l	92
59) Ethyl methacrylate	5.549	41	51942	17.6034	ug/l	91
60) 1,1,2-Trichloroethane	5.628	97	36737	14.3078	ug/l	88
61) 1,2-Dibromoethane	5.952	107	37276	13.9382	ug/l	90
62) 1,3-Dichloropropane	5.730	76	66448	15.2249	ug/l	91
63) 4-Methyl-2-Pentanone	5.279	43	48431	14.7872	ug/l	100
64) 2-Hexanone	5.766	43	28649	12.9951	ug/l	90
65) Tetrachloroethene	5.718	164	38633	16.5012	ug/l	74
67) Toluene	5.393	92	93557	15.7235	ug/l	94

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 3M51229.D
Acq On : 05/22/14 21:14

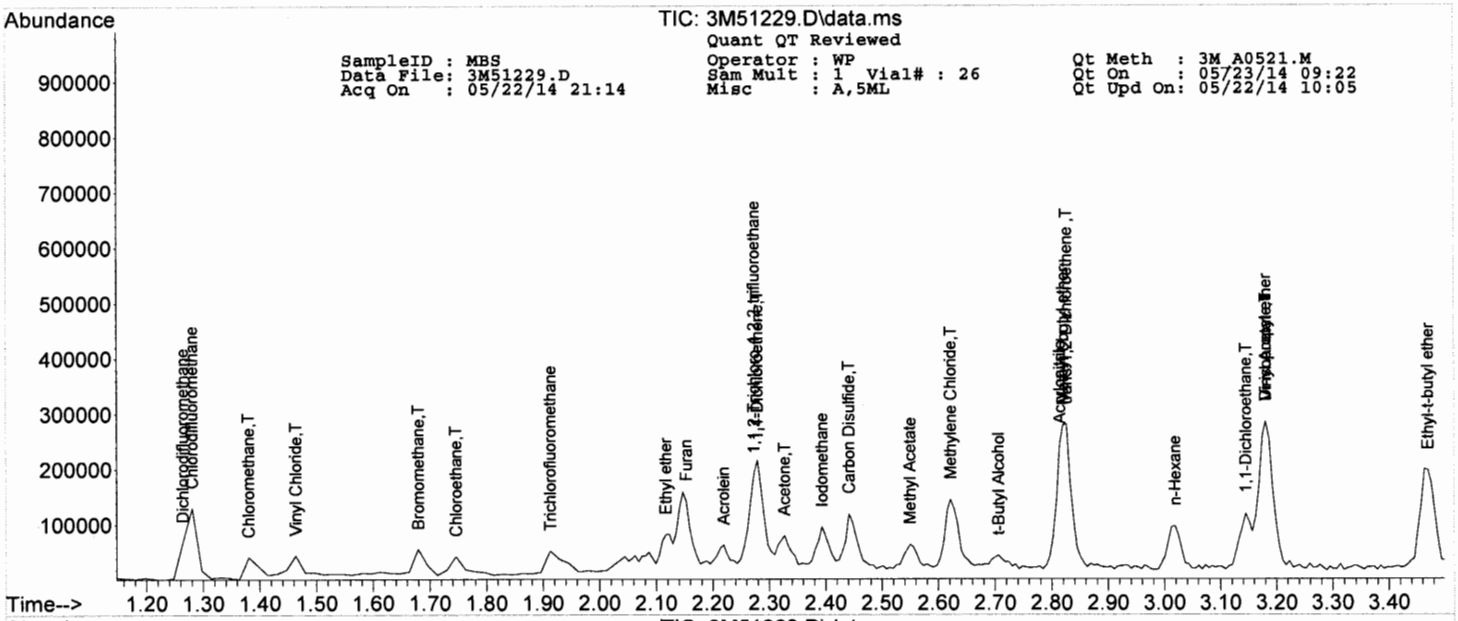
Operator : WP
Sam Mult : 1 Vial# : 26
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/23/14 09:22
Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-22-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.271	133	42715	16.2531	ug/l	96
69)	Chlorobenzene	6.229	112	104188	15.7051	ug/l	93
71)	n-Butyl acrylate	6.529	55	92747	14.7694	ug/l	91
72)	n-Amyl acetate	6.655	43	89579	17.0903	ug/l	93
73)	Bromoform	6.734	173	37464	14.8428	ug/l	94
74)	Ethylbenzene	6.283	106	40080	16.9999	ug/l	91
75)	1,1,2,2-Tetrachloroethane	6.980	83	44083	14.2789	ug/l	94
77)	Styrene	6.595	104	99709	16.7975	ug/l	89
78)	m&p-Xylenes	6.349	106	104710	32.2997	ug/l	88
79)	o-Xylene	6.589	106	61933	18.1079	ug/l	52
80)	trans-1,4-Dichloro-2-b...	7.010	53	9689	9.8381	ug/l	37
81)	1,3-Dichlorobenzene	7.593	146	71401	15.2620	ug/l	85
82)	1,4-Dichlorobenzene	7.647	146	68160	14.2779	ug/l	90
83)	1,2-Dichlorobenzene	7.888	146	69511	14.0185	ug/l	88
84)	Isopropylbenzene	6.800	105	121147	15.1867	ug/l	94
85)	Cyclohexanone	6.884	55	8974	71.1287	ug/l	91
86)	Camphene	6.980	93	31075	16.5379	ug/l	92
87)	1,2,3-Trichloropropane	7.022	75	50940	14.3870	ug/l	95
88)	2-Chlorotoluene	7.124	91	86295	16.2266	ug/l	96
89)	p-Ethyltoluene	7.118	105	125300	17.3641	ug/l	86
90)	4-Chlorotoluene	7.190	91	80360	15.6555	ug/l	93
91)	n-Propylbenzene	7.052	91	132075	15.0671	ug/l	94
92)	Bromobenzene	7.016	77	78016	12.7790	ug/l	81
93)	1,3,5-Trimethylbenzene	7.148	105	94341	15.4484	ug/l	88
94)	Butyl methacrylate	7.172	41	72666	16.9060	ug/l	80
95)	t-Butylbenzene	7.359	119	86461	15.5327	ug/l	82
96)	1,2,4-Trimethylbenzene	7.389	105	106290	15.6894	ug/l	86
97)	sec-Butylbenzene	7.497	105	89738	14.9109	ug/l	99
98)	4-Isopropyltoluene	7.581	119	87253	17.6032	ug/l	92
99)	n-Butylbenzene	7.840	91	93826	17.4448	ug/l	88
100)	p-Diethylbenzene	7.822	119	51905	16.4119	ug/l	88
101)	1,2,4,5-Tetramethylben...	8.333	119	82819	16.1971	ug/l	91
102)	1,2-Dibromo-3-Chloropr...	8.399	157	9022	12.7445	ug/l	76
103)	Camphor	8.874	95	41842	150.5727	ug/l	91
104)	Hexachlorobutadiene	9.042	225	22718	14.4057	ug/l	94
105)	1,2,4-Trichlorobenzene	8.940	180	37351	13.1360	ug/l	95
106)	1,2,3-Trichlorobenzene	9.282	180	31871	12.4362	ug/l	88
107)	Naphthalene	9.126	128	85930	15.6383	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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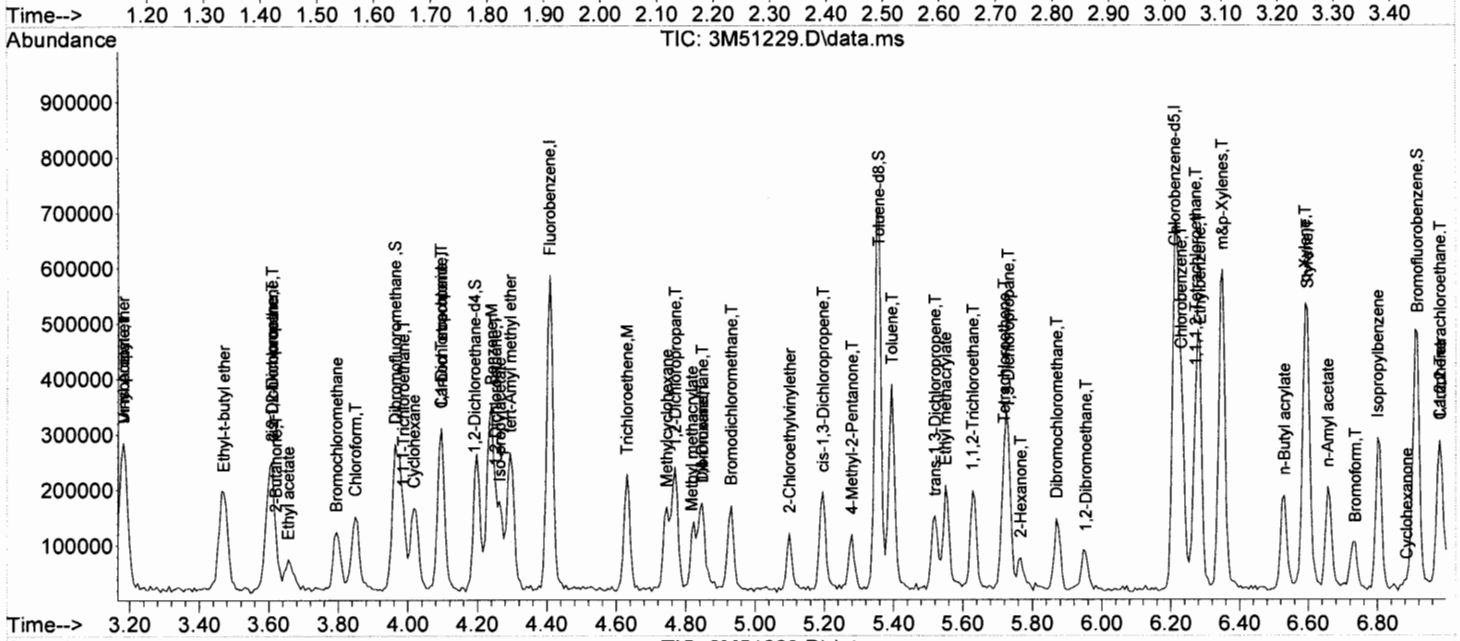
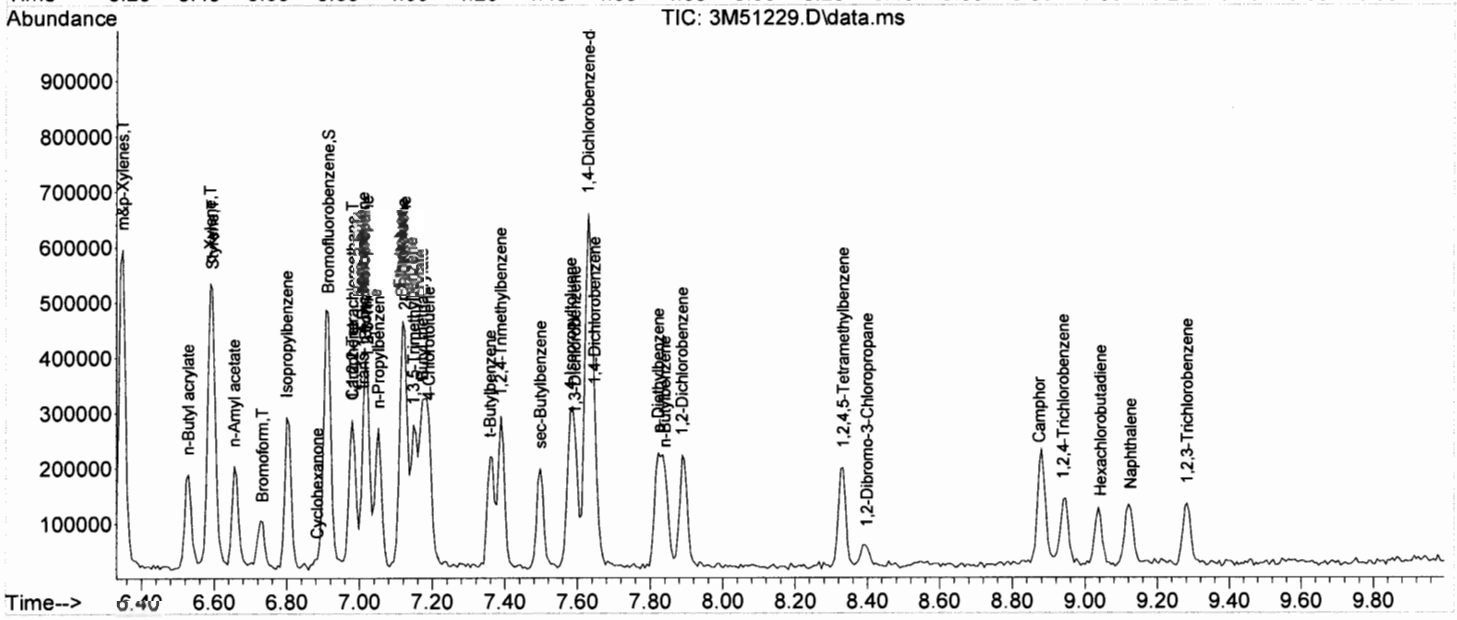
Quant QT Reviewed
SampleID : MBS
Data File: 3M51229.D
Acq On : 05/22/14 21:14
Operator : WP
Sam Mult : 1 Vial# : 26
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/23/14 09:22
Qt Upd On: 05/22/14 10:05
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Time-->


Abundance
TIC: 3M51229.D\data.ms
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Methyl cyclohexane
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
Time-->


Abundance
TIC: 3M51229.D\data.ms
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data
QC Batch: MBS35817

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51243.D	MBS35817	5/23/2014 12:43:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	14.7184	0	20	74	20	130
1,1-Dichloroethene	1	17.9232	0	20	90	50	130
1,1-Dichloroethane	1	16.0497	0	20	80	50	130
Chloroform	1	15.4526	0	20	77	50	130
1,2-Dichloroethane	1	18.0508	0	20	90	50	130
2-Butanone	1	17.6115	0	20	88	20	130
Carbon Tetrachloride	1	18.5901	0	20	93	50	130
Trichloroethene	1	16.973	0	20	85	50	130
Benzene	1	17.7246	0	20	89	50	130
Tetrachloroethene	1	16.261	0	20	81	50	130
Toluene	1	16.9044	0	20	85	50	130
Chlorobenzene	1	15.6529	0	20	78	50	130
1,4-Dichlorobenzene	1	15.9087	0	20	80	50	130
1,2-Dichlorobenzene	1	15.941	0	20	80	50	130
n-Propylbenzene	1	16.1848	0	20	81	50	130
sec-Butylbenzene	1	18.2272	0	20	91	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 3M51243.D
Acq On : 05/23/14 12:43

Operator : WP
Sam Mult : 1 Vial# : 13
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/23/14 13:13
Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.406	96	289809	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.210	117	238661	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.628	152	135428	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.962	111	106741	30.46	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.53%			
39) 1,2-Dichloroethane-d4	4.196	67	60105	30.34	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.13%			
66) Toluene-d8	5.350	98	296437	28.77	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.90%			
76) Bromofluorobenzene	6.907	174	117841	29.11	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.03%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.279	51	129445	22.1187	ug/l	54
6) Dichlorodifluoromethane	1.262	85	32256	12.4705	ug/l	72
7) Chloromethane	1.379	50	41488	13.8628	ug/l	86
8) Bromomethane	1.678	94	18492	14.1116	ug/l	64
9) Vinyl Chloride	1.462	62	30516	14.7184	ug/l	99
10) Chloroethane	1.744	64	19802	16.6299	ug/l	85
11) Trichlorofluoromethane	1.911	101	40937	17.3081	ug/l	88
12) Ethyl ether	2.122	59	21307m	19.5061	ug/l	
13) Furan	2.146	39	74100m	16.6403	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.266	101	30101	16.3548	ug/l	93
15) Methylene Chloride	2.621	84	42682m	15.9601	ug/l	
16) Acrolein	2.212	56	25749m	71.2955	ug/l	
17) Acrylonitrile	2.807	53	15143m	17.8770	ug/l	
18) Iodomethane	2.393	142	58979	14.7323	ug/l	95
19) Acetone	2.327	43	74153	88.6608	ug/l	99
20) Carbon Disulfide	2.441	76	97861	16.0443	ug/l	100
21) t-Butyl Alcohol	2.705	59	16128m	75.0697	ug/l	
22) n-Hexane	3.018	57	26801m	17.1331	ug/l	
23) Di-isopropyl-ether	3.180	45	178849	16.8762	ug/l	78
24) 1,1-Dichloroethene	2.279	61	67527	17.9232	ug/l	98
25) Methyl Acetate	2.549	43	45717	14.1520	ug/l	100
26) Methyl-t-butyl ether	2.820	73	97054	16.1214	ug/l	69
27) 1,1-Dichloroethane	3.144	63	79382	16.0497	ug/l	93
28) trans-1,2-Dichloroethene	2.820	96	34755	16.7889	ug/l	86
29) Ethyl-t-butyl ether	3.469	59	149757	44.9341	ug/l	96
30) cis-1,2-Dichloroethene	3.601	61	73409	16.6439	ug/l	86
31) Bromochloromethane	3.793	49	45883	16.2716	ug/l	81
32) 2,2-Dichloropropane	3.601	77	52557	20.5383	ug/l	96
33) Ethyl acetate	3.661	43	52034	16.6665	ug/l	94
34) 1,4-Dioxane	4.851	88	20170	797.5585	ug/l	81
35) 1,1-Dichloropropene	4.094	75	54314	17.6840	ug/l	84
36) Chloroform	3.847	83	69574	15.4526	ug/l	84
38) Cyclohexane	4.016	56	55661	17.7106	ug/l	84
40) 1,2-Dichloroethane	4.244	62	66878	18.0508	ug/l	95
41) 2-Butanone	3.625	43	23802	17.6115	ug/l	63
42) 1,1,1-Trichloroethane	3.980	97	61003	17.0966	ug/l	94
43) Carbon Tetrachloride	4.094	117	46399	18.5901	ug/l	88
44) Vinyl Acetate	3.180	43	145410	19.9563	ug/l	100
45) Bromodichloromethane	4.929	83	56149	15.1456	ug/l	87
46) Methylcyclohexane	4.743	83	33968	17.1322	ug/l	87
47) Dibromomethane	4.845	174	38459	15.5452	ug/l	95
48) 1,2-Dichloropropane	4.767	63	51661	16.7959	ug/l	71
49) Trichloroethene	4.629	130	45984	16.9730	ug/l	79
50) Benzene	4.232	78	154383	17.7246	ug/l	100
51) tert-Amyl methyl ether	4.292	73	117337	18.1139	ug/l	81
53) Iso-propylacetate	4.262	43	96670m	16.7454	ug/l	
54) Methyl methacrylate	4.821	41	45091	15.7323	ug/l	97
55) Dibromochloromethane	5.867	129	42048	13.7831	ug/l	99
56) 2-Chloroethylvinylether	5.098	63	28294	17.1406	ug/l	88
57) cis-1,3-Dichloropropene	5.194	75	63874	16.3997	ug/l	83
58) trans-1,3-Dichloropropene	5.513	75	52480	16.2902	ug/l	94
59) Ethyl methacrylate	5.549	41	53487	18.4862	ug/l	79
60) 1,1,2-Trichloroethane	5.627	97	39211	15.5835	ug/l	94
61) 1,2-Dibromoethane	5.951	107	40845	15.5753	ug/l	91
62) 1,3-Dichloropropane	5.729	76	67456	15.7621	ug/l	87
63) 4-Methyl-2-Pentanone	5.272	43	48082	14.9715	ug/l	84
64) 2-Hexanone	5.765	43	34783	16.0901	ug/l	97
65) Tetrachloroethene	5.717	164	37331	16.2610	ug/l	95
67) Toluene	5.392	92	98629	16.9044	ug/l	99

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 3M51243.D
Acq On : 05/23/14 12:43

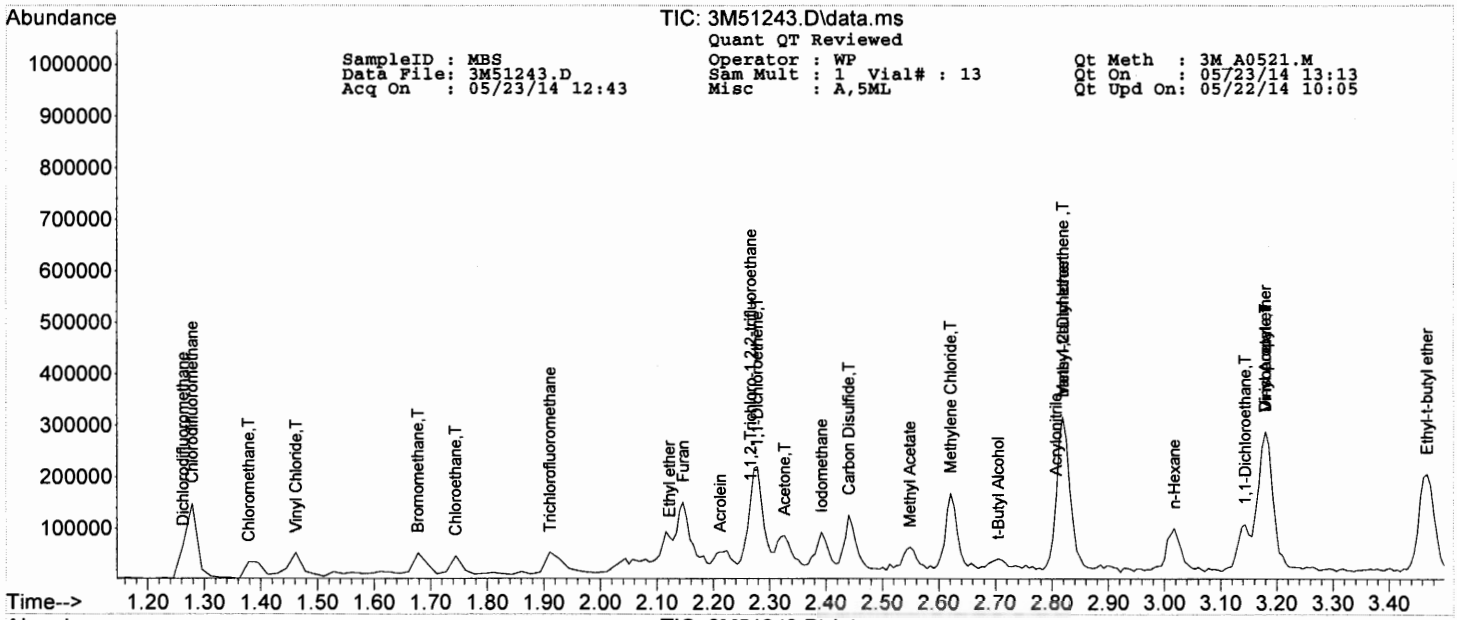
Operator : WP
Sam Mult : 1 Vial# : 13
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/23/14 13:13
Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.270	133	37537	14.5659	ug/l	96
69)	Chlorobenzene	6.228	112	101824	15.6529	ug/l	94
71)	n-Butyl acrylate	6.522	55	96347	15.6827	ug/l	94
72)	n-Amyl acetate	6.655	43	92018	17.9400	ug/l	86
73)	Bromoform	6.733	173	29121	11.7900	ug/l	94
74)	Ethylbenzene	6.282	106	38288	16.5889	ug/l	93
75)	1,1,2,2-Tetrachloroethane	6.979	83	49885	16.5119	ug/l	98
77)	Styrene	6.595	104	97134	16.7219	ug/l	87
78)	m&p-Xylenes	6.348	106	110180	34.7703	ug/l	75
79)	o-Xylene	6.589	106	60791	18.1640	ug/l	65
80)	trans-1,4-Dichloro-2-b...	7.015	53	12163m	12.6424	ug/l	
81)	1,3-Dichlorobenzene	7.592	146	74389	16.2590	ug/l	86
82)	1,4-Dichlorobenzene	7.646	146	74318	15.9087	ug/l	91
83)	1,2-Dichlorobenzene	7.887	146	77350	15.9410	ug/l	91
84)	Isopropylbenzene	6.805	105	130854	16.7627	ug/l	97
85)	Cyclohexanone	6.889	55	10931	88.5489	ug/l	80
86)	Camphene	6.979	93	31672	17.2247	ug/l	100
87)	1,2,3-Trichloropropane	7.015	75	56248	16.2339	ug/l	93
88)	2-Chlorotoluene	7.117	91	85037	16.3420	ug/l	94
89)	p-Ethyltoluene	7.117	105	133502	18.9058	ug/l	77
90)	4-Chlorotoluene	7.184	91	82073	16.3393	ug/l	84
91)	n-Propylbenzene	7.051	91	138833	16.1848	ug/l	96
92)	Bromobenzene	7.015	77	98704	16.5216	ug/l	88
93)	1,3,5-Trimethylbenzene	7.148	105	101601	17.0014	ug/l	82
94)	Butyl methacrylate	7.172	41	78642	18.6970	ug/l	86
95)	t-Butylbenzene	7.358	119	82430	15.1327	ug/l	93
96)	1,2,4-Trimethylbenzene	7.388	105	115528	17.4264	ug/l	91
97)	sec-Butylbenzene	7.496	105	107346	18.2272	ug/l	97
98)	4-Isopropyltoluene	7.574	119	80416	16.5791	ug/l	92
99)	n-Butylbenzene	7.839	91	99179	18.8438	ug/l	93
100)	p-Diethylbenzene	7.821	119	56638	18.3006	ug/l	94
101)	1,2,4,5-Tetramethylben...	8.326	119	88287	17.6445	ug/l	84
102)	1,2-Dibromo-3-Chloropr...	8.398	157	8522	12.3017	ug/l	54
103)	Camphor	8.885	95	40487	148.8788	ug/l	96
104)	Hexachlorobutadiene	9.035	225	20803	13.4802	ug/l	94
105)	1,2,4-Trichlorobenzene	8.945	180	36593	13.1512	ug/l	88
106)	1,2,3-Trichlorobenzene	9.282	180	36908	14.7169	ug/l	94
107)	Naphthalene	9.125	128	87272	16.2303	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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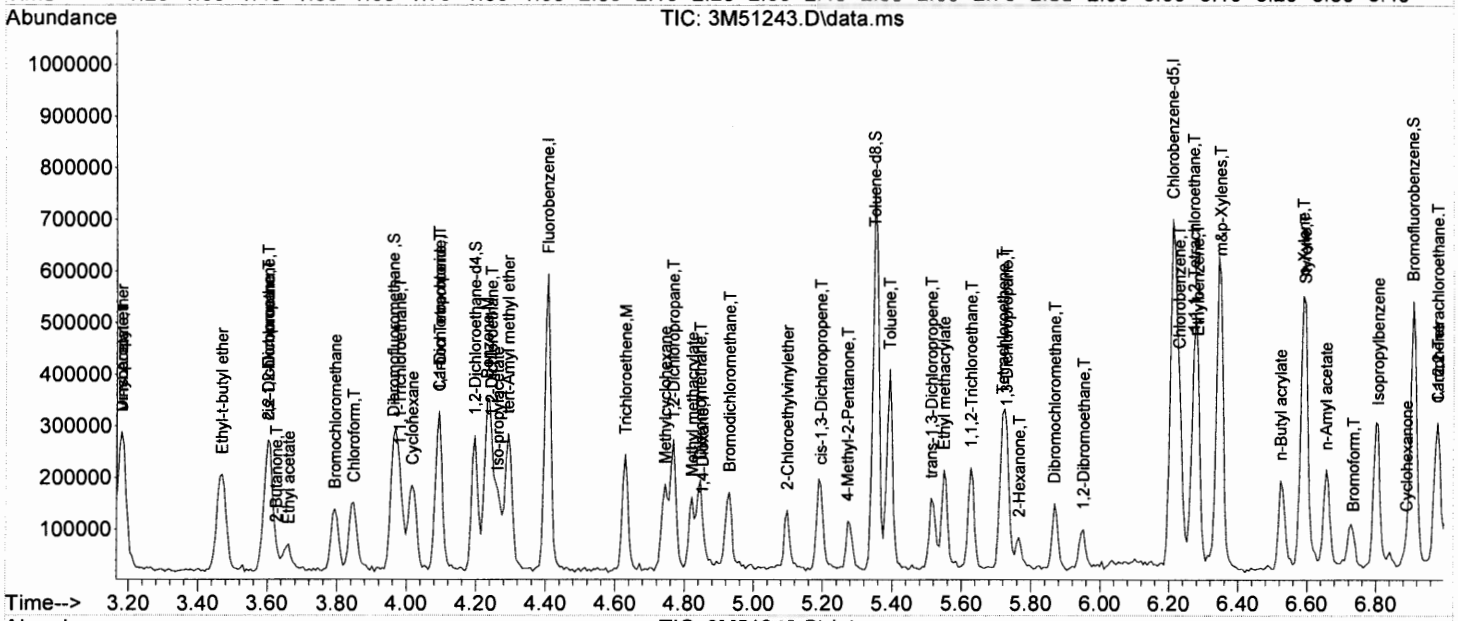
Quant QT Reviewed
SampleID : MBS
Data File: 3M51243.D
Acq On : 05/23/14 12:43
Operator : WP
Sam Mult : 1 Vial# : 13
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/23/14 13:13
Qt Upd On: 05/22/14 10:05
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Time-->


Abundance
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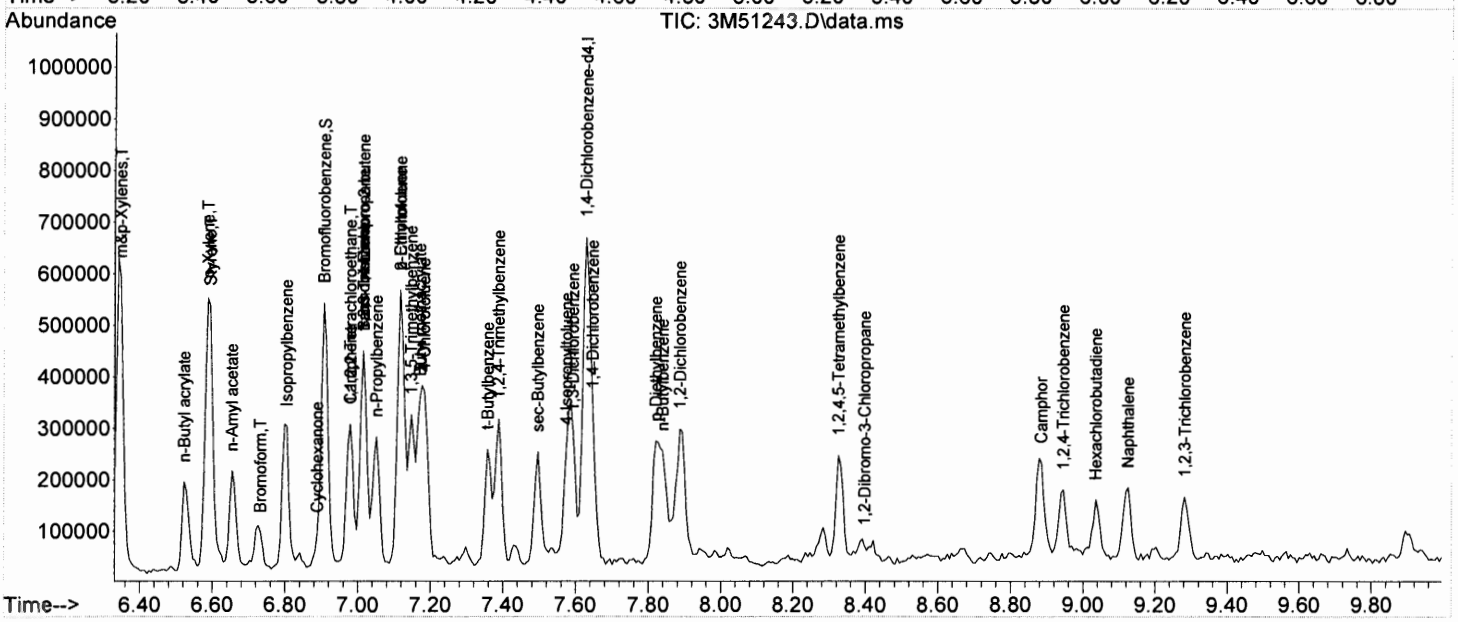
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
Time-->


Abundance
TIC: 3M51243.D\data.ms
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data
QC Batch: MBS35820

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10512.D	MBS35820	5/23/2014 6:11:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	42.7821	0	50	86	20	130
1,1-Dichloroethene	1	50.1234	0	50	100	50	130
1,1-Dichloroethane	1	45.3885	0	50	91	50	130
Chloroform	1	43.9321	0	50	88	50	130
1,2-Dichloroethane	1	39.4681	0	50	79	50	130
2-Butanone	1	49.2506	0	50	99	20	130
Carbon Tetrachloride	1	46.8336	0	50	94	50	130
Trichloroethene	1	45.4499	0	50	91	50	130
Benzene	1	47.455	0	50	95	50	130
Tetrachloroethene	1	50.643	0	50	101	50	130
Toluene	1	43.048	0	50	86	50	130
Chlorobenzene	1	42.384	0	50	85	50	130
1,4-Dichlorobenzene	1	44.5952	0	50	89	50	130
1,2-Dichlorobenzene	1	39.3895	0	50	79	50	130
n-Propylbenzene	1	47.0102	0	50	94	50	130
sec-Butylbenzene	1	48.9005	0	50	98	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 6M10512.D
Acq On : 05/23/14 18:11

Operator : WP
Sam Mult : 1 Vial# : 20
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/23/14 18:57
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.476	96	207454	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.032	117	119122	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.259	152	61080	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.061	111	52528	28.14	ug/l	-0.01
Spiked Amount 30.000			Recovery = 93.80%			
39) 1,2-Dichloroethane-d4	4.277	67	25367	28.11	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.70%			
66) Toluene-d8	5.299	98	199972	31.81	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.03%			
76) Bromofluorobenzene	6.639	174	54892	36.49	ug/l	0.00
Spiked Amount 30.000			Recovery = 121.63%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.297	51	421200	62.7087	ug/l	26
6) Dichlorodifluoromethane	1.285	85	109073	25.8631	ug/l	84
7) Chloromethane	1.412	50	128594	34.4867	ug/l	79
8) Bromomethane	1.746	94	94651	37.0283	ug/l	90
9) Vinyl Chloride	1.498	62	119586	42.7821	ug/l	99
10) Chloroethane	1.821	64	119752	44.2285	ug/l	90
11) Trichlorofluoromethane	2.016	101	228124	46.2658	ug/l	87
12) Ethyl ether	2.215	59	60710m	44.1101	ug/l	
13) Furan	2.246	39	400241m	47.9946	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.402	101	160770	47.3029	ug/l	93
15) Methylene Chloride	2.738	84	122431	45.8674	ug/l	75
16) Acrolein	2.306	56	38240	194.3740	ug/l	88
17) Acrylonitrile	2.919	53	22027m	55.5242	ug/l	
18) Iodomethane	2.504	142	156919	48.2239	ug/l	96
19) Acetone	2.414	43	72974	213.1520	ug/l	88
20) Carbon Disulfide	2.570	76	559596	48.7312	ug/l	100
21) t-Butyl Alcohol	2.805	59	9945	182.0215	ug/l	57
22) n-Hexane	3.183	57	286274	43.2162	ug/l	85
23) Di-isopropyl-ether	3.333	45	462589	42.7516	ug/l	80
24) 1,1-Dichloroethene	2.396	61	307995	50.1234	ug/l	92
25) Methyl Acetate	2.666	43	52054	37.3038	ug/l	100
26) Methyl-t-butyl ether	2.955	73	95241	33.3297	ug/l	76
27) 1,1-Dichloroethane	3.279	63	283890m	45.3885	ug/l	
28) trans-1,2-Dichloroethene	2.961	96	150166	46.4908	ug/l	88
29) Ethyl-t-butyl ether	3.622	59	183511	92.1510	ug/l	92
30) cis-1,2-Dichloroethene	3.736	61	258912	46.5689	ug/l	79
31) Bromochloromethane	3.905	49	110578m	45.7664	ug/l	
32) 2,2-Dichloropropane	3.742	77	150999	39.6582	ug/l	95
33) Ethyl acetate	3.784	43	61716	40.2023	ug/l	89
34) 1,4-Dioxane	4.854	88	17911	1783.9700	ug/l	69
35) 1,1-Dichloropropene	4.199	75	242256	45.8004	ug/l	94
36) Chloroform	3.959	83	209304	43.9321	ug/l	98
38) Cyclohexane	4.145	56	357592	42.9994	ug/l	87
40) 1,2-Dichloroethane	4.319	62	112566	39.4681	ug/l	92
41) 2-Butanone	3.748	43	35577	49.2506	ug/l	95
42) 1,1,1-Trichloroethane	4.097	97	199893	44.1560	ug/l	93
43) Carbon Tetrachloride	4.205	117	175462	46.8336	ug/l	99
44) Vinyl Acetate	3.333	43	318559	41.4049	ug/l	100
45) Bromodichloromethane	4.920	83	133165	38.3763	ug/l	80
46) Methylcyclohexane	4.788	83	297283	47.2503	ug/l	89
47) Dibromomethane	4.848	174	44059	44.1056	ug/l	84
48) 1,2-Dichloropropane	4.788	63	131065	41.3946	ug/l	82
49) Trichloroethene	4.674	130	141268	45.4499	ug/l	86
50) Benzene	4.319	78	571830	47.4550	ug/l	100
51) tert-Amyl methyl ether	4.385	73	95751m	32.1396	ug/l	
53) Iso-propylacetate	4.343	43	82965	34.0250	ug/l	87
54) Methyl methacrylate	4.836	41	51251	32.4175	ug/l	93
55) Dibromochloromethane	5.732	129	65163	35.3560	ug/l	65
56) 2-Chloroethylvinylether	5.071	63	28000	37.9889	ug/l	81
57) cis-1,3-Dichloropropene	5.155	75	139180	35.9337	ug/l	91
58) trans-1,3-Dichloropropene	5.425	75	75918	28.3363	ug/l	93
59) Ethyl methacrylate	5.461	41	65140m	38.4636	ug/l	
60) 1,1,2-Trichloroethane	5.521	97	57270	34.3415	ug/l	90
61) 1,2-Dibromoethane	5.798	107	48817	39.6906	ug/l	94
62) 1,3-Dichloropropane	5.606	76	110706	38.2923	ug/l	90
63) 4-Methyl-2-Pentanone	5.221	43	42775	30.1895	ug/l	81
64) 2-Hexanone	5.642	43	24992m	33.0670	ug/l	
65) Tetrachloroethene	5.618	164	128939	50.6430	ug/l	74
67) Toluene	5.335	92	309914	43.0480	ug/l	97

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 6M10512.D
Acq On : 05/23/14 18:11

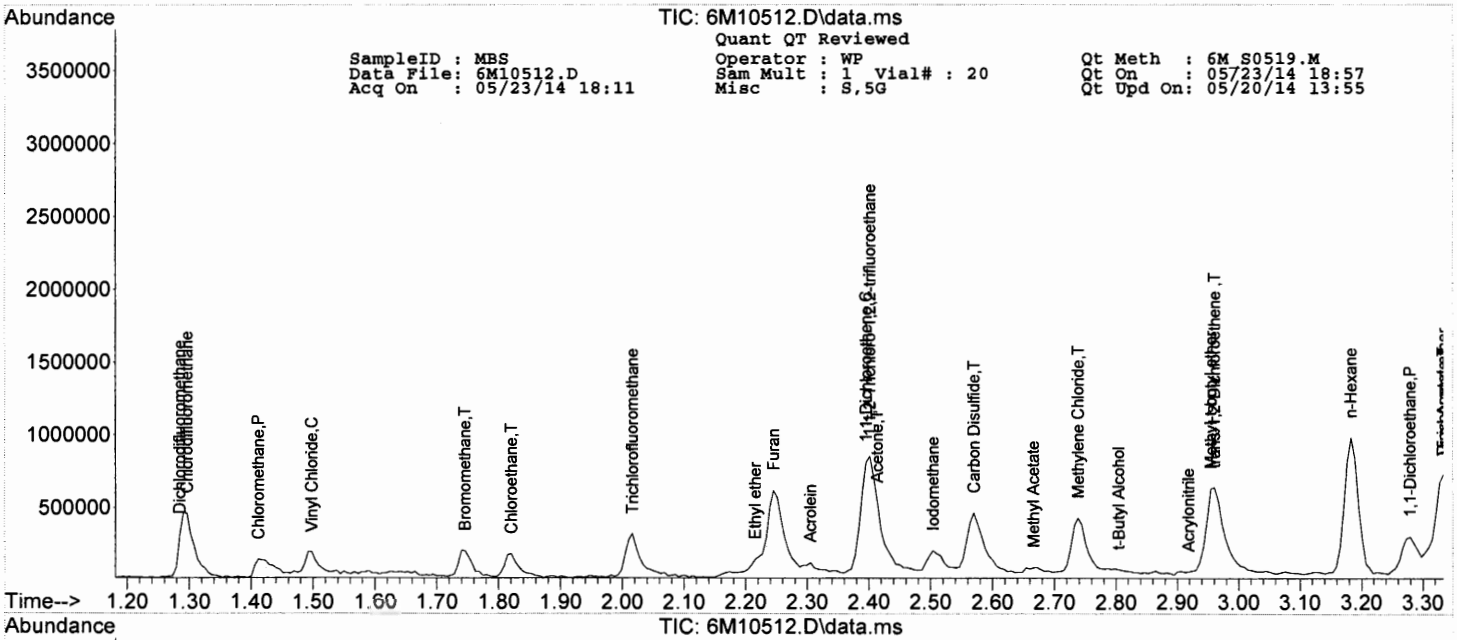
Operator : WP
Sam Mult : 1 Vial# : 20
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/23/14 18:57
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.080	133	75949	37.7955	ug/l	76
69)	Chlorobenzene	6.050	112	264600	42.3840	ug/l	95
71)	n-Butyl acrylate	6.309	55	94940	38.6403	ug/l	89
72)	n-Amyl acetate	6.417	43	82167	35.3656	ug/l	66
73)	Bromoform	6.471	173	41080	40.4852	ug/l	92
74)	Ethylbenzene	6.098	106	148992	44.6992	ug/l	95
75)	1,1,2,2-Tetrachloroethane	6.688	83	65066	39.3051	ug/l	75
77)	Styrene	6.363	104	267412	46.2080	ug/l	100
78)	m&p-Xylenes	6.153	106	380592	94.3433	ug/l	99
79)	o-Xylene	6.363	106	160746	44.8157	ug/l	89
80)	trans-1,4-Dichloro-2-b...	6.712	53	66509	48.9735	ug/l	14
81)	1,3-Dichlorobenzene	7.229	146	192877	46.1840	ug/l	89
82)	1,4-Dichlorobenzene	7.271	146	192625	44.5952	ug/l	94
83)	1,2-Dichlorobenzene	7.487	146	139973	39.3895	ug/l	91
84)	Isopropylbenzene	6.549	105	514897	44.2316	ug/l	95
85)	Cyclohexanone	6.712	55	28201	251.6996	ug/l	82
86)	Camphene	6.712	93	240030	53.8524	ug/l	86
87)	1,2,3-Trichloropropane	6.724	75	60658	32.6000	ug/l	87
88)	2-Chlorotoluene	6.826	91	412609	46.0585	ug/l	93
89)	p-Ethyltoluene	6.826	105	527603	47.9233	ug/l	82
90)	4-Chlorotoluene	6.880	91	387692	47.8252	ug/l	92
91)	n-Propylbenzene	6.766	91	735285	47.0102	ug/l	95
92)	Bromobenzene	6.724	77	266352	44.8864	ug/l	85
93)	1,3,5-Trimethylbenzene	6.850	105	418127	50.0929	ug/l	96
94)	Butyl methacrylate	6.868	41	140599m	39.1593	ug/l	
95)	t-Butylbenzene	7.036	119	405756	46.9584	ug/l	89
96)	1,2,4-Trimethylbenzene	7.060	105	389409	46.9663	ug/l	88
97)	sec-Butylbenzene	7.150	105	612097	48.9005	ug/l	94
98)	4-Isopropyltoluene	7.222	119	438834	46.0147	ug/l	93
99)	n-Butylbenzene	7.451	91	613727	47.3515	ug/l	84
100)	p-Diethylbenzene	7.433	119	263099	49.1469	ug/l	94
101)	1,2,4,5-Tetramethylben...	7.878	119	266327	43.6662	ug/l	92
102)	1,2-Dibromo-3-Chloropr...	7.920	157	5218	37.0527	ug/l	87
103)	Camphor	8.328	95	15130	275.1724	ug/l	76
104)	Hexachlorobutadiene	8.491	225	116110	48.5962	ug/l	87
105)	1,2,4-Trichlorobenzene	8.401	180	82209	39.0530	ug/l	95
106)	1,2,3-Trichlorobenzene	8.683	180	67754	42.3710	ug/l	93
107)	Naphthalene	8.545	128	68937	30.9656	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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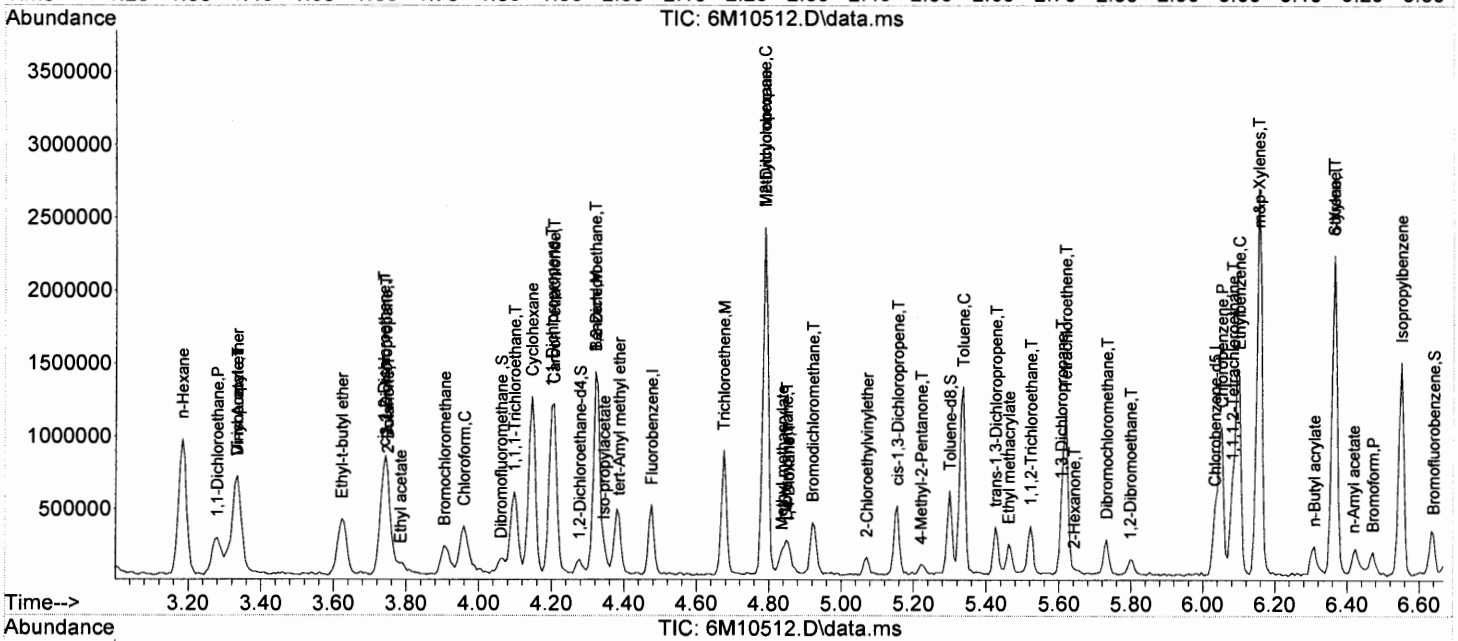
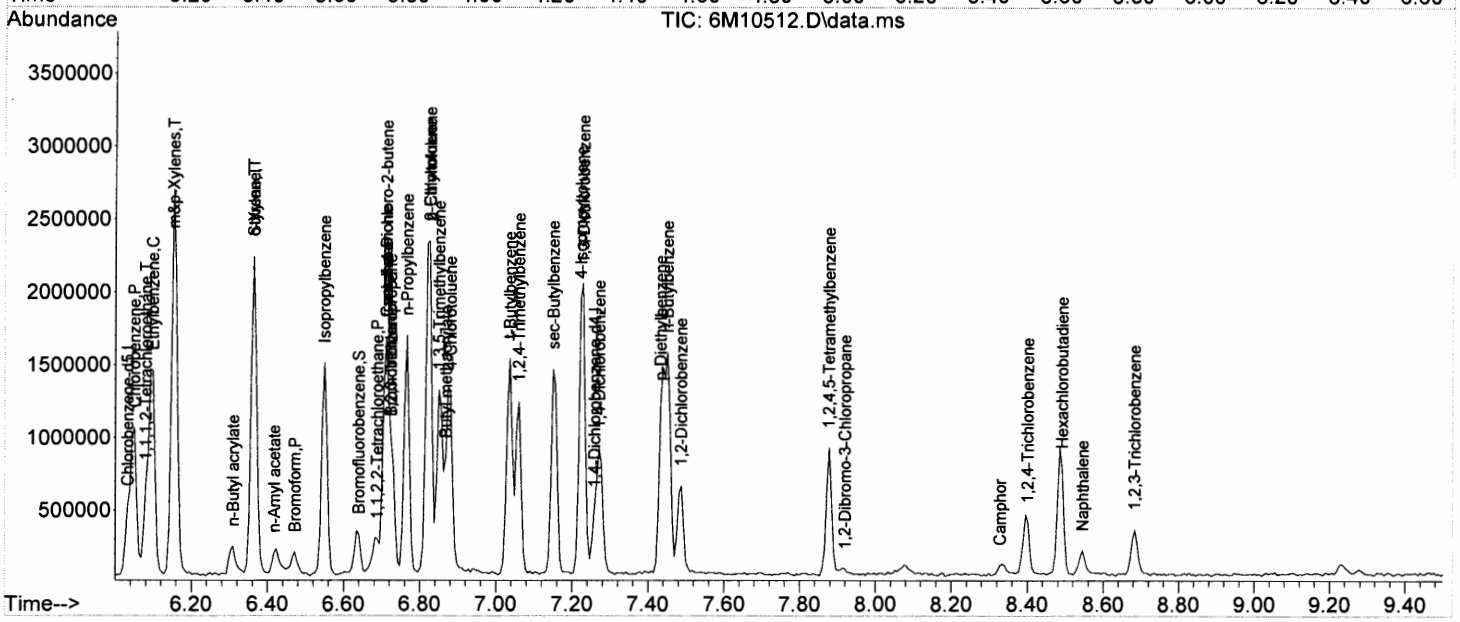
SampleID : MBS
Data File: 6M10512.D
Acq On : 05/23/14 18:11
Operator : WP
Sam Mult : 1 Vial# : 20
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/23/14 18:57
Qt Upd On: 05/20/14 13:55
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 6M10512.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Isopropylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Time-->


Abundance
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m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Bromofluorobenzene,S
n-Propylbenzene
Isopropylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data
QC Batch: MBS35822

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51271.D	MBS35822	5/23/2014 8:13:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	17.6125	0	20	88	20	130
1,1-Dichloroethene	1	18.5579	0	20	93	50	130
1,1-Dichloroethane	1	17.6928	0	20	88	50	130
Chloroform	1	16.4183	0	20	82	50	130
1,2-Dichloroethane	1	17.794	0	20	89	50	130
2-Butanone	1	17.7587	0	20	89	20	130
Carbon Tetrachloride	1	19.2265	0	20	96	50	130
Trichloroethene	1	17.732	0	20	89	50	130
Benzene	1	19.4138	0	20	97	50	130
Tetrachloroethene	1	18.0243	0	20	90	50	130
Toluene	1	17.8958	0	20	89	50	130
Chlorobenzene	1	17.6744	0	20	88	50	130
1,4-Dichlorobenzene	1	17.1881	0	20	86	50	130
1,2-Dichlorobenzene	1	17.8264	0	20	89	50	130
n-Propylbenzene	1	19.3367	0	20	97	50	130
sec-Butylbenzene	1	18.6775	0	20	93	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 3M51271.D
Acq On : 05/23/14 20:13

Operator : WP
Sam Mult : 1 Vial# : 26
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/27/14 07:02
Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.407	96	295490	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.217	117	227454	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.629	152	124926	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.962	111	116840	32.70	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.00%			
39) 1,2-Dichloroethane-d4	4.197	67	63391	31.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.63%			
66) Toluene-d8	5.357	98	284117	28.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.43%			
76) Bromofluorobenzene	6.914	174	106843	28.61	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.37%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.275	51	149845	25.1122	ug/l	45
6) Dichlorodifluoromethane	1.275	85	27626	10.4751	ug/l	92
7) Chloromethane	1.391	50	36611	11.9980	ug/l	83
8) Bromomethane	1.691	94	18738	14.0225	ug/l	86
9) Vinyl Chloride	1.458	62	37232	17.6125	ug/l	99
10) Chloroethane	1.741	64	18002	14.8275	ug/l	98
11) Trichlorofluoromethane	1.924	101	44448	18.4313	ug/l	90
12) Ethyl ether	2.123	59	17444	15.6626	ug/l	93
13) Furan	2.147	39	76706	16.8943	ug/l	80
14) 1,1,2-Trichloro-1,2,2-...	2.279	101	33288	17.7387	ug/l	98
15) Methylene Chloride	2.622	84	43429	15.9272	ug/l	80
16) Acrolein	2.213	56	28795	78.2122	ug/l	88
17) Acrylonitrile	2.814	53	13843	16.0281	ug/l	83
18) Iodomethane	2.394	142	65603	16.0719	ug/l	88
19) Acetone	2.327	43	67656	79.3374	ug/l	85
20) Carbon Disulfide	2.442	76	106824	17.1771	ug/l	100
21) t-Butyl Alcohol	2.706	59	18921	86.3923	ug/l	72
22) n-Hexane	3.019	57	27852	17.4626	ug/l	79
23) Di-isopropyl-ether	3.181	45	180883	16.7400	ug/l	87
24) 1,1-Dichloroethene	2.285	61	71289	18.5579	ug/l	94
25) Methyl Acetate	2.550	43	51713	15.7003	ug/l	100
26) Methyl-t-butyl ether	2.820	73	101526	16.5400	ug/l	67
27) 1,1-Dichloroethane	3.145	63	89224	17.6928	ug/l	97
28) trans-1,2-Dichloroethene	2.820	96	39181	18.5631	ug/l	90
29) Ethyl-t-butyl ether	3.470	59	153601	45.2014	ug/l	97
30) cis-1,2-Dichloroethene	3.602	61	74220	16.5043	ug/l	88
31) Bromochloromethane	3.794	49	49597	17.2506	ug/l	79
32) 2,2-Dichloropropane	3.602	77	56155	21.5225	ug/l	98
33) Ethyl acetate	3.656	43	41283	12.9687	ug/l	91
34) 1,4-Dioxane	4.852	88	22948	889.9601	ug/l	56
35) 1,1-Dichloropropene	4.095	75	57444	18.3435	ug/l	86
36) Chloroform	3.848	83	75371	16.4183	ug/l	85
38) Cyclohexane	4.023	56	58509	18.2588	ug/l	84
40) 1,2-Dichloroethane	4.251	62	67219	17.7940	ug/l	94
41) 2-Butanone	3.626	43	24470	17.7587	ug/l	91
42) 1,1,1-Trichloroethane	3.980	97	63214	17.3757	ug/l	89
43) Carbon Tetrachloride	4.095	117	48928	19.2265	ug/l	72
44) Vinyl Acetate	3.181	43	149297	20.0959	ug/l	100
45) Bromodichloromethane	4.930	83	67858	17.9521	ug/l	92
46) Methylcyclohexane	4.744	83	34896	17.2619	ug/l	89
47) Dibromomethane	4.846	174	37676	14.9359	ug/l	89
48) 1,2-Dichloropropane	4.768	63	60871	19.4097	ug/l	90
49) Trichloroethene	4.630	130	48982	17.7320	ug/l	90
50) Benzene	4.233	78	172411	19.4138	ug/l	100
51) tert-Amyl methyl ether	4.293	73	111953	16.9505	ug/l	81
53) Iso-propylacetate	4.269	43	113049	20.5475	ug/l	97
54) Methyl methacrylate	4.822	41	43889	16.0674	ug/l	89
55) Dibromochloromethane	5.874	129	51136	17.5879	ug/l	91
56) 2-Chloroethylvinylether	5.099	63	28466	18.0944	ug/l	75
57) cis-1,3-Dichloropropene	5.195	75	70248	18.9249	ug/l	93
58) trans-1,3-Dichloropropene	5.519	75	56949	18.5484	ug/l	94
59) Ethyl methacrylate	5.549	41	56195	20.3791	ug/l	86
60) 1,1,2-Trichloroethane	5.628	97	40262	16.7995	ug/l	87
61) 1,2-Dibromoethane	5.946	107	42480	16.9969	ug/l	96
62) 1,3-Dichloropropane	5.736	76	71969	17.6453	ug/l	93
63) 4-Methyl-2-Pentanone	5.273	43	51466	16.8148	ug/l	92
64) 2-Hexanone	5.766	43	29178	14.1624	ug/l	98
65) Tetrachloroethene	5.718	164	39436	18.0243	ug/l	95
67) Toluene	5.393	92	99510	17.8958	ug/l	97

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 3M51271.D
Acq On : 05/23/14 20:13

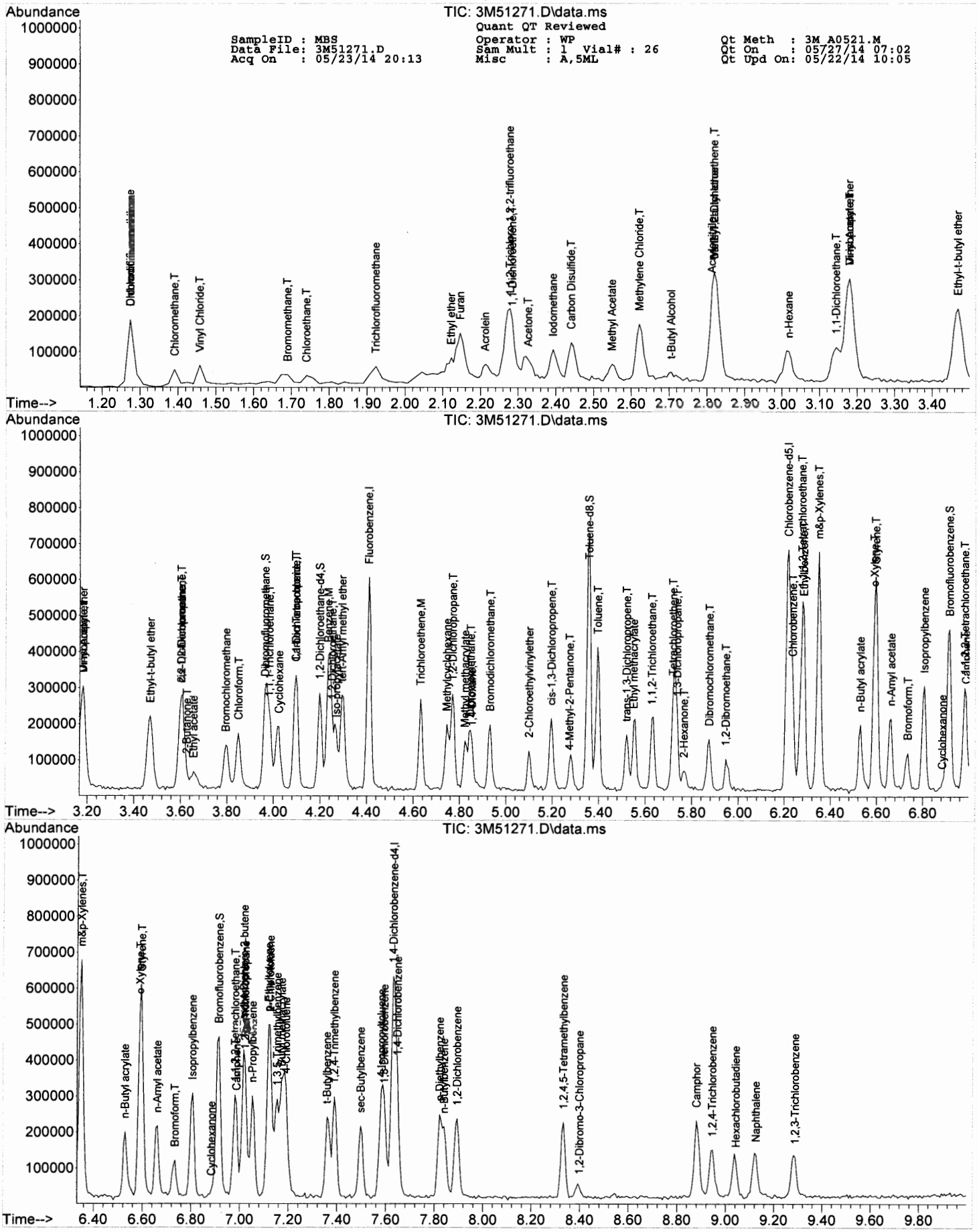
Operator : WP
Sam Mult : 1 Vial# : 26
Misc : A,5ML

Qt Meth : 3M_A0521.M
Qt On : 05/27/14 07:02
Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-23-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.277	133	43679	17.7843	ug/l	94
69)	Chlorobenzene	6.235	112	109575	17.6744	ug/l	90
71)	n-Butyl acrylate	6.529	55	97302	17.1772	ug/l	93
72)	n-Amyl acetate	6.661	43	101500	21.4521	ug/l	94
73)	Bromoform	6.734	173	37736	16.5623	ug/l	96
74)	Ethylbenzene	6.283	106	46056	21.7372	ug/l	89
75)	1,1,2,2-Tetrachloroethane	6.980	83	54423	19.5284	ug/l	93
77)	Styrene	6.595	104	108592	20.2660	ug/l	98
78)	m&p-Xylenes	6.349	106	120164	41.2305	ug/l	95
79)	o-Xylene	6.589	106	62653	20.3315	ug/l	76
80)	trans-1,4-Dichloro-2-b...	7.016	53	12572	14.1794	ug/l	66
81)	1,3-Dichlorobenzene	7.593	146	74587	17.6887	ug/l	86
82)	1,4-Dichlorobenzene	7.647	146	74068	17.1881	ug/l	93
83)	1,2-Dichlorobenzene	7.894	146	79791	17.8264	ug/l	86
84)	Isopropylbenzene	6.806	105	129406	17.9707	ug/l	90
85)	Cyclohexanone	6.884	55	8864	77.8346	ug/l	84
86)	Camphene	6.986	93	29788	17.5620	ug/l	100
87)	1,2,3-Trichloropropane	7.022	75	56584	17.7038	ug/l	90
88)	2-Chlorotoluene	7.124	91	92312	19.2862	ug/l	94
89)	p-Ethyltoluene	7.118	105	138292	21.2305	ug/l	77
90)	4-Chlorotoluene	7.190	91	86112	18.5845	ug/l	88
91)	n-Propylbenzene	7.052	91	153007	19.3367	ug/l	97
92)	Bromobenzene	7.016	77	83022	15.0649	ug/l	82
93)	1,3,5-Trimethylbenzene	7.154	105	103605	18.7942	ug/l	91
94)	Butyl methacrylate	7.172	41	78606	20.2595	ug/l	86
95)	t-Butylbenzene	7.359	119	93329	18.5739	ug/l	82
96)	1,2,4-Trimethylbenzene	7.389	105	116068	18.9797	ug/l	83
97)	sec-Butylbenzene	7.497	105	101468	18.6775	ug/l	98
98)	4-Isopropyltoluene	7.581	119	84064	18.7881	ug/l	92
99)	n-Butylbenzene	7.840	91	96755	19.9287	ug/l	89
100)	p-Diethylbenzene	7.822	119	49675	17.4000	ug/l	95
101)	1,2,4,5-Tetramethylben...	8.333	119	87394	18.9343	ug/l	91
102)	1,2-Dibromo-3-Chloropr...	8.399	157	8243	12.8993	ug/l	81
103)	Camphor	8.880	95	43290	172.6911	ug/l	89
104)	Hexachlorobutadiene	9.042	225	21023	14.7679	ug/l	91
105)	1,2,4-Trichlorobenzene	8.946	180	38227	14.8934	ug/l	91
106)	1,2,3-Trichlorobenzene	9.288	180	40973	17.7113	ug/l	94
107)	Naphthalene	9.126	128	86940	17.5278	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 3M51271.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 3M51271.D
Acq On : 05/23/14 20:13
Operator : WP
Sam Mult : 1 Vial# : 26
Misc : A,5ML
Qt Meth : 3M_A0521.M
Qt On : 05/27/14 07:02
Qt Upd On: 05/22/14 10:05
Abundance
Time-->
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,I
m&p-Xylenes,T
o-Xylene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Form3
Recovery Data
QC Batch: MBS35836

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10530.D	MBS35836	5/23/2014 11:10:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	38.0103	0	50	76	20	130
1,1-Dichloroethene	1	41.1939	0	50	82	50	130
1,1-Dichloroethane	1	38.1376	0	50	76	50	130
Chloroform	1	38.8405	0	50	78	50	130
1,2-Dichloroethane	1	35.9424	0	50	72	50	130
2-Butanone	1	35.7827	0	50	72	20	130
Carbon Tetrachloride	1	36.0656	0	50	72	50	130
Trichloroethene	1	33.01	0	50	66	50	130
Benzene	1	39.2197	0	50	78	50	130
Tetrachloroethene	1	33.5042	0	50	67	50	130
Toluene	1	34.3856	0	50	69	50	130
Chlorobenzene	1	35.1926	0	50	70	50	130
1,4-Dichlorobenzene	1	32.3021	0	50	65	50	130
1,2-Dichlorobenzene	1	31.4701	0	50	63	50	130
n-Propylbenzene	1	30.1973	0	50	60	50	130
sec-Butylbenzene	1	29.6325	0	50	59	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 6M10530.D
Acq On : 05/23/14 23:10

Operator : WP
Sam Mult : 1 Vial# : 34
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/27/14 07:08
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.470	96	206160	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.033	117	111275	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.259	152	61234	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.055	111	61016	32.89	ug/l	-0.02
Spiked Amount 30.000			Recovery = 109.63%			
39) 1,2-Dichloroethane-d4	4.272	67	24168	26.95	ug/l	-0.01
Spiked Amount 30.000			Recovery = 89.83%			
66) Toluene-d8	5.300	98	199008	33.89	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.97%			
76) Bromofluorobenzene	6.634	174	46315	30.71	ug/l	-0.01
Spiked Amount 30.000			Recovery = 102.37%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.291	51	432401m	64.7428	ug/l	
6) Dichlorodifluoromethane	1.285	85	88221	21.0814	ug/l	94
7) Chloromethane	1.406	50	109331	29.5047	ug/l	79
8) Bromomethane	1.740	94	92254	36.3171	ug/l	65
9) Vinyl Chloride	1.492	62	105365	38.0103	ug/l	96
10) Chloroethane	1.815	64	113683	42.2506	ug/l	92
11) Trichlorofluoromethane	2.016	101	195938	40.1134	ug/l	80
12) Ethyl ether	2.216	59	45235m	33.0727	ug/l	
13) Furan	2.240	39	342459m	41.4121	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.396	101	123511	36.5684	ug/l	92
15) Methylene Chloride	2.733	84	113119	42.6447	ug/l	84
16) Acrolein	2.294	56	30432	155.9666	ug/l	88
17) Acrylonitrile	2.913	53	16828m	42.6852	ug/l	
18) Iodomethane	2.504	142	129844	40.1537	ug/l	94
19) Acetone	2.408	43	70214	206.3671	ug/l	89
20) Carbon Disulfide	2.565	76	413841	36.2646	ug/l	100
21) t-Butyl Alcohol	2.793	59	8531m	157.1214	ug/l	
22) n-Hexane	3.184	57	200356	30.5321	ug/l	85
23) Di-isopropyl-ether	3.334	45	401770	37.3638	ug/l	79
24) 1,1-Dichloroethene	2.390	61	251178	41.1939	ug/l	89
25) Methyl Acetate	2.661	43	51294	36.9931	ug/l	100
26) Methyl-t-butyl ether	2.949	73	100190	35.2817	ug/l	83
27) 1,1-Dichloroethane	3.274	63	237050	38.1376	ug/l	100
28) trans-1,2-Dichloroethene	2.961	96	114695	35.7320	ug/l	98
29) Ethyl-t-butyl ether	3.623	59	170965	86.5619	ug/l	97
30) cis-1,2-Dichloroethene	3.731	61	217338	39.3366	ug/l	85
31) Bromochloromethane	3.905	49	91010	37.9039	ug/l	60
32) 2,2-Dichloropropane	3.743	77	122318	32.4100	ug/l	97
33) Ethyl acetate	3.785	43	47304	31.0076	ug/l	91
34) 1,4-Dioxane	4.849	88	16674	1671.1865	ug/l	92
35) 1,1-Dichloropropene	4.200	75	164771	31.3482	ug/l	96
36) Chloroform	3.953	83	183892	38.8405	ug/l	75
38) Cyclohexane	4.145	56	235447	28.4867	ug/l	83
40) 1,2-Dichloroethane	4.320	62	101871	35.9424	ug/l	79
41) 2-Butanone	3.743	43	25687	35.7827	ug/l	80
42) 1,1,1-Trichloroethane	4.091	97	159171	35.3813	ug/l	97
43) Carbon Tetrachloride	4.206	117	134277	36.0656	ug/l	88
44) Vinyl Acetate	3.328	43	279972	36.6179	ug/l	100
45) Bromodichloromethane	4.921	83	126240	36.6089	ug/l	93
46) Methylcyclohexane	4.789	83	172804	27.5695	ug/l	91
47) Dibromomethane	4.849	174	32795	33.0358	ug/l	84
48) 1,2-Dichloropropane	4.783	63	122373	38.8919	ug/l	100
49) Trichloroethene	4.674	130	101840	33.0100	ug/l	97
50) Benzene	4.320	78	469647	39.2197	ug/l	100
51) tert-Amyl methyl ether	4.380	73	93880m	31.7094	ug/l	
53) Iso-propylacetate	4.476	43	14690	6.5174	ug/l	75
54) Methyl methacrylate	4.831	41	49610	33.5924	ug/l	98
55) Dibromochloromethane	5.732	129	56275	32.6868	ug/l	77
56) 2-Chloroethylvinylether	5.065	63	26993	39.1773	ug/l	59
57) cis-1,3-Dichloropropene	5.149	75	116222	32.1224	ug/l	88
58) trans-1,3-Dichloropropene	5.426	75	68153	27.2319	ug/l	89
59) Ethyl methacrylate	5.462	41	59880m	37.8592	ug/l	
60) 1,1,2-Trichloroethane	5.522	97	53271	34.1962	ug/l	87
61) 1,2-Dibromoethane	5.798	107	39756	34.6030	ug/l	76
62) 1,3-Dichloropropane	5.606	76	93234	34.5230	ug/l	96
63) 4-Methyl-2-Pentanone	5.221	43	40289	30.4401	ug/l	92
64) 2-Hexanone	5.642	43	18620m	26.3735	ug/l	
65) Tetrachloroethene	5.618	164	79813	33.5042	ug/l	74
67) Toluene	5.330	92	231482	34.3856	ug/l	89

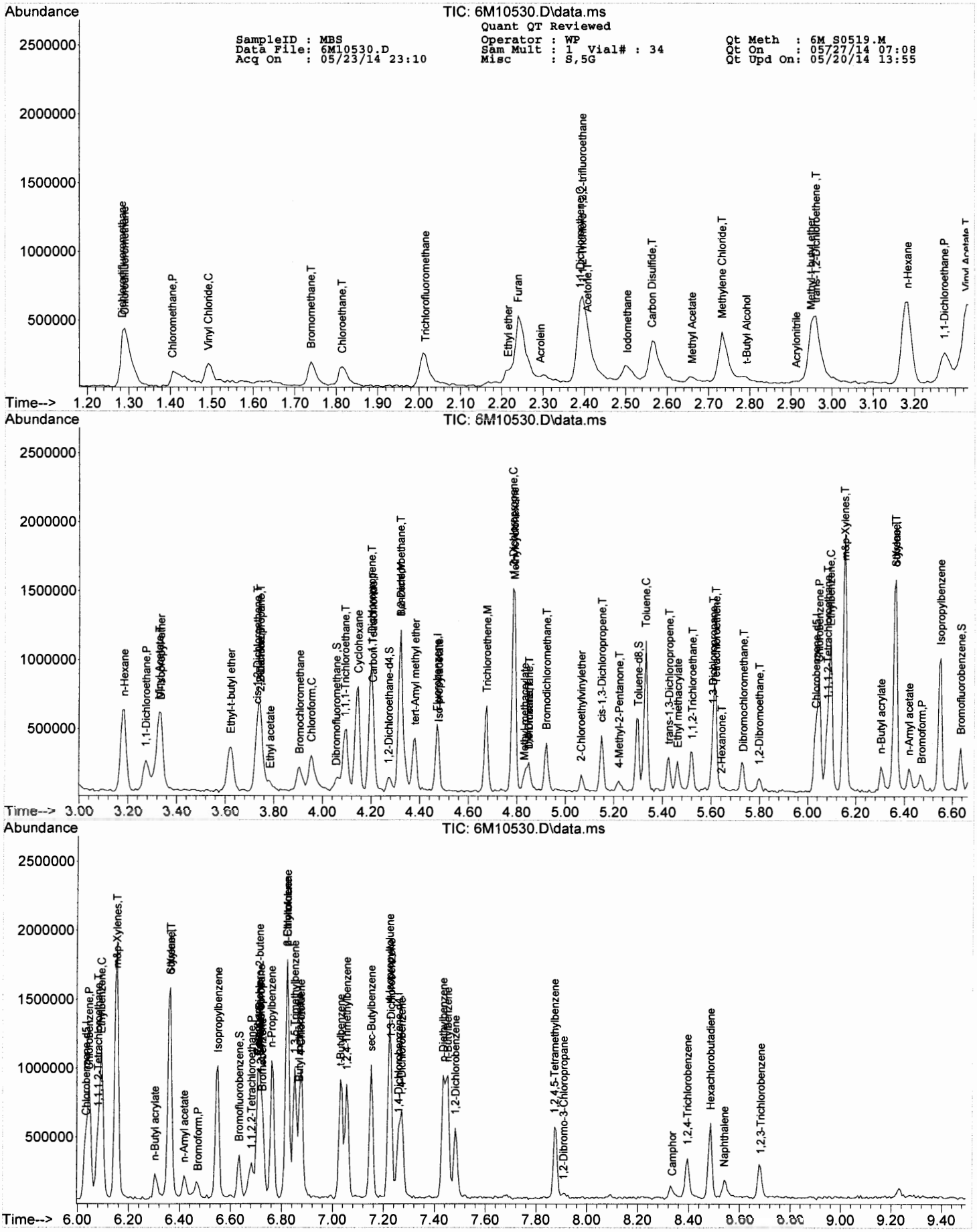
Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 6M10530.D
Acq On : 05/23/14 23:10
Operator : WP
Sam Mult : 1 Vial# : 34
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/27/14 07:08
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-2314\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.081	133	61105	32.5529	ug/l	84
69)	Chlorobenzene	6.045	112	205232	35.1926	ug/l	85
71)	n-Butyl acrylate	6.303	55	83222	33.9692	ug/l	95
72)	n-Amyl acetate	6.418	43	75568	32.5463	ug/l	68
73)	Bromoform	6.472	173	33524	32.9555	ug/l	85
74)	Ethylbenzene	6.093	106	104200	31.3007	ug/l	76
75)	1,1,2,2-Tetrachloroethane	6.682	83	56888	34.2785	ug/l	86
77)	Styrene	6.363	104	199068	34.3119	ug/l	89
78)	m&p-Xylenes	6.153	106	272975	67.4964	ug/l	97
79)	o-Xylene	6.363	106	125413	34.9494	ug/l	81
80)	trans-1,4-Dichloro-2-b...	6.712	53	39026	28.6643	ug/l	47
81)	1,3-Dichlorobenzene	7.229	146	133038	31.7755	ug/l	91
82)	1,4-Dichlorobenzene	7.271	146	139878	32.3021	ug/l	88
83)	1,2-Dichlorobenzene	7.481	146	112113	31.4701	ug/l	93
84)	Isopropylbenzene	6.550	105	358648	30.7746	ug/l	96
85)	Cyclohexanone	6.712	55	19296	172.1549	ug/l	73
86)	Camphene	6.706	93	132982	30.0379	ug/l	93
87)	1,2,3-Trichloropropane	6.718	75	59660	31.9830	ug/l	85
88)	2-Chlorotoluene	6.820	91	295190	32.7218	ug/l	97
89)	p-Ethyltoluene	6.820	105	370544	33.5538	ug/l	82
90)	4-Chlorotoluene	6.874	91	242855	29.8482	ug/l	97
91)	n-Propylbenzene	6.760	91	474882	30.1973	ug/l	96
92)	Bromobenzene	6.724	77	188370	31.6648	ug/l	86
93)	1,3,5-Trimethylbenzene	6.850	105	263416	31.6034	ug/l	90
94)	Butyl methacrylate	6.868	41	128434m	35.7178	ug/l	
95)	t-Butylbenzene	7.031	119	257361	29.8086	ug/l	89
96)	1,2,4-Trimethylbenzene	7.055	105	273536	32.9080	ug/l	92
97)	sec-Butylbenzene	7.151	105	371179	29.6325	ug/l	96
98)	4-Isopropyltoluene	7.223	119	260476	27.2028	ug/l	95
99)	n-Butylbenzene	7.451	91	379181	29.1599	ug/l	86
100)	p-Diethylbenzene	7.433	119	162619	30.4762	ug/l	96
101)	1,2,4,5-Tetramethylben...	7.872	119	175555	28.9402	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	7.908	157	5902	41.6373	ug/l	81
103)	Camphor	8.335	95	15518	281.5192	ug/l	95
104)	Hexachlorobutadiene	8.485	225	73015	30.4825	ug/l	95
105)	1,2,4-Trichlorobenzene	8.395	180	59290	28.0946	ug/l	90
106)	1,2,3-Trichlorobenzene	8.684	180	47500	29.6745	ug/l	97
107)	Naphthalene	8.539	128	65360	29.2851	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10530.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 6M10530.D
Acq On : 05/23/14 23:10
Operator : WP
Sam Mult : 1 Vial# : 34
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/27/14 07:08
Qt Upd On: 05/20/14 13:55
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Chlorobenzene,P
Ethylbenzene,C
n-Propylbenzene
sec-Butylbenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-Chloropropane
1,2,4,5-Tetramethylbenzene
1,2-Dichlorobenzene
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Form3
Recovery Data
QC Batch: MBS35844

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10597.D	MBS35844	5/28/2014 8:35:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	17.6551	0	50	35	20	130
1,1-Dichloroethene	1	35.151	0	50	70	50	130
1,1-Dichloroethane	1	39.4832	0	50	79	50	130
Chloroform	1	41.4952	0	50	83	50	130
1,2-Dichloroethane	1	46.2403	0	50	92	50	130
2-Butanone	1	36.8561	0	50	74	20	130
Carbon Tetrachloride	1	42.4255	0	50	85	50	130
Trichloroethene	1	41.8012	0	50	84	50	130
Benzene	1	44.2053	0	50	88	50	130
Tetrachloroethene	1	45.5746	0	50	91	50	130
Toluene	1	42.448	0	50	85	50	130
Chlorobenzene	1	42.1023	0	50	84	50	130
1,4-Dichlorobenzene	1	40.5043	0	50	81	50	130
1,2-Dichlorobenzene	1	39.807	0	50	80	50	130
n-Propylbenzene	1	45.5774	0	50	91	50	130
sec-Butylbenzene	1	44.1474	0	50	88	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 6M10597.D
Acq On : 05/28/14 08:35

Operator : SGG
Sam Mult : 1 Vial# : 7
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/28/14 08:46
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-28-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.469	96	182795	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.032	117	100355	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.258	152	54038	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.060	111	50816	30.89	ug/l	-0.01
Spiked Amount 30.000			Recovery	=	102.97%	
39) 1,2-Dichloroethane-d4	4.276	67	20012	25.17	ug/l	0.00
Spiked Amount 30.000			Recovery	=	83.90%	
66) Toluene-d8	5.298	98	162691	30.72	ug/l	0.00
Spiked Amount 30.000			Recovery	=	102.40%	
76) Bromofluorobenzene	6.633	174	40322	30.29	ug/l	-0.01
Spiked Amount 30.000			Recovery	=	100.97%	
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.290	51	405217m	68.3574	ug/l	
6) Dichlorodifluoromethane	1.295	85	14734m	3.9922	ug/l	
7) Chloromethane	1.411	50	30298	9.2215	ug/l	90
8) Bromomethane	1.739	94	57724	25.6284	ug/l	77
9) Vinyl Chloride	1.491	62	43007	17.6551	ug/l	87
10) Chloroethane	1.814	64	75491	31.6426	ug/l	95
11) Trichlorofluoromethane	2.009	101	141779	32.8577	ug/l	75
12) Ethyl ether	2.227	59	35874m	29.5811	ug/l	
13) Furan	2.245	39	280460m	38.2888	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.395	101	113056	37.7515	ug/l	92
15) Methylene Chloride	2.738	84	103766	44.1189	ug/l	96
16) Acrolein	2.299	56	38132	219.6844	ug/l	91
17) Acrylonitrile	2.912	53	17322	49.5545	ug/l	57
18) Iodomethane	2.503	142	109135	38.0634	ug/l	96
19) Acetone	2.407	43	69598	230.7449	ug/l	90
20) Carbon Disulfide	2.569	76	312645	30.8988	ug/l	100
21) t-Butyl Alcohol	2.792	59	7472	155.2073	ug/l	99
22) n-Hexane	3.182	57	190273	32.6843	ug/l	91
23) Di-isopropyl-ether	3.333	45	385630	40.4469	ug/l	76
24) 1,1-Dichloroethene	2.395	61	189852	35.1510	ug/l	96
25) Methyl Acetate	2.672	43	44436	36.1522	ug/l	100
26) Methyl-t-butyl ether	2.954	73	87398	34.7110	ug/l	80
27) 1,1-Dichloroethane	3.279	63	217600	39.4832	ug/l	93
28) trans-1,2-Dichloroethene	2.954	96	104978	36.8851	ug/l	73
29) Ethyl-t-butyl ether	3.615	59	57454	33.4413	ug/l	97
30) cis-1,2-Dichloroethene	3.729	61	212165	43.3087	ug/l	74
31) Bromochloromethane	3.904	49	88944m	41.7784	ug/l	
32) 2,2-Dichloropropane	3.747	77	130963	39.0444	ug/l	89
33) Ethyl acetate	3.778	43	52988	39.1731	ug/l	92
34) 1,4-Dioxane	4.853	88	15763	1781.8211	ug/l	95
35) 1,1-Dichloropropene	4.198	75	183702	39.4162	ug/l	94
36) Chloroform	3.952	83	174195	41.4952	ug/l	92
38) Cyclohexane	4.144	56	260339	35.5263	ug/l	86
40) 1,2-Dichloroethane	4.319	62	116205	46.2403	ug/l	83
41) 2-Butanone	3.741	43	23459	36.8561	ug/l	75
42) 1,1,1-Trichloroethane	4.096	97	166493	41.7394	ug/l	97
43) Carbon Tetrachloride	4.204	117	140054	42.4255	ug/l	92
44) Vinyl Acetate	3.327	43	251969	37.1677	ug/l	100
45) Bromodichloromethane	4.920	83	131740	43.0871	ug/l	95
46) Methylcyclohexane	4.787	83	233044	42.0091	ug/l	88
47) Dibromomethane	4.847	174	37166	42.2243	ug/l	83
48) 1,2-Dichloropropane	4.781	63	120484	43.1860	ug/l	99
49) Trichloroethene	4.673	130	114443	41.8012	ug/l	94
50) Benzene	4.319	78	469355	44.2053	ug/l	100
51) tert-Amyl methyl ether	4.379	73	89751m	34.1896	ug/l	
53) Iso-propylacetate	4.337	43	75668	36.7969	ug/l	82
54) Methyl methacrylate	4.829	41	48626	36.5089	ug/l	86
55) Dibromochloromethane	5.731	129	53921	34.7275	ug/l	73
56) 2-Chloroethylvinylether	5.064	63	25525	41.0322	ug/l	70
57) cis-1,3-Dichloropropene	5.148	75	126632	38.8080	ug/l	87
58) trans-1,3-Dichloropropene	5.424	75	78860	34.9388	ug/l	89
59) Ethyl methacrylate	5.461	41	53792	37.7127	ug/l	77
60) 1,1,2-Trichloroethane	5.521	97	47843	34.0536	ug/l	97
61) 1,2-Dibromoethane	5.797	107	39963	38.5680	ug/l	75
62) 1,3-Dichloropropane	5.605	76	100758	41.3687	ug/l	92
63) 4-Methyl-2-Pentanone	5.220	43	40653	34.0574	ug/l	100
64) 2-Hexanone	5.647	43	18507m	29.0658	ug/l	
65) Tetrachloroethene	5.617	164	97801	45.5746	ug/l	99
67) Toluene	5.328	92	257468	42.4480	ug/l	93

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 6M10597.D
Acq On : 05/28/14 08:35

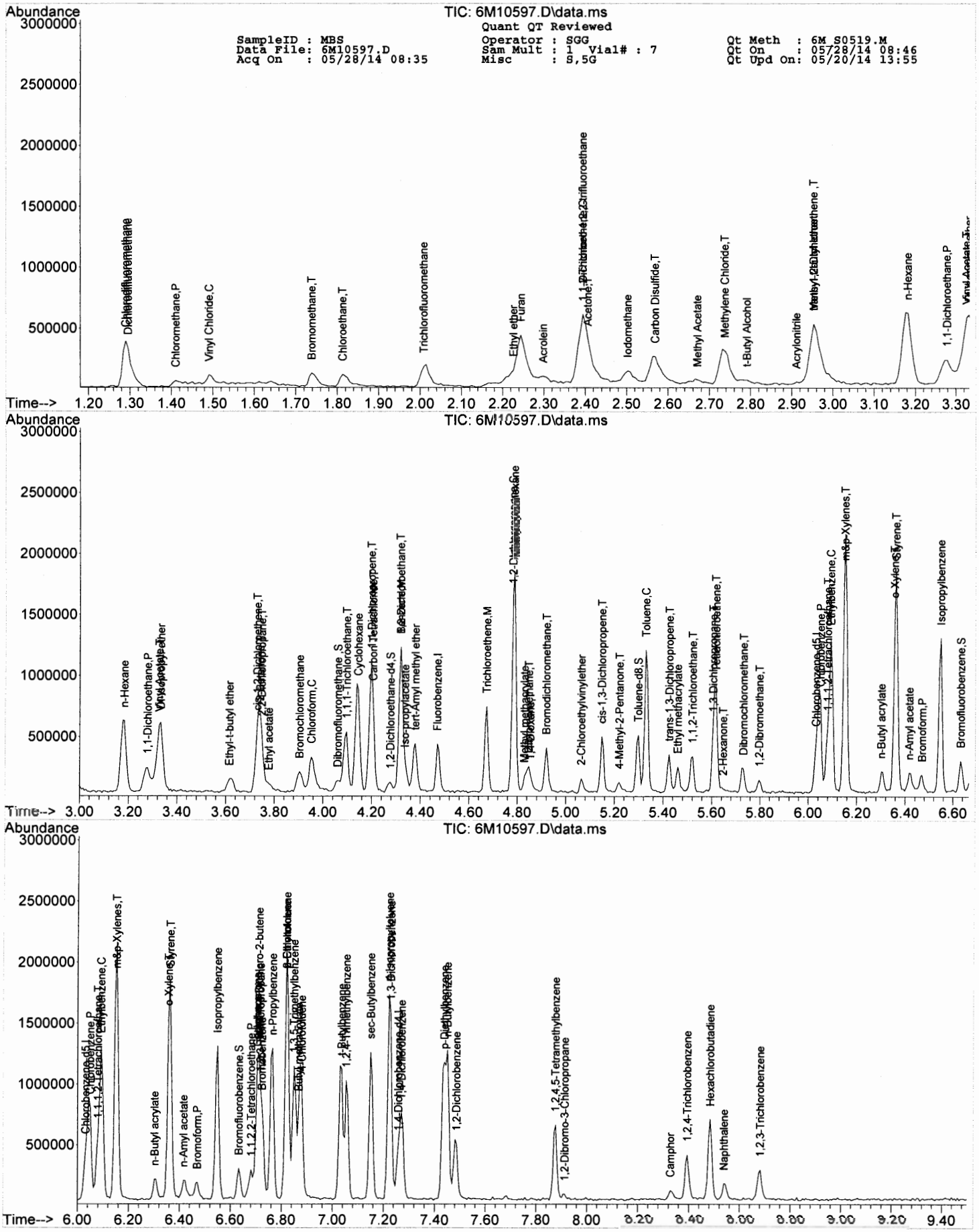
Operator : SGG
Sam Mult : 1 Vial# : 7
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/28/14 08:46
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-28-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.080	133	64307	37.9865	ug/l	74
69)	Chlorobenzene	6.050	112	221432	42.1023	ug/l	95
71)	n-Butyl acrylate	6.302	55	81450	37.5185	ug/l	93
72)	n-Amyl acetate	6.416	43	73482	35.7343	ug/l	79
73)	Bromoform	6.470	173	37233	41.4757	ug/l	89
74)	Ethylbenzene	6.092	106	126504	42.9199	ug/l	95
75)	1,1,2,2-Tetrachloroethane	6.681	83	61374	41.9062	ug/l	87
77)	Styrene	6.362	104	210886	41.1893	ug/l	83
78)	m&p-Xylenes	6.152	106	330321	92.5523	ug/l	77
79)	o-Xylene	6.356	106	141705	44.6570	ug/l	99
80)	trans-1,4-Dichloro-2-b...	6.711	53	51296	42.6938	ug/l	40
81)	1,3-Dichlorobenzene	7.228	146	157530	42.6357	ug/l	92
82)	1,4-Dichlorobenzene	7.270	146	154784	40.5043	ug/l	95
83)	1,2-Dichlorobenzene	7.486	146	125148	39.8070	ug/l	90
84)	Isopropylbenzene	6.549	105	453721	44.0564	ug/l	96
85)	Cyclohexanone	6.705	55	24655	248.7466	ug/l	74
86)	Camphene	6.705	93	186646	47.4502	ug/l	88
87)	1,2,3-Trichloropropane	6.717	75	70904	43.0725	ug/l	81
88)	2-Chlorotoluene	6.819	91	355023	44.7755	ug/l	95
89)	p-Ethyltoluene	6.819	105	415438	42.6438	ug/l	83
90)	4-Chlorotoluene	6.879	91	301482	42.0211	ug/l	93
91)	n-Propylbenzene	6.765	91	630842	45.5774	ug/l	92
92)	Bromobenzene	6.723	77	214996	40.9533	ug/l	88
93)	1,3,5-Trimethylbenzene	6.849	105	328822	44.5799	ug/l	89
94)	Butyl methacrylate	6.867	41	120504m	37.9499	ug/l	
95)	t-Butylbenzene	7.035	119	327458	42.8694	ug/l	88
96)	1,2,4-Trimethylbenzene	7.053	105	324736	44.2701	ug/l	91
97)	sec-Butylbenzene	7.150	105	488673	44.1474	ug/l	95
98)	4-Isopropyltoluene	7.222	119	360950	42.7690	ug/l	96
99)	n-Butylbenzene	7.450	91	488745	42.6144	ug/l	86
100)	p-Diethylbenzene	7.438	119	212281	44.8807	ug/l	91
101)	1,2,4,5-Tetramethylben...	7.877	119	202540	37.6570	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	7.913	157	6832	54.0329	ug/l	58
103)	Camphor	8.328	95	16227	333.5830	ug/l	72
104)	Hexachlorobutadiene	8.484	225	93128	44.0567	ug/l	98
105)	1,2,4-Trichlorobenzene	8.394	180	72048	38.6862	ug/l	92
106)	1,2,3-Trichlorobenzene	8.682	180	52866	37.3908	ug/l	97
107)	Naphthalene	8.538	128	62801	31.8856	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 6M10597.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 6M10597.D
Acq On : 05/28/14 08:35
Operator : SGG
Sam Mult : 1 Vial# : 7
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/28/14 08:46
Qt Upd On: 05/20/14 13:55
Abundance
Time-->
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Iso-propylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
o-Xylene,T
Styrene,T
Isopropylbenzene
Bromofluorobenzene,S
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Bromofluorobenzene,S
n-Propylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Form3
Recovery Data
QC Batch: MBS35856

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10600.D	MBS35856	5/28/2014 9:29:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	16.476	0	50	33	20	130
1,1-Dichloroethene	1	37.0096	0	50	74	50	130
1,1-Dichloroethane	1	44.2329	0	50	88	50	130
Chloroform	1	49.7906	0	50	100	50	130
1,2-Dichloroethane	1	42.7036	0	50	85	50	130
2-Butanone	1	42.1342	0	50	84	20	130
Carbon Tetrachloride	1	48.6283	0	50	97	50	130
Trichloroethene	1	44.5942	0	50	89	50	130
Benzene	1	48.4426	0	50	97	50	130
Tetrachloroethene	1	43.7043	0	50	87	50	130
Toluene	1	40.5381	0	50	81	50	130
Chlorobenzene	1	44.739	0	50	89	50	130
1,4-Dichlorobenzene	1	43.1925	0	50	86	50	130
1,2-Dichlorobenzene	1	41.5469	0	50	83	50	130
n-Propylbenzene	1	45.8836	0	50	92	50	130
sec-Butylbenzene	1	45.7833	0	50	92	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 6M10600.D
Acq On : 05/28/14 09:29

Operator : SGG
Sam Mult : 1 Vial# : 10
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/28/14 12:36
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-28-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.469	96	174885	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.032	117	104811	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.258	152	58233	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.055	111	47111	29.93	ug/l	-0.02
Spiked Amount 30.000			Recovery = 99.77%			
39) 1,2-Dichloroethane-d4	4.271	67	20770	27.30	ug/l	-0.01
Spiked Amount 30.000			Recovery = 91.00%			
66) Toluene-d8	5.299	98	159349	28.81	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.03%			
76) Bromofluorobenzene	6.633	174	40270	28.08	ug/l	-0.01
Spiked Amount 30.000			Recovery = 93.60%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.284	51	337751m	59.7005	ug/l	
6) Dichlorodifluoromethane	1.284	85	9302	2.6355	ug/l	85
7) Chloromethane	1.411	50	31286	9.9529	ug/l	64
8) Bromomethane	1.739	94	52249	24.2469	ug/l	90
9) Vinyl Chloride	1.486	62	38378	16.4760	ug/l	92
10) Chloroethane	1.808	64	66118	28.9673	ug/l	84
11) Trichlorofluoromethane	2.010	101	136846	33.1440	ug/l	85
12) Ethyl ether	2.221	59	45289	39.0337	ug/l	77
13) Furan	2.239	39	296167m	42.2080	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.396	101	117879	41.1423	ug/l	88
15) Methylene Chloride	2.732	84	99735	44.3230	ug/l	82
16) Acrolein	2.305	56	34868	210.0700	ug/l	70
17) Acrylonitrile	2.924	53	18163m	54.3105	ug/l	
18) Iodomethane	2.498	142	110033	40.1124	ug/l	97
19) Acetone	2.402	43	53212	184.3348	ug/l	87
20) Carbon Disulfide	2.564	76	326753	33.7537	ug/l	100
21) t-Butyl Alcohol	2.792	59	4569	99.1992	ug/l	23
22) n-Hexane	3.177	57	213726	38.3196	ug/l	88
23) Di-isopropyl-ether	3.327	45	385033	42.2108	ug/l	90
24) 1,1-Dichloroethene	2.390	61	191299	37.0096	ug/l	95
25) Methyl Acetate	2.660	43	46753	39.7170	ug/l	100
26) Methyl-t-butyl ether	2.949	73	89184	37.0224	ug/l	86
27) 1,1-Dichloroethane	3.267	63	233228	44.2329	ug/l	89
28) trans-1,2-Dichloroethene	2.955	96	118064	43.3593	ug/l	93
29) Ethyl-t-butyl ether	3.616	59	61222	37.1955	ug/l	92
30) cis-1,2-Dichloroethene	3.730	61	223185	47.6188	ug/l	82
31) Bromochloromethane	3.898	49	100861m	49.5188	ug/l	
32) 2,2-Dichloropropane	3.736	77	138662	43.1470	ug/l	92
33) Ethyl acetate	3.778	43	43482	33.5994	ug/l	90
34) 1,4-Dioxane	4.848	88	14110	1667.1090	ug/l	80
35) 1,1-Dichloropropene	4.193	75	215278	48.2792	ug/l	90
36) Chloroform	3.952	83	199974	49.7906	ug/l	74
38) Cyclohexane	4.139	56	299916	42.7802	ug/l	84
40) 1,2-Dichloroethane	4.313	62	102673	42.7036	ug/l	88
41) 2-Butanone	3.736	43	25658	42.1342	ug/l	78
42) 1,1,1-Trichloroethane	4.091	97	198565	52.0313	ug/l	99
43) Carbon Tetrachloride	4.199	117	153584	48.6283	ug/l	94
44) Vinyl Acetate	3.321	43	261784	40.3621	ug/l	100
45) Bromodichloromethane	4.920	83	134580	46.0068	ug/l	83
46) Methylcyclohexane	4.788	83	240861	45.4014	ug/l	90
47) Dibromomethane	4.854	174	38721	45.9807	ug/l	78
48) 1,2-Dichloropropane	4.782	63	121958	45.6916	ug/l	84
49) Trichloroethene	4.674	130	116838	44.5942	ug/l	92
50) Benzene	4.319	78	492088	48.4426	ug/l	100
51) tert-Amyl methyl ether	4.379	73	87982m	35.0317	ug/l	
53) Iso-propylacetate	4.337	43	73403	34.2114	ug/l	63
54) Methyl methacrylate	4.830	41	47516	34.1588	ug/l	98
55) Dibromochloromethane	5.726	129	66821	41.2060	ug/l	99
56) 2-Chloroethylvinylether	5.064	63	28629	43.9875	ug/l	68
57) cis-1,3-Dichloropropene	5.148	75	134651	39.5111	ug/l	92
58) trans-1,3-Dichloropropene	5.425	75	81042	34.3791	ug/l	91
59) Ethyl methacrylate	5.461	41	53917m	36.2124	ug/l	
60) 1,1,2-Trichloroethane	5.521	97	53820	36.6793	ug/l	83
61) 1,2-Dibromoethane	5.798	107	46719	43.1713	ug/l	73
62) 1,3-Dichloropropane	5.605	76	107937	42.4322	ug/l	96
63) 4-Methyl-2-Pentanone	5.221	43	32961	26.4394	ug/l	90
64) 2-Hexanone	5.653	43	16453	24.7414	ug/l	91
65) Tetrachloroethene	5.617	164	97969	43.7043	ug/l	71
67) Toluene	5.329	92	256860	40.5381	ug/l	100

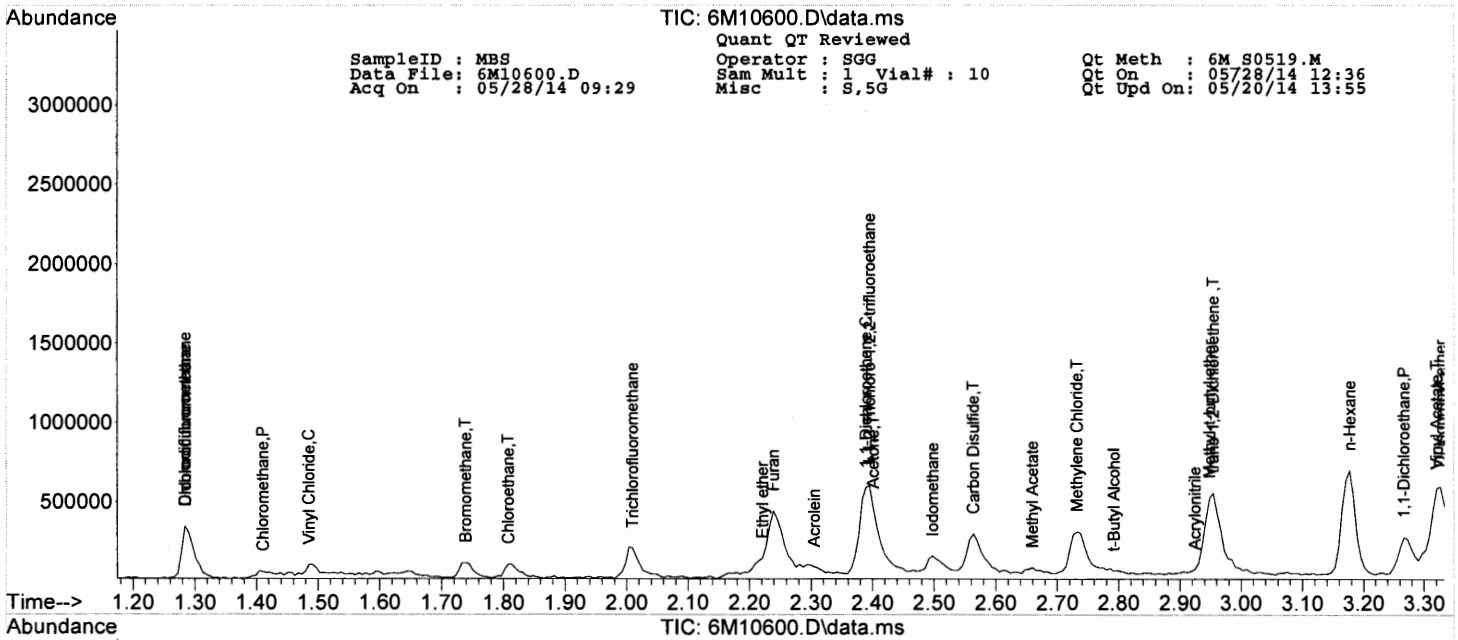
Quantitation Report (QT Reviewed)

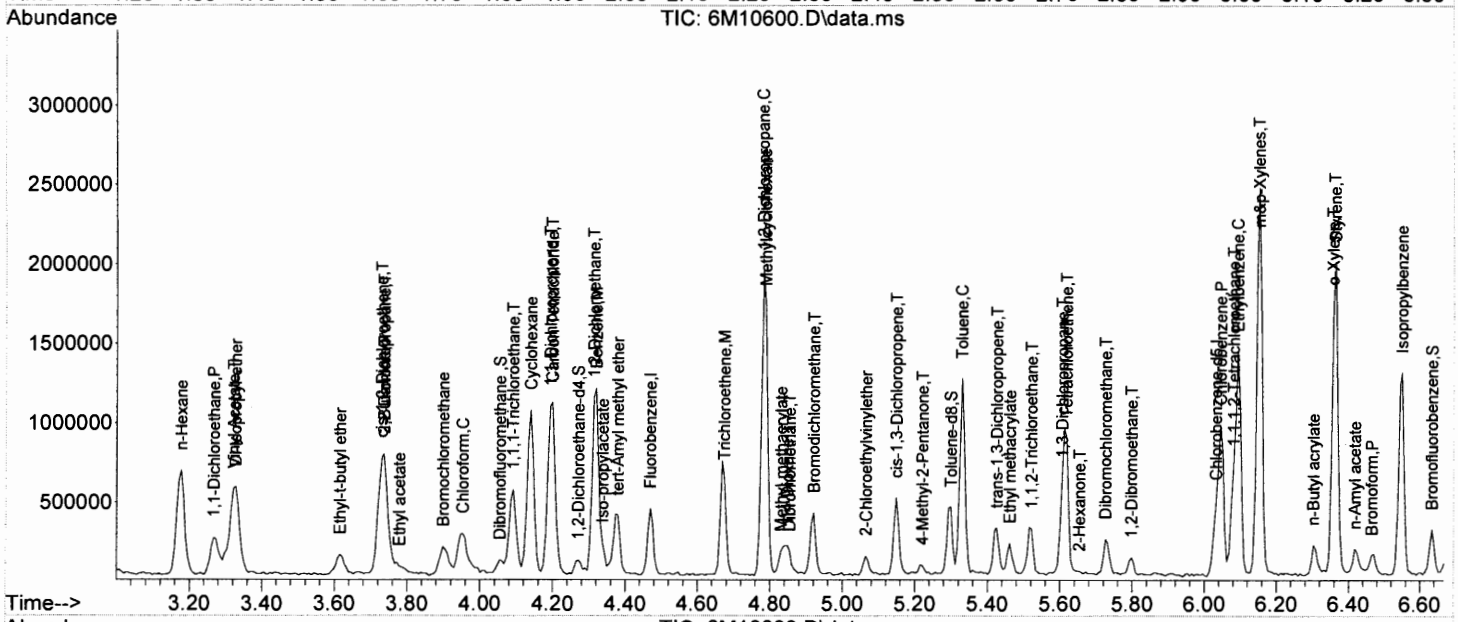
SampleID : MBS
Data File: 6M10600.D
Acq On : 05/28/14 09:29
Operator : SGG
Sam Mult : 1 Vial# : 10
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/28/14 12:36
Qt Upd On: 05/20/14 13:55

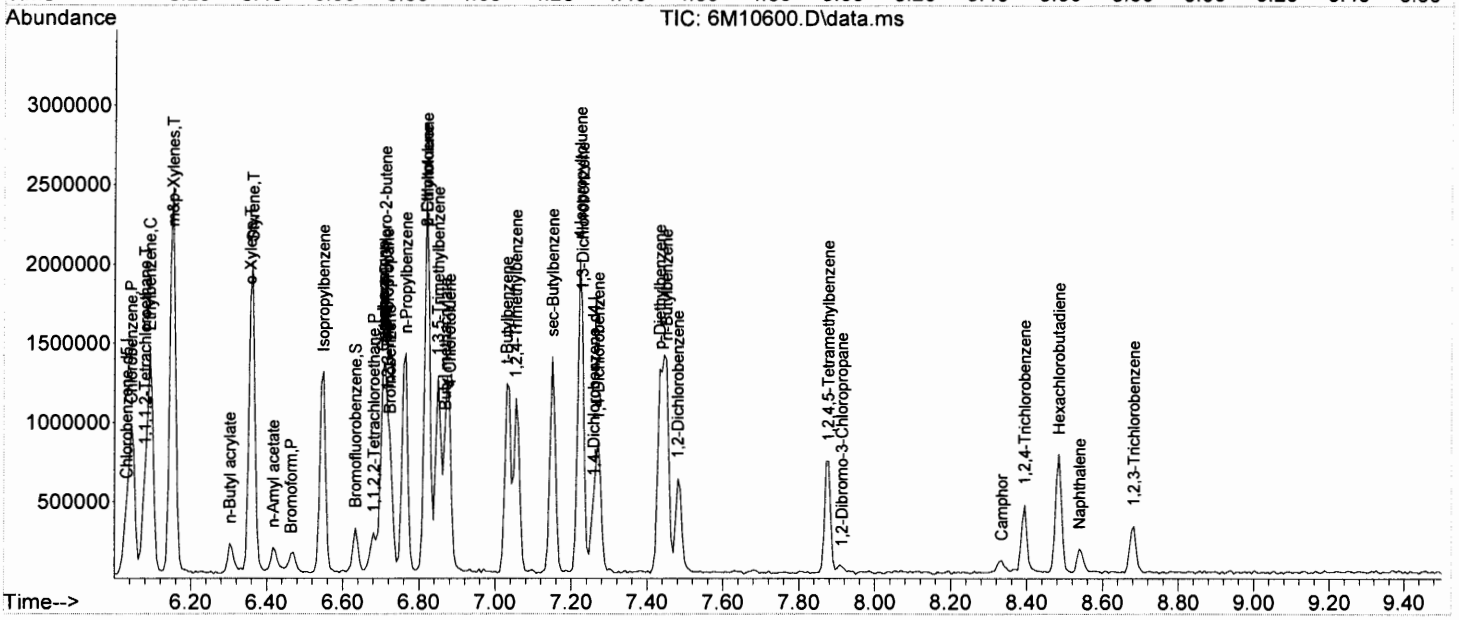
Data Path : G:\GcMsData\2014\GCMS_6\Data\05-28-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.080	133	71575	40.4822	ug/l	68
69)	Chlorobenzene	6.044	112	245747	44.7390	ug/l	99
71)	n-Butyl acrylate	6.303	55	82647	35.4136	ug/l	90
72)	n-Amyl acetate	6.417	43	75418	34.0962	ug/l	77
73)	Bromoform	6.465	173	35225	36.4121	ug/l	95
74)	Ethylbenzene	6.092	106	152384	47.9087	ug/l	90
75)	1,1,2,2-Tetrachloroethane	6.681	83	53809	34.0941	ug/l	96
77)	Styrene	6.363	104	226795	41.1055	ug/l	79
78)	m&p-Xylenes	6.152	106	345951	89.9489	ug/l	96
79)	o-Xylene	6.357	106	169754	49.5912	ug/l	78
80)	trans-1,4-Dichloro-2-b...	6.711	53	54185	41.8495	ug/l	37
81)	1,3-Dichlorobenzene	7.228	146	181824	45.6659	ug/l	93
82)	1,4-Dichlorobenzene	7.270	146	177870	43.1925	ug/l	92
83)	1,2-Dichlorobenzene	7.481	146	140758	41.5469	ug/l	93
84)	Isopropylbenzene	6.549	105	483545	43.5721	ug/l	95
85)	Cyclohexanone	6.705	55	25488	238.6906	ug/l	68
86)	Camphene	6.705	93	199626	47.1005	ug/l	94
87)	1,2,3-Trichloropropane	6.717	75	71708	40.4228	ug/l	82
88)	2-Chlorotoluene	6.819	91	391490	45.8342	ug/l	93
89)	p-Ethyltoluene	6.819	105	488539	46.5420	ug/l	80
90)	4-Chlorotoluene	6.880	91	315238	40.7699	ug/l	94
91)	n-Propylbenzene	6.765	91	684345	45.8836	ug/l	99
92)	Bromobenzene	6.723	77	237502	41.9813	ug/l	88
93)	1,3,5-Trimethylbenzene	6.850	105	384414	48.3238	ug/l	95
94)	Butyl methacrylate	6.868	41	137158m	40.0578	ug/l	
95)	t-Butylbenzene	7.030	119	345182	41.9419	ug/l	92
96)	1,2,4-Trimethylbenzene	7.054	105	361890	45.7811	ug/l	90
97)	sec-Butylbenzene	7.150	105	546207	45.7833	ug/l	92
98)	4-Isopropyltoluene	7.222	119	405065	44.5450	ug/l	96
99)	n-Butylbenzene	7.451	91	559101	45.2419	ug/l	89
100)	p-Diethylbenzene	7.433	119	231895	45.4871	ug/l	99
101)	1,2,4,5-Tetramethylben...	7.877	119	239662	41.2686	ug/l	96
102)	1,2-Dibromo-3-Chloropr...	7.913	157	6873	50.5915	ug/l	85
103)	Camphor	8.334	95	12398	236.5089	ug/l	92
104)	Hexachlorobutadiene	8.484	225	115536	50.7200	ug/l	98
105)	1,2,4-Trichlorobenzene	8.394	180	85821	42.7620	ug/l	93
106)	1,2,3-Trichlorobenzene	8.683	180	60379	39.6178	ug/l	97
107)	Naphthalene	8.539	128	69622	32.8023	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10600.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 6M10600.D
Acq On : 05/28/14 09:29
Operator : SGG
Sam Mult : 1 Vial# : 10
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/28/14 12:36
Qt Upd On: 05/20/14 13:55
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 6M10600.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Iso-propylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
o-Xylene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Time-->


Abundance
TIC: 6M10600.D\data.ms
m&p-Xylenes,T
o-Xylene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
n-Propylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data
QC Batch: MBS35857

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10621.D	MBS35857	5/28/2014 3:24:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	14.9991	0	50	30	20	130
1,1-Dichloroethene	1	36.1239	0	50	72	50	130
1,1-Dichloroethane	1	44.3168	0	50	89	50	130
Chloroform	1	46.9843	0	50	94	50	130
1,2-Dichloroethane	1	42.413	0	50	85	50	130
2-Butanone	1	46.2399	0	50	92	20	130
Carbon Tetrachloride	1	47.3569	0	50	95	50	130
Trichloroethene	1	42.4152	0	50	85	50	130
Benzene	1	49.5156	0	50	99	50	130
Tetrachloroethene	1	41.035	0	50	82	50	130
Toluene	1	39.4864	0	50	79	50	130
Chlorobenzene	1	40.4376	0	50	81	50	130
1,4-Dichlorobenzene	1	37.6703	0	50	75	50	130
1,2-Dichlorobenzene	1	38.9482	0	50	78	50	130
n-Propylbenzene	1	40.8219	0	50	82	50	130
sec-Butylbenzene	1	42.0168	0	50	84	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

4052101 0494

SampleID : MBS
Data File: 6M10621.D
Acq On : 05/28/14 15:24

Operator : SGG
Sam Mult : 1 Vial# : 30
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/28/14 15:38
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-28-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.470	96	178846	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.027	117	104678	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.259	152	52625	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.062	111	48057m	29.86	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.53%			
39) 1,2-Dichloroethane-d4	4.266	67	23025	29.60	ug/l	-0.02
Spiked Amount 30.000			Recovery = 98.67%			
66) Toluene-d8	5.294	98	150180	27.19	ug/l	-0.01
Spiked Amount 30.000			Recovery = 90.63%			
76) Bromofluorobenzene	6.634	174	42309	32.64	ug/l	-0.01
Spiked Amount 30.000			Recovery = 108.80%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.290	51	376915m	65.0483	ug/l	
6) Dichlorodifluoromethane	1.284	85	8889m	2.4628	ug/l	
7) Chloromethane	1.411	50	24564m	7.6414	ug/l	
8) Bromomethane	1.739	94	47901	21.7368	ug/l	80
9) Vinyl Chloride	1.492	62	35706	14.9991	ug/l	90
10) Chloroethane	1.820	64	70968	30.4036	ug/l	93
11) Trichlorofluoromethane	2.010	101	141350	33.4711	ug/l	73
12) Ethyl ether	2.216	59	45215m	38.1068	ug/l	
13) Furan	2.240	39	286497m	39.9549	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.391	101	118312	40.3789	ug/l	95
15) Methylene Chloride	2.733	84	102623	44.5964	ug/l	91
16) Acrolein	2.294	56	35176	207.2621	ug/l	83
17) Acrylonitrile	2.908	53	18613m	54.4235	ug/l	
18) Iodomethane	2.505	142	113481	40.4531	ug/l	84
19) Acetone	2.409	43	66199m	224.3113	ug/l	
20) Carbon Disulfide	2.565	76	281924	28.4778	ug/l	100
21) t-Butyl Alcohol	2.793	59	8768m	186.1491	ug/l	
22) n-Hexane	3.178	57	198141	34.7693	ug/l	87
23) Di-isopropyl-ether	3.328	45	428046	45.8870	ug/l	78
24) 1,1-Dichloroethene	2.391	61	190922	36.1239	ug/l	83
25) Methyl Acetate	2.655	43	47705	39.6291	ug/l	100
26) Methyl-t-butyl ether	2.950	73	88488	35.9199	ug/l	80
27) 1,1-Dichloroethane	3.268	63	238963m	44.3168	ug/l	
28) trans-1,2-Dichloroethene	2.950	96	120465	43.2612	ug/l	95
29) Ethyl-t-butyl ether	3.617	59	60392	35.8956	ug/l	95
30) cis-1,2-Dichloroethene	3.731	61	220700	46.0457	ug/l	81
31) Bromochloromethane	3.893	49	101316m	48.6405	ug/l	
32) 2,2-Dichloropropane	3.737	77	132412	40.3297	ug/l	96
33) Ethyl acetate	3.779	43	52770m	39.8733	ug/l	
34) 1,4-Dioxane	4.843	88	18094m	2090.4746	ug/l	
35) 1,1-Dichloropropene	4.194	75	201060	44.0926	ug/l	97
36) Chloroform	3.953	83	192977	46.9843	ug/l	79
38) Cyclohexane	4.140	56	272009	37.9390	ug/l	88
40) 1,2-Dichloroethane	4.314	62	104284	42.4130	ug/l	97
41) 2-Butanone	3.731	43	28796m	46.2399	ug/l	
42) 1,1,1-Trichloroethane	4.092	97	178006	45.6110	ug/l	91
43) Carbon Tetrachloride	4.200	117	152956	47.3569	ug/l	92
44) Vinyl Acetate	3.328	43	265613	40.0455	ug/l	100
45) Bromodichloromethane	4.915	83	144841	48.4180	ug/l	77
46) Methylcyclohexane	4.783	83	233332	42.9951	ug/l	95
47) Dibromomethane	4.843	174	39555	45.9307	ug/l	94
48) 1,2-Dichloropropane	4.783	63	130966	47.9797	ug/l	99
49) Trichloroethene	4.669	130	113622	42.4152	ug/l	90
50) Benzene	4.314	78	514380	49.5156	ug/l	100
51) tert-Amyl methyl ether	4.374	73	89800m	34.9636	ug/l	
53) Iso-propylacetate	4.338	43	74832	34.9125	ug/l	80
54) Methyl methacrylate	4.831	41	48399	34.8378	ug/l	94
55) Dibromochloromethane	5.727	129	62966	38.8781	ug/l	86
56) 2-Chloroethylvinylether	5.065	63	25530	39.3843	ug/l	74
57) cis-1,3-Dichloropropene	5.144	75	131711	38.6975	ug/l	88
58) trans-1,3-Dichloropropene	5.420	75	89314	37.9363	ug/l	96
59) Ethyl methacrylate	5.456	41	54426m	36.5958	ug/l	
60) 1,1,2-Trichloroethane	5.516	97	55693	38.0040	ug/l	83
61) 1,2-Dibromoethane	5.799	107	43163	39.9360	ug/l	94
62) 1,3-Dichloropropane	5.606	76	110975	43.6819	ug/l	82
63) 4-Methyl-2-Pentanone	5.216	43	42610	34.2227	ug/l	97
64) 2-Hexanone	5.642	43	22546m	33.9469	ug/l	
65) Tetrachloroethene	5.612	164	91892	41.0350	ug/l	90
67) Toluene	5.330	92	249910	39.4864	ug/l	92

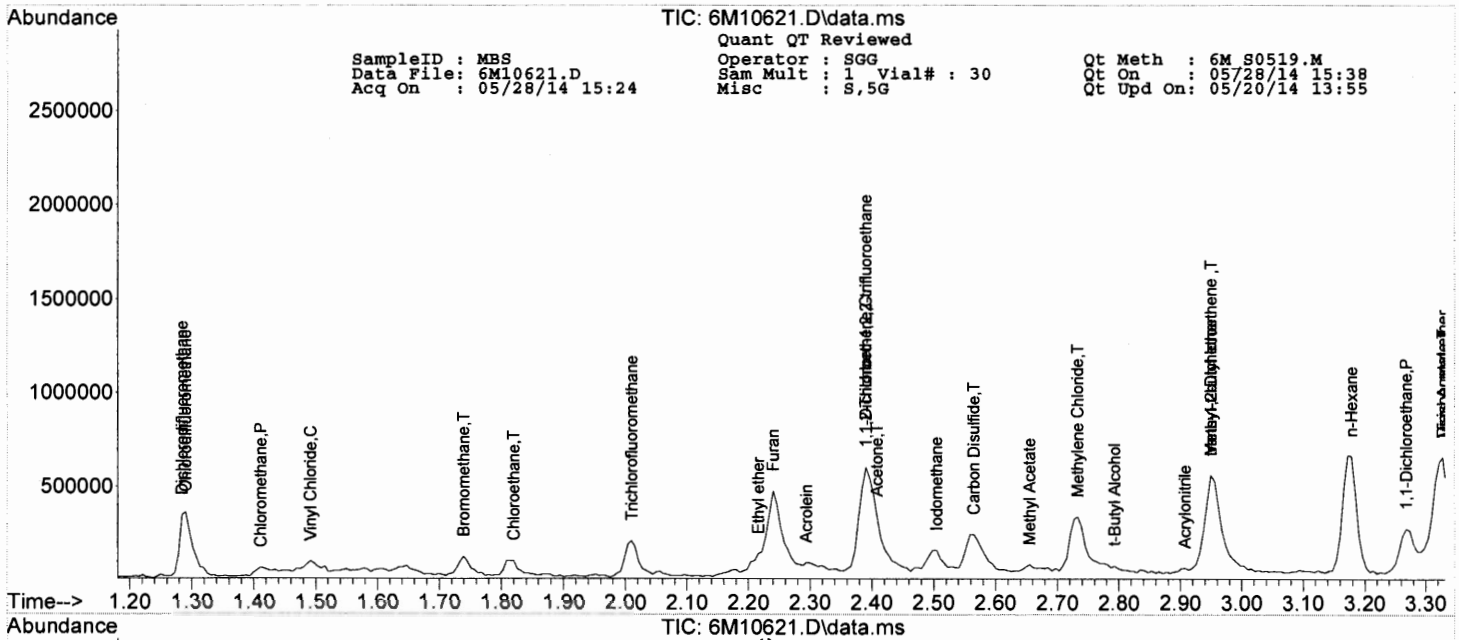
Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 6M10621.D
Acq On : 05/28/14 15:24
Operator : SGG
Sam Mult : 1 Vial# : 30
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/28/14 15:38
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-28-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.075	133	68795	38.9593	ug/l	73
69)	Chlorobenzene	6.045	112	221838	40.4376	ug/l	96
71)	n-Butyl acrylate	6.304	55	78604	37.1937	ug/l	94
72)	n-Amyl acetate	6.418	43	76487	38.0937	ug/l	75
73)	Bromoform	6.466	173	36202	41.4100	ug/l	89
74)	Ethylbenzene	6.093	106	115088	40.1267	ug/l	80
75)	1,1,2,2-Tetrachloroethane	6.682	83	63031	44.1932	ug/l	89
77)	Styrene	6.364	104	206120	41.3394	ug/l	98
78)	m&p-Xylenes	6.147	106	304406	87.5813	ug/l	99
79)	o-Xylene	6.358	106	145230	46.9739	ug/l	80
80)	trans-1,4-Dichloro-2-b...	6.706	53	50059	42.7829	ug/l	36
81)	1,3-Dichlorobenzene	7.223	146	143598	39.9086	ug/l	91
82)	1,4-Dichlorobenzene	7.271	146	140190	37.6703	ug/l	93
83)	1,2-Dichlorobenzene	7.482	146	119246	38.9482	ug/l	93
84)	Isopropylbenzene	6.544	105	410078	40.9012	ug/l	97
85)	Cyclohexanone	6.706	55	21694	224.8935	ug/l	73
86)	Camphene	6.706	93	163359	42.7237	ug/l	96
87)	1,2,3-Trichloropropane	6.712	75	66035	41.1918	ug/l	83
88)	2-Chlorotoluene	6.821	91	349392	45.2558	ug/l	95
89)	p-Ethyltoluene	6.821	105	414937	43.7378	ug/l	79
90)	4-Chlorotoluene	6.875	91	295424	42.2831	ug/l	96
91)	n-Propylbenzene	6.760	91	550699	40.8219	ug/l	93
92)	Bromobenzene	6.724	77	208326	40.7483	ug/l	87
93)	1,3,5-Trimethylbenzene	6.845	105	305672	42.5724	ug/l	91
94)	Butyl methacrylate	6.863	41	108930m	35.2543	ug/l	
95)	t-Butylbenzene	7.031	119	297712	40.0436	ug/l	90
96)	1,2,4-Trimethylbenzene	7.055	105	288816	40.4304	ug/l	90
97)	sec-Butylbenzene	7.151	105	452837	42.0168	ug/l	97
98)	4-Isopropyltoluene	7.223	119	324823	39.5114	ug/l	91
99)	n-Butylbenzene	7.446	91	455431	40.7728	ug/l	86
100)	p-Diethylbenzene	7.434	119	186364	40.5138	ug/l	94
101)	1,2,4,5-Tetramethylben...	7.872	119	158200	30.3228	ug/l	97
102)	1,2-Dibromo-3-Chloropr...	7.921	157	6744m	54.7359	ug/l	
103)	Camphor	8.335	95	15679	330.9719	ug/l	72
104)	Hexachlorobutadiene	8.486	225	86382	41.9626	ug/l	97
105)	1,2,4-Trichlorobenzene	8.389	180	60752	33.4967	ug/l	97
106)	1,2,3-Trichlorobenzene	8.684	180	47316	34.3762	ug/l	92
107)	Naphthalene	8.540	128	54408	28.3660	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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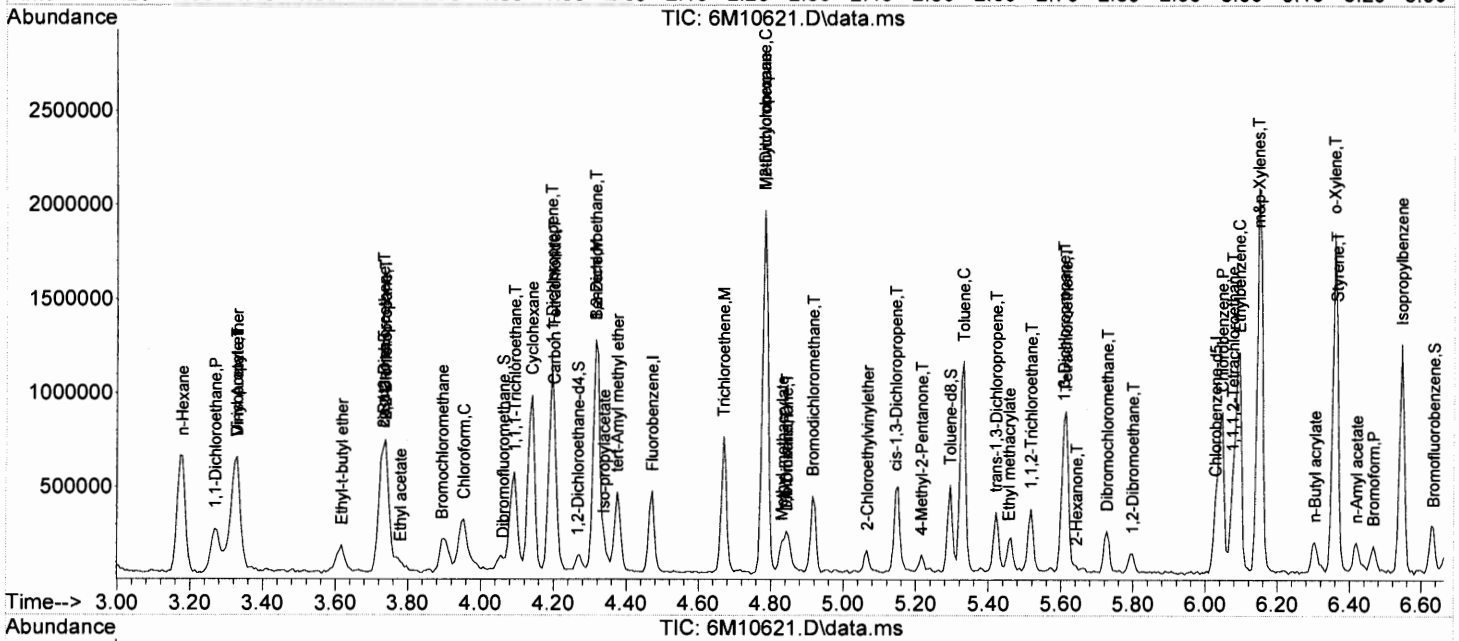
Quant QT Reviewed
SampleID : MBS
Data File: 6M10621.D
Acq On : 05/28/14 15:24
Operator : SGG
Sam Mult : 1 Vial# : 30
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/28/14 15:38
Qt Upd On: 05/20/14 13:55
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,I
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
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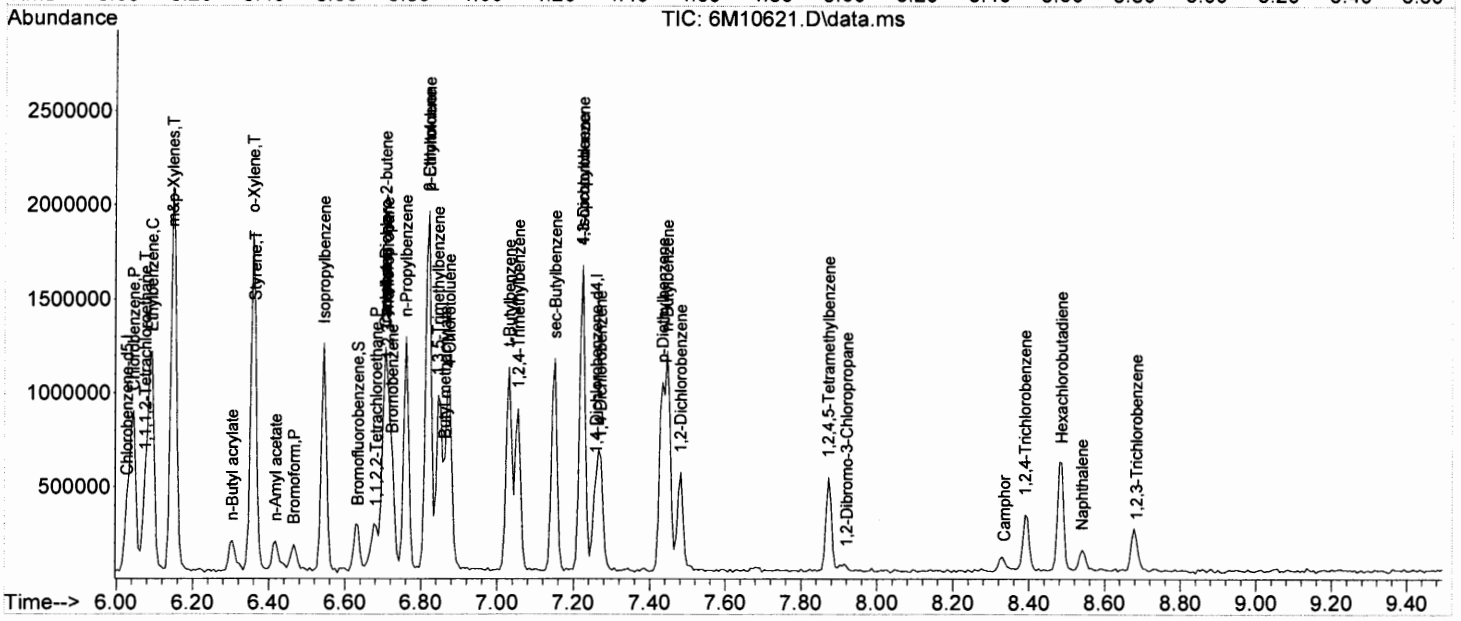
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,C
m&p-Xylenes,T
o-Xylene,T
Styrene,T
Isopropylbenzene
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Bromofluorobenzene,S
Time-->


Abundance
TIC: 6M10621.D\data.ms
Chlorobenzene-d5,I
Ethylbenzene,C
m&p-Xylenes,T
o-Xylene,T
Styrene,T
Isopropylbenzene
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Bromofluorobenzene,S
n-Propylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data
QC Batch: MBS35858

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10650.D	MBS35858	5/29/2014 7:58:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	41.531	0	50	83	20	130
1,1-Dichloroethene	1	47.0913	0	50	94	50	130
1,1-Dichloroethane	1	41.079	0	50	82	50	130
Chloroform	1	43.4611	0	50	87	50	130
1,2-Dichloroethane	1	38.3344	0	50	77	50	130
2-Butanone	1	46.3366	0	50	93	20	130
Carbon Tetrachloride	1	45.8348	0	50	92	50	130
Trichloroethene	1	37.6356	0	50	75	50	130
Benzene	1	45.171	0	50	90	50	130
Tetrachloroethene	1	39.454	0	50	79	50	130
Toluene	1	37.9987	0	50	76	50	130
Chlorobenzene	1	36.1451	0	50	72	50	130
1,4-Dichlorobenzene	1	35.6815	0	50	71	50	130
1,2-Dichlorobenzene	1	35.1457	0	50	70	50	130
n-Propylbenzene	1	40.1447	0	50	80	50	130
sec-Butylbenzene	1	42.1786	0	50	84	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

4052101 0498

SampleID : MBS
Data File: 6M10650.D
Acq On : 05/29/14 07:58

Operator : SGG
Sam Mult : 1 Vial# : 7
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/29/14 08:10
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.463	96	164813	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.026	117	95558	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.252	152	49360	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.042	111	46077	31.07	ug/l	-0.03
Spiked Amount 30.000			Recovery = 103.57%			
39) 1,2-Dichloroethane-d4	4.259	67	19647	27.41	ug/l	-0.02
Spiked Amount 30.000			Recovery = 91.37%			
66) Toluene-d8	5.287	98	158215	31.37	ug/l	-0.02
Spiked Amount 30.000			Recovery = 104.57%			
76) Bromofluorobenzene	6.627	174	38796	31.91	ug/l	-0.02
Spiked Amount 30.000			Recovery = 106.37%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.284	51	389285m	72.7439	ug/l	
6) Dichlorodifluoromethane	1.278	85	55637	16.6534	ug/l	91
7) Chloromethane	1.399	50	98738	33.3308	ug/l	70
8) Bromomethane	1.733	94	68048	33.5084	ug/l	59
9) Vinyl Chloride	1.486	62	92177	41.5310	ug/l	96
10) Chloroethane	1.808	64	95105	44.2133	ug/l	95
11) Trichlorofluoromethane	1.998	101	172895	44.1838	ug/l	77
12) Ethyl ether	2.203	59	40478m	37.0192	ug/l	
13) Furan	2.233	39	301302m	45.5149	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.383	101	118737	43.9744	ug/l	94
15) Methylene Chloride	2.720	84	93866	44.2640	ug/l	83
16) Acrolein	2.293	56	25967	166.3801	ug/l	80
17) Acrylonitrile	2.906	53	11288m	35.8158	ug/l	
18) Iodomethane	2.492	142	109777	42.4647	ug/l	99
19) Acetone	2.395	43	56072	206.1461	ug/l	88
20) Carbon Disulfide	2.558	76	412449	45.2099	ug/l	100
21) t-Butyl Alcohol	2.780	59	5512	126.9865	ug/l	99
22) n-Hexane	3.165	57	218761	41.5854	ug/l	93
23) Di-isopropyl-ether	3.315	45	317676	36.9548	ug/l	81
24) 1,1-Dichloroethene	2.383	61	229772	47.0913	ug/l	94
25) Methyl Acetate	2.648	43	38227	34.5102	ug/l	100
26) Methyl-t-butyl ether	2.936	73	78562	34.6059	ug/l	87
27) 1,1-Dichloroethane	3.261	63	204124	41.0790	ug/l	94
28) trans-1,2-Dichloroethene	2.948	96	110445	43.0400	ug/l	89
29) Ethyl-t-butyl ether	3.610	59	134664	85.3249	ug/l	94
30) cis-1,2-Dichloroethene	3.724	61	185369	41.9674	ug/l	83
31) Bromochloromethane	3.892	49	81986	42.7118	ug/l	63
32) 2,2-Dichloropropane	3.724	77	121994	40.3205	ug/l	97
33) Ethyl acetate	3.766	43	35273	28.9218	ug/l	79
34) 1,4-Dioxane	4.842	88	13189	1653.5218	ug/l	84
35) 1,1-Dichloropropene	4.187	75	175157	41.6829	ug/l	96
36) Chloroform	3.946	83	164500	43.4611	ug/l	93
38) Cyclohexane	4.133	56	271069	41.0279	ug/l	83
40) 1,2-Dichloroethane	4.307	62	86860	38.3344	ug/l	98
41) 2-Butanone	3.724	43	26592	46.3366	ug/l	89
42) 1,1,1-Trichloroethane	4.084	97	146540	40.7454	ug/l	98
43) Carbon Tetrachloride	4.193	117	136424	45.8348	ug/l	96
44) Vinyl Acetate	3.321	43	228412	37.3689	ug/l	100
45) Bromodichloromethane	4.914	83	105219	38.1678	ug/l	96
46) Methylcyclohexane	4.776	83	203984	40.7762	ug/l	91
47) Dibromomethane	4.836	174	26028	32.7967	ug/l	76
48) 1,2-Dichloropropane	4.776	63	105044	41.7598	ug/l	82
49) Trichloroethene	4.668	130	92865	37.6356	ug/l	97
50) Benzene	4.307	78	432428	45.1710	ug/l	100
51) tert-Amyl methyl ether	4.373	73	73094m	30.8823	ug/l	
53) Iso-propylacetate	4.331	43	57158	29.2744	ug/l	70
54) Methyl methacrylate	4.824	41	43099	33.9836	ug/l	89
55) Dibromochloromethane	5.719	129	48653	32.9076	ug/l	99
56) 2-Chloroethylvinylether	5.058	63	18255	31.0049	ug/l	67
57) cis-1,3-Dichloropropene	5.142	75	116333	37.4415	ug/l	72
58) trans-1,3-Dichloropropene	5.413	75	60105	27.9662	ug/l	94
59) Ethyl methacrylate	5.455	41	46790m	34.4896	ug/l	
60) 1,1,2-Trichloroethane	5.509	97	47571	35.5598	ug/l	85
61) 1,2-Dibromoethane	5.792	107	34042	34.5030	ug/l	80
62) 1,3-Dichloropropane	5.599	76	87141	37.5740	ug/l	98
63) 4-Methyl-2-Pentanone	5.214	43	35685	31.3962	ug/l	93
64) 2-Hexanone	5.641	43	15491	25.5504	ug/l	76
65) Tetrachloroethene	5.605	164	80666	39.4540	ug/l	70
67) Toluene	5.323	92	219580	37.9987	ug/l	93

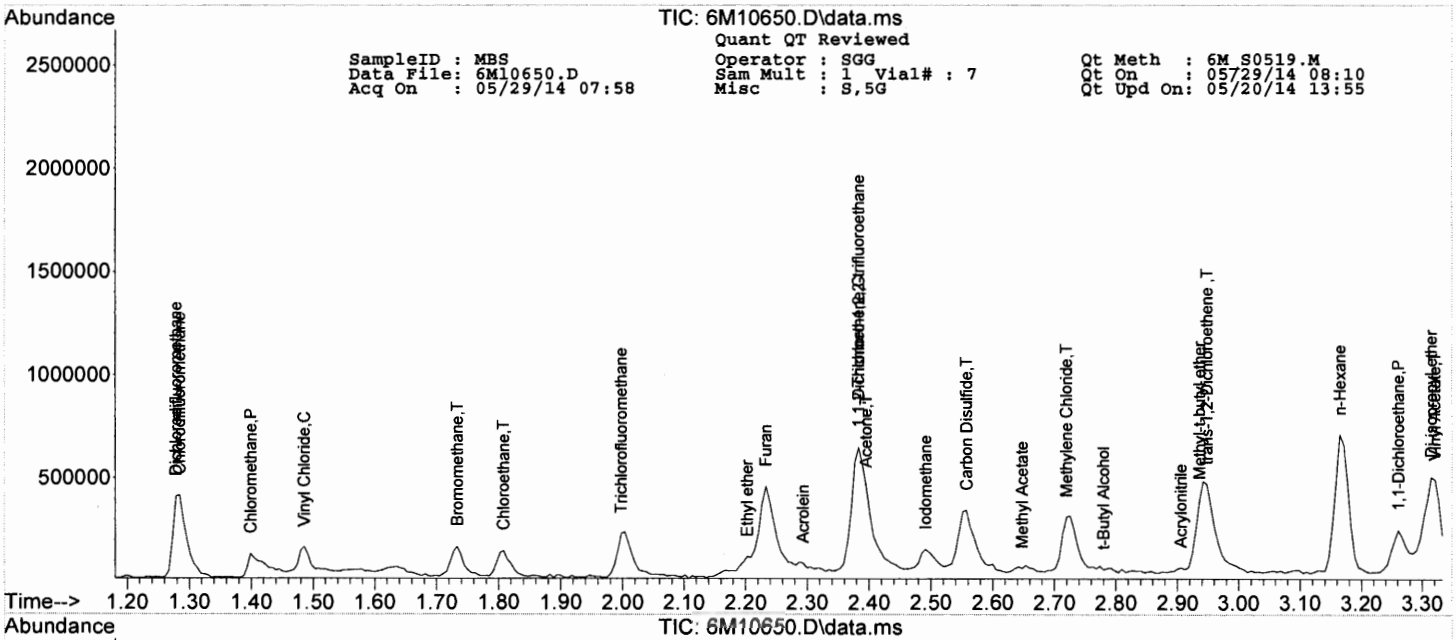
Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 6M10650.D
Acq On : 05/29/14 07:58
Operator : SGG
Sam Mult : 1 Vial# : 7
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/29/14 08:10
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.074	133	64214	39.8357	ug/l	88
69)	Chlorobenzene	6.038	112	181014	36.1451	ug/l	96
71)	n-Butyl acrylate	6.302	55	56129	28.6001	ug/l	93
72)	n-Amyl acetate	6.411	43	60411	32.2867	ug/l	84
73)	Bromoform	6.459	173	29031	35.4039	ug/l	83
74)	Ethylbenzene	6.086	106	129120	47.8921	ug/l	72
75)	1,1,2,2-Tetrachloroethane	6.675	83	42043	31.4277	ug/l	91
77)	Styrene	6.357	104	182780	39.0831	ug/l	91
78)	m&p-Xylenes	6.146	106	275263	84.4351	ug/l	94
79)	o-Xylene	6.351	106	120382	41.5597	ug/l	82
80)	trans-1,4-Dichloro-2-b...	6.699	53	43175	39.3403	ug/l	31
81)	1,3-Dichlorobenzene	7.222	146	118484	35.1071	ug/l	94
82)	1,4-Dichlorobenzene	7.264	146	124550	35.6815	ug/l	97
83)	1,2-Dichlorobenzene	7.475	146	100928	35.1457	ug/l	91
84)	Isopropylbenzene	6.537	105	364456	38.7639	ug/l	94
85)	Cyclohexanone	6.699	55	20370	225.1347	ug/l	72
86)	Camphene	6.699	93	153759	42.8704	ug/l	95
87)	1,2,3-Trichloropropane	6.711	75	52633	35.0035	ug/l	75
88)	2-Chlorotoluene	6.813	91	320896	44.2999	ug/l	92
89)	p-Ethyltoluene	6.813	105	344946	38.7578	ug/l	78
90)	4-Chlorotoluene	6.867	91	267456	40.8083	ug/l	98
91)	n-Propylbenzene	6.753	91	508023	40.1447	ug/l	96
92)	Bromobenzene	6.717	77	194137	40.4847	ug/l	81
93)	1,3,5-Trimethylbenzene	6.843	105	293913	43.6324	ug/l	94
94)	Butyl methacrylate	6.861	41	104088m	35.9085	ug/l	
95)	t-Butylbenzene	7.030	119	262142	37.6093	ug/l	92
96)	1,2,4-Trimethylbenzene	7.048	105	245412	36.6269	ug/l	88
97)	sec-Butylbenzene	7.144	105	426384	42.1786	ug/l	93
98)	4-Isopropyltoluene	7.216	119	288998	37.4728	ug/l	98
99)	n-Butylbenzene	7.444	91	414021	39.5153	ug/l	88
100)	p-Diethylbenzene	7.426	119	177716	41.1808	ug/l	91
101)	1,2,4,5-Tetramethylben...	7.865	119	132779	27.1800	ug/l	83
102)	1,2-Dibromo-3-Chloropr...	7.901	157	4951	43.2690	ug/l	85
103)	Camphor	8.316	95	9850	221.6797	ug/l	95
104)	Hexachlorobutadiene	8.478	225	72551	37.5751	ug/l	95
105)	1,2,4-Trichlorobenzene	8.388	180	55466	32.6051	ug/l	91
106)	1,2,3-Trichlorobenzene	8.677	180	38892	30.1400	ug/l	97
107)	Naphthalene	8.532	128	40044	22.2581	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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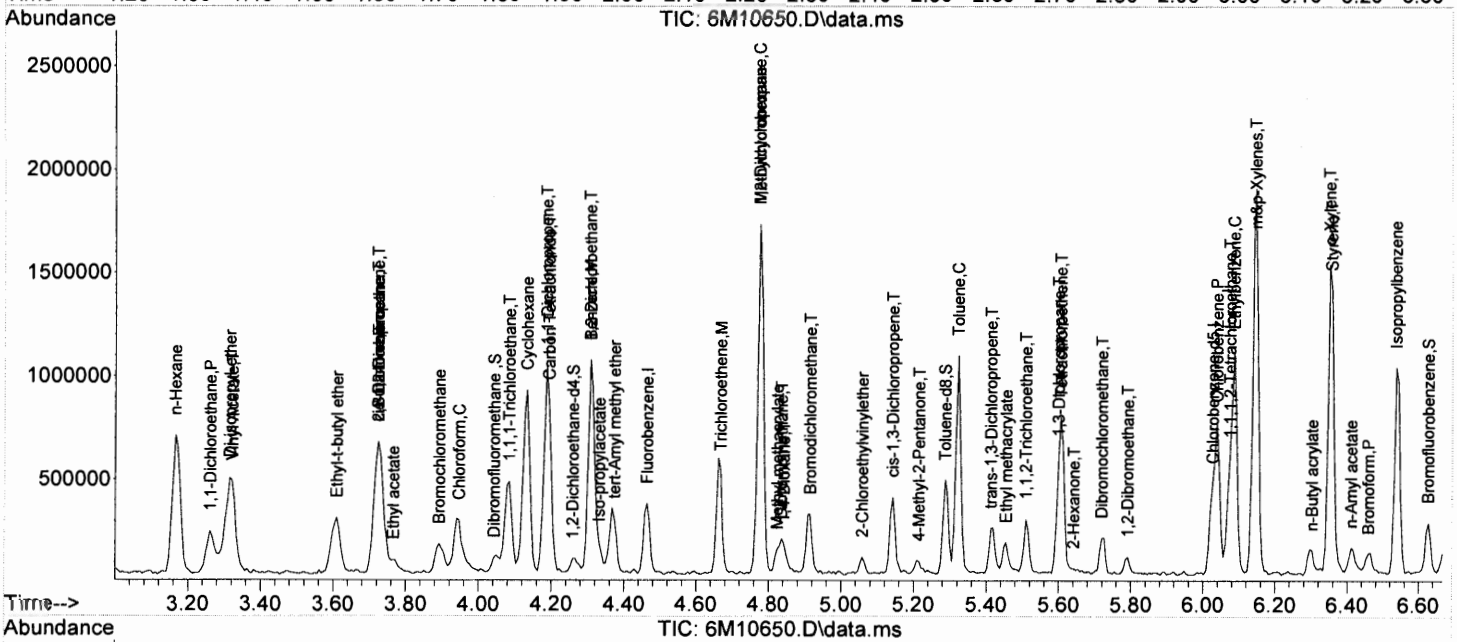
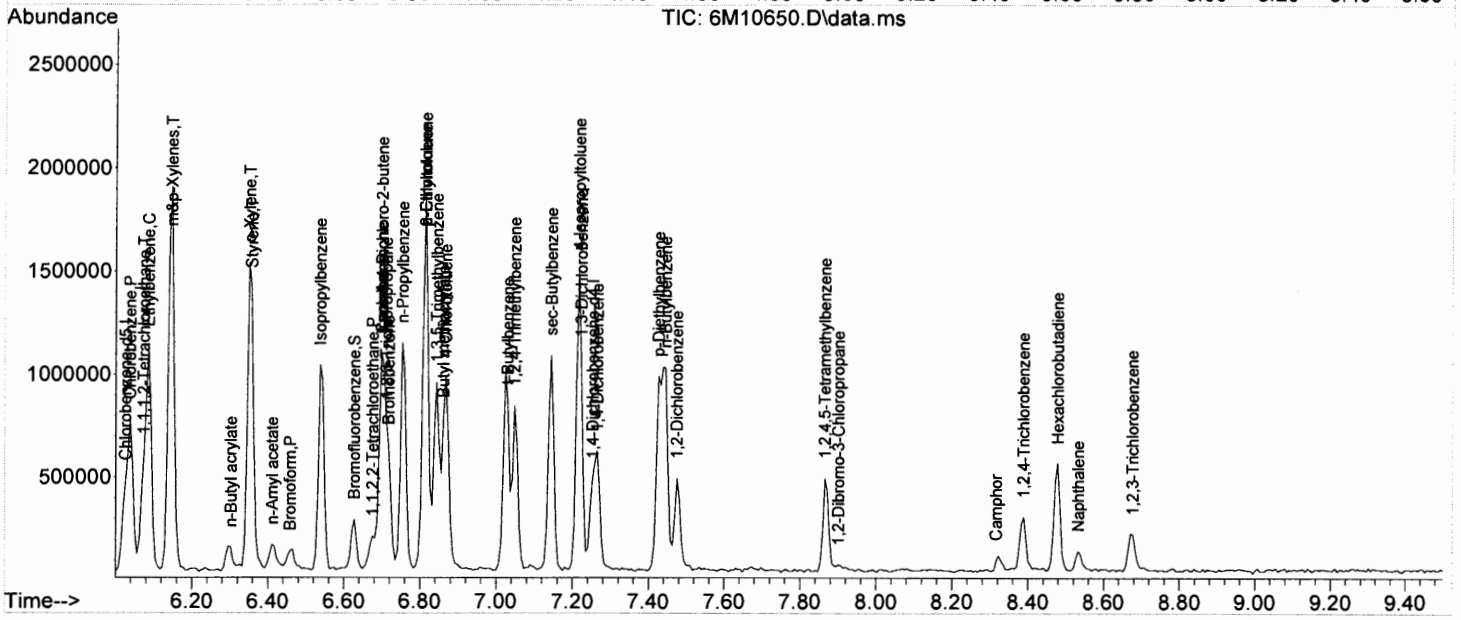
Quant QT Reviewed
SampleID : MBS
Data File: 6M10650.D
Acq On : 05/29/14 07:58
Operator : SGG
Sam Mult : 1 Vial# : 7
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/29/14 08:10
Qt Upd On: 05/20/14 13:55
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 6M10650.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Iso-propylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Time-->


Abundance
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m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
n-Propylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data
QC Batch: MBS35871

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10672.D	MBS35871	5/29/2014 2:08:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	52.8729	0	50	106	20	130
1,1-Dichloroethene	1	52.2805	0	50	105	50	130
1,1-Dichloroethane	1	46.8778	0	50	94	50	130
Chloroform	1	48.1179	0	50	96	50	130
1,2-Dichloroethane	1	43.1288	0	50	86	50	130
2-Butanone	1	43.4281	0	50	87	20	130
Carbon Tetrachloride	1	53.4205	0	50	107	50	130
Trichloroethene	1	43.5283	0	50	87	50	130
Benzene	1	52.6161	0	50	105	50	130
Tetrachloroethene	1	46.2877	0	50	93	50	130
Toluene	1	44.6969	0	50	89	50	130
Chlorobenzene	1	44.4213	0	50	89	50	130
1,4-Dichlorobenzene	1	39.1156	0	50	78	50	130
1,2-Dichlorobenzene	1	38.9052	0	50	78	50	130
n-Propylbenzene	1	41.8816	0	50	84	50	130
sec-Butylbenzene	1	43.6944	0	50	87	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

4052101 0502

SampleID : MBS
Data File: 6M10672.D
Acq On : 05/29/14 14:08

Operator : SGG
Sam Mult : 1 Vial# : 28
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/29/14 15:10
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.463	96	164966	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.025	117	90765	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.252	152	52653	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.048	111	41730	28.11	ug/l	-0.02
Spiked Amount 30.000			Recovery = 93.70%			
39) 1,2-Dichloroethane-d4	4.264	67	21024	29.30	ug/l	-0.02
Spiked Amount 30.000			Recovery = 97.67%			
66) Toluene-d8	5.292	98	155954	32.56	ug/l	-0.01
Spiked Amount 30.000			Recovery = 108.53%			
76) Bromofluorobenzene	6.626	174	34816m	26.85	ug/l	-0.02
Spiked Amount 30.000			Recovery = 89.50%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.286	51	340323	63.6994	ug/l	38
6) Dichlorodifluoromethane	1.280	85	128585	38.1961	ug/l	97
7) Chloromethane	1.406	50	148473	50.0732	ug/l	81
8) Bromomethane	1.735	94	96845	47.6445	ug/l	91
9) Vinyl Chloride	1.487	62	118041	52.8729	ug/l	81
10) Chloroethane	1.810	64	117105	54.3904	ug/l	83
11) Trichlorofluoromethane	2.005	101	205765	52.3179	ug/l	73
12) Ethyl ether	2.208	59	49550m	45.2740	ug/l	
13) Furan	2.232	39	352417m	53.0568	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.383	101	152024	56.2500	ug/l	85
15) Methylene Chloride	2.725	84	106322	50.0914	ug/l	88
16) Acrolein	2.293	56	36405	232.2516	ug/l	95
17) Acrylonitrile	2.900	53	19246m	61.0092	ug/l	
18) Iodomethane	2.491	142	132358	51.1522	ug/l	94
19) Acetone	2.401	43	60944	223.8794	ug/l	98
20) Carbon Disulfide	2.557	76	499085	54.6556	ug/l	100
21) t-Butyl Alcohol	2.785	59	6240m	143.6249	ug/l	
22) n-Hexane	3.170	57	266469	50.4956	ug/l	87
23) Di-isopropyl-ether	3.320	45	402653	46.7967	ug/l	83
24) 1,1-Dichloroethene	2.383	61	255546	52.2805	ug/l	97
25) Methyl Acetate	2.653	43	46681	42.0125	ug/l	100
26) Methyl-t-butyl ether	2.948	73	95929	42.2168	ug/l	80
27) 1,1-Dichloroethane	3.260	63	233155	46.8778	ug/l	97
28) trans-1,2-Dichloroethene	2.942	96	115214	44.8568	ug/l	92
29) Ethyl-t-butyl ether	3.609	59	151844	95.7645	ug/l	95
30) cis-1,2-Dichloroethene	3.723	61	227588	51.4779	ug/l	81
31) Bromochloromethane	3.891	49	98186	51.1040	ug/l	58
32) 2,2-Dichloropropane	3.729	77	132739	43.7777	ug/l	97
33) Ethyl acetate	3.765	43	53775	44.0515	ug/l	91
34) 1,4-Dioxane	4.841	88	19034	2384.1038	ug/l	99
35) 1,1-Dichloropropene	4.186	75	209771	49.8726	ug/l	91
36) Chloroform	3.940	83	182295	48.1179	ug/l	83
38) Cyclohexane	4.132	56	310893	47.0138	ug/l	87
40) 1,2-Dichloroethane	4.306	62	97814	43.1288	ug/l	91
41) 2-Butanone	3.735	43	24946	43.4281	ug/l	88
42) 1,1,1-Trichloroethane	4.084	97	169400	47.0580	ug/l	92
43) Carbon Tetrachloride	4.192	117	159150	53.4205	ug/l	76
44) Vinyl Acetate	3.320	43	264163	43.1778	ug/l	100
45) Bromodichloromethane	4.913	83	131090	47.5083	ug/l	89
46) Methylcyclohexane	4.781	83	247525	49.4885	ug/l	85
47) Dibromomethane	4.841	174	33317	41.9424	ug/l	83
48) 1,2-Dichloropropane	4.775	63	131082	52.0627	ug/l	93
49) Trichloroethene	4.667	130	107566	43.5283	ug/l	84
50) Benzene	4.312	78	504169	52.6161	ug/l	100
51) tert-Amyl methyl ether	4.372	73	83781m	35.3647	ug/l	
53) Iso-propylacetate	4.330	43	73770	39.6219	ug/l	64
54) Methyl methacrylate	4.829	41	50490	41.9137	ug/l	81
55) Dibromochloromethane	5.725	129	54283	38.6545	ug/l	99
56) 2-Chloroethylvinylether	5.064	63	23037	40.9475	ug/l	67
57) cis-1,3-Dichloropropene	5.142	75	120528	40.8401	ug/l	93
58) trans-1,3-Dichloropropene	5.418	75	78496	38.4521	ug/l	99
59) Ethyl methacrylate	5.460	41	51300m	39.7374	ug/l	
60) 1,1,2-Trichloroethane	5.514	97	49395	38.8730	ug/l	89
61) 1,2-Dibromoethane	5.791	107	43199	46.0960	ug/l	99
62) 1,3-Dichloropropane	5.605	76	99685	45.2526	ug/l	100
63) 4-Methyl-2-Pentanone	5.214	43	36730	34.0220	ug/l	86
64) 2-Hexanone	5.635	43	15737m	27.3268	ug/l	
65) Tetrachloroethene	5.611	164	89833	46.2877	ug/l	95
67) Toluene	5.322	92	245136	44.6969	ug/l	96

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 6M10672.D
Acq On : 05/29/14 14:08

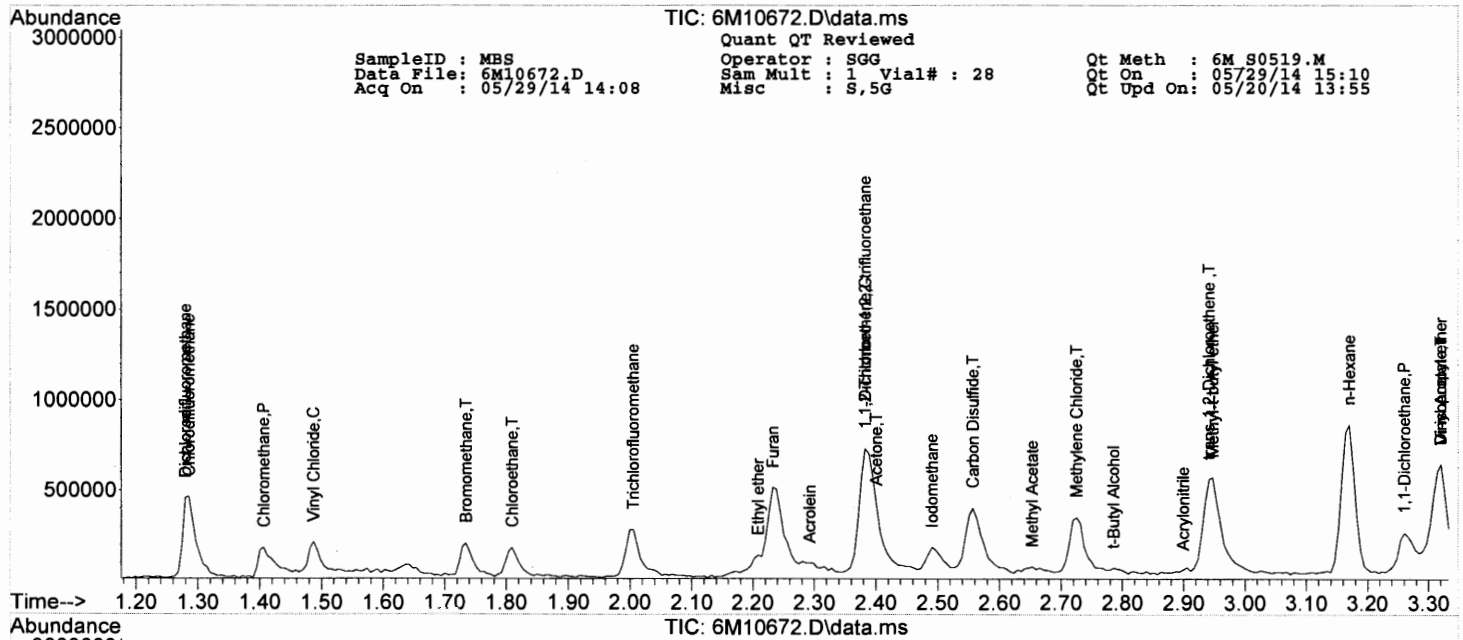
Operator : SGG
Sam Mult : 1 Vial# : 28
Misc : S,5G

Qt Meth : 6M_S0519.M
Qt On : 05/29/14 15:10
Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.073	133	63149	41.2437	ug/l	82
69)	Chlorobenzene	6.043	112	211303	44.4213	ug/l	96
71)	n-Butyl acrylate	6.302	55	75091	35.5790	ug/l	98
72)	n-Amyl acetate	6.416	43	66603	33.3307	ug/l	78
73)	Bromoform	6.458	173	31308	35.7929	ug/l	94
74)	Ethylbenzene	6.085	106	118179	41.1704	ug/l	99
75)	1,1,2,2-Tetrachloroethane	6.674	83	57089	40.0058	ug/l	75
77)	Styrene	6.356	104	192614	38.6101	ug/l	90
78)	m&p-Xylenes	6.146	106	308478	88.7057	ug/l	96
79)	o-Xylene	6.356	106	139216	45.0232	ug/l	80
80)	trans-1,4-Dichloro-2-b...	6.699	53	55603	47.4958	ug/l	27
81)	1,3-Dichlorobenzene	7.221	146	145396	40.3868	ug/l	92
82)	1,4-Dichlorobenzene	7.264	146	145646	39.1156	ug/l	95
83)	1,2-Dichlorobenzene	7.474	146	119178	38.9052	ug/l	93
84)	Isopropylbenzene	6.542	105	430084	42.8650	ug/l	96
85)	Cyclohexanone	6.699	55	25378	262.6779	ug/l	66
86)	Camphene	6.699	93	179454	46.8331	ug/l	87
87)	1,2,3-Trichloropropane	6.711	75	63268	39.4448	ug/l	77
88)	2-Chlorotoluene	6.813	91	345216	44.6825	ug/l	93
89)	p-Ethyltoluene	6.813	105	405298	42.6973	ug/l	80
90)	4-Chlorotoluene	6.867	91	313928	44.9153	ug/l	94
91)	n-Propylbenzene	6.759	91	565192	41.8816	ug/l	99
92)	Bromobenzene	6.717	77	212002	41.4452	ug/l	88
93)	1,3,5-Trimethylbenzene	6.843	105	327912	45.6159	ug/l	95
94)	Butyl methacrylate	6.861	41	123253m	39.8145	ug/l	
95)	t-Butylbenzene	7.029	119	313215	42.0898	ug/l	92
96)	1,2,4-Trimethylbenzene	7.053	105	280895	39.3007	ug/l	87
97)	sec-Butylbenzene	7.143	105	471242	43.6944	ug/l	93
98)	4-Isopropyltoluene	7.215	119	326549	39.7009	ug/l	95
99)	n-Butylbenzene	7.444	91	464655	41.5778	ug/l	90
100)	p-Diethylbenzene	7.426	119	179986	39.1233	ug/l	96
101)	1,2,4,5-Tetramethylben...	7.871	119	180032	34.4129	ug/l	96
102)	1,2-Dibromo-3-Chloropr...	7.901	157	4236	34.9578	ug/l	80
103)	Camphor	8.315	95	12425	262.1430	ug/l	95
104)	Hexachlorobutadiene	8.478	225	89591	43.4983	ug/l	95
105)	1,2,4-Trichlorobenzene	8.388	180	62740	34.5745	ug/l	93
106)	1,2,3-Trichlorobenzene	8.676	180	49945	36.2589	ug/l	96
107)	Naphthalene	8.538	128	61689m	32.1448	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed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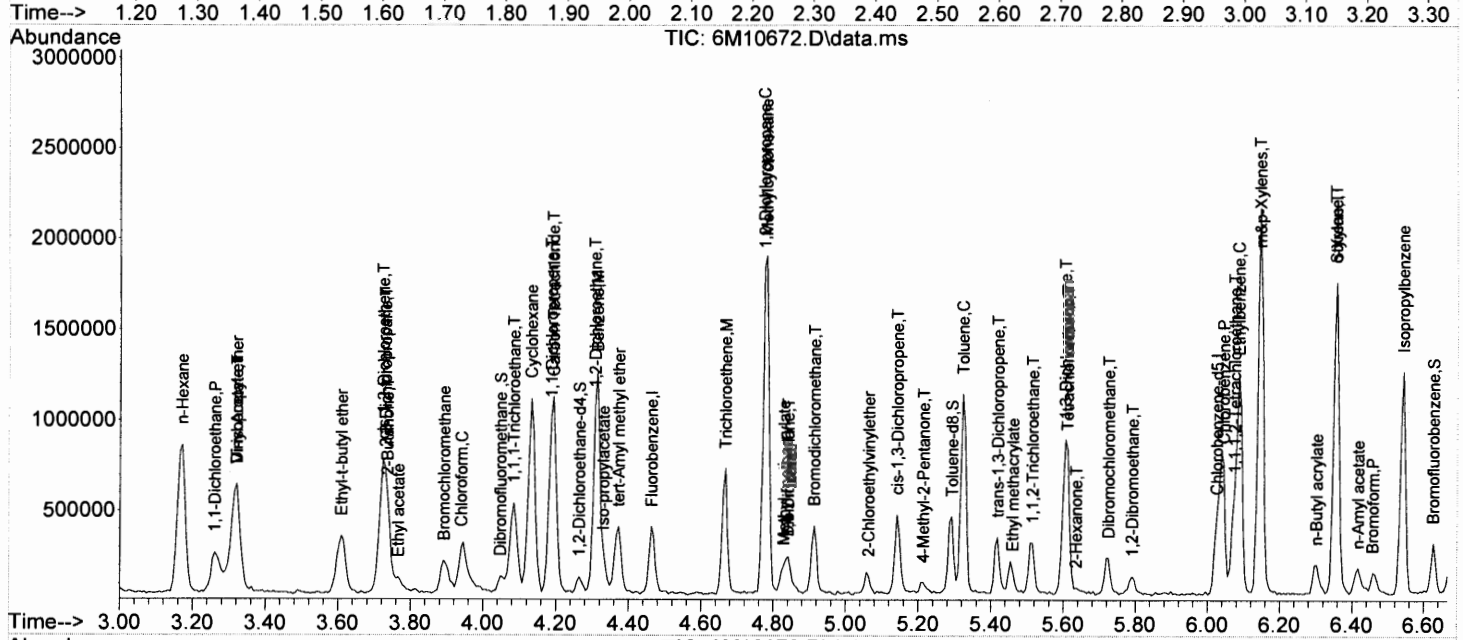
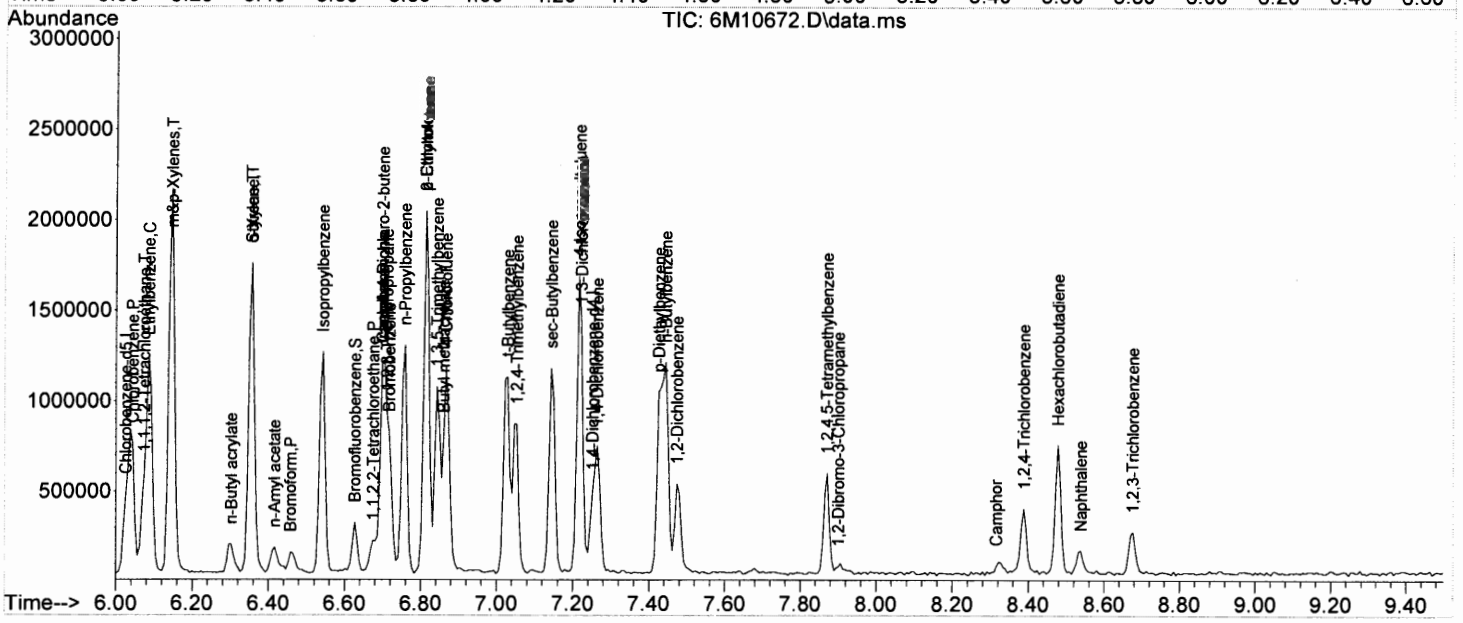
Quant QT Reviewed
SampleID : MBS
Data File: 6M10672.D
Acq On : 05/29/14 14:08
Operator : SGG
Sam Mult : 1 Vial# : 28
Misc : S,5G
Qt Meth : 6M_S0519.M
Qt On : 05/29/14 15:10
Qt Upd On: 05/20/14 13:55
Abundance
Time-->
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P


TIC: 6M10672.D\data.ms
Abundance
Time-->
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Isopropylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S


TIC: 6M10672.D\data.ms
Abundance
Time-->
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
n-Propylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2-Dibromo-3-Chloropropane
1,2,4,5-Tetramethylbenzene
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Form3
Recovery Data
QC Batch: MBS35814

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51220.D	AC78747-001(T:MS)	5/22/2014 6:56:00 PM
Non Spike(If applicable):	3M51200.D	AC78747-001(T)	5/22/2014 1:29:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	17.7584	0	20	89	20	130
1,1-Dichloroethene	1	20.7265	0	20	104	50	130
1,1-Dichloroethane	1	18.3589	0	20	92	50	130
Chloroform	1	18.4628	0	20	92	50	130
1,2-Dichloroethane	1	20.1513	0	20	101	50	130
2-Butanone	1	19.3268	0	20	97	20	130
Carbon Tetrachloride	1	19.3378	0	20	97	50	130
Trichloroethene	1	19.3646	0	20	97	50	130
Benzene	1	19.8423	0	20	99	50	130
Tetrachloroethene	1	17.6852	0	20	88	50	130
Toluene	1	20.8843	0	20	104	50	130
Chlorobenzene	1	18.7556	0	20	94	50	130
1,4-Dichlorobenzene	1	16.9847	0	20	85	50	130
1,2-Dichlorobenzene	1	18.1417	0	20	91	50	130
n-Propylbenzene	1	18.174	0	20	91	50	130
sec-Butylbenzene	1	17.6749	0	20	88	50	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51221.D	AC78747-001(T:MSD)	5/22/2014 7:12:00 PM
Non Spike(If applicable):	3M51200.D	AC78747-001(T)	5/22/2014 1:29:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	20.3843	0	20	102	20	130
1,1-Dichloroethene	1	21.4763	0	20	107	50	130
1,1-Dichloroethane	1	18.0525	0	20	90	50	130
Chloroform	1	18.1455	0	20	91	50	130
1,2-Dichloroethane	1	20.3541	0	20	102	50	130
2-Butanone	1	20.2562	0	20	101	20	130
Carbon Tetrachloride	1	18.8141	0	20	94	50	130
Trichloroethene	1	20.4635	0	20	102	50	130
Benzene	1	20.5663	0	20	103	50	130
Tetrachloroethene	1	17.4119	0	20	87	50	130
Toluene	1	21.2205	0	20	106	50	130
Chlorobenzene	1	18.5491	0	20	93	50	130
1,4-Dichlorobenzene	1	17.1808	0	20	86	50	130
1,2-Dichlorobenzene	1	16.4153	0	20	82	50	130
n-Propylbenzene	1	16.8727	0	20	84	50	130
sec-Butylbenzene	1	17.5412	0	20	88	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: MBS35814

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M51221.D	AC78747-001(T:MSD)	5/22/2014 7:12:00 PM
Duplicate(If applicable):	3M51220.D	AC78747-001(T:MS)	5/22/2014 6:56:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Vinyl Chloride	1	20.3843	17.7584	14	40
1,1-Dichloroethene	1	21.4763	20.7265	3.6	40
1,1-Dichloroethane	1	18.0525	18.3589	1.7	40
Chloroform	1	18.1455	18.4628	1.7	40
1,2-Dichloroethane	1	20.3541	20.1513	1	40
2-Butanone	1	20.2562	19.3268	4.7	40
Carbon Tetrachloride	1	18.8141	19.3378	2.7	40
Trichloroethene	1	20.4635	19.3646	5.5	40
Benzene	1	20.5663	19.8423	3.6	40
Tetrachloroethene	1	17.4119	17.6852	1.6	40
Toluene	1	21.2205	20.8843	1.6	40
Chlorobenzene	1	18.5491	18.7556	1.1	40
1,4-Dichlorobenzene	1	17.1808	16.9847	1.1	40
1,2-Dichlorobenzene	1	16.4153	18.1417	10	40
n-Propylbenzene	1	16.8727	18.174	7.4	40
sec-Butylbenzene	1	17.5412	17.6749	0.76	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Quantitation Report (QT Reviewed)

4052101 0507

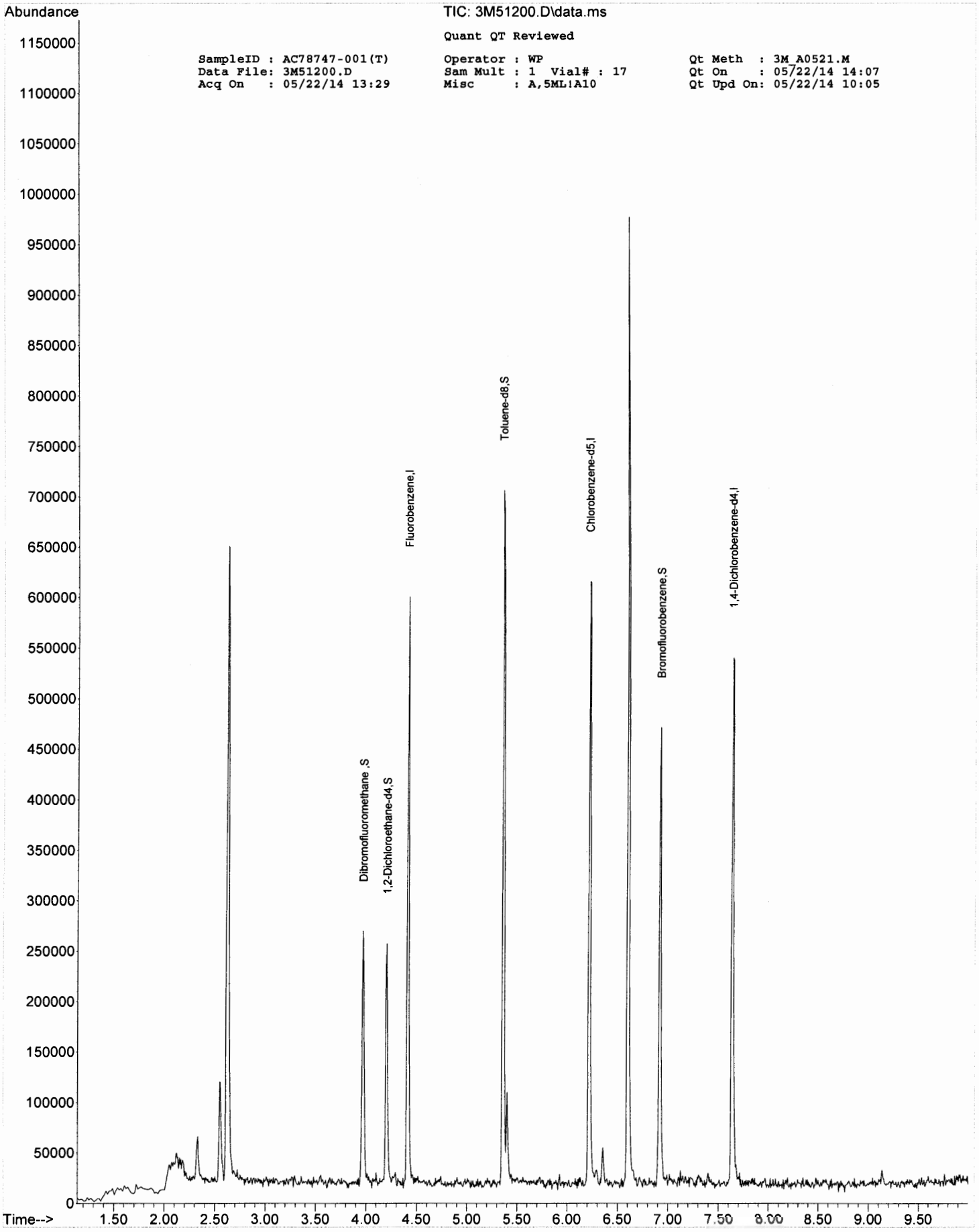
SampleID : AC78747-001(T) Operator : WP Qt Meth : 3M_A0521.M
Data File: 3M51200.D Sam Mult : 1 Vial# : 17 Qt On : 05/22/14 14:07
Acq On : 05/22/14 13:29 Misc : A,5ML!A10 Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-22-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.413	96	288579	30.00	ug/l	0.01
52) Chlorobenzene-d5	6.216	117	230917	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.635	152	120305	30.00	ug/l	0.01
System Monitoring Compounds						
37) Dibromofluoromethane	3.968	111	106754	30.59	ug/l	0.01
Spiked Amount 30.000			Recovery = 101.97%			
39) 1,2-Dichloroethane-d4	4.202	67	57621	29.21	ug/l	0.01
Spiked Amount 30.000			Recovery = 97.37%			
66) Toluene-d8	5.356	98	285540	28.64	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.47%			
76) Bromofluorobenzene	6.919	174	107668	29.94	ug/l	0.01
Spiked Amount 30.000			Recovery = 99.80%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M51200.D\data.ms
Quant QT Reviewed
SampleID : AC78747-001(T)
Data File: 3M51200.D
Acq On : 05/22/14 13:29
Operator : WP
Sam Mult : 1 Vial# : 17
Misc : A,5ML!A10
Qt Meth : 3M_A0521.M
Qt On : 05/22/14 14:07
Qt Upd On: 05/22/14 10:05
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Quantitation Report (QT Reviewed)

4052101 0509

SampleID : AC78747-001(T:MS) Operator : WP Qt Meth : 3M_A0521.M
Data File: 3M51220.D Sam Mult : 1 Vial# : 17 Qt On : 05/23/14 09:21
Acq On : 05/22/14 18:56 Misc : A,5ML!A10 Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-22-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.408	96	293243	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.217	117	239803	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.630	152	127564	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.963	111	108742	30.67	ug/l	0.00
Spiked Amount 30.000			Recovery	=	102.23%	
39) 1,2-Dichloroethane-d4	4.197	67	63279	31.57	ug/l	0.00
Spiked Amount 30.000			Recovery	=	105.23%	
66) Toluene-d8	5.357	98	303846	29.34	ug/l	0.00
Spiked Amount 30.000			Recovery	=	97.80%	
76) Bromofluorobenzene	6.914	174	118365	31.04	ug/l	0.00
Spiked Amount 30.000			Recovery	=	103.47%	
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.281	51	146131	24.6775	ug/l	58
6) Dichlorodifluoromethane	1.264	85	41301	15.7804	ug/l	82
7) Chloromethane	1.381	50	47591	15.7159	ug/l	91
8) Bromomethane	1.680	94	20663	15.6198	ug/l	73
9) Vinyl Chloride	1.464	62	37255	17.7584	ug/l	99
10) Chloroethane	1.747	64	25439	21.1137	ug/l	84
11) Trichlorofluoromethane	1.913	101	40955	17.1129	ug/l	94
12) Ethyl ether	2.123	59	21523m	19.4731	ug/l	
13) Furan	2.147	39	90744m	20.1393	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.274	101	33575	18.0287	ug/l	96
15) Methylene Chloride	2.622	84	175255	64.7658	ug/l	75
16) Acrolein	2.220	56	24862m	68.0270	ug/l	
17) Acrylonitrile	2.821	53	14177m	16.5406	ug/l	
18) Iodomethane	2.394	142	64983	16.0420	ug/l	87
19) Acetone	2.328	43	104963	124.0290	ug/l	94
20) Carbon Disulfide	2.442	76	108067	17.5101	ug/l	100
21) t-Butyl Alcohol	2.706	59	15734	72.3751	ug/l	86
22) n-Hexane	3.013	57	26262m	16.5919	ug/l	
23) Di-isopropyl-ether	3.181	45	211584	19.7313	ug/l	79
24) 1,1-Dichloroethene	2.280	61	79014	20.7265	ug/l	96
25) Methyl Acetate	2.550	43	145431	44.4919	ug/l	100
26) Methyl-t-butyl ether	2.827	73	103052	16.9172	ug/l	66
27) 1,1-Dichloroethane	3.145	63	91879	18.3589	ug/l	97
28) trans-1,2-Dichloroethene	2.827	96	42345	20.2158	ug/l	92
29) Ethyl-t-butyl ether	3.470	59	163539	48.4947	ug/l	96
30) cis-1,2-Dichloroethene	3.602	61	89097m	19.9643	ug/l	
31) Bromochloromethane	3.794	49	50897	17.8384	ug/l	81
32) 2,2-Dichloropropane	3.602	77	58993	22.7834	ug/l	95
33) Ethyl acetate	3.662	43	61560m	19.4867	ug/l	
34) 1,4-Dioxane	4.852	88	23979m	937.0697	ug/l	
35) 1,1-Dichloropropene	4.095	75	63423	20.4080	ug/l	97
36) Chloroform	3.849	83	84112	18.4628	ug/l	68
38) Cyclohexane	4.017	56	57372	18.0412	ug/l	84
40) 1,2-Dichloroethane	4.251	62	75545	20.1513	ug/l	97
41) 2-Butanone	3.626	43	26412	19.3268	ug/l	74
42) 1,1,1-Trichloroethane	3.981	97	65638	18.1802	ug/l	84
43) Carbon Tetrachloride	4.095	117	48837	19.3378	ug/l	95
44) Vinyl Acetate	3.175	43	151256	20.5156	ug/l	100
45) Bromodichloromethane	4.931	83	69644	18.5657	ug/l	81
46) Methylcyclohexane	4.738	83	32914	16.4062	ug/l	93
47) Dibromomethane	4.846	174	47170	18.8430	ug/l	89
48) 1,2-Dichloropropane	4.768	63	63106	20.2766	ug/l	99
49) Trichloroethene	4.630	130	53085	19.3646	ug/l	84
50) Benzene	4.233	78	174876	19.8423	ug/l	100
51) tert-Amyl methyl ether	4.299	73	134143	20.4658	ug/l	78
53) Iso-propylacetate	4.269	43	118735	20.4696	ug/l	94
54) Methyl methacrylate	4.822	41	51754	17.9710	ug/l	91
55) Dibromochloromethane	5.874	129	53118	17.3288	ug/l	90
56) 2-Chloroethylvinylether	5.099	63	33726	20.3340	ug/l	63
57) cis-1,3-Dichloropropene	5.195	75	69609	17.7870	ug/l	100
58) trans-1,3-Dichloropropene	5.520	75	56576	17.4780	ug/l	87
59) Ethyl methacrylate	5.550	41	59841	20.5837	ug/l	83
60) 1,1,2-Trichloroethane	5.634	97	47836	18.9517	ug/l	85
61) 1,2-Dibromoethane	5.952	107	44046	16.7159	ug/l	91
62) 1,3-Dichloropropane	5.730	76	79181	18.4138	ug/l	88
63) 4-Methyl-2-Pentanone	5.279	43	65703	20.3608	ug/l	94
64) 2-Hexanone	5.766	43	39962	18.3978	ug/l	93
65) Tetrachloroethene	5.718	164	40795	17.6852	ug/l	97
67) Toluene	5.393	92	122433	20.8843	ug/l	92

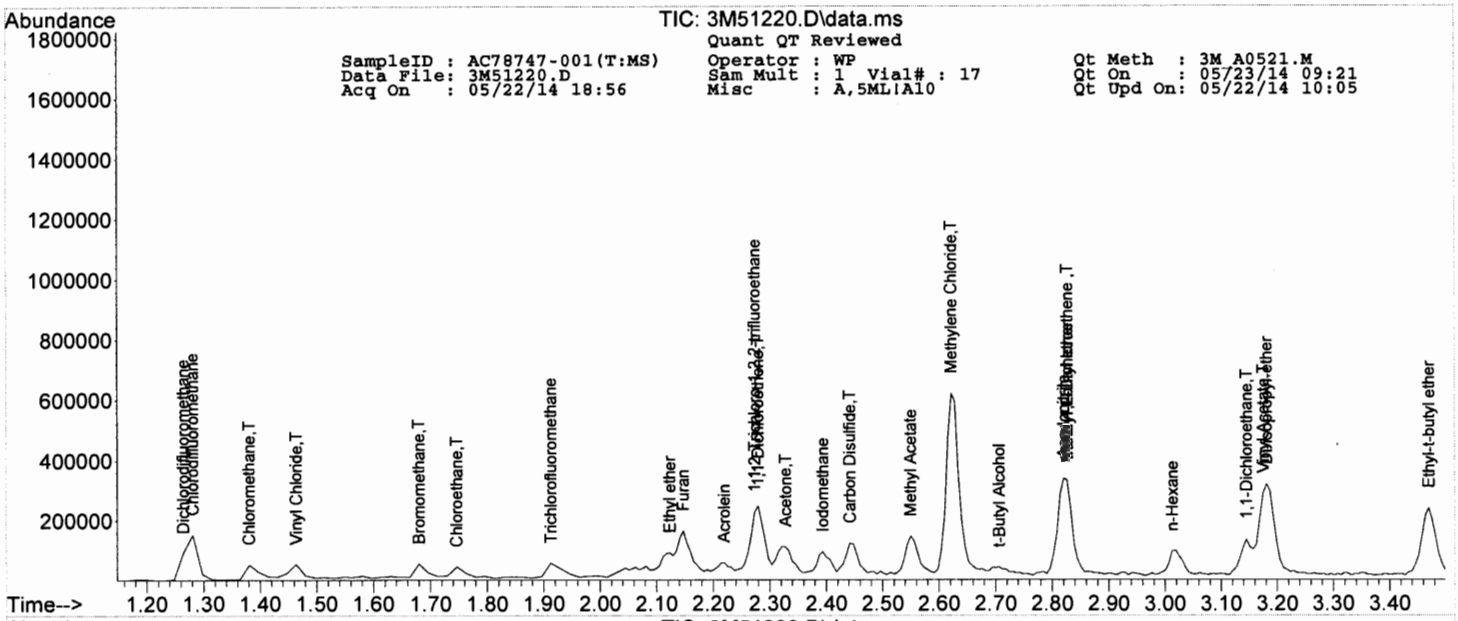
Quantitation Report (QT Reviewed)

SampleID : AC78747-001(T:MS) Operator : WP Qt Meth : 3M_A0521.M
Data File: 3M51220.D Sam Mult : 1 Vial# : 17 Qt On : 05/23/14 09:21
Acq On : 05/22/14 18:56 Misc : A,5ML!A10 Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-22-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.271	133	44389	17.1427	ug/l	100
69)	Chlorobenzene	6.229	112	122591	18.7556	ug/l	98
71)	n-Butyl acrylate	6.530	55	113786	19.6862	ug/l	95
72)	n-Amyl acetate	6.656	43	115557	23.9180	ug/l	96
73)	Bromoform	6.728	173	39815	17.1134	ug/l	93
74)	Ethylbenzene	6.283	106	56608	26.2777	ug/l	67
75)	1,1,2,2-Tetrachloroethane	6.980	83	57948	20.3632	ug/l	88
77)	Styrene	6.596	104	338166	61.8053	ug/l	86
78)	m&p-Xylenes	6.349	106	148295	50.0321	ug/l	89
79)	o-Xylene	6.590	106	68902	21.9267	ug/l	83
80)	trans-1,4-Dichloro-2-b...	7.016	53	15705	17.3811	ug/l	63
81)	1,3-Dichlorobenzene	7.593	146	75017	17.4198	ug/l	87
82)	1,4-Dichlorobenzene	7.648	146	74737	16.9847	ug/l	91
83)	1,2-Dichlorobenzene	7.894	146	82917	18.1417	ug/l	90
84)	Isopropylbenzene	6.806	105	142732	19.4114	ug/l	94
85)	Cyclohexanone	6.896	55	17502m	150.5919	ug/l	
86)	Camphene	6.980	93	25116	14.5013	ug/l	98
87)	1,2,3-Trichloropropane	7.016	75	64388	19.7289	ug/l	94
88)	2-Chlorotoluene	7.125	91	91059	18.6190	ug/l	94
89)	p-Ethyltoluene	7.119	105	135348	20.3488	ug/l	86
90)	4-Chlorotoluene	7.191	91	90600	19.1488	ug/l	91
91)	n-Propylbenzene	7.053	91	146844	18.1740	ug/l	92
92)	Bromobenzene	7.016	77	116258	20.6595	ug/l	92
93)	1,3,5-Trimethylbenzene	7.155	105	105561	18.7530	ug/l	89
94)	Butyl methacrylate	7.173	41	88530	22.3453	ug/l	85
95)	t-Butylbenzene	7.365	119	96290	18.7669	ug/l	84
96)	1,2,4-Trimethylbenzene	7.389	105	120686	19.3267	ug/l	87
97)	sec-Butylbenzene	7.497	105	98049	17.6749	ug/l	98
98)	4-Isopropyltoluene	7.581	119	78180	17.1117	ug/l	92
99)	n-Butylbenzene	7.840	91	84171	16.9782	ug/l	90
100)	p-Diethylbenzene	7.822	119	51889	17.7997	ug/l	95
101)	1,2,4,5-Tetramethylben...	8.333	119	84641	17.9587	ug/l	83
102)	1,2-Dibromo-3-Chloropr...	8.399	157	12010m	18.4055	ug/l	
103)	Camphor	8.880	95	54027	211.3101	ug/l	99
104)	Hexachlorobutadiene	9.036	225	13119	9.0251	ug/l	94
105)	1,2,4-Trichlorobenzene	8.946	180	34619	13.2087	ug/l	91
106)	1,2,3-Trichlorobenzene	9.289	180	31733	13.4335	ug/l	93
107)	Naphthalene	9.126	128	97617	19.2734	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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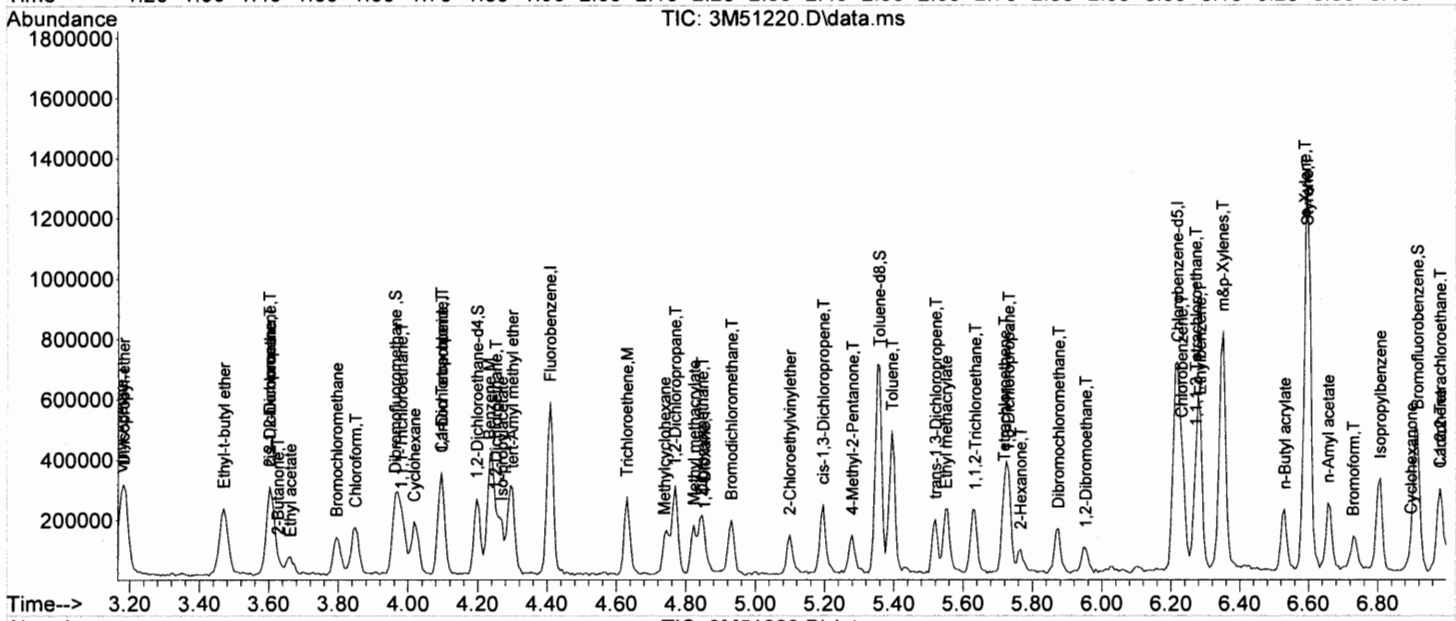
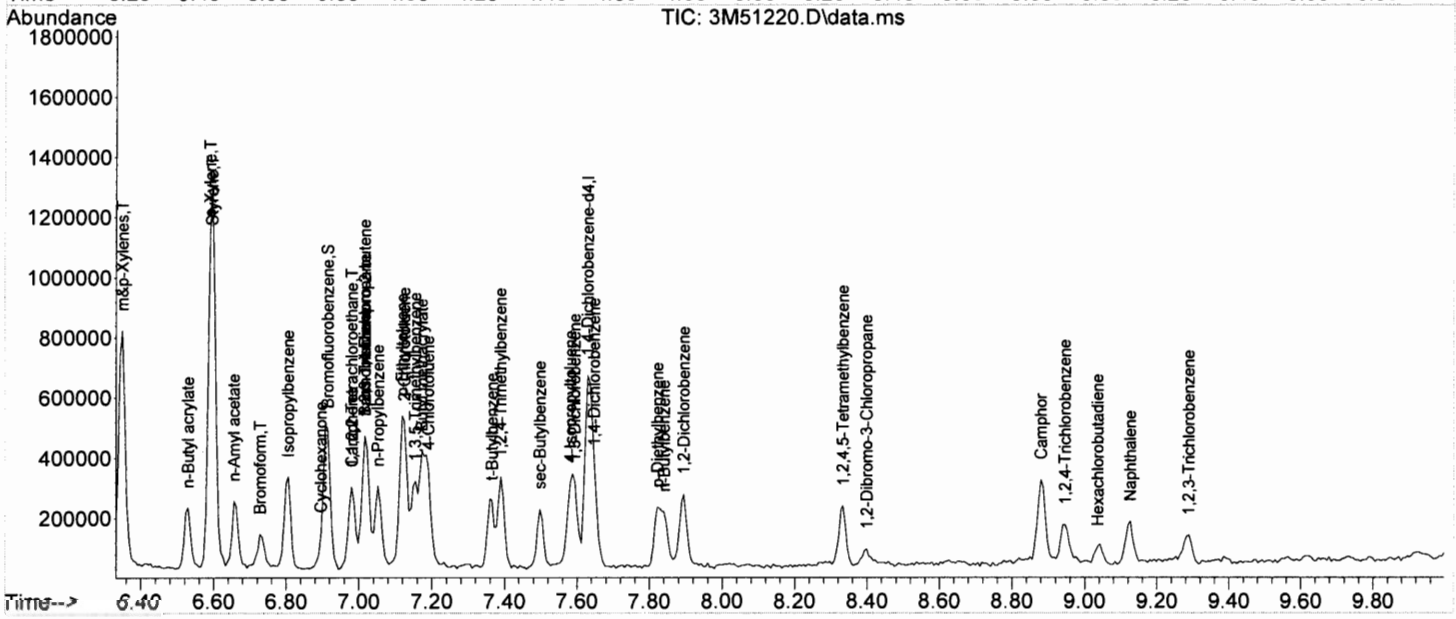
Quant QT Reviewed
SampleID : AC78747-001(T:MS)
Data File: 3M51220.D
Acq On : 05/22/14 18:56
Operator : WP
Sam Mult : 1 Vial# : 17
Misc : A,5ML|A10
Qt Meth : 3M_A0521.M
Qt On : 05/23/14 09:21
Qt Upd On: 05/22/14 10:05
Abundance
Time-->
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether


TIC: 3M51220.D\data.ms
Abundance
Time-->
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S


TIC: 3M51220.D\data.ms
Abundance
Time-->
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Quantitation Report (QT Reviewed)

4052101 0512

SampleID : AC78747-001(T:MSD) Operator : WP Qt Meth : 3M_A0521.M
Data File: 3M51221.D Sam Mult : 1 Vial# : 18 Qt On : 05/23/14 09:21
Acq On : 05/22/14 19:12 Misc : A,5ML!A10 Qt Upd On: 05/22/14 10:05

Data Path : G:\GcMsData\2014\GCMS_3\Data\05-22-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.407	96	282539	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.210	117	232427	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.629	152	130859	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	3.962	111	98589	28.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.20%			
39) 1,2-Dichloroethane-d4	4.196	67	62107	32.16	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.20%			
66) Toluene-d8	5.350	98	300458	29.94	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.80%			
76) Bromofluorobenzene	6.913	174	113137	28.92	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.40%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.275	51	163284	28.6188	ug/l	52
6) Dichlorodifluoromethane	1.275	85	38538	15.2825	ug/l	89
7) Chloromethane	1.391	50	45547	15.6107	ug/l	79
8) Bromomethane	1.690	94	21552	16.9436	ug/l	99
9) Vinyl Chloride	1.458	62	41203	20.3843	ug/l	88
10) Chloroethane	1.740	64	21163	18.2302	ug/l	98
11) Trichlorofluoromethane	1.923	101	43886	19.0324	ug/l	79
12) Ethyl ether	2.122	59	23421	21.9932	ug/l	99
13) Furan	2.146	39	79314	18.2695	ug/l	77
14) 1,1,2-Trichloro-1,2,2-...	2.273	101	30823	17.1780	ug/l	89
15) Methylene Chloride	2.621	84	175863	67.4526	ug/l	81
16) Acrolein	2.212	56	26709	75.8665	ug/l	73
17) Acrylonitrile	2.814	53	17470	21.1548	ug/l	80
18) Iodomethane	2.393	142	64346	16.4865	ug/l	99
19) Acetone	2.327	43	124114	152.2149	ug/l	99
20) Carbon Disulfide	2.447	76	108807	18.2979	ug/l	100
21) t-Butyl Alcohol	2.705	59	22576m	107.8423	ug/l	
22) n-Hexane	3.012	57	25402m	16.6566	ug/l	
23) Di-isopropyl-ether	3.186	45	194744	18.8489	ug/l	86
24) 1,1-Dichloroethene	2.279	61	78884	21.4763	ug/l	96
25) Methyl Acetate	2.549	43	140639	44.6559	ug/l	100
26) Methyl-t-butyl ether	2.820	73	106844	18.2042	ug/l	66
27) 1,1-Dichloroethane	3.144	63	87048	18.0525	ug/l	94
28) trans-1,2-Dichloroethene	2.826	96	40973	20.3019	ug/l	91
29) Ethyl-t-butyl ether	3.463	59	168432	51.8378	ug/l	94
30) cis-1,2-Dichloroethene	3.601	61	89313m	20.7709	ug/l	
31) Bromochloromethane	3.793	49	52348	19.0420	ug/l	61
32) 2,2-Dichloropropane	3.601	77	59494	23.8474	ug/l	91
33) Ethyl acetate	3.661	43	61696	20.2697	ug/l	95
34) 1,4-Dioxane	4.845	88	23567m	955.8602	ug/l	
35) 1,1-Dichloropropene	4.094	75	60701	20.2721	ug/l	97
36) Chloroform	3.848	83	79649	18.1455	ug/l	80
38) Cyclohexane	4.016	56	54682	17.8468	ug/l	87
40) 1,2-Dichloroethane	4.244	62	73520	20.3541	ug/l	94
41) 2-Butanone	3.625	43	26662	20.2562	ug/l	99
42) 1,1,1-Trichloroethane	3.980	97	65157	18.7307	ug/l	94
43) Carbon Tetrachloride	4.094	117	45780	18.8141	ug/l	96
44) Vinyl Acetate	3.174	43	155340	21.8677	ug/l	100
45) Bromodichloromethane	4.923	83	69098	19.1180	ug/l	78
46) Methylcyclohexane	4.743	83	33153	17.1514	ug/l	96
47) Dibromomethane	4.845	174	46320	19.2044	ug/l	94
48) 1,2-Dichloropropane	4.767	63	58722	19.5828	ug/l	96
49) Trichloroethene	4.629	130	54050	20.4635	ug/l	89
50) Benzene	4.232	78	174641	20.5663	ug/l	100
51) tert-Amyl methyl ether	4.292	73	128241	20.3066	ug/l	81
53) Iso-propylacetate	4.262	43	122840m	21.8494	ug/l	
54) Methyl methacrylate	4.821	41	55614	19.9242	ug/l	99
55) Dibromochloromethane	5.873	129	54261	18.2635	ug/l	94
56) 2-Chloroethylvinylether	5.098	63	31769	19.7619	ug/l	93
57) cis-1,3-Dichloropropene	5.194	75	67633	17.8306	ug/l	89
58) trans-1,3-Dichloropropene	5.513	75	54805	17.4682	ug/l	95
59) Ethyl methacrylate	5.549	41	67035	23.7900	ug/l	97
60) 1,1,2-Trichloroethane	5.627	97	42571	17.3878	ug/l	87
61) 1,2-Dibromoethane	5.945	107	45040	17.6356	ug/l	89
62) 1,3-Dichloropropane	5.729	76	80012	19.1975	ug/l	91
63) 4-Methyl-2-Pentanone	5.278	43	72076	23.0446	ug/l	98
64) 2-Hexanone	5.765	43	40190	19.0900	ug/l	87
65) Tetrachloroethene	5.717	164	38929	17.4119	ug/l	95
67) Toluene	5.392	92	120577	21.2205	ug/l	83

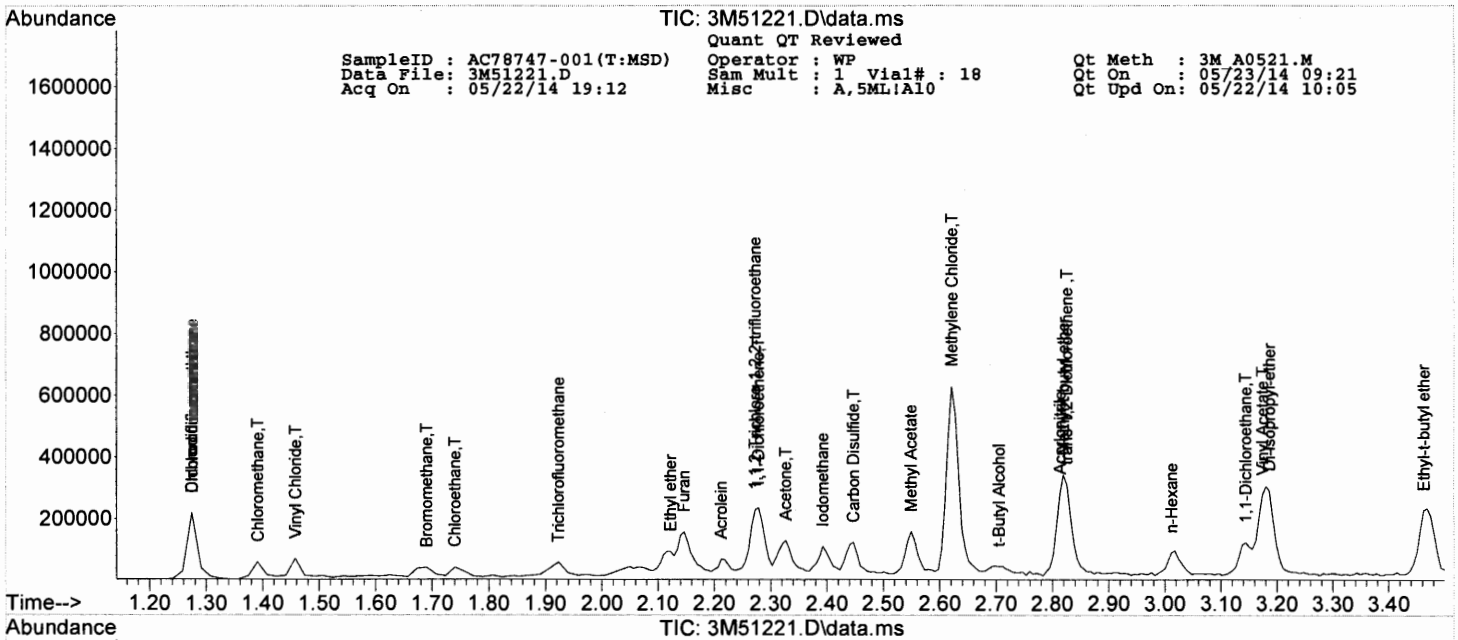
Quantitation Report (QT Reviewed)

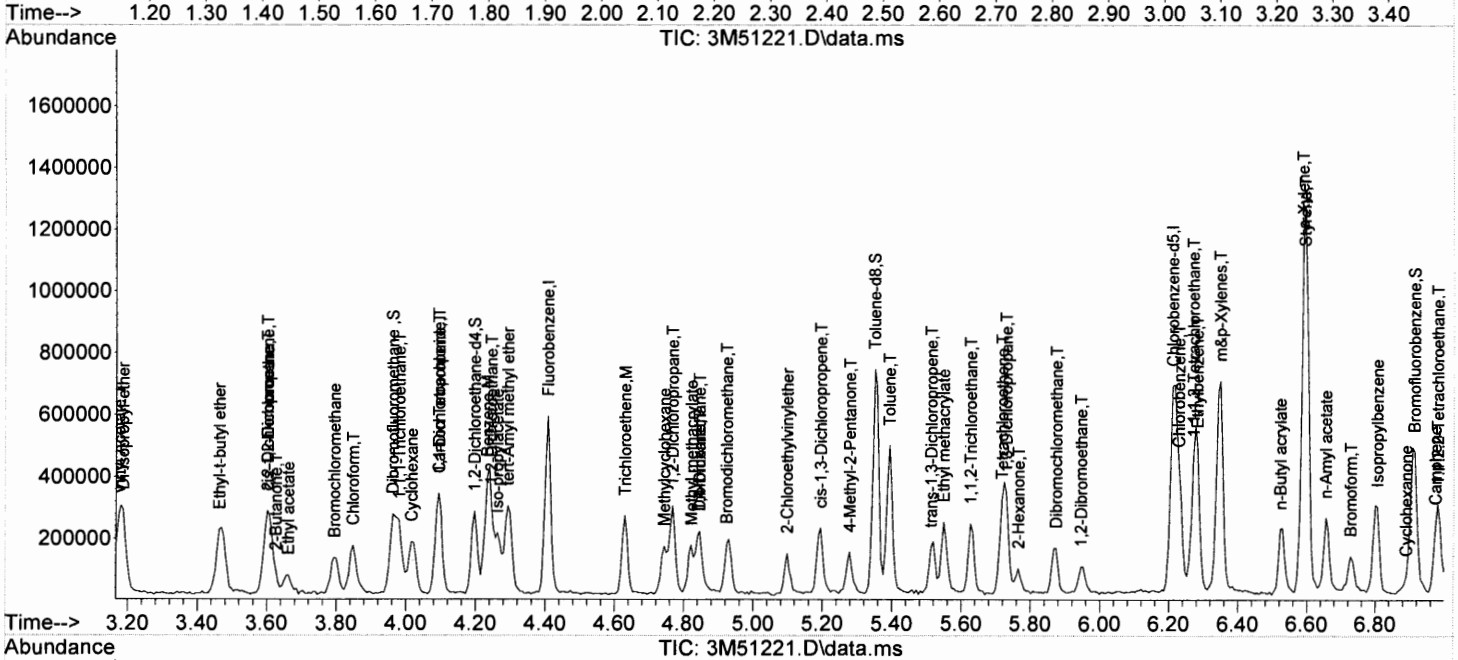
SampleID : AC78747-001(T:MSD) Operator : WP Qt Meth : 3M_A0521.M
Data File: 3M51221.D Sam Mult : 1 Vial# : 18 Qt On : 05/23/14 09:21
Acq On : 05/22/14 19:12 Misc : A,5ML!A10 Qt Upd On: 05/22/14 10:05

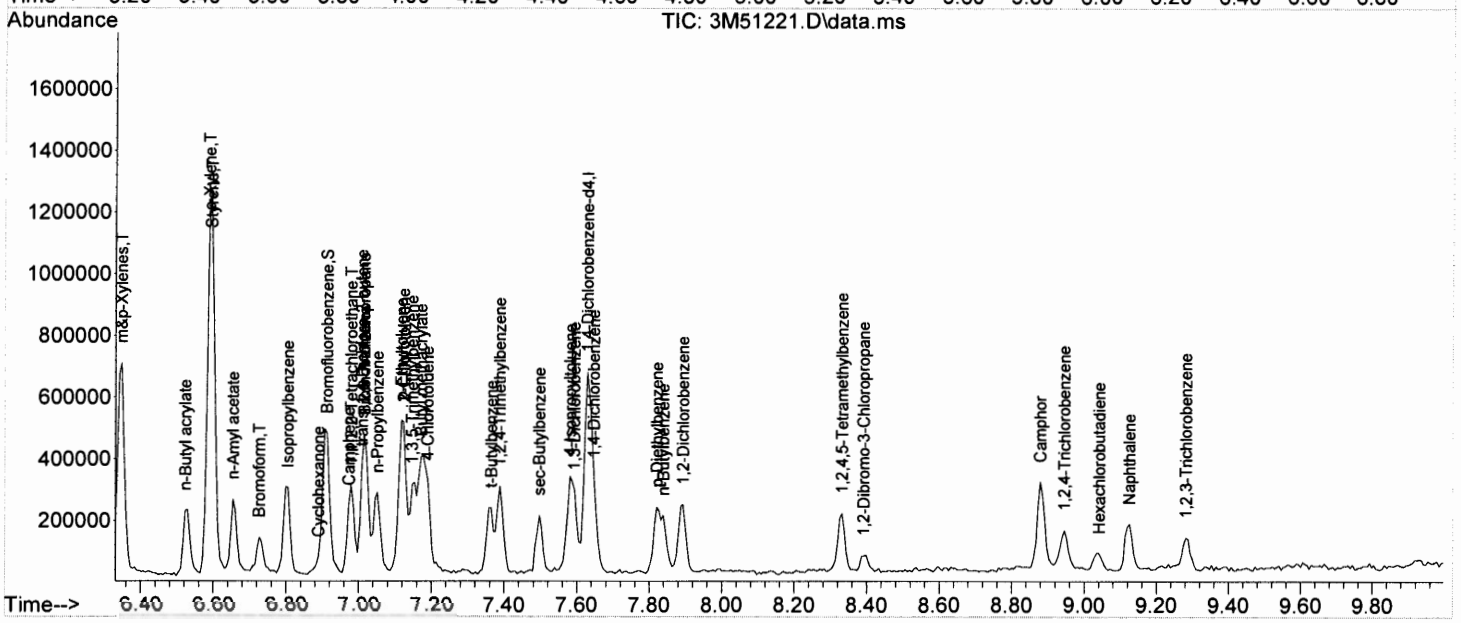
Data Path : G:\GcMsData\2014\GCMS_3\Data\05-22-14\
Qt Path : G:\GcMsData\2014\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.270	133	45979	18.3203	ug/l	96
69)	Chlorobenzene	6.228	112	117512	18.5491	ug/l	93
71)	n-Butyl acrylate	6.522	55	117086	19.7475	ug/l	95
72)	n-Amyl acetate	6.655	43	111838	22.5654	ug/l	96
73)	Bromoform	6.727	173	41902	17.5569	ug/l	93
74)	Ethylbenzene	6.282	106	40080	17.9955	ug/l	98
75)	1,1,2,2-Tetrachloroethane	6.979	83	56731	19.4336	ug/l	98
77)	Styrene	6.595	104	332119	59.1717	ug/l	92
78)	m&p-Xylenes	6.348	106	125064	40.9612	ug/l	97
79)	o-Xylene	6.589	106	65072	20.1561	ug/l	76
80)	trans-1,4-Dichloro-2-b...	7.009	53	14928	16.0923	ug/l	55
81)	1,3-Dichlorobenzene	7.592	146	76517	17.3196	ug/l	84
82)	1,4-Dichlorobenzene	7.647	146	77553	17.1808	ug/l	91
83)	1,2-Dichlorobenzene	7.893	146	76964	16.4153	ug/l	89
84)	Isopropylbenzene	6.805	105	137333	18.2069	ug/l	97
85)	Cyclohexanone	6.889	55	11598	97.2391	ug/l	88
86)	Camphene	6.973	93	24582	13.8356	ug/l	92
87)	1,2,3-Trichloropropane	7.015	75	64745	19.3387	ug/l	93
88)	2-Chlorotoluene	7.124	91	97180	19.3845	ug/l	94
89)	p-Ethyltoluene	7.118	105	135608	19.8746	ug/l	76
90)	4-Chlorotoluene	7.190	91	89544	18.4490	ug/l	89
91)	n-Propylbenzene	7.051	91	139851	16.8727	ug/l	98
92)	Bromobenzene	7.015	77	105726	18.3149	ug/l	87
93)	1,3,5-Trimethylbenzene	7.148	105	107274	18.5775	ug/l	89
94)	Butyl methacrylate	7.172	41	94021	23.1338	ug/l	83
95)	t-Butylbenzene	7.364	119	88896	16.8896	ug/l	78
96)	1,2,4-Trimethylbenzene	7.388	105	117007	18.2658	ug/l	89
97)	sec-Butylbenzene	7.496	105	99821	17.5412	ug/l	97
98)	4-Isopropyltoluene	7.580	119	81496	17.3884	ug/l	94
99)	n-Butylbenzene	7.839	91	86742	17.0562	ug/l	89
100)	p-Diethylbenzene	7.821	119	51542m	17.2354	ug/l	
101)	1,2,4,5-Tetramethylben...	8.332	119	85131	17.6078	ug/l	95
102)	1,2-Dibromo-3-Chloropr...	8.392	157	11973	17.8868	ug/l	73
103)	Camphor	8.879	95	59399	226.5748	ug/l	87
104)	Hexachlorobutadiene	9.041	225	12054	8.0836	ug/l	88
105)	1,2,4-Trichlorobenzene	8.945	180	36337	13.5151	ug/l	89
106)	1,2,3-Trichlorobenzene	9.282	180	33795	13.9461	ug/l	95
107)	Naphthalene	9.125	128	110086	21.1879	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M51221.D\data.ms
Quant QT Reviewed
SampleID : AC78747-001(T:MSD)
Data File: 3M51221.D
Acq On : 05/22/14 19:12
Operator : WP
Sam Mult : 1 Vial# : 18
Misc : A,5ML|A10
Qt Meth : 3M A0521.M
Qt On : 05/23/14 09:21
Qt Upd On: 05/22/14 10:05
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Time-->


Abundance
TIC: 3M51221.D\data.ms
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
ter-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,I
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
Time-->


Abundance
TIC: 3M51221.D\data.ms
m&p-Xylenes,I
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
t-Butylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data
QC Batch: MBS35858

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10651.D	AC78866-001(MS)	5/29/2014 8:15:00 AM
Non Spike(If applicable):	6M10654.D	AC78866-001	5/29/2014 9:05:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	34.3922	0	50	69	20	130
1,1-Dichloroethene	1	36.3116	0	50	73	50	130
1,1-Dichloroethane	1	32.6391	0	50	65	50	130
Chloroform	1	34.8143	0	50	70	50	130
1,2-Dichloroethane	1	31.3875	0	50	63	50	130
2-Butanone	1	34.1745	0	50	68	20	130
Carbon Tetrachloride	1	35.8328	0	50	72	50	130
Trichloroethene	1	29.9249	0	50	60	50	130
Benzene	1	34.7867	0	50	70	50	130
Tetrachloroethene	1	34.9261	0	50	70	50	130
Toluene	1	32.8843	0	50	66	50	130
Chlorobenzene	1	35.439	0	50	71	50	130
1,4-Dichlorobenzene	1	29.7732	0	50	60	50	130
1,2-Dichlorobenzene	1	32.8598	0	50	66	50	130
n-Propylbenzene	1	34.5314	0	50	69	50	130
sec-Butylbenzene	1	33.9531	0	50	68	50	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10652.D	AC78866-001(MSD)	5/29/2014 8:31:00 AM
Non Spike(If applicable):	6M10654.D	AC78866-001	5/29/2014 9:05:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	31.5206	0	50	63	20	130
1,1-Dichloroethene	1	38.2649	0	50	77	50	130
1,1-Dichloroethane	1	37.2572	0	50	75	50	130
Chloroform	1	34.8494	0	50	70	50	130
1,2-Dichloroethane	1	34.0641	0	50	68	50	130
2-Butanone	1	40.5092	0	50	81	20	130
Carbon Tetrachloride	1	36.0267	0	50	72	50	130
Trichloroethene	1	34.9799	0	50	70	50	130
Benzene	1	38.1194	0	50	76	50	130
Tetrachloroethene	1	36.9089	0	50	74	50	130
Toluene	1	36.4677	0	50	73	50	130
Chlorobenzene	1	37.9325	0	50	76	50	130
1,4-Dichlorobenzene	1	28.8895	0	50	58	50	130
1,2-Dichlorobenzene	1	29.1114	0	50	58	50	130
n-Propylbenzene	1	34.6663	0	50	69	50	130
sec-Butylbenzene	1	35.072	0	50	70	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: MBS35858

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M10652.D	AC78866-001(MSD)	5/29/2014 8:31:00 AM
Duplicate(If applicable):	6M10651.D	AC78866-001(MS)	5/29/2014 8:15:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Vinyl Chloride	1	31.5206	34.3922	8.7	40
1,1-Dichloroethene	1	38.2649	36.3116	5.2	40
1,1-Dichloroethane	1	37.2572	32.6391	13	40
Chloroform	1	34.8494	34.8143	0.1	40
1,2-Dichloroethane	1	34.0641	31.3875	8.2	40
2-Butanone	1	40.5092	34.1745	17	40
Carbon Tetrachloride	1	36.0267	35.8328	0.54	40
Trichloroethene	1	34.9799	29.9249	16	40
Benzene	1	38.1194	34.7867	9.1	40
Tetrachloroethene	1	36.9089	34.9261	5.5	40
Toluene	1	36.4677	32.8843	10	40
Chlorobenzene	1	37.9325	35.439	6.8	40
1,4-Dichlorobenzene	1	28.8895	29.7732	3	40
1,2-Dichlorobenzene	1	29.1114	32.8598	12	40
n-Propylbenzene	1	34.6663	34.5314	0.39	40
sec-Butylbenzene	1	35.072	33.9531	3.2	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Quantitation Report (QT Reviewed)

4052101 0517

SampleID : AC78866-001(MS) Operator : SGG Qt Meth : 6M_S0519..
Data File: 6M10651.D Sam Mult : 1 Vial# : 8 Qt On : 05/29/14 10:20
Acq On : 05/29/14 08:15 Misc : S,5G!6 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.464	96	193525	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.027	117	105178	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.253	152	54683	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.049	111	50870	29.21	ug/l	-0.02
Spiked Amount 30.000			Recovery = 97.37%			
39) 1,2-Dichloroethane-d4	4.260	67	23392	27.79	ug/l	-0.02
Spiked Amount 30.000			Recovery = 92.63%			
66) Toluene-d8	5.287	98	177108	31.91	ug/l	-0.02
Spiked Amount 30.000			Recovery = 106.37%			
76) Bromofluorobenzene	6.628	174	37751	28.03	ug/l	-0.02
Spiked Amount 30.000			Recovery = 93.43%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.285	51	292560m	46.9030	ug/l	
6) Dichlorodifluoromethane	1.279	85	60657	15.4681	ug/l	82
7) Chloromethane	1.400	50	89931	25.8538	ug/l	74
8) Bromomethane	1.734	94	75759	31.7707	ug/l	80
9) Vinyl Chloride	1.486	62	89351	34.3922	ug/l	97
10) Chloroethane	1.809	64	88626	35.0886	ug/l	90
11) Trichlorofluoromethane	2.004	101	160924	35.1848	ug/l	81
12) Ethyl ether	2.204	59	38702	30.1437	ug/l	80
13) Furan	2.234	39	273240m	35.2695	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.384	101	113180	35.6975	ug/l	88
15) Methylene Chloride	2.727	84	90643	36.4025	ug/l	66
16) Acrolein	2.288	56	22332	122.1400	ug/l	72
17) Acrylonitrile	2.919	53	3953	10.6817	ug/l	72
18) Iodomethane	2.498	142	109471	36.0637	ug/l	96
19) Acetone	2.396	43	50019	156.5520	ug/l	84
20) Carbon Disulfide	2.552	76	408197	38.1054	ug/l	100
21) t-Butyl Alcohol	2.787	59	5076	99.5919	ug/l	55
22) n-Hexane	3.166	57	196024	31.8121	ug/l	89
23) Di-isopropyl-ether	3.316	45	313822	31.0903	ug/l	81
24) 1,1-Dichloroethene	2.384	61	207672	36.3116	ug/l	90
25) Methyl Acetate	2.649	43	40706	31.3248	ug/l	100
26) Methyl-t-butyl ether	2.937	73	69623	26.1183	ug/l	78
27) 1,1-Dichloroethane	3.262	63	190440	32.6391	ug/l	89
28) trans-1,2-Dichloroethene	2.943	96	107009	35.5141	ug/l	96
29) Ethyl-t-butyl ether	3.604	59	133927	72.5977	ug/l	96
30) cis-1,2-Dichloroethene	3.725	61	170876	32.9465	ug/l	76
31) Bromochloromethane	3.893	49	82856m	36.7609	ug/l	
32) 2,2-Dichloropropane	3.731	77	114288	32.2611	ug/l	92
33) Ethyl acetate	3.773	43	36526	25.5058	ug/l	93
34) 1,4-Dioxane	4.843	88	12402	1324.1713	ug/l	89
35) 1,1-Dichloropropene	4.187	75	163048	33.0455	ug/l	92
36) Chloroform	3.941	83	154728	34.8143	ug/l	78
38) Cyclohexane	4.133	56	261628	33.7222	ug/l	79
40) 1,2-Dichloroethane	4.308	62	83509	31.3875	ug/l	97
41) 2-Butanone	3.731	43	23029m	34.1745	ug/l	
42) 1,1,1-Trichloroethane	4.079	97	142748	33.8024	ug/l	90
43) Carbon Tetrachloride	4.193	117	125234	35.8328	ug/l	91
44) Vinyl Acetate	3.316	43	204910	28.5502	ug/l	100
45) Bromodichloromethane	4.915	83	97644	30.1650	ug/l	99
46) Methylcyclohexane	4.782	83	195737	33.2911	ug/l	88
47) Dibromomethane	4.843	174	32698	35.0886	ug/l	87
48) 1,2-Dichloropropane	4.776	63	99605	33.7227	ug/l	99
49) Trichloroethene	4.662	130	86638	29.9249	ug/l	81
50) Benzene	4.308	78	391033	34.7867	ug/l	100
51) tert-Amyl methyl ether	4.368	73	72653m	26.1418	ug/l	
53) Iso-propylacetate	4.332	43	53828m	25.0872	ug/l	
54) Methyl methacrylate	4.825	41	36855	26.4022	ug/l	93
55) Dibromochloromethane	5.720	129	42753	26.2722	ug/l	66
56) 2-Chloroethylvinylether	5.059	63	19418	29.9822	ug/l	77
57) cis-1,3-Dichloropropene	5.143	75	96004	28.0725	ug/l	84
58) trans-1,3-Dichloropropene	5.420	75	67493	28.5315	ug/l	92
59) Ethyl methacrylate	5.456	41	46389m	31.1035	ug/l	
60) 1,1,2-Trichloroethane	5.510	97	41129	27.9323	ug/l	86
61) 1,2-Dibromoethane	5.792	107	29852	27.4889	ug/l	83
62) 1,3-Dichloropropane	5.600	76	75670	29.6436	ug/l	99
63) 4-Methyl-2-Pentanone	5.215	43	32069	25.6341	ug/l	97
64) 2-Hexanone	5.636	43	11740m	17.5926	ug/l	
65) Tetrachloroethene	5.606	164	78631	34.9261	ug/l	71
67) Toluene	5.323	92	209283	32.8843	ug/l	86

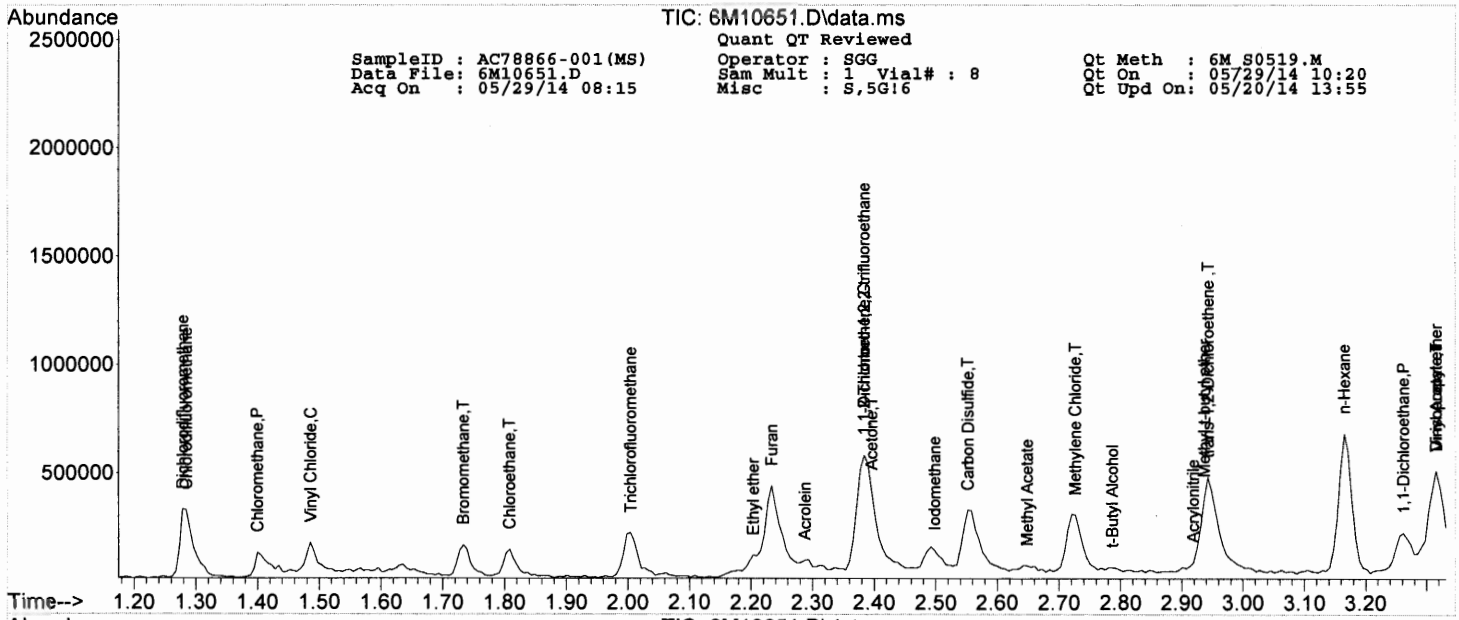
Quantitation Report (QT Reviewed)

SampleID : AC78866-001(MS) Operator : SGG Qt Meth : 6M_S0519.M
Data File: 6M10651.D Sam Mult : 1 Vial# : 8 Qt On : 05/29/14 10:20
Acq On : 05/29/14 08:15 Misc : S,5G!6 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.075	133	60494	34.0955	ug/l	88
69)	Chlorobenzene	6.039	112	195345	35.4390	ug/l	96
71)	n-Butyl acrylate	6.297	55	54298	25.0772	ug/l	99
72)	n-Amyl acetate	6.411	43	55180	26.7859	ug/l	74
73)	Bromoform	6.459	173	27030	29.7549	ug/l	94
74)	Ethylbenzene	6.087	106	114800	38.5372	ug/l	99
75)	1,1,2,2-Tetrachloroethane	6.676	83	41300	27.8671	ug/l	93
77)	Styrene	6.357	104	181671	35.0646	ug/l	92
78)	m&p-Xylenes	6.147	106	274855	76.1030	ug/l	98
79)	o-Xylene	6.351	106	113605	35.4478	ug/l	97
80)	trans-1,4-Dichloro-2-b...	6.700	53	40268	33.1198	ug/l	30
81)	1,3-Dichlorobenzene	7.217	146	127896	34.2070	ug/l	91
82)	1,4-Dichlorobenzene	7.265	146	115134	29.7732	ug/l	96
83)	1,2-Dichlorobenzene	7.475	146	104540	32.8598	ug/l	87
84)	Isopropylbenzene	6.538	105	371589	35.6867	ug/l	96
85)	Cyclohexanone	6.700	55	20328	202.9214	ug/l	62
86)	Camphene	6.700	93	147453	37.1925	ug/l	92
87)	1,2,3-Trichloropropane	6.712	75	47924	28.7693	ug/l	85
88)	2-Chlorotoluene	6.814	91	302614	37.6251	ug/l	94
89)	p-Ethyltoluene	6.814	105	331412	33.6056	ug/l	84
90)	4-Chlorotoluene	6.868	91	293092	40.3655	ug/l	97
91)	n-Propylbenzene	6.754	91	484581	34.5314	ug/l	94
92)	Bromobenzene	6.718	77	181128	34.0950	ug/l	85
93)	1,3,5-Trimethylbenzene	6.844	105	277313	37.2118	ug/l	89
94)	Butyl methacrylate	6.862	41	102218m	31.8692	ug/l	
95)	t-Butylbenzene	7.024	119	252559	32.7382	ug/l	91
96)	1,2,4-Trimethylbenzene	7.049	105	249422	33.6017	ug/l	88
97)	sec-Butylbenzene	7.145	105	379954	33.9531	ug/l	95
98)	4-Isopropyltoluene	7.217	119	273369	31.9817	ug/l	96
99)	n-Butylbenzene	7.439	91	380461	32.7684	ug/l	86
100)	p-Diethylbenzene	7.427	119	150748	31.6248	ug/l	97
101)	1,2,4,5-Tetramethylben...	7.866	119	141769	26.2091	ug/l	96
102)	1,2-Dibromo-3-Chloropr...	7.902	157	4259	33.8750	ug/l	80
103)	Camphor	8.323	95	9685	196.7489	ug/l	93
104)	Hexachlorobutadiene	8.479	225	57918	27.0765	ug/l	90
105)	1,2,4-Trichlorobenzene	8.389	180	45051	23.9049	ug/l	89
106)	1,2,3-Trichlorobenzene	8.677	180	39056	27.3298	ug/l	86
107)	Naphthalene	8.533	128	43736	21.9439	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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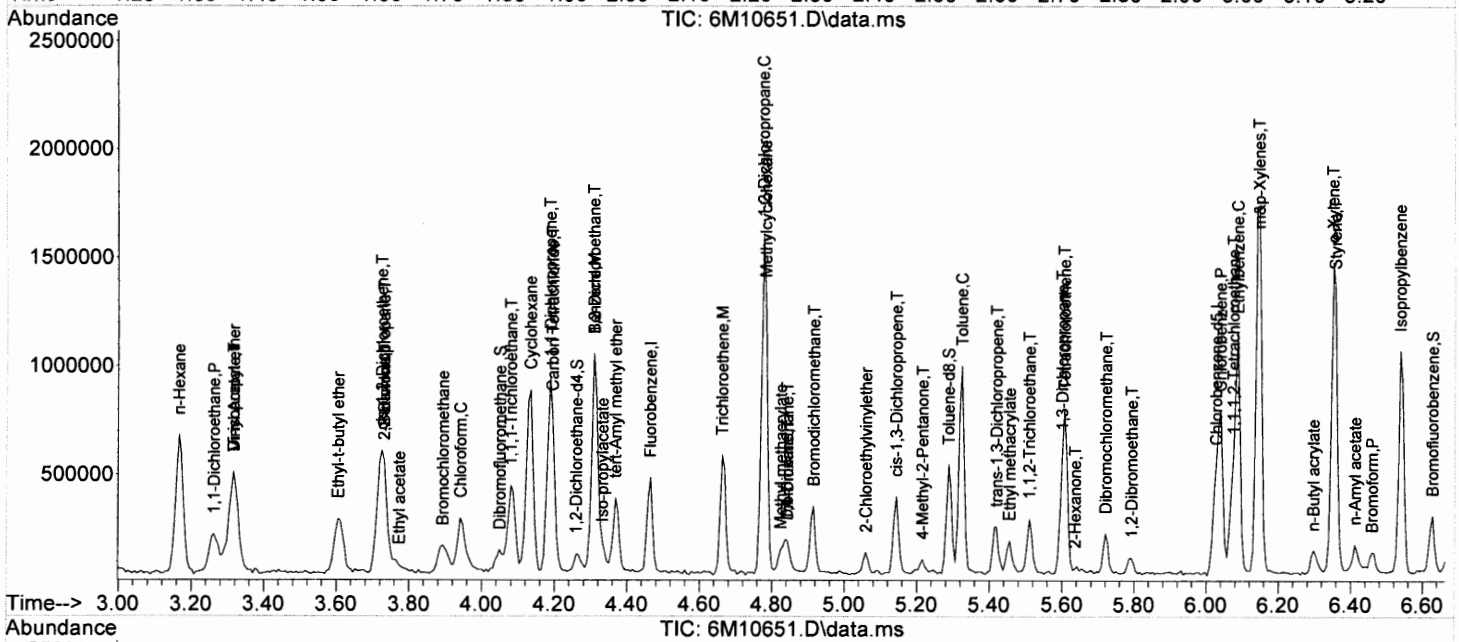
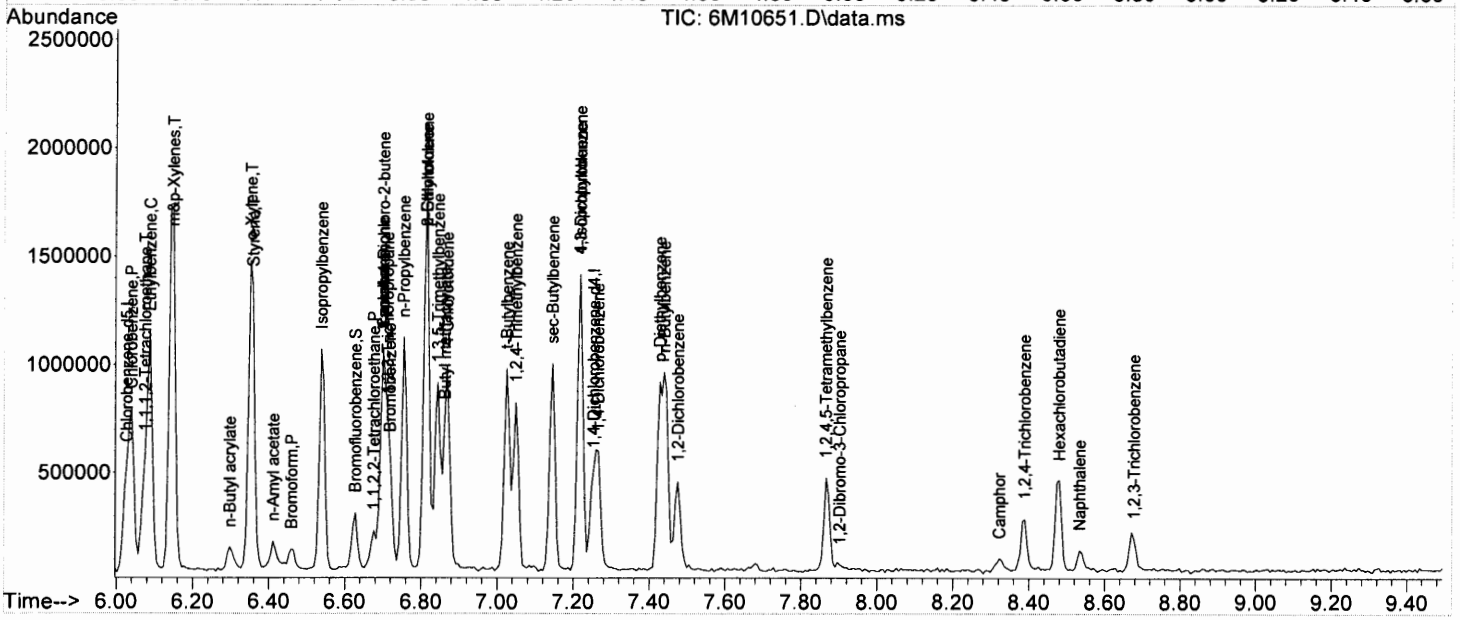
Quant QT Reviewed
SampleID : AC78866-001(MS)
Data File: 6M10651.D
Acq On : 05/29/14 08:15
Operator : SGG
Sam Mult : 1 Vial# : 8
Misc : S,5G16
Qt Meth : 6M_S0519.M
Qt On : 05/29/14 10:20
Qt Upd On: 05/20/14 13:55
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,P
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 6M10651.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Iso-propylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
Isopropylbenzene
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Bromofluorobenzene,S
Time-->


Abundance
TIC: 6M10651.D\data.ms
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
n-Propylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

4052101 0520

SampleID : AC78866-001(MSD) Operator : SGG Qt Meth : 6M_S0519.M
Data File: 6M10652.D Sam Mult : 1 Vial# : 9 Qt On : 05/29/14 10:20
Acq On : 05/29/14 08:31 Misc : S,5G!7 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.464	96	184665	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.027	117	100215	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.253	152	55554	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.043	111	45989	27.67	ug/l	-0.03
Spiked Amount 30.000			Recovery = 92.23%			
39) 1,2-Dichloroethane-d4	4.266	67	24410	30.39	ug/l	-0.02
Spiked Amount 30.000			Recovery = 101.30%			
66) Toluene-d8	5.288	98	171148	32.36	ug/l	-0.02
Spiked Amount 30.000			Recovery = 107.87%			
76) Bromofluorobenzene	6.628	174	41465	30.30	ug/l	-0.02
Spiked Amount 30.000			Recovery = 101.00%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.285	51	338554m	56.7214	ug/l	
6) Dichlorodifluoromethane	1.279	85	58217	15.5577	ug/l	78
7) Chloromethane	1.400	50	89034	26.8240	ug/l	63
8) Bromomethane	1.734	94	71057	31.2286	ug/l	81
9) Vinyl Chloride	1.487	62	78043	31.5206	ug/l	95
10) Chloroethane	1.803	64	84120	34.9025	ug/l	89
11) Trichlorofluoromethane	2.005	101	165328	37.8307	ug/l	79
12) Ethyl ether	2.210	59	42166	34.4173	ug/l	74
13) Furan	2.234	39	295945m	39.9717	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.384	101	124633	41.1958	ug/l	92
15) Methylene Chloride	2.721	84	90032	37.8919	ug/l	83
16) Acrolein	2.288	56	21903	125.5192	ug/l	56
17) Acrylonitrile	2.907	53	9890	28.0066	ug/l	91
18) Iodomethane	2.493	142	112935	38.9899	ug/l	99
19) Acetone	2.397	43	43068	141.2478	ug/l	85
20) Carbon Disulfide	2.553	76	397057	38.8439	ug/l	100
21) t-Butyl Alcohol	2.775	59	2762	56.7909	ug/l	97
22) n-Hexane	3.166	57	195262	33.1974	ug/l	81
23) Di-isopropyl-ether	3.316	45	320030	33.2265	ug/l	79
24) 1,1-Dichloroethene	2.378	61	208891	38.2649	ug/l	92
25) Methyl Acetate	2.649	43	44269	35.6567	ug/l	100
26) Methyl-t-butyl ether	2.937	73	73261	28.8017	ug/l	84
27) 1,1-Dichloroethane	3.262	63	207433	37.2572	ug/l	91
28) trans-1,2-Dichloroethene	2.943	96	99887	34.7409	ug/l	85
29) Ethyl-t-butyl ether	3.611	59	134043	76.0526	ug/l	91
30) cis-1,2-Dichloroethene	3.719	61	193621	39.1231	ug/l	77
31) Bromochloromethane	3.893	49	77759m	36.1548	ug/l	
32) 2,2-Dichloropropane	3.731	77	121261	35.8265	ug/l	89
33) Ethyl acetate	3.767	43	43917	32.1383	ug/l	79
34) 1,4-Dioxane	4.843	88	13906	1555.9913	ug/l	23
35) 1,1-Dichloropropene	4.188	75	179575	38.1407	ug/l	99
36) Chloroform	3.941	83	147793	34.8494	ug/l	90
38) Cyclohexane	4.128	56	255533	34.5171	ug/l	89
40) 1,2-Dichloroethane	4.308	62	86481	34.0641	ug/l	95
41) 2-Butanone	3.725	43	26048	40.5092	ug/l	91
42) 1,1,1-Trichloroethane	4.086	97	160436	39.8136	ug/l	85
43) Carbon Tetrachloride	4.194	117	120147	36.0267	ug/l	99
44) Vinyl Acetate	3.310	43	215620	31.4838	ug/l	100
45) Bromodichloromethane	4.909	83	103010	33.3495	ug/l	99
46) Methylcyclohexane	4.783	83	199251	35.5247	ug/l	92
47) Dibromomethane	4.837	174	25894	29.1203	ug/l	93
48) 1,2-Dichloropropane	4.777	63	104705	37.1502	ug/l	92
49) Trichloroethene	4.663	130	96684	34.9799	ug/l	87
50) Benzene	4.308	78	408878	38.1194	ug/l	100
51) tert-Amyl methyl ether	4.368	73	68060m	25.6641	ug/l	
53) Iso-propylacetate	4.332	43	61307	29.9328	ug/l	65
54) Methyl methacrylate	4.819	41	42767	32.1548	ug/l	87
55) Dibromochloromethane	5.720	129	51348	33.1165	ug/l	86
56) 2-Chloroethylvinylether	5.059	63	22072	35.6460	ug/l	74
57) cis-1,3-Dichloropropene	5.143	75	101427	31.1270	ug/l	96
58) trans-1,3-Dichloropropene	5.414	75	70243	31.1646	ug/l	89
59) Ethyl methacrylate	5.450	41	44998m	31.6589	ug/l	
60) 1,1,2-Trichloroethane	5.510	97	40781	29.0676	ug/l	85
61) 1,2-Dibromoethane	5.793	107	34614	33.4524	ug/l	97
62) 1,3-Dichloropropane	5.600	76	82066	33.7413	ug/l	95
63) 4-Methyl-2-Pentanone	5.210	43	34378	28.8407	ug/l	92
64) 2-Hexanone	5.642	43	10661	16.7668	ug/l	74
65) Tetrachloroethene	5.612	164	79159	36.9089	ug/l	92
67) Toluene	5.324	92	221043	36.4677	ug/l	97

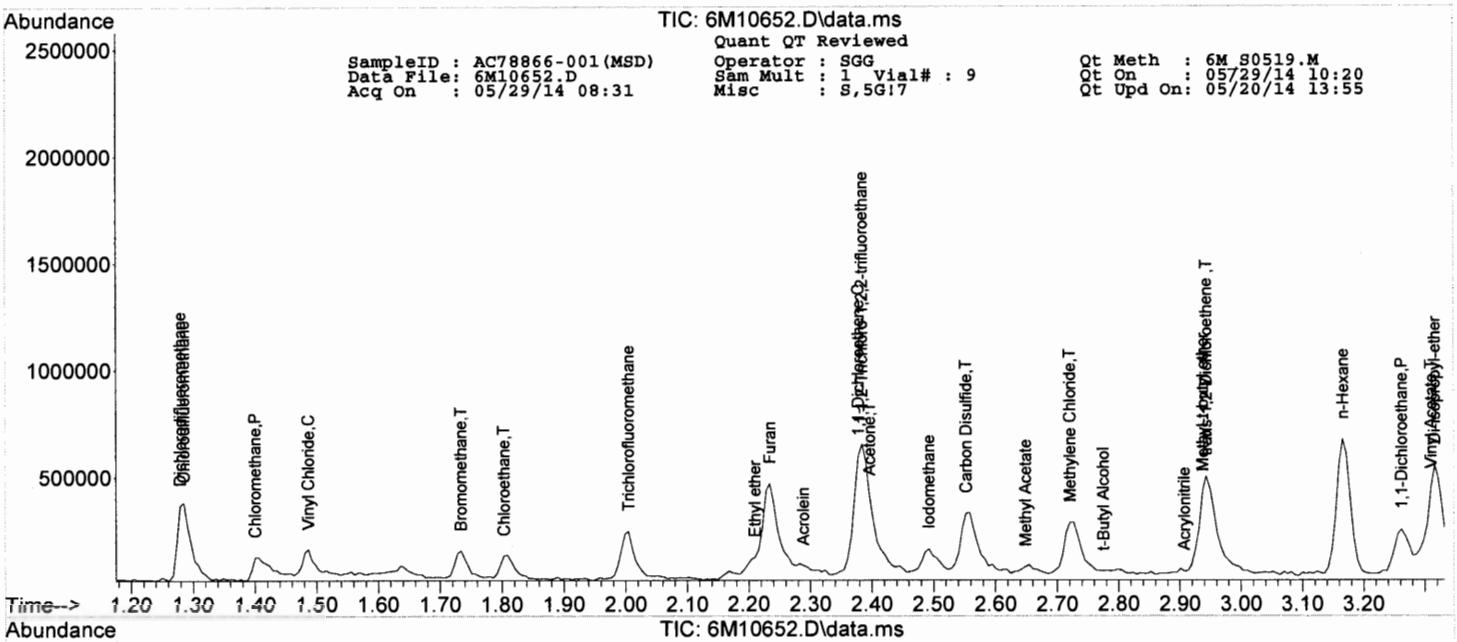
Quantitation Report (QT Reviewed)

SampleID : AC78866-001(MSD) Operator : SGG Qt Meth : 6M_S0519.M
Data File: 6M10652.D Sam Mult : 1 Vial# : 9 Qt On : 05/29/14 10:20
Acq On : 05/29/14 08:31 Misc : S,5G!7 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.075	133	61041	36.1076	ug/l	90
69)	Chlorobenzene	6.039	112	199223	37.9325	ug/l	97
71)	n-Butyl acrylate	6.298	55	59290	26.8960	ug/l	99
72)	n-Amyl acetate	6.412	43	55308	26.4375	ug/l	76
73)	Bromoform	6.460	173	27450	29.7435	ug/l	88
74)	Ethylbenzene	6.087	106	114992	38.0022	ug/l	95
75)	1,1,2,2-Tetrachloroethane	6.676	83	44197	29.3542	ug/l	95
77)	Styrene	6.358	104	183858	34.9304	ug/l	94
78)	m&p-Xylenes	6.147	106	262671	71.5892	ug/l	97
79)	o-Xylene	6.352	106	119559	36.7109	ug/l	88
80)	trans-1,4-Dichloro-2-b...	6.706	53	41436	33.5461	ug/l	36
81)	1,3-Dichlorobenzene	7.217	146	133375	35.1131	ug/l	90
82)	1,4-Dichlorobenzene	7.265	146	113496	28.8895	ug/l	94
83)	1,2-Dichlorobenzene	7.476	146	94090	29.1114	ug/l	95
84)	Isopropylbenzene	6.538	105	359708	34.0100	ug/l	95
85)	Cyclohexanone	6.700	55	18003	177.0180	ug/l	73
86)	Camphene	6.700	93	147146	36.5425	ug/l	90
87)	1,2,3-Trichloropropane	6.712	75	53945	31.8760	ug/l	78
88)	2-Chlorotoluene	6.814	91	336453	41.2263	ug/l	92
89)	p-Ethyltoluene	6.814	105	354876	35.4232	ug/l	75
90)	4-Chlorotoluene	6.869	91	259392	35.1523	ug/l	92
91)	n-Propylbenzene	6.754	91	494212	34.6663	ug/l	96
92)	Bromobenzene	6.718	77	189060	35.0302	ug/l	80
93)	1,3,5-Trimethylbenzene	6.845	105	278964	36.8493	ug/l	87
94)	Butyl methacrylate	6.857	41	108347m	33.2368	ug/l	
95)	t-Butylbenzene	7.025	119	260166	33.1926	ug/l	91
96)	1,2,4-Trimethylbenzene	7.049	105	252572	33.4926	ug/l	89
97)	sec-Butylbenzene	7.145	105	398768	35.0720	ug/l	97
98)	4-Isopropyltoluene	7.217	119	279560	32.1938	ug/l	93
99)	n-Butylbenzene	7.446	91	372928	31.6145	ug/l	89
100)	p-Diethylbenzene	7.428	119	160511	33.1295	ug/l	93
101)	1,2,4,5-Tetramethylben...	7.866	119	136565	24.8693	ug/l	87
102)	1,2-Dibromo-3-Chloropr...	7.908	157	4119	32.2926	ug/l	89
103)	Camphor	8.323	95	8894	177.8471	ug/l	96
104)	Hexachlorobutadiene	8.479	225	57366	26.3980	ug/l	91
105)	1,2,4-Trichlorobenzene	8.389	180	54632	28.5342	ug/l	92
106)	1,2,3-Trichlorobenzene	8.672	180	40268	27.7348	ug/l	91
107)	Naphthalene	8.534	128	45363	22.4034	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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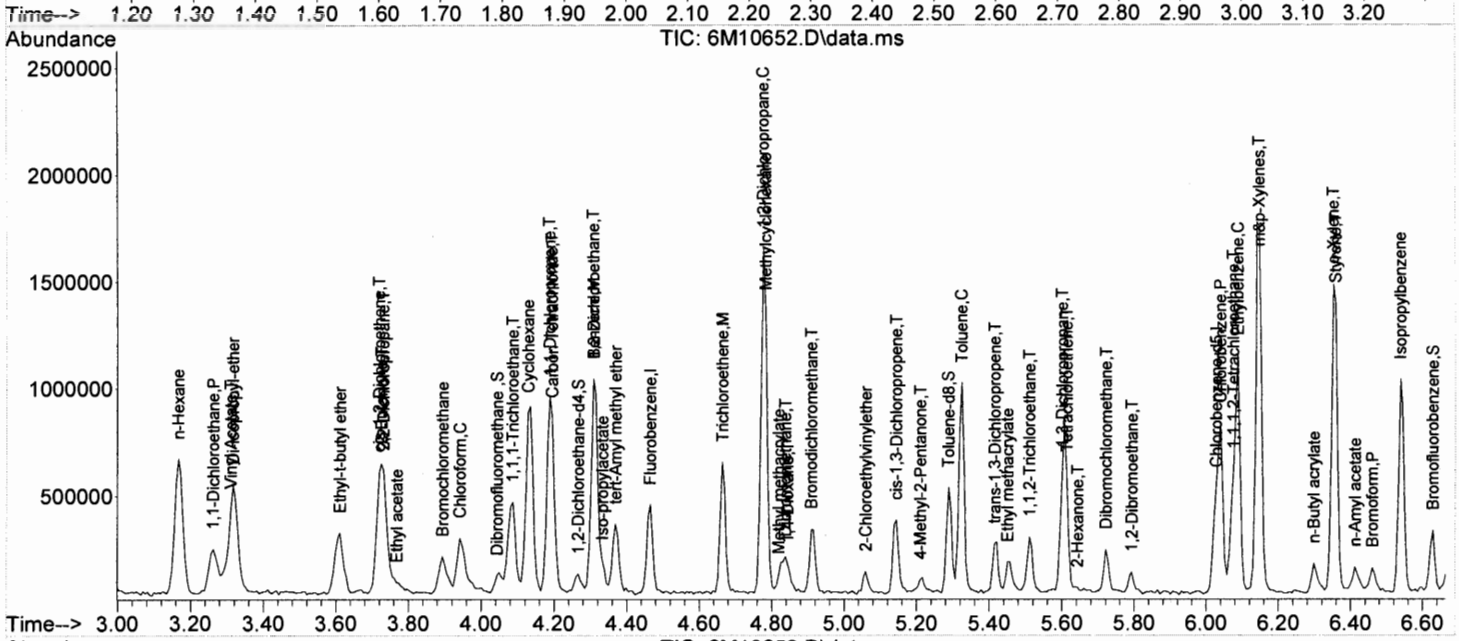
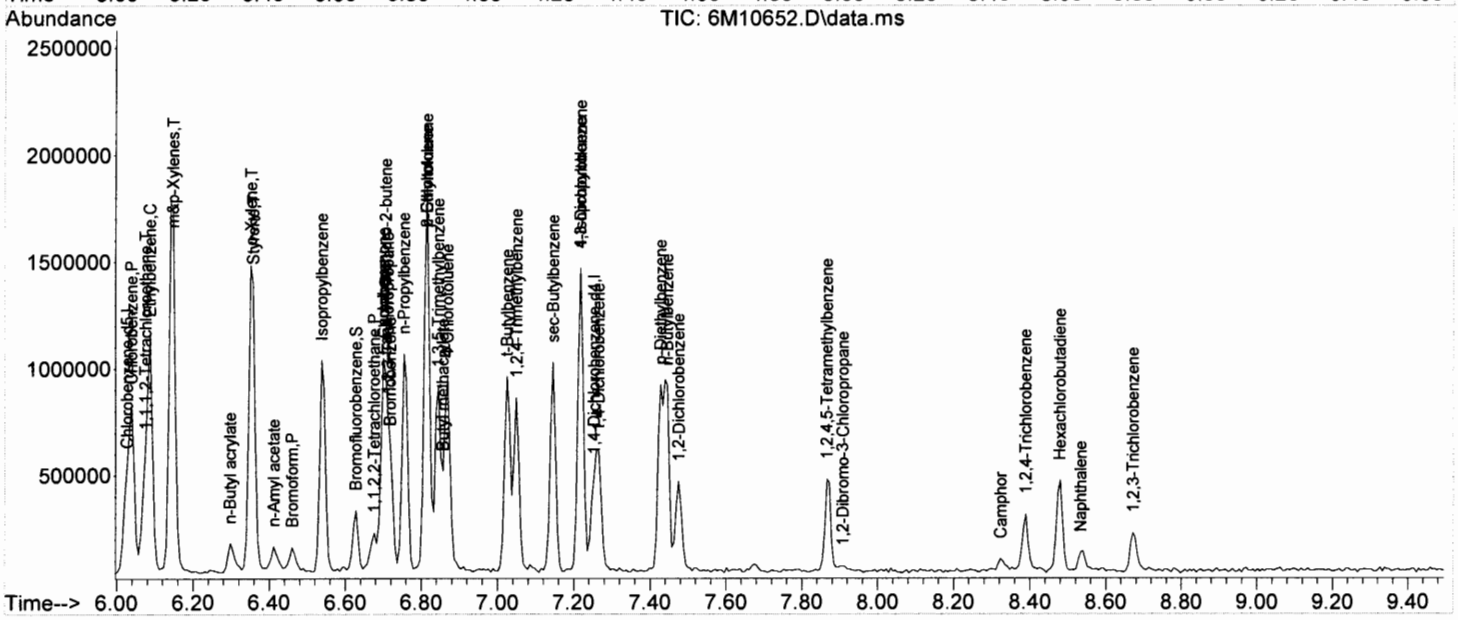
Quant QT Reviewed
SampleID : AC78866-001(MSD)
Data File: 6M10652.D
Acq On : 05/29/14 08:31
Operator : SGG
Sam Mult : 1 Vial# : 9
Misc : S,5G:7
Qt Meth : 6M_S0519.M
Qt On : 05/29/14 10:20
Qt Upd On: 05/20/14 13:55
Abundance
Time-->
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P


TIC: 6M10652.D\data.ms
Abundance
Time-->
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Isopropylacetate
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S


TIC: 6M10652.D\data.ms
Abundance
Time-->
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
n-Propylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Quantitation Report (QT Reviewed)

4052101 0523

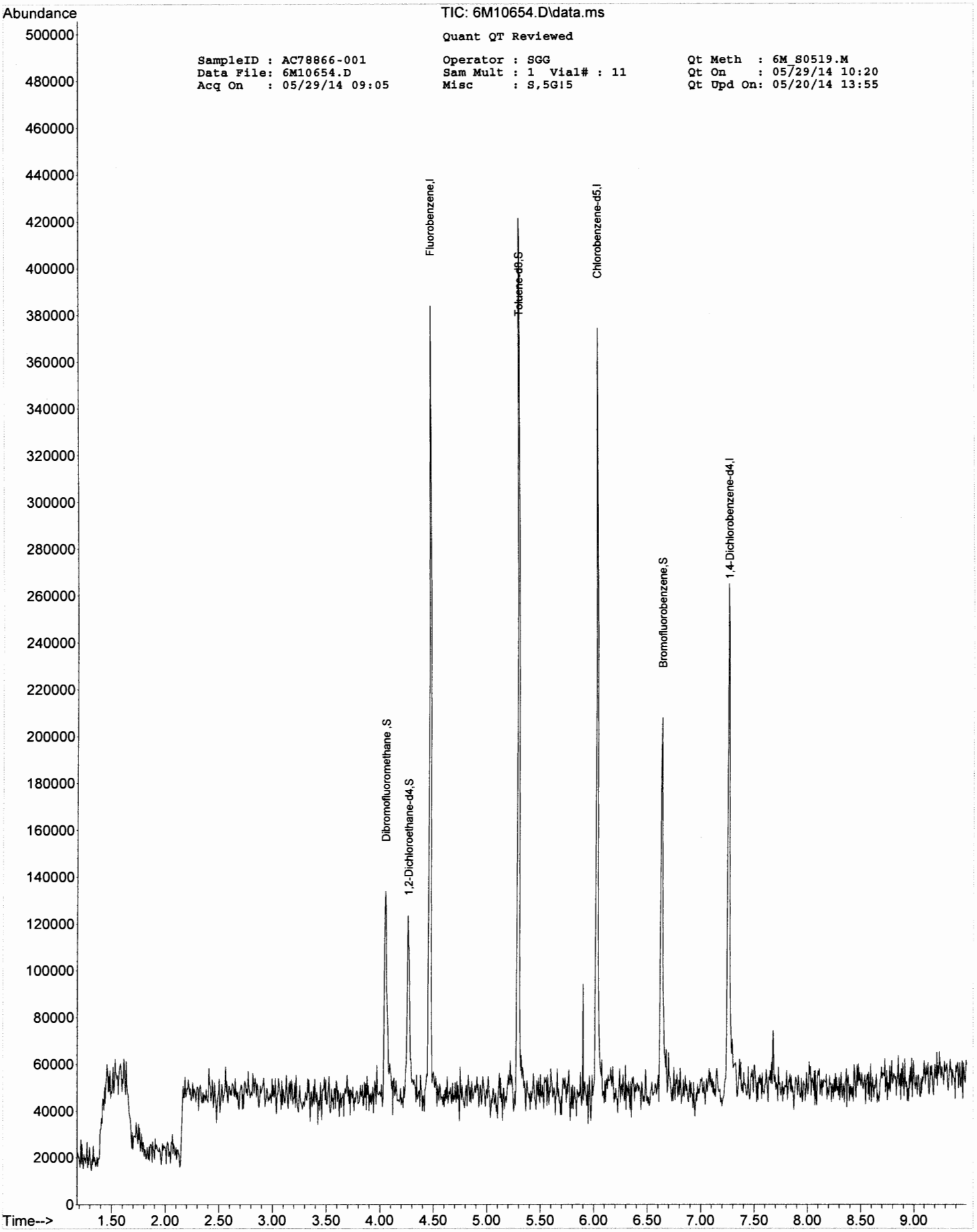
SampleID : AC78866-001 Operator : SGG Qt Meth : 6M_S0519.
Data File: 6M10654.D Sam Mult : 1 Vial# : 11 Qt On : 05/29/14 10:20
Acq On : 05/29/14 09:05 Misc : S,5G!5 Qt Upd On: 05/20/14 13:55

Data Path : G:\GcMsData\2014\GCMS_6\Data\05-29-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.463	96	156233	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.026	117	98429	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	7.258	152	45968	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.048	111	48482	34.48	ug/l	-0.02
Spiked Amount 30.000			Recovery = 114.93%			
39) 1,2-Dichloroethane-d4	4.265	67	20586	30.29	ug/l	-0.02
Spiked Amount 30.000			Recovery = 100.97%			
66) Toluene-d8	5.292	98	145426	28.00	ug/l	-0.01
Spiked Amount 30.000			Recovery = 93.33%			
76) Bromofluorobenzene	6.633	174	32836	29.00	ug/l	-0.01
Spiked Amount 30.000			Recovery = 96.67%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M10654.D\data.ms
Quant QT Reviewed
SampleID : AC78866-001
Data File: 6M10654.D
Acq On : 05/29/14 09:05
Operator : SGG
Sam Mult : 1 Vial# : 11
Misc : S,5G!5
Qt Meth : 6M_S0519.M
Qt On : 05/29/14 10:20
Qt Upd On: 05/20/14 13:55
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

GC/MS Volatile Data
Logbook Data

5/22/14 Hampton-Clarke/Veritech

Volatile Sample Batching – GC/MS 6

5.21.14	5.21.14	5.23.14	5.27.14
Batch #: 35798	Batch #: 35807	Batch #: 35820	Batch #: 35834
MATRIX: Soil	MATRIX: Soil	MATRIX: Soil	MATRIX: Soil
MBS: 6H10406	MBS: 6H10416	MBS: 6H10512	MBS: 6H10552
MS: AC78752.003	MS: AC78747.001	MS: AC78752.001	MS: AC78752.002
MSD: 003	MSD: 001	MSD: 001	MSD: 002
1. AC78671.001	1. AC78696.001	1. AC78813.001	1. AC78778.001
2. 002	2. -002	2. 002	2. 002
3. 003	3. -003	3. 003	3. 003
4. 005	4. -004	4. 004	4. AC78762.004
5. 006	5. -005	5. 005	5. 005
6. 008	6. -006	6. 006	6. AC78744.001
7. 009	7. -007	7. 007	7. 002
8. 010	8. ~~-008~~	8. 008	8. AC78733.001
9. 011	9. AC78747.001	9. 009	9. 003
10. 012	10. AC78677.003	10. 010	10. AC78718.002
11. 013	11. -004	11. 011	11. 004
12. 014	12. AC78658.001	12. 012	12. 006
13. AC78748.001	13. -002	13. 013	13. 008
14. ~~AC78747.001~~	14. AC78500.002	14. 014	14. 010
15. ~~AC78746-003~~ -003	15. AC78761.001	15. 015	15. 012
16. -006	16. AC78680.001	16. AC78822.001	16. AC78742.003
17. AC78752.001	17. -002	17. -002	17. 004
18. .002	18. -003	18. -003	18. 005
19. .003	19. -004	19. -004	19. AC78774.001
20. -004	20. -005	20. -005	20. AC78800.006

5.28.14	5.28.14	5.28.14	5.29.14
Batch #: 35844	Batch #: 35856	Batch #: 35857	Batch #: 35858
MATRIX: Soil	MATRIX: Soil	MATRIX: Soil	MATRIX: Soil
MBS: 6H10597	MBS: 6H10600	MBS: 6H10621	MBS: 6H10650
MS: AC78778.001	MS: AC78778.002	MS: AC78778.003	MS: AC78866.001
MSD: 001	MSD: 002	MSD: 003	MS/MSD: 001
1. AC78769.001	1. AC78848.001	1. AC78790.001	1. AC78866.001
2. .002	2. 002	2. -002	2. -002
3. -003	3. 003	3. AC78780.002	3. AC78787.001
4. -004	4. 005	4. -004	4. 002
5. AC78806.001	5. 006	5. AC78788-004	5. 007
6. -003	6. 009	6. -005	6. 008
7. AC78800.002	7. 010	7. AC78762.002	7. 011
8. -004	8. 011	8. -003	8. 015
9. AC78792.002	9. 012	9. -006	9. 018
10. -004	10. 015	10. -007	10. 019
11. ~~-008~~	11. 016	11. -008	11. 020
12. AC78806.001	12. 017	12. -009	12. 021
13. .002	13. 020	13. AC78873.004	13. 022
14. AC78824.002	14. 023	14. -005	14. 023
15. -004	15. 027	15. AC78854.001	15. 024
16. -006	16. 030	16. 006	16. 025
17. AC78764.004	17. AC78816.002	17. 009	17. 026
18. -005	18. AC78821-001	18. 014	18.
19. AC78871.001	19. -002	19. 017	19.
20. 002	20.	20.	20.

5/24/14 Hampton-Clarke/Veritech

Volatile Sample Batching – GC/MS 13

5.22.14	5.22.14	5.23.14	5.23.14
Batch #: 35810	Batch #: 35814	Batch #: 35817	Batch #: 35822
MATRIX: AQ6	MATRIX: AQ8260	MATRIX: AQ624/8260	MATRIX: AQ624
MBS: 3M51195	MBS: 3M51229	MBS: 3H51243	MBS: 3H51271
MS: AC78734.002	MS: AC78747.001(T)	MS: AC78763.011	MS: AC78732.004
MSD: -002	MSD: -001(T)	MSD: 011	MSD: 004
1. AC78734.001	1. AC78724.001	1. AC78778.004	1. AC78732.001
2. -002	2. AC78848.001	2. -001	2. -002
3. -003	3. -004	3. AC78798.001	3. -003
4. -004	4. -007	4. -002	4. -004
5. -005	5. -010	5. AC78836.001	5. -005
6. -006	6. -014	6. -002	6. -006
7. AC78717.001	7. -018	7. -003	7. -007
8. -003	8. AC78787.003	8. -004	8. -008
9. -005	9. 005	9. -005	9. -009
10. -007	10. 009	10. -006	10. -010
11. -009	11. 011	11. -007	11. -011
12. -011	12. 013	12. -008	12. -012
13. ~~AC78787.003~~	13. 016	13. -009	13. -013
14. ~~005~~	14.	14. -010	14. -014
15. ~~009~~	15.	15. -011	15. -015
16. ~~011~~	16.	16. -012	16. -016
17. ~~013~~	17.	17.	17. AC78847.001
18. ~~016~~	18.	18.	18. -002
19.	19.	19.	19. -003
20.	20.	20.	20. AC78848.001

5.27.14	5.27.14	5.28.14	5.28.14
~~5.23.14~~	~~5.23.14~~		
Batch #: 35830	Batch #: 35831	Batch #: 35855	Batch #: 35859
MATRIX: MeOH	MATRIX: AQ624/8260	MATRIX: AQ624/8260	MATRIX: AQ624
MBS: 3H51301	MBS: 3H51302	MBS: 3H51372	MBS: 3H51414
MS: AC78806.002	MS: AC78825.003	MS: AC78840.002	MS: AC78791.002
MSD: 002	MSD: 003	MSD: 002	MS/MSD: 002
1. AC78800.001	1. AC78846.001	1. AC78840.002	1. AC78810.001
2. -003	2. -002	2.	2. -002
3. -005	3. -003	3.	3. -003
4. ~~-006~~	4. -004	4.	4. -004
5. AC78800-007	5. -005	5.	5. -005
6. AC78792.006	6. AC78843-001	6.	6. -006
7. AC78848.004	7. -002	7.	7. -007
8. 007	8. -003	8.	8. -008
9. 008	9. -004	9.	9. AC78818.001
10. 013	10. -005	10.	10. -002
11. 014	11. -006	11.	11. -003
12. 018	12. -007	12.	12. -004
13. 019	13. -008	13.	13. -005
14. 021	14. -009	14.	14.
15. 022	15. AC78825.003	15.	15.
16. 024	16.	16.	16.
17. 025	17.	17.	17.
18. 026	18.	18.	18.
19. 028	19.	19.	19.
20. 030	20.	20.	20.

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-172965

Prepared By: Batelli, Daniel
Description: Ethyl ether/Furan Mix
Prep Date: 9/13/2013
Expiration Date: 9/13/2014
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: DAN
ApproveDate: 09/18/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5555	Ethyl ether	50 mg	NEAT	5000 ppm
8141	Furan	50 mg	Neat neat	5000 ppm
1230	METHANOL	10 ml	NEAT	

Veritech Lot Number: V-172966

Prepared By: Batelli, Daniel
Description: Ethyl ether/Furan Mix(2nd Source)
Prep Date: 9/13/2013
Expiration Date: 9/13/2014
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: DAN
ApproveDate: 09/18/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5555	Ethyl ether	50 mg	NEAT	5000 ppm
8141	Furan	50 mg	Neat neat	5000 ppm
1230	METHANOL	10 ml	NEAT	

Veritech Lot Number: V-172993

Prepared By: Batelli, Daniel
Description: VOA STOCK INT/SURR MIX
Prep Date: 9/19/2013
Expiration Date: 8/31/2014
Department: Organics
BatchNumber:
Concentration: 1500 ppm
Final Volume: 100 ml
ApprovedBy: DAN
ApproveDate: 09/19/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
6948	1,4-Dichlorobenzene(D4)	150 mg	neat neat	1500 ppm
1297	TOLUENE-D8	150 mg	NEAT	1500 ppm
8033	Fluorobenzene	150 mg	NEAT neat	1500 ppm
5769	Dibromofluoromethane	150 mg	NEAT	1500 ppm
8047	Chlorobenzene-d5	150 mg	NEAT neat	1500 ppm
8034	1,2-Dichloroethane-d4	150 mg	NEAT neat	1500 ppm
7966	Methanol	100 ml	neat neat	
5746	4-BROMOFLUOROBENZENE(1-BROMO-4-FLUOROBEN	150 mg	NEAT	1500 ppm

Veritech Lot Number: V-179161

Prepared By: Hamid, Akmal
Description: VOA ADD MIX
Prep Date: 12/30/2013
Expiration Date: 7/31/2014
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 01/20/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
2889	1,2,4,5-TETRAMETHYLBENZENE	50 mg	NEAT	5000 ppm
7554	p-Diethylbenzene	50 mg	Neat neat	5000 ppm
5533	p-Ethyltoluene	50 mg	Neat neat	5000 ppm
5531	Cyclohexanone	250 mg	Neat neat	25000 ppm
8315	Methanol		neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-182113

Prepared By: Previlon, Wilner
Description: VOA WORKING INT/SURR MIX
Prep Date: 2/27/2014
Expiration Date: 8/31/2014
Department: Organics
BatchNumber:
Concentration: 150 ppm
Final Volume: 250 ml
ApprovedBy: jean
ApproveDate: 03/03/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7966	Methanol	225 ml	neat neat	
V-172993	VOA STOCK INT/SURR MIX	25 ml	1500 ppm	150 ppm

Veritech Lot Number: V-183755

Prepared By: Goring, Shawn
Description: BFB Tune Mix
Prep Date: 3/18/2014
Expiration Date: 8/31/2014
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1.5 ml
ApprovedBy: jean
ApproveDate: 03/25/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-182113	VOA WORKING INT/SURR MIX	500 ul	150 ppm	50 ppm
1230	METHANOL	1000 ul	NEAT	

Veritech Lot Number: V-184432

Prepared By: Revolus, Jean
Description: Voa Extra Add Mix
Prep Date: 3/26/2014
Expiration Date: 6/30/2014
Department: Organics
BatchNumber:
Concentration: 2000-20000 p
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 04/02/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5101	Methyl methacrylate	20 mg	Neat	2000 ppm
7781	Ethyl methacrylate	20 mg	NEAT neat	2000 ppm
7780	Butyl methacrylate	20 mg	NEAT neat	2000 ppm
5098	n-Butyl acrylate	20 mg	Neat	2000 ppm
5097	n-Amyl acetate	20 mg	Neat	2000 ppm
5096	Iso-propyl acetate	20 mg	Neat	2000 ppm
5095	Ethyl acetate	20 mg	Neat	2000 ppm
7773	Methanol	10 ml	neat neat	
5013	d-Camphor	200 mg	NEAT	20000 ppm
5014	Camphene	20 mg	NEAT	2000 ppm

Veritech Lot Number: V-184443

Prepared By: Revolus, Jean
Description: Voa Extra Add Mix(2nd Source)
Prep Date: 3/26/2014
Expiration Date: 6/30/2014
Department: Organics
BatchNumber:
Concentration: 2000-20000 p
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 04/02/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5101	Methyl methacrylate	20 mg	Neat	2000 ppm
7781	Ethyl methacrylate	20 mg	NEAT neat	2000 ppm
7780	Butyl methacrylate	20 mg	NEAT neat	2000 ppm
5098	n-Butyl acrylate	20 mg	Neat	2000 ppm
5097	n-Amyl acetate	20 mg	Neat	2000 ppm
5096	Iso-propyl acetate	20 mg	Neat	2000 ppm
5095	Ethyl acetate	20 mg	Neat	2000 ppm
7773	Methanol	10 ml	neat neat	
5013	d-Camphor	200 mg	NEAT	20000 ppm
5014	Camphene	20 mg	NEAT	2000 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-185120

Prepared By: Goring, Shawn
Description: 200ppm VOA Working Std
Prep Date: 4/15/2014
Expiration Date: 6/30/2014
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: jean
ApproveDate: 04/15/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
1230	METHANOL	220 ul	NEAT	neat
8203	Gases	100 ul	2000 ppm	200 ppm
8531	502/524 VOA CAL MIX	100 ul	2000 ppm	200 ppm
8530	8260 ADDITIONS(CAL MIX2)	100 ul	2000 ppm	200 ppm
8565	CUSTOM VOC STANDARD	100 ul	VARIOUS	various ppm
8211	tert-Amyl methyl ether	100 ul	2000 ppm	200 ppm
V-179161	VOA ADD MIX	40 ul	5000 ppm	various ppm
V-172965	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
V-184432	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
8245	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Lot Number: V-185121

Prepared By: Goring, Shawn
Description: MBS
Prep Date: 4/15/2014
Expiration Date: 5/31/2014
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: jean
ApproveDate: 04/15/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
1230	METHANOL	610 ul	NEAT	neat neat
8192	Gases	50 ul	2000 ppm	100 ppm
8202	502/524 MegaMix	50 ul	2000 ppm	100 ppm
7433	SS 8260 Cal Mix 2	50 ul	2000 ppm	100 ppm
8569	CUSTOM VOC STANDARD(2nd Source)	50 ul	VARIOUS	various ppm
7936	tert-Amyl methyl ether	50 ul	2000 ppm	100 ppm
V-179161	VOA ADD MIX	20 ul	5000 ppm	various ppm
V-184443	Voa Extra Add Mix(2nd Source)	50 ul	2000-20000 p	100-1000 pp
V-172966	Ethyl ether/Furan Mix(2nd Source)	20 ul	5000 ppm	100 ppm
7563	Ethyl-tert-Butyl Ether	50 ul	2000 ppm	100 ppm

Veritech Lot Number: V-186272

Prepared By: Goring, Shawn
Description: 200ppm VOA Working Std
Prep Date: 5/5/2014
Expiration Date: 6/30/2014
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: jean
ApproveDate: 05/08/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
1230	METHANOL	220 ul	NEAT	neat
8203	Gases	100 ul	2000 ppm	200 ppm
8531	502/524 VOA CAL MIX	100 ul	2000 ppm	200 ppm
8530	8260 ADDITIONS(CAL MIX2)	100 ul	2000 ppm	200 ppm
8565	CUSTOM VOC STANDARD	100 ul	VARIOUS	various ppm
8211	tert-Amyl methyl ether	100 ul	2000 ppm	200 ppm
V-179161	VOA ADD MIX	40 ul	5000 ppm	various ppm
V-172965	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
V-184432	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
8245	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-186273

Prepared By: Goring, Shawn
Description: MBS
Prep Date: 5/5/2014
Expiration Date: 6/30/2014
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: jean
ApproveDate: 05/08/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
1230	METHANOL	610 ul	NEAT	neat neat
8192	Gases	50 ul	2000 ppm	100 ppm
8202	502/524 MegaMix	50 ul	2000 ppm	100 ppm
8650	ss 8260 Cal.Mix 2	50 ul	2000 ppm	100 ppm
8569	CUSTOM VOC STANDARD(2nd Source)	50 ul	VARIOUS	various ppm
7936	tert-Amyl methyl ether	50 ul	2000 ppm	100 ppm
V-179161	VOA ADD MIX	20 ul	5000 ppm	various ppm
V-184443	Voa Extra Add Mix(2nd Source)	50 ul	2000-20000 p	100-1000 pp
V-172966	Ethyl ether/Furan Mix(2nd Source)	20 ul	5000 ppm	100 ppm
7563	Ethyl-tert-Butyl Ether	50 ul	2000 ppm	100 ppm

Veritech Lot Number: V-187090

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 500 PPB
Prep Date: 5/19/2014
Expiration Date: 5/20/2014
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 40 ml
ApprovedBy: jean
ApproveDate: 05/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-185120	200ppm VOA Working Std	100 ul	VARIOUS pp	500 ppb
5381	P&T Water	40 ml	Neat neat	neat
8197	Chlorodifluoromethane	100 ul	200 ppm	500 ppb

Veritech Lot Number: V-187091

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 250 PPB
Prep Date: 5/19/2014
Expiration Date: 5/20/2014
Department: Organics
BatchNumber: B-17394
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: jean
ApproveDate: 05/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5381	P&T Water	2.5 ml	Neat neat	
V-187090	Soil8260 CAL @ 500 PPB	2.5 ml	VARIOUS pp	250 ppb

Veritech Lot Number: V-187092

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 100 PPB
Prep Date: 5/19/2014
Expiration Date: 5/20/2014
Department: Organics
BatchNumber: B-17394
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: jean
ApproveDate: 05/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5381	P&T Water	4 ml	Neat neat	
V-187090	Soil8260 CAL @ 500 PPB	1 ml	VARIOUS pp	100 ppb

Veritech Lot Number: V-187093

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 50 PPB
Prep Date: 5/19/2014
Expiration Date: 5/20/2014
Department: Organics
BatchNumber: B-17394
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: jean
ApproveDate: 05/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5381	P&T Water	4.5 ml	Neat neat	
V-187090	Soil8260 CAL @ 500 PPB	.5 ml	VARIOUS pp	50 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187094

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 20 PPB
Prep Date: 5/19/2014
Expiration Date: 5/20/2014
Department: Organics
BatchNumber: B-17394
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: jean
ApproveDate: 05/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5381	P&T Water	4.8 ml	Neat neat	
V-187090	Soil8260 CAL @ 500 PPB	.2 ml	VARIOUS pp	20 ppb

Veritech Lot Number: V-187095

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 2 PPB
Prep Date: 5/19/2014
Expiration Date: 5/20/2014
Department: Organics
BatchNumber: B-17394
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: jean
ApproveDate: 05/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5381	P&T Water	4.98 ml	Neat neat	
V-187090	Soil8260 CAL @ 500 PPB	20 ul	VARIOUS pp	2 ppb

Veritech Lot Number: V-187096

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 5 PPB
Prep Date: 5/19/2014
Expiration Date: 5/20/2014
Department: Organics
BatchNumber: B-17394
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: jean
ApproveDate: 05/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5381	P&T Water	4.95 ml	Neat neat	
V-187090	Soil8260 CAL @ 500 PPB	.05 ml	VARIOUS pp	5 ppb

Veritech Lot Number: V-187097

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 1 PPB
Prep Date: 5/19/2014
Expiration Date: 5/20/2014
Department: Organics
BatchNumber: B-17394
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: jean
ApproveDate: 05/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5381	P&T Water	4.99 ml	Neat neat	
V-187090	Soil8260 CAL @ 500 PPB	.01 ml	VARIOUS pp	1 ppb

Veritech Lot Number: V-187098

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 500 PPB
Prep Date: 5/19/2014
Expiration Date: 5/20/2014
Department: Organics
BatchNumber: B-17394
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: jean
ApproveDate: 05/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187090	Soil8260 CAL @ 500 PPB	5 ml	VARIOUS pp	500 ppb

Veritech Lot Number: V-187099

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 0.5 PPB
Prep Date: 5/19/2014
Expiration Date: 5/20/2014
Department: Organics
BatchNumber: B-17394
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: jean
ApproveDate: 05/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5381	P&T Water	4.995 ml	Neat neat	
V-187090	Soil8260 CAL @ 500 PPB	.005 ml	VARIOUS pp	0.5 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187100

Prepared By: Previlon, Wilner
Description: ICV CAL @ 50 PPB
Prep Date: 5/19/2014
Expiration Date: 5/20/2014
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: jean
ApproveDate: 05/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5381	P&T Water	5 ml	Neat neat	
V-185121	MBS	2.5 ul	100 ppm	50 ppb
8197	Chlorodifluoromethane	1.25 ul	200 ppm	50 ppb

Veritech Lot Number: V-187282

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 250 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber: B-17408
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	125 ul	VARIOUS pp	250 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	125 ul	200 ppm	250 ppb

Veritech Lot Number: V-187283

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 100 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber: B-17408
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	50 ul	VARIOUS pp	100 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	50 ul	200 ppm	100 ppb

Veritech Lot Number: V-187284

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 50 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber: B-17408
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	25 ul	VARIOUS pp	50 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	25 ul	200 ppm	50 ppb

Veritech Lot Number: V-187285

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 20 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber: B-17408
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187286

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 10 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber: B-17408
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	5 ul	VARIOUS pp	10 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	5 ul	200 ppm	10 ppb

Veritech Lot Number: V-187287

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 5 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber: B-17408
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	2.5 ul	VARIOUS pp	5 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	2.5 ul	200 ppm	5 ppb

Veritech Lot Number: V-187288

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 1 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber: B-17408
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	.5 ul	VARIOUS pp	1 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	.5 ul	200 ppm	1 ppb

Veritech Lot Number: V-187289

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 0.5 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber: B-17408
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	.25 ul	VARIOUS pp	0.5 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	.25 ul	200 ppm	0.5 ppb

Veritech Lot Number: V-187290

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 500 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber: B-17408
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	250 ul	VARIOUS pp	500 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	250 ul	200 ppm	500 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187291

Prepared By: Previlon, Wilner
Description: ICV CAL @ 20 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186273	MBS	10 ul	100 ppm	20 ppb
5381	P&T Water	100 ml	Neat neat	neat
8197	Chlorodifluoromethane	20 ul	200 ppm	20 ppb

Veritech Lot Number: V-187353

Prepared By: Previlon, Wilner
Description: CAL @ 20 PPB
Prep Date: 5/22/2014
Expiration Date: 5/29/2014
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
5381	P&T Water	100 ml	Neat neat	
7414	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-187434

Prepared By: Previlon, Wilner
Description: CAL @ 20 PPB
Prep Date: 5/23/2014
Expiration Date: 5/30/2014
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
5381	P&T Water	100 ml	Neat neat	
7414	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-187482

Prepared By: Goring, Shawn
Description: CAL @ 50 PPB
Prep Date: 5/23/2014
Expiration Date: 5/24/2014
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: jean
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	1.25 ul	VARIOUS pp	50 ppb
5381	P&T Water	5 ml	Neat neat	
6992	Chlorodifluoromethane	1.25 ul	200 ppm	50 ppb

Veritech Lot Number: V-187541

Prepared By: Goring, Shawn
Description: CAL @ 50 PPB
Prep Date: 5/28/2014
Expiration Date: 5/29/2014
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: jean
ApproveDate: 05/29/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	1.25 ul	VARIOUS pp	50 ppb
5381	P&T Water	5 ml	Neat neat	
6992	Chlorodifluoromethane	1.25 ul	200 ppm	50 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187603

Prepared By:	Goring, Shawn	Department:	Organics	ApprovedBy:	jean
Description:	CAL @ 50 PPB	BatchNumber:		ApproveDate:	06/02/14
Prep Date:	5/29/2014	Concentration:	VARIOUS ppb	Checked:	Yes
Expiration Date:	5/30/2014	Final Volume:	5 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	1.25 ul	VARIOUS pp	50 ppb
5381	P&T Water	5 ml	Neat neat	
6992	Chlorodifluoromethane	1.25 ul	200 ppm	50 ppb

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 1230

Description
METHANOL

ApprovedBy: jean
ApproveDate: 07/30/09
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
FISHER	A453-1	045850	06/22/05	06/22/15	Revolus, Jean	36	1L	NEAT	

Veritech Control/Receipt Number: 1297

Description
TOLUENE-D8

ApprovedBy: jean
ApproveDate: 07/30/09
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SIGMA-ALDRICH	434388-5G	02504HB	09/06/05	09/30/15	Revolus, Jean	1	5g	NEAT	

Veritech Control/Receipt Number: 2889

Description
1,2,4,5-TETRAMETHYLBENZENE

ApprovedBy: jean
ApproveDate: 07/30/09
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACROS ORGANI	409390050	A0214190	11/20/07	11/30/20	Revolus, Jean	1	1ML	NEAT	

Veritech Control/Receipt Number: 5013

Description
d-Camphor

ApprovedBy: jean
ApproveDate: 06/29/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	F2404	402-140B	06/21/10	06/30/14	Revolus, Jean	1	2g	NEAT	

Veritech Control/Receipt Number: 5014

Description
Camphene

ApprovedBy: jean
ApproveDate: 06/29/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	O-747	419-138A	06/21/10	03/31/15	Revolus, Jean	1	2g	NEAT	

Veritech Control/Receipt Number: 5095

Description
Ethyl acetate

ApprovedBy: jean
ApproveDate: 07/26/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	O-412	433-138B	07/26/10	03/31/15	Revolus, Jean	1	1g	Neat	

Veritech Control/Receipt Number: 5096

Description
Iso-propyl acetate

ApprovedBy: jean
ApproveDate: 07/26/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	F2536	428-14A	07/26/10	07/31/14	Revolus, Jean	1	5g	Neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 5097

Description
n-Amyl acetate

ApprovedBy: jean
ApproveDate: 07/26/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	o-2003	414-70B	07/26/10	11/30/14	Revolus, Jean	1	5g	Neat	

Veritech Control/Receipt Number: 5098

Description
n-Butyl acrylate

ApprovedBy: jean
ApproveDate: 07/26/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	O-1004	409-80A	07/26/10	09/30/14	Revolus, Jean	1	10g	Neat	

Veritech Control/Receipt Number: 5101

Description
Methyl methacrylate

ApprovedBy: jean
ApproveDate: 07/26/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	F982	422-28B	07/26/10	04/30/15	Revolus, Jean	1	5g	Neat	

Veritech Control/Receipt Number: 5381

Description
P&T Water

ApprovedBy: DAN
ApproveDate: 10/27/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Veritech	N/A	N/A	10/01/10	10/01/15	Batelli, Daniel	1	N/A	Neat	Neat

Veritech Control/Receipt Number: 5531

Description
Cyclohexanone

ApprovedBy: DAN
ApproveDate: 01/07/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	F2326	428-78B	12/28/10	07/31/14	Batelli, Daniel	1	5g	Neat	Neat

Veritech Control/Receipt Number: 5533

Description
p-Ethyltoluene

ApprovedBy: DAN
ApproveDate: 01/07/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	O-2413	453-143B	12/28/10	12/31/15	Batelli, Daniel	1	1g	Neat	Neat

Veritech Control/Receipt Number: 5555

Description
Ethyl ether

ApprovedBy: jean
ApproveDate: 01/19/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	O-569	444-37B	01/18/11	03/31/15	Revolus, Jean	1	2g	NEAT	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 5746

Description
4-BROMOFLUOROBENZENE(1-BROMO-4-FLUOROBENE

ApprovedBy: jean
ApproveDate: 03/15/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	F833	426-67B	03/09/11	08/31/14	Revolus, Jean	1	5g	NEAT	

Veritech Control/Receipt Number: 5769

Description
Dibromofluoromethane

ApprovedBy: akmal
ApproveDate: 03/24/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30634	A069728	03/21/11	08/31/14	Revolus, Jean	4	100 m	NEAT	

Veritech Control/Receipt Number: 6948

Description
1,4-Dichlorobenzene(D4)

ApprovedBy: akmal
ApproveDate: 04/23/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM-268-0	PR-18488/07257CB2	04/19/12	04/19/20	Hamid, Akmal	1	5g	neat	neat

Veritech Control/Receipt Number: 6992

Description
Chlorodifluoromethane

ApprovedBy: dan
ApproveDate: 05/03/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Accustandard	ALR-CFC-003S-2X	211111240	05/03/12	11/17/21	Batelli, Daniel	10	1mL	200	ppm

Veritech Control/Receipt Number: 7414

Description
Chlorodifluoromethane

ApprovedBy: DAN
ApproveDate: 11/05/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Accustandard	ALR-CFC-003S-2X	211111240	10/23/12	11/17/21	Batelli, Daniel	30	1mL	200	ppm

Veritech Control/Receipt Number: 7433

Description
SS 8260 Cal Mix 2

ApprovedBy: DAN
ApproveDate: 11/05/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4S6831-U	LB91881	10/29/13	05/31/14	Batelli, Daniel	3	1mL	2000	ppm

Veritech Control/Receipt Number: 7554

Description
p-Diethylbenzene

ApprovedBy: dan
ApproveDate: 01/02/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	O-2296	1132000	12/31/13	12/31/16	Batelli, Daniel	1	100m	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7563

Description
Ethyl-tert-Butyl Ether

ApprovedBy: dan
ApproveDate: 01/04/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	30628	A088495	01/02/13	05/31/17	Batelli, Daniel	2	1mL	2000	ppm

Veritech Control/Receipt Number: 7773

Description
Methanol

ApprovedBy: jean
ApproveDate: 04/17/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Spectrum	PT705	2BL0039	03/12/13	03/11/23	Lopez, Jose	30	1L	neat	neat

Veritech Control/Receipt Number: 7780

Description
Butyl methacrylate

ApprovedBy: dan
ApproveDate: 03/13/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-11371-1G	605200	03/13/13	01/30/16	Batelli, Daniel	1	1g	NEAT	NEAT

Veritech Control/Receipt Number: 7781

Description
Ethyl methacrylate

ApprovedBy: dan
ApproveDate: 03/13/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-11903-5G	1188000	03/13/13	01/31/17	Batelli, Daniel	1	5g	NEAT	NEAT

Veritech Control/Receipt Number: 7936

Description
tert-Amyl methyl ether

ApprovedBy: dan
ApproveDate: 05/31/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	506737	A078931	05/20/13	01/31/16	Batelli, Daniel	3	1mL	2000	ppm

Veritech Control/Receipt Number: 7966

Description
Methanol

ApprovedBy: jean
ApproveDate: 06/20/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
spectrum	PT705-02	2CE0318	06/19/13	06/18/18	Lopez, Jose	30	1L	neat	neat

Veritech Control/Receipt Number: 8033

Description
Fluorobenzene

ApprovedBy: dan
ApproveDate: 08/01/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	F839	1361700	07/30/13	03/31/19	Batelli, Daniel	1	2g	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8034

Description
1,2-Dichloroethane-d4

ApprovedBy: dan
ApproveDate: 08/01/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2228	LB98031V	07/30/13	02/29/16	Batelli, Daniel	1	1000	NEAT	NEAT

Veritech Control/Receipt Number: 8047

Description
Chlorobenzene-d5

ApprovedBy: dan
ApproveDate: 08/13/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2517	LC00086V	08/09/13	07/31/16	Batelli, Daniel	1	500m	NEAT	NEAT

Veritech Control/Receipt Number: 8141

Description
Furan

ApprovedBy: DAN
ApproveDate: 09/18/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-12101-10G	1927800	09/13/13	09/30/16	Batelli, Daniel	1	10g	Neat	Neat

Veritech Control/Receipt Number: 8192

Description
Gases

ApprovedBy: dan
ApproveDate: 10/11/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	48799-U	LCS00573	10/10/13	07/18/14	Batelli, Daniel	4	1mL	2000	ppm

Veritech Control/Receipt Number: 8197

Description
Chlorodifluoromethane

ApprovedBy: dan
ApproveDate: 10/11/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Accustandard	M-REF-03	211111240	10/10/13	11/17/21	Batelli, Daniel	30	1mL	200	ppm

Veritech Control/Receipt Number: 8202

Description
502/524 MegaMix

ApprovedBy: DAN
ApproveDate: 10/11/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	30431	A094950	10/10/13	04/30/15	Batelli, Daniel	3	1mL	2000	ppm

Veritech Control/Receipt Number: 8203

Description
Gases

ApprovedBy: jean
ApproveDate: 01/09/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	30042	A095831	10/10/13	02/29/20	Batelli, Daniel	4	1mL	2000	ppm

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8211

Description
tert-Amyl methyl ether

ApprovedBy: jean
ApproveDate: 01/09/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	5-06737	LB86221	10/15/13	07/31/14	Batelli, Daniel	4	1mL	2000	ppm

Veritech Control/Receipt Number: 8245

Description
Ethyl-tert-Butyl Ether(ETBE)

ApprovedBy: jean
ApproveDate: 01/09/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30628	A098786	10/31/13	10/31/18	Revolus, Jean	4	1ml	2000	PPM

Veritech Control/Receipt Number: 8315

Description
Methanol

ApprovedBy: jean
ApproveDate: 01/09/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Spectrum	PT705	2CH0087	12/04/13	07/27/15	Lopez, Jose	48	1L	neat	neat

Veritech Control/Receipt Number: 8530

Description
8260 ADDITIONS(CAL MIX2)

ApprovedBy: jean
ApproveDate: 02/28/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SUPELCO	46831-U	LC02539	02/28/14	07/31/16	Revolus, Jean	4	1ml	2000	PPM

Veritech Control/Receipt Number: 8531

Description
502/524 VOA CAL MIX

ApprovedBy: jean
ApproveDate: 02/28/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SUPELCO	5-02111	LC03979	02/28/14	10/31/15	Revolus, Jean	2	1ml	2000	PPM

Veritech Control/Receipt Number: 8565

Description
CUSTOM VOC STANDARD

ApprovedBy: jean
ApproveDate: 04/22/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	S-16418	214031149	03/18/14	09/14/14	Revolus, Jean	5	1ml	VARIOU	

Veritech Control/Receipt Number: 8569

Description
CUSTOM VOC STANDARD(2nd Source)

ApprovedBy: jean
ApproveDate: 04/22/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	S-16418	214031157	03/18/14	09/14/14	Revolus, Jean	5	1ml	VARIOU	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8650

Description
ss 8260 Cal.Mix 2

ApprovedBy: jean
ApproveDate: 04/22/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4S6831-U	LC01014	04/16/14	07/31/15	Hamid, Akmal	4	1ml	2000	PPM

1-1-6M10285

RUN LOG

Instrument: GCMS_6 Year: 2014

4052101 0544

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6M10285.D	BFB TUNE		V-182113,V-183755,V-186273	WP 05/20/14						05/19 10:25
6M10286.D	BLK	CnBnfAnc	-	WP 05/20/14		Aqueous	1	1	624\826	05/19 10:35
6M10287.D	BLK	CnS6S8BnfAnc	-	WP 05/20/14		Aqueous	1	1	624\826	05/19 10:52
6M10288.D	CAL @ 0.5 PPB		B-17394	WP 05/20/14		Soil	1	1	624\826	05/19 11:09
6M10289.D	CAL @ 1 PPB		B-17394	WP 05/20/14		Soil	1	1	624\826	05/19 11:25
6M10290.D	2 PPB	S8AoRo	-	WP 05/20/14		Soil	1	1	8260C	05/19 11:42
6M10291.D	5 PPB		-	WP 05/20/14		Soil	1	1	8260C	05/19 12:01
6M10292.D	20 PPB	S8Ao	-	WP 05/20/14		Soil	1	1	8260C	05/19 12:18
6M10293.D	CAL @ 50 PPB		B-17394	WP 05/20/14		Soil	1	1	624\826	05/19 12:34
6M10294.D	CAL @ 100 PPB		B-17394	WP 05/20/14		Soil	1	1	624\826	05/19 12:51
6M10295.D	BLK	Is	-	WP 05/20/14		Soil	1	1	8260C	05/19 13:08
6M10296.D	CAL @ 250 PPB		B-17394	WP 05/20/14		Soil	1	1	624\826	05/19 13:24
6M10297.D	BLK		-	WP 05/20/14		Soil	1	1	8260C	05/19 13:43
6M10298.D	CAL @ 500 PPB		B-17394	WP 05/20/14		Soil	1	1	624\826	05/19 13:59
6M10299.D	BLK		-	WP 05/20/14		Soil	1	1	8260C	05/19 14:16
6M10300.D	BLK		-	WP 05/20/14		Soil	1	1	8260C	05/19 14:33
6M10301.D	BLK		-	WP 05/20/14		Soil	1	1	8260C	05/19 14:52
6M10302.D	CAL @ 2 PPB		B-17394	WP 05/20/14		Soil	1	1	624\826	05/19 15:09
6M10303.D	CAL @ 5 PPB		B-17394	WP 05/20/14		Soil	1	1	624\826	05/19 15:26
6M10304.D	CAL @ 20 PPB		B-17394	WP 05/20/14		Soil	1	1	624\826	05/19 15:42
6M10305.D	ICV	Sd	V-187100	WP 05/20/14		Soil	2.5	1	8260C	05/19 15:59
6M10306.D	BLK	Sd	-	WP 05/20/14		Soil	2.5	1	8260C	05/19 16:16
6M10307.D	DAILY BLANK		OK	WP 05/19/14		Soil	1	1	8260C	05/19 16:33
6M10308.D	AC78623-010		OK	WP 05/19/14	VO-8260	Soil	1	1	8260C	05/19 16:50
6M10309.D	AC78682-003	S8Ocf	-	WP 05/20/14	VO-8260	Soil	1	1	8260C	05/19 17:06
6M10310.D	MBS35788		OK MBS35788	WP 05/20/14		Soil	1	1	8260C	05/19 17:23
6M10311.D	BLK		-	WP 05/20/14		Soil	1	1	8260C	05/19 17:40
6M10312.D	AC78682-003	S8AoOcf	RR-1G	WP 05/20/14	VO-8260	Soil	1	1	8260C	05/19 17:56
6M10313.D	AC78741-002		RR-5G	WP 05/20/14	VO-8260	Soil	1	1	8260C	05/19 18:13
6M10314.D	AC78741-003		OK	WP 05/20/14	VO-8260	Soil	1	1	8260C	05/19 18:29
6M10315.D	AC78741-004		OK	WP 05/20/14	VO15-8260	Soil	1	1	8260C	05/19 18:46
6M10316.D	AC78741-005		OK	WP 05/20/14	VO-8260	Soil	1	1	8260C	05/19 19:02
6M10317.D	AC78741-006		OK	WP 05/20/14	VO15-8260	Soil	1	1	8260C	05/19 19:19
6M10318.D	AC78741-007		OK	WP 05/20/14	VO15-8260	Soil	1	1	8260C	05/19 19:35
6M10319.D	AC78741-008		OK	WP 05/20/14	VO-8260	Soil	1	1	8260C	05/19 19:52
6M10320.D	AC78741-001		OK	WP 05/20/14	VO-8260	Soil	1	1	8260C	05/19 20:09
6M10321.D	AC78679-002		OK	WP 05/20/14	VO15-8260	Soil	1	1	8260C	05/19 20:25
6M10322.D	AC78677-004		OK	WP 05/20/14	VO15-8260	Soil	1	1	8260C	05/19 20:42
6M10323.D	AC78677-003		OK	WP 05/20/14	VO15-8260	Soil	1	1	8260C	05/19 20:58
6M10324.D	AC78671-005		OK	WP 05/20/14	VO-8260	Soil	1	1	8260C	05/19 21:15
6M10325.D	AC78694-001		RR-5G,possible tic	WP 05/20/14	VO10-8260	Soil	1	1	8260C	05/19 21:31
6M10326.D	STD		-	WP 05/20/14		Soil	1	1	8260C	05/19 21:48
6M10327.D	BLK		-	WP 05/20/14		Soil	1	1	8260C	05/19 22:05
6M10328.D	BLK		-	WP 05/20/14		Soil	1	1	8260C	05/19 22:21
6M10329.D	BLK	Ti8	-	WP 05/20/14		Soil	1	1	8260C	05/19 22:38
6M10330.D	BLK	Ti8	-	WP 05/20/14		Soil	1	1	8260C	05/19 22:54
6M10331.D	BLK	Ti8	-	WP 05/20/14		Soil	1	1	8260C	05/19 23:11

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Ftn	Tcln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for enb
B8m	Blank 8000 series missing	Fto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evm	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Pmb with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning..Ini cal file <> method.	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-3M51153

RUN LOG

Instrument: GCMS_3 Year: 2014

4052101 0545

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3M51153.D	BFB TUNE		V-182113,V183755,V186273	WP 05/22/14						05/21 10:44
3M51154.D	BLK	CnS6S8BnfAnc	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 10:56
3M51155.D	20 PPB	CnS6S8BnfAnc	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 11:13
3M51156.D	20 PPB	CnS6S8BnfAnc	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 11:29
3M51157.D	BLK	CnS6S8BnfAnc	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 11:45
3M51159.D	CAL @ 0.5 PPB		B17408	WP 05/22/14		Aqueous	1	1	624\826	05/21 12:22
3M51160.D	CAL @ 1 PPB		B17408	WP 05/22/14		Aqueous	1	1	624\826	05/21 12:38
3M51161.D	CAL @ 5 PPB		B17408	WP 05/22/14		Aqueous	1	1	624\826	05/21 12:54
3M51162.D	CAL @ 10 PPB		B17408	WP 05/22/14		Aqueous	1	1	624\826	05/21 13:10
3M51163.D	CAL @ 20 PPB		B17408	WP 05/22/14		Aqueous	1	1	624\826	05/21 13:26
3M51164.D	BLK	IsBnf	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 13:42
3M51165.D	CAL @ 50 PPB		B-17408	WP 05/22/14		Aqueous	1	1	624\826	05/21 13:59
3M51166.D	BLK	Bnf	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 14:16
3M51167.D	CAL @ 100 PPB		B17408	WP 05/22/14		Aqueous	1	1	624\826	05/21 14:32
3M51168.D	BLK	Bnf	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 14:53
3M51169.D	BLK	Bnf	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 15:10
3M51170.D	CAL @ 250 PPB		B-17408	WP 05/22/14		Aqueous	1	1	624\826	05/21 15:25
3M51171.D	BLK	IsBnf	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 15:41
3M51172.D	CAL @ 500 PPB		B-17408	WP 05/22/14		Aqueous	1	1	624\826	05/21 15:56
3M51173.D	BLK	Bnf	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 16:12
3M51174.D	BLK	Bnf	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 16:27
3M51175.D	BLK	Bnf	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 16:42
3M51176.D	ICV	Bnf	V-187291	WP 05/22/14		Aqueous	1	1	624\826	05/21 16:57
3M51177.D	ICV	IvoBnf	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 17:13
3M51178.D	BLK	Bnf	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 17:28
3M51179.D	BLK	Bnf	-	WP 05/22/14		Methano	1	1	8260C	05/21 17:44
3M51180.D	BLK	Bnf	-	WP 05/22/14		Aqueous	1	1	624\826	05/21 17:59
3M51181.D	MBS35803	Bnf	- MBS35803	WP 05/22/14		Methano	1	1	8260C	05/21 18:14
3M51182.D	MBS35804	Bnf	- MBS35804	WP 05/22/14		Aqueous	1	1	624\826	05/21 21:00
3M51183.D	MBS35805	BnfTi8Ao	- MBS35805	WP 05/22/14		Aqueous	1	1	624\826	05/22 08:57

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enb
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing drll or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16,R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I26	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning..Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

1-1-3M51185

RUN LOG

Instrument: GCMS_3 Year: 2014

4052101 0546

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3M51185.D	BFB TUNE		V-182113,V-183755,V186273,V187353	WP 05/22/14						05/22 09:25
3M51186.D	BLK	CnAnc	-	WP 05/22/14		Aqueous	1	1	624\826	05/22 09:35
3M51187.D	CAL @ 20 PPB		OK	WP 05/22/14		Aqueous	1	1	624\826	05/22 09:52
3M51188.D	20 PPB		-	WP 05/22/14		Aqueous	1	1	624\826	05/22 10:09
3M51189.D	BLK		-	WP 05/22/14		Aqueous	1	1	624\826	05/22 10:25
3M51190.D	DAILY BLANK		OK	WP 05/22/14		Methano	1	1	8260C	05/22 10:42
3M51191.D	DAILY BLANK		OK	WP 05/22/14		Aqueous	1	1	624\826	05/22 10:59
3M51192.D	AC78746-004(10X)(		OK	WP 05/22/14	VOTCLP-826	Aqueous	1	10	8260C	05/22 11:15
3M51193.D	AC78746-001(8uL)		OK	WP 05/22/14	VO-8260	Methano	1	100	8260C	05/22 11:31
3M51194.D	MBS35809		OK MBS35809	WP 05/22/14		Methano	1	1	8260C	05/22 11:48
3M51195.D	MBS35810		OK MBS35810	WP 05/22/14		Aqueous	1	1	624\826	05/22 12:05
3M51196.D	AC78707-001(T)		OK	WP 05/22/14	VOTCLP-826	Aqueous	1	1	8260C	05/22 12:23
3M51197.D	AC78707-002(T)	Ocf	RR-5X,see below	WP 05/22/14	VOTCLP-826	Aqueous	1	1	8260C	05/22 12:40
3M51198.D	AC78707-003(T)		RR-1X,possible co	WP 05/22/14	VOTCLP-826	Aqueous	1	1	8260C	05/22 12:57
3M51199.D	AC78707-004(T)		OK	WP 05/22/14	VOTCLP-826	Aqueous	1	1	8260C	05/22 13:13
3M51200.D	AC78747-001(T)		OK MBS35814	WP 05/22/14	VOTCLP-826	Aqueous	1	1	8260C	05/22 13:29
3M51201.D	EF-1-V-186621(052		OK	WP 05/22/14		Aqueous	1	5211	8260C	05/22 13:45
3M51202.D	AC78707-003(T)		OK	WP 05/22/14	VOTCLP-826	Aqueous	1	1	8260C	05/22 14:01
3M51203.D	AC78717-007(20X)		OK	WP 05/22/14	VO15-624	Aqueous	1	20	624	05/22 14:18
3M51204.D	AC78748-001(T)		OK	KL 05/22/14	VOTCLP-826	Aqueous	1	1	8260C	05/22 14:35
3M51205.D	AC78707-002(5X)(T		OK	KL 05/22/14	VOTCLP-826	Aqueous	1	5	8260C	05/22 14:51
3M51206.D	AC78746-002(T)	S8	RR 1X	KL 05/22/14	VOTCLP-826	Aqueous	1	1	8260C	05/22 15:07
3M51207.D	AC78746-003(T)		OK	KL 05/22/14	VOTCLP-826	Aqueous	1	1	8260C	05/22 15:23
3M51208.D	AC78746-005(T)		OK	KL 05/22/14	VOTCLP-826	Aqueous	1	1	8260C	05/22 15:39
3M51209.D	AC78746-006(T)		OK	KL 05/22/14	VOTCLP-826	Aqueous	1	1	8260C	05/22 15:56
3M51210.D	AC78746-006(40uL)		OK	KL 05/22/14,KL 05/23/14	VO-8260	Methano	1	20	8260C	05/22 16:13
3M51211.D	AC78724-001(T)		OK	KL 05/23/14	VOTCLP-826	Aqueous	1	1	8260C	05/22 16:30
3M51212.D	AC78746-002(T)	S8	Confirms surr.	KL 05/22/14	VOTCLP-826	Aqueous	1	1	8260C	05/22 16:46
3M51213.D	BLK		-	KL 05/23/14		Aqueous	1	1	624\826	05/22 17:03
3M51214.D	AC78763-014		RR 1X C/O	KL 05/23/14	VO15-624	Aqueous	1	1	624	05/22 17:19
3M51215.D	AC78763-015		OK	KL 05/23/14	VO15-624	Aqueous	1	1	624	05/22 17:35
3M51216.D	AC78763-016		OK	KL 05/23/14	VO15-624	Aqueous	1	1	624	05/22 17:52
3M51217.D	AC78763-017		OK	KL 05/23/14	VO15-624	Aqueous	1	1	624	05/22 18:08
3M51218.D	AC78763-018		OK	KL 05/23/14	VO15-624	Aqueous	1	1	624	05/22 18:24
3M51219.D	AC78762-001(40uL)		OK	KL 05/23/14	VOBTEX-826	Methano	1	20	8260C	05/22 18:40
3M51220.D	AC78747-001(T:MS	M16	OK MBS35814	KL 05/23/14	VOTCLP-826	Aqueous	1	1	624\826	05/22 18:56
3M51221.D	AC78747-001(T:MS	M16	OK MBS35814	KL 05/23/14	VOTCLP-826	Aqueous	1	1	624\826	05/22 19:12
3M51222.D	BLK		-	KL 05/23/14		Aqueous	1	1	624\826	05/22 19:27
3M51223.D	BLK		-,OK	KL 05/23/14,WP 05/23/14,WP 05/23/14		Aqueous	1	1	624\826	05/22 19:42
3M51224.D	AC78717-003		OK	KL 05/23/14	VO15-624	Aqueous	1	1	624	05/22 19:58
3M51225.D	AC78717-001(20X)		OK	KL 05/23/14	VO15-624	Aqueous	1	20	624	05/22 20:13
3M51226.D	AC78717-005(50X)		OK	KL 05/23/14	VO15-624	Aqueous	1	50	624	05/22 20:28
3M51227.D	AC78734-002(MS)		OK MBS35810	KL 05/23/14	VO15-624	Aqueous	1	1	624\826	05/22 20:43
3M51228.D	AC78734-002(MSD)		OK MBS35810	KL 05/23/14	VO15-624	Aqueous	1	1	624\826	05/22 20:59
3M51229.D	MBS35814		OK MBS35814	KL 05/23/14		Aqueous	1	1	624\826	05/22 21:14

Anc	Area Not Checked	En	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Crn	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endjno Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method..	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-3M51231

RUN LOG

Instrument: GCMS_3 Year: 2014

4052101 0547

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3M51231.D	BFB TUNE		V-182113,V-183755,V-186273,V-187434	SGG 05/27/14						05/23 09:11
3M51232.D	BLK	CnAnc	-	SGG 05/27/14		Aqueous	1	1	624\826	05/23 09:20
3M51233.D	20 PPB	CnAnc	-	SGG 05/27/14		Aqueous	1	1	624\826	05/23 09:40
3M51233A.	CAL @ 20 PPB		OK	SGG 05/27/14		Aqueous	1	1	624\826	05/23 09:57
3M51234.D	BLK		-	SGG 05/27/14		Aqueous	1	1	624\826	05/23 10:13
3M51235.D	DAILY BLANK		OK	KL 05/23/14		Methano	1	1	8260C	05/23 10:30
3M51236.D	DAILY BLANK		ok	SGG 05/27/14		Aqueous	1	1	624\826	05/23 10:47
3M51237.D	AC78785-009		OK	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/23 11:04
3M51238.D	AC78722-008		OK	SGG 05/27/14	VOBTEX-624	Aqueous	1	1	624	05/23 11:21
3M51239.D	EF-1-V-186621(052		OK	SGG 05/27/14		Aqueous	1	5231	8260C	05/23 11:37
3M51240.D	AC78653-005		OK	SGG 05/27/14	VO15-8260	Methano	1	1	8260C	05/23 11:54
3M51241.D	AC78653-003		OK	SGG 05/27/14	VO15-8260	Methano	1	1	8260C	05/23 12:10
3M51242.D	MBS35816		OK MBS35816	KL 05/23/14		Methano	1	1	8260C	05/23 12:27
3M51243.D	MBS35817		OK MBS35817	KL 05/23/14		Aqueous	1	1	624\826	05/23 12:43
3M51244.D	BLK		-	SGG 05/27/14		Aqueous	1	1	624\826	05/23 13:00
3M51245.D	AC78787-005		OK	SGG 05/27/14	VO-8260	Aqueous	1	1	8260C	05/23 13:16
3M51246.D	AC78787-013		OK	SGG 05/27/14	VO-8260	Aqueous	1	1	8260C	05/23 13:33
3M51247.D	AC78763-014		OK MBS35817	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/23 13:49
3M51248.D	AC78778-004		OK	SGG 05/27/14	VO-8260	Aqueous	1	1	8260C	05/23 14:06
3M51249.D	AC78778-005		OK	SGG 05/27/14	VO-8260	Aqueous	1	1	8260C	05/23 14:23
3M51250.D	AC78787-003		OK	SGG 05/27/14	VO-8260	Aqueous	1	1	8260C	05/23 14:39
3M51251.D	AC78787-009		OK	SGG 05/27/14	VO-8260	Aqueous	1	1	8260C	05/23 14:56
3M51252.D	AC78771-001(0.4uLHo		OK	KL 05/23/14,SGG 05/27/14	VOBTEX-826	Methano	1	2000	8260C	05/23 15:13
3M51253.D	BLK		-	SGG 05/27/14		Aqueous	1	1	624\826	05/23 15:29
3M51254.D	AC78787-011		OK	SGG 05/27/14	VO-8260	Aqueous	1	1	8260C	05/23 15:45
3M51255.D	AC78734-004		OK	KL 05/23/14	VO15-624	Aqueous	1	1	624	05/23 16:02
3M51256.D	AC78787-016(50X)		RR-1X	SGG 05/27/14	VO-8260	Aqueous	1	50	8260C	05/23 16:17
3M51257.D	AC78792-006(80uL)		OK	SGG 05/27/14	VO10-8260	Methano	1	10	8260C	05/23 16:34
3M51258.D	AC78763-014(MS)		OK MBS35817	SGG 05/27/14	VO15-624	Aqueous	1	1	624\826	05/23 16:51
3M51259.D	AC78763-014(MSD)		OK MBS35817	SGG 05/27/14	VO15-624	Aqueous	1	1	624\826	05/23 17:07
3M51260.D	AC78787-016		OK	SGG 05/27/14	VO-8260	Aqueous	1	1	8260C	05/23 17:23
3M51261.D	AC78792-009		RR-1X	SGG 05/27/14	VO10-8260	Aqueous	1	1	8260C	05/23 17:38
3M51262.D	AC78792-010		OK	SGG 05/27/14	VO10-8260	Aqueous	1	1	8260C	05/23 17:53
3M51263.D	BLK		OK	SGG 05/27/14		Aqueous	1	1	624\826	05/23 18:09
3M51264.D	AC78732-004		OK MBS35822	SGG 05/27/14	VOBTEX-624	Aqueous	1	1	624	05/23 18:24
3M51265.D	AC78732-007		OK	SGG 05/27/14	VOBTEX-624	Aqueous	1	1	624	05/23 18:39
3M51266.D	AC78732-012		OK	SGG 05/27/14	VOBTEX-624	Aqueous	1	1	624	05/23 18:54
3M51267.D	AC78732-002		OK	SGG 05/27/14	VOBTEX-624	Aqueous	1	1	624	05/23 19:12
3M51268.D	AC78732-003		OK	SGG 05/27/14	VOBTEX-624	Aqueous	1	1	624	05/23 19:27
3M51269.D	AC78732-005(MS:A		OK MBS35822	SGG 05/27/14	VOBTEX-624	Aqueous	1	1	624\826	05/23 19:42
3M51270.D	AC78732-006(MSD:		OK MBS35822	SGG 05/27/14	VOBTEX-624	Aqueous	1	1	624\826	05/23 19:57
3M51271.D	MBS35822		OK MBS35822	SGG 05/27/14		Aqueous	1	1	624\826	05/23 20:13
3M51271A.	MBS35823		- MBS35823	SGG 05/27/14		Aqueous	1	1	624\826	05/23 20:28
3M51272.D	BLK		-	SGG 05/27/14		Aqueous	1	1	624\826	05/23 20:44
3M51273.D	AC78791-006		OK	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/23 20:59
3M51274.D	AC78793-003		OK	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/23 21:14
3M51275.D	AC78797-002		OK	SGG 05/27/14	VO-624	Aqueous	1	1	624	05/23 21:30
3M51276.D	AC78800-012		OK	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/23 21:45
3M51277.D	AC78800-013		OK	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/23 22:01
3M51278.D	AC78809-002		OK	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/23 22:16
3M51279.D	AC78809-003		OK	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/23 22:31
3M51280.D	AC78807-002		OK	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/23 22:47
3M51281.D	AC78807-003		OK	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/23 23:02
3M51282.D	AC78808-002		OK	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/23 23:17

Anc	Area Not Checked	Eo	Extracting Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Eto	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eoh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collecting Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-3M51283

RUN LOG

Instrument: GCMS_3 Year: 2014

4052101 0548

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3M51283.D	AC78808-003		OK	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/23 23:33
3M51284.D	AC78805-002		OK	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/23 23:49
3M51285.D	AC78805-003		OK	SGG 05/27/14	VO15-624	Aqueous	1	1	624	05/24 00:04
3M51286.D	BLK	Ti8	-	SGG 05/27/14		Aqueous	1	1	624\826	05/24 00:20
3M51287.D	BLK	Ti8	-	SGG 05/27/14		Aqueous	1	1	624\826	05/24 00:35
3M51288.D	MBS35824	Ti8	- MBS35824	SGG 05/27/14		Aqueous	1	1	624\826	05/24 00:51
3M51289.D	BLK	Ti8	-	SGG 05/27/14		Aqueous	1	1	624\826	05/24 01:06
3M51290.D	AC78798-001		OK	SGG 05/27/14	VOBTEX-624	Aqueous	1	1	624	05/24 01:21

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eob
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or eoddn
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-6M10507

RUN LOG

Instrument: GCMS_6 Year: 2014

4052101 0549

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6M10507.D	BFB TUNE		V-182113,V-183755,V-186273,V-187482	SGG 05/27/14						05/23 16:48
6M10508.D	CAL @ 50 PPB	C16	OK	SGG 05/27/14		Soil	0.4	1	624\826	05/23 16:58
6M10509.D	BLK		-	SGG 05/27/14		Soil	1	1	8260C	05/23 17:20
6M10510.D	DAILY BLANK		OK	SGG 05/27/14		Soil	1	1	8260C	05/23 17:37
6M10511.D	AC78761-001		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 17:54
6M10512.D	MBS35820		OK MBS35820	SGG 05/27/14		Soil	1	1	8260C	05/23 18:11
6M10513.D	AC78752-001(MS)		OK MBS35820	SGG 05/27/14	VO-8260	Soil	1	1	8260C	05/23 18:27
6M10514.D	AC78752-001(MSD)		OK MBS35820	SGG 05/27/14	VO-8260	Soil	1	1	8260C	05/23 18:44
6M10515.D	AC78680-001		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 19:01
6M10516.D	AC78680-002		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 19:17
6M10517.D	AC78680-003		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 19:34
6M10518.D	AC78680-004		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 19:50
6M10519.D	AC78680-005		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 20:07
6M10520.D	AC78769-001		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 20:24
6M10521.D	AC78769-002		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 20:40
6M10522.D	AC78769-003		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 20:57
6M10523.D	AC78769-004		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 21:14
6M10524.D	AC78800-002		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 21:30
6M10525.D	AC78800-004		RR-5G	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 21:47
6M10526.D	AC78800-006	S8Ocf	RR-800uL	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 22:04
6M10527.D	BLK		OK	SGG 05/27/14		Soil	1	1	8260C	05/23 22:20
6M10528.D	AC78744-002		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 22:37
6M10529.D	AC78744-001		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/23 22:54
6M10530.D	MBS35836		OK MBS35836	SGG 05/27/14		Soil	1	1	8260C	05/23 23:10
6M10531.D	AC78778-001		OK MBS35844	SGG 05/27/14	VO-8260	Soil	1	1	8260C	05/23 23:27
6M10532.D	AC78778-002		OK MBS35856	SGG 05/27/14	VO-8260	Soil	1	1	8260C	05/23 23:44
6M10533.D	AC78778-003		OK MBS35857	SGG 05/27/14	VO-8260	Soil	1	1	8260C	05/24 00:00
6M10534.D	AC78787-001		OK	SGG 05/27/14	VO-8260	Soil	1	1	8260C	05/24 00:17
6M10535.D	AC78787-002		OK	SGG 05/27/14	VO-8260	Soil	1	1	8260C	05/24 00:33
6M10536.D	AC78787-007		OK	SGG 05/27/14	VO-8260	Soil	1	1	8260C	05/24 00:50
6M10537.D	AC78787-008		OK	SGG 05/27/14	VO-8260	Soil	1	1	8260C	05/24 01:07
6M10538.D	AC78787-014		OK	SGG 05/27/14	VO-8260	Soil	1	1	8260C	05/24 01:23
6M10539.D	AC78787-015		OK	SGG 05/27/14	VO-8260	Soil	1	1	8260C	05/24 01:40
6M10540.D	AC78822-001		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/24 01:56
6M10541.D	AC78822-002		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/24 02:13
6M10542.D	AC78822-003		OK	SGG 05/27/14	VO15-8260	Soil	1	1	8260C	05/24 02:29

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16,R26	Rod Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I26	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rod Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rfo	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

1-1-6M10591

RUN LOG

Instrument: GCMS_6 Year: 2014
4052101 0550

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6M10591.D	BFB TUNE		V-182113,V-183755,V-186273,V-187541	SGG 05/28/14						05/28 07:11
6M10594.D	CAL @ 50 PPB	C16	OK	SGG 05/28/14		Soil	0.4	1	624\826	05/28 07:46
6M10595.D	BLK		-	SGG 05/28/14		Soil	1	1	8260C	05/28 08:02
6M10596.D	DAILY BLANK		OK	SGG 05/28/14		Soil	1	1	8260C	05/28 08:19
6M10597.D	MBS35844		OK MBS35844	SGG 05/28/14		Soil	1	1	8260C	05/28 08:35
6M10598.D	AC78778-001(MS)		OK MBS35844	SGG 05/28/14	VO-8260	Soil	1	1	8260C	05/28 08:52
6M10599.D	AC78778-001(MSD)		OK MBS35844	SGG 05/28/14	VO-8260	Soil	1	1	8260C	05/28 09:09
6M10600.D	MBS35856		OK MBS35856	SGG 05/28/14		Soil	1	1	8260C	05/28 09:29
6M10601.D	AC78778-002(MS)		OK MBS35856	SGG 05/28/14	VO-8260	Soil	1	1	8260C	05/28 09:46
6M10602.D	AC78778-002(MSD)		OK MBS35856	SGG 05/28/14	VO-8260	Soil	1	1	8260C	05/28 10:03
6M10603.D	BLK		-	SGG 05/28/14		Soil	1	1	8260C	05/28 10:19
6M10604.D	AC78818-001	S8AoOcf	2ND RUN	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 10:36
6M10605.D	AC78787-019		OK	SGG 05/28/14	VO-8260	Soil	1	1	8260C	05/28 10:53
6M10606.D	AC78787-018		OK	SGG 05/28/14	VO-8260	Soil	1	1	8260C	05/28 11:09
6M10607.D	BLK		-	SGG 05/28/14		Soil	1	1	8260C	05/28 11:26
6M10608.D	AC78848-001		OK	SGG 05/28/14	VO15-8260	Soil	1	1	8260C	05/28 11:42
6M10609.D	AC78848-003		OK	SGG 05/28/14	VO15-8260	Soil	1	1	8260C	05/28 12:01
6M10610.D	AC78848-006		OK	SGG 05/28/14	VO15-8260	Soil	1	1	8260C	05/28 12:20
6M10611.D	AC78848-009		OK	SGG 05/28/14	VO15-8260	Soil	1	1	8260C	05/28 12:37
6M10612.D	AC78848-002		OK	SGG 05/28/14	VO15-8260	Soil	1	1	8260C	05/28 12:54
6M10613.D	BLK		OK	SGG 05/29/14		Soil	1	1	8260C	05/28 13:10
6M10614.D	AC78848-012		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 13:27
6M10615.D	AC78848-016		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 13:44
6M10616.D	AC78848-020		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 14:00
6M10617.D	AC78848-023		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 14:17
6M10618.D	AC78848-015		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 14:34
6M10619.D	AC78848-017		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 14:50
6M10620.D	AC78848-018	Ocf	RR-800uL	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 15:07
6M10621.D	MBS35857		OK MBS35857	SGG 05/29/14		Soil	1	1	8260C	05/28 15:24
6M10622.D	AC78778-003(MS)		OK MBS35857	SGG 05/29/14	VO-8260	Soil	1	1	8260C	05/28 15:40
6M10623.D	AC78778-003(MSD)		OK MBS35857	SGG 05/29/14	VO-8260	Soil	1	1	8260C	05/28 15:57
6M10624.D	BLK		-	SGG 05/29/14		Soil	1	1	8260C	05/28 16:13
6M10625.D	AC78848-027		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 16:30
6M10626.D	AC78848-030		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 16:48
6M10627.D	AC78848-010		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 17:08
6M10628.D	AC78848-011		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 17:24
6M10629.D	AC78848-005		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 17:41
6M10630.D	AC78816-002		OK	SGG 05/29/14	VO-8260	Soil	1	1	8260C	05/28 17:57
6M10631.D	AC78871-001		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 18:14
6M10632.D	AC78871-002		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/28 18:31
6M10633.D	AC78825-001		OK	SGG 05/29/14	VO-8260	Soil	1	1	8260C	05/28 18:47
6M10634.D	AC78825-002		OK	SGG 05/29/14	VO-8260	Soil	1	1	8260C	05/28 19:04
6M10635.D	78866-002	Ti8	RR-5g	SGG 05/29/14		Soil	1	1	8260C	05/28 19:20
6M10636.D	78866-001	Ti8	RR-5g	SGG 05/29/14		Soil	1	1	8260C	05/28 19:37
6M10637.D	BLK	Ti8	-	SGG 05/29/14		Soil	1	1	8260C	05/28 19:53
6M10638.D	BLK	Ti8	-	SGG 05/29/14		Soil	1	1	8260C	05/28 20:10
6M10639.D	BLK	Ti8	-	SGG 05/29/14		Soil	1	1	8260C	05/28 20:27

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16,R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I26	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Pmb with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning..Ini cal file <> method..	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GCMS 6 Year: 2014 Analyst: CCC

4052101 0551

1-1-6M10645

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6M10645.D	BFB TUNE		V-182113,V-183755,V-186273,V-187603	SGG 05/29/14						05/29 06:42
6M10647.D	CAL @ 50 PPB	C16	OK	SGG 05/29/14		Soil	0.4	1	624\826	05/29 07:08
6M10649.D	DAILY BLANK		OK	SGG 05/29/14		Soil	1	1	8260C	05/29 07:42
6M10650.D	MBS35858		OK MBS35858	SGG 05/29/14		Soil	1	1	8260C	05/29 07:58
6M10651.D	AC78866-001(MS)		OK MBS35858	SGG 05/29/14	VO-8260	Soil	1	1	8260C	05/29 08:15
6M10652.D	AC78866-001(MSD)		OK MBS35858	SGG 05/29/14	VO-8260	Soil	1	1	8260C	05/29 08:31
6M10653.D	BLK		-	SGG 05/29/14		Soil	1	1	8260C	05/29 08:48
6M10654.D	AC78866-001		OK MBS35858	SGG 05/29/14	VO-8260	Soil	1	1	8260C	05/29 09:05
6M10655.D	AC78866-002		OK MBS35878	SGG 05/29/14	VO-8260	Soil	1	1	8260C	05/29 09:22
6M10656.D	AC78820-004		OK	SGG 05/29/14	VOBTEX-826	Soil	1	1	8260C	05/29 09:39
6M10657.D	AC78820-013		OK	SGG 05/29/14	VOBTEX-826	Soil	1	1	8260C	05/29 09:55
6M10658.D	BLK		-	SGG 05/30/14		Soil	1	1	8260C	05/29 10:12
6M10659.D	AC78854-001		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/29 10:29
6M10660.D	AC78854-017		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/29 10:45
6M10661.D	AC78854-006		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/29 11:02
6M10662.D	AC78854-014		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/29 11:19
6M10663.D	AC78800-006		OK	SGG 05/29/14	VO15-8260	Soil	1	1	8260C	05/29 11:35
6M10664.D	BLK		-	SGG 05/30/14		Soil	1	1	8260C	05/29 11:52
6M10665.D	AC78873-004		OK	SGG 05/30/14	VO-8260	Soil	1	1	8260C	05/29 12:09
6M10666.D	AC78873-005		OK	SGG 05/30/14	VO-8260	Soil	1	1	8260C	05/29 12:25
6M10667.D	AC78787-020		OK	SGG 05/30/14	VO-8260	Soil	1	1	8260C	05/29 12:42
6M10668.D	AC78787-022		OK	SGG 05/30/14	VO-8260	Soil	1	1	8260C	05/29 12:59
6M10669.D	BLK		OK	SGG 05/30/14		Soil	1	1	8260C	05/29 13:19
6M10670.D	AC78861-003		OK	SGG 05/30/14	VO15-8260	Soil	1	1	8260C	05/29 13:35
6M10671.D	AC78861-005		OK	SGG 05/30/14	VO15-8260	Soil	1	1	8260C	05/29 13:52
6M10672.D	MBS35871		OK MBS35871	SGG 05/30/14		Soil	1	1	8260C	05/29 14:08
6M10673.D	AC78787-023		OK	SGG 05/30/14	VO-8260	Soil	1	1	8260C	05/29 14:25
6M10674.D	AC78861-006		OK	SGG 05/30/14	VO15-8260	Soil	1	1	8260C	05/29 14:42
6M10675.D	AC78861-009		OK	SGG 05/30/14	VO15-8260	Soil	1	1	8260C	05/29 15:00
6M10676.D	AC78793-002		OK	SGG 05/30/14	VO15-8260	Soil	1	1	8260C	05/29 15:17
6M10677.D	AC78861-011		OK	SGG 05/30/14	VO15-8260	Soil	1	1	8260C	05/29 15:34
6M10678.D	AC78861-012		OK	SGG 05/30/14	VO15-8260	Soil	1	1	8260C	05/29 15:50
6M10679.D	AC78861-013		OK	SGG 05/30/14	VO15-8260	Soil	1	1	8260C	05/29 16:07
6M10680.D	AC78861-014		OK	SGG 05/30/14	VO15-8260	Soil	1	1	8260C	05/29 16:24
6M10681.D	AC78861-015		OK	SGG 05/30/14	VO15-8260	Soil	1	1	8260C	05/29 16:43
6M10682.D	AC78861-016		OK	SGG 05/30/14	VO15-8260	Soil	1	1	8260C	05/29 16:59
6M10683.D	AC78861-017		OK	SGG 05/30/14	VO15-8260	Soil	1	1	8260C	05/29 17:16
6M10684.D	AC78861-008		OK	SGG 05/30/14	VO15-8260	Soil	1	1	8260C	05/29 17:33
6M10685.D	AC78787-024		OK	SGG 05/30/14	VO-8260	Soil	1	1	8260C	05/29 17:49
6M10686.D	AC78787-025		OK	SGG 05/30/14	VO-8260	Soil	1	1	8260C	05/29 18:06
6M10687.D	AC78787-026		OK	SGG 05/30/14	VO-8260	Soil	1	1	8260C	05/29 18:22
6M10688.D	AC78787-021		OK	SGG 05/30/14	VO-8260	Soil	1	1	8260C	05/29 18:39
6M10689.D	BLK	Ti8	-	SGG 05/30/14		Soil	1	1	8260C	05/29 18:55
6M10690.D	BLK	Ti8	-	SGG 05/30/14		Soil	1	1	8260C	05/29 19:12
6M10691.D	BLK	Ti8	-	SGG 05/30/14		Soil	1	1	8260C	05/29 19:28

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eob
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and nr col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

GC/MS Semi-Volatile Data

GC/MS Semi-Volatile Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8270D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
10M44243.D	WMB33889	Aqueous	05/23/14 10:12	1		62	45	98	89	109	123
10M44323.D	SMB33927	Soil	05/28/14 19:32	1		78	80	71	71	67	73
9M57038.D	SMB33917	Soil	05/27/14 16:49	1		59	60	65	71	69	81
9M57048.D	AC78787-001(	Soil	05/28/14 11:59	10		53	57	55	61	56	63
9M57049.D	AC78787-002(	Soil	05/28/14 12:22	50	~~SD~~ 6/2/14	0*	0*	0*	0*	0*	0*
10M44244.D	AC78787-003	Aqueous	05/23/14 10:52	~~0.5~~ 1	SD	65	58	82	41*	98	109
10M44248.D	AC78787-005	Aqueous	05/23/14 12:20	1		58	43	97	85	105	92
10M44299.D	AC78787-007	Soil	05/27/14 17:12	1		63	72	65	65	67	74
10M44308.D	AC78787-008	Soil	05/28/14 11:22	1		66	69	60	63	47*	74
10M44249.D	AC78787-009	Aqueous	05/23/14 12:42	1		65	47	108	101	116	121
10M44250.D	AC78787-011	Aqueous	05/23/14 13:05	1		69	49	112	107	120	124
9M57042.D	AC78787-014	Soil	05/27/14 18:25	1		67	68	76	84	75	84
9M57043.D	AC78787-015	Soil	05/27/14 18:48	1		56	64	77	86	25*	74
10M44255.D	AC78787-016(	Aqueous	05/23/14 14:55	3		47	38	69	68	101	84
10M44333.D	AC78787-018	Soil	05/29/14 14:37	1		65	70	79	77	73	77
10M44297.D	AC78787-019	Soil	05/27/14 16:28	1		64	73	60	62	62	64
10M44298.D	AC78787-020	Soil	05/27/14 16:50	1		72	81	67	66	60	73
9M57045.D	AC78787-021	Soil	05/27/14 19:36	1		69	69	82	88	72	81
9M57044.D	AC78787-022	Soil	05/27/14 19:12	1		62	62	72	79	74	75
10M44301.D	AC78787-023	Soil	05/27/14 17:57	1		76	88	76	71	33*	79
10M44302.D	AC78787-024	Soil	05/27/14 18:19	1		74	86	74	71	32*	76
10M44303.D	AC78787-025	Soil	05/27/14 18:41	1		79	89	76	72	57	82
10M44304.D	AC78787-026	Soil	05/27/14 19:04	1		74	84	69	66	45*	74
10M44242.D	WMB33889(M	Aqueous	05/23/14 09:50	1		67	52	99	53	118	135
10M44245.D	AC78787-003(	Aqueous	05/23/14 11:14	1		79	72	86	37*	117	128
10M44246.D	AC78787-003(	Aqueous	05/23/14 11:36	1		87	77	94	33*	119	133
9M57037.D	SMB33917(M	Soil	05/27/14 16:25	1		60	64	70	74	84	92
9M57039.D	AC78692-028(	Soil	05/27/14 17:13	3		59	61	61	69	66	73
9M57040.D	AC78692-028(	Soil	05/27/14 17:37	3		53	54	56	58	55	61
9M57041.D	AC78692-028(	Soil	05/27/14 18:01	6	~~SD~~ 6/2/14	36*	35*	37*	40*	35*	40*
9M57051.D	SMB33927(M	Soil	05/28/14 17:04	1		71	72	74	76	80	89
9M57053.D	AC78871-001	Soil	05/28/14 17:50	2		65	68	71	77	76	90
9M57054.D	AC78871-001(	Soil	05/28/14 18:13	1		60	62	62	68	71	76
9M57055.D	AC78871-001(	Soil	05/28/14 18:36	1		67	70	71	76	80	84

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270D

Soil Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Aqueous Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	29-113
S2=Phenol-d5	100	27-115
S3=Nitrobenzene-d5	50	51-139
S4=2-Fluorobiphenyl	50	53-129
S5=2,4,6-Tribromophenol	100	54-149
S6=Terphenyl-d14	50	55-146

Form3
Recovery Data
QC Batch: WMB33889

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M44242.D	WMB33889(MS)	5/23/2014 9:50:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	38.3292	0	100	38	10	130
Phenol	1	37.4537	0	100	37	20	130
2-Chlorophenol	1	75.3295	0	100	75	50	130
1,4-Dichlorobenzene	1	59.3275	0	100	59	50	130
2-Methylphenol	1	78.6821	0	100	79	50	130
Hexachloroethane	1	58.264	0	100	58	50	130
N-Nitroso-di-n-propylamine	1	84.4357	0	100	84	20	130
3&4-Methylphenol	1	78.5982	0	100	79	50	130
Nitrobenzene	1	78.0468	0	100	78	50	130
2,4-Dimethylphenol	1	78.954	0	100	79	50	130
1,2,4-Trichlorobenzene	1	68.5741	0	100	69	50	130
Naphthalene	1	73.2279	0	100	73	50	130
Hexachlorobutadiene	1	64.3521	0	100	64	50	130
4-Chloro-3-methylphenol	1	91.1274	0	100	91	50	130
2,4,6-Trichlorophenol	1	90.2884	0	100	90	50	130
2,4,5-Trichlorophenol	1	91.4497	0	100	91	50	130
Acenaphthene	1	81.5339	0	100	82	50	130
2,4-Dinitrotoluene	1	87.8976	0	100	88	50	130
4-Nitrophenol	1	44.4847	0	100	44	20	130
Fluorene	1	81.3531	0	100	81	50	130
Hexachlorobenzene	1	82.6574	0	100	83	50	130
Pentachlorophenol	1	93.6888	0	100	94	40	130
Pyrene	1	91.1502	0	100	91	50	130
Butylbenzylphthalate	1	96.6766	0	100	97	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: SMB33917

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57037.D	SMB33917(MS)	5/27/2014 4:25:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	82.5426	0	100	83	20	130
2-Chlorophenol	1	89.9644	0	100	90	50	130
1,4-Dichlorobenzene	1	46.0654	0	50	92	50	130
2-Methylphenol	1	101.659	0	100	102	50	130
N-Nitroso-di-n-propylamine	1	47.8451	0	50	96	20	130
2,4-Dimethylphenol	1	103.0858	0	100	103	50	130
1,2,4-Trichlorobenzene	1	47.2583	0	50	95	50	130
Naphthalene	1	46.9562	0	50	94	50	130
4-Chloro-3-methylphenol	1	107.2856	0	100	107	50	130
Acenaphthene	1	49.6048	0	50	99	50	130
2,4-Dinitrotoluene	1	47.1673	0	50	94	50	130
4-Nitrophenol	1	94.5339	0	100	95	20	130
Fluorene	1	50.9936	0	50	102	50	130
Pentachlorophenol	1	103.8379	0	100	104	40	130
Pyrene	1	63.9013	0	50	128	50	130
Butylbenzylphthalate	1	54.6569	0	50	109	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: SMB33927

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57051.D	SMB33927(MS)	5/28/2014 5:04:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	96.7133	0	100	97	20	130
2-Chlorophenol	1	108.4791	0	100	108	50	130
1,4-Dichlorobenzene	1	51.7301	0	50	103	50	130
2-Methylphenol	1	117.2471	0	100	117	50	130
N-Nitroso-di-n-propylamine	1	52.8653	0	50	106	20	130
2,4-Dimethylphenol	1	113.2588	0	100	113	50	130
1,2,4-Trichlorobenzene	1	54.2552	0	50	109	50	130
Naphthalene	1	52.8431	0	50	106	50	130
4-Chloro-3-methylphenol	1	110.0764	0	100	110	50	130
Acenaphthene	1	51.8113	0	50	104	50	130
2,4-Dinitrotoluene	1	49.5359	0	50	99	50	130
4-Nitrophenol	1	89.7387	0	100	90	20	130
Fluorene	1	51.2965	0	50	103	50	130
Pentachlorophenol	1	99.389	0	100	99	40	130
Pyrene	1	63.9653	0	50	128	50	130
Butylbenzylphthalate	1	62.5885	0	50	125	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: WMB33889

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M44245.D	AC78787-003(MS)	5/23/2014 11:14:00 AM
Non Spike(If applicable):	10M44244.D	AC78787-003	5/23/2014 10:52:00 AM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	0	0	100	0*	10	130
Phenol	1	53.1196	0	100	53	20	130
2-Chlorophenol	1	76.7263	0	100	77	50	130
1,4-Dichlorobenzene	1	71.7424	0	100	72	50	130
2-Methylphenol	1	80.6315	0	100	81	50	130
Hexachloroethane	1	73.046	0	100	73	50	130
N-Nitroso-di-n-propylamine	1	80.4379	0	100	80	20	130
3&4-Methylphenol	1	83.1879	0	100	83	50	130
Nitrobenzene	1	80.5945	0	100	81	50	130
2,4-Dimethylphenol	1	77.4023	0	100	77	50	130
1,2,4-Trichlorobenzene	1	75.56	0	100	76	50	130
Naphthalene	1	77.6681	0	100	78	50	130
Hexachlorobutadiene	1	74.6579	0	100	75	50	130
4-Chloro-3-methylphenol	1	90.573	0	100	91	50	130
2,4,6-Trichlorophenol	1	81.4166	0	100	81	50	130
2,4,5-Trichlorophenol	1	85.5962	0	100	86	50	130
Acenaphthene	1	78.4132	0	100	78	50	130
2,4-Dinitrotoluene	1	84.6153	0	100	85	50	130
4-Nitrophenol	1	64.5162	0	100	65	20	130
Fluorene	1	77.8092	0	100	78	50	130
Hexachlorobenzene	1	81.0132	0	100	81	50	130
Pentachlorophenol	1	95.8472	0	100	96	40	130
Pyrene	1	87.3145	0	100	87	50	130
Butylbenzylphthalate	1	92.9568	0	100	93	50	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M44246.D	AC78787-003(MSD)	5/23/2014 11:36:00 AM
Non Spike(If applicable):	10M44244.D	AC78787-003	5/23/2014 10:52:00 AM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	0	0	100	0*	10	130
Phenol	1	54.141	0	100	54	20	130
2-Chlorophenol	1	79.3073	0	100	79	50	130
1,4-Dichlorobenzene	1	69.8594	0	100	70	50	130
2-Methylphenol	1	83.3554	0	100	83	50	130
Hexachloroethane	1	71.1892	0	100	71	50	130
N-Nitroso-di-n-propylamine	1	81.5898	0	100	82	20	130
3&4-Methylphenol	1	84.5725	0	100	85	50	130
Nitrobenzene	1	80.3045	0	100	80	50	130
2,4-Dimethylphenol	1	75.813	0	100	76	50	130
1,2,4-Trichlorobenzene	1	74.1288	0	100	74	50	130
Naphthalene	1	75.8596	0	100	76	50	130
Hexachlorobutadiene	1	71.7855	0	100	72	50	130
4-Chloro-3-methylphenol	1	89.798	0	100	90	50	130
2,4,6-Trichlorophenol	1	90.3178	0	100	90	50	130
2,4,5-Trichlorophenol	1	87.0167	0	100	87	50	130
Acenaphthene	1	77.4823	0	100	77	50	130
2,4-Dinitrotoluene	1	84.44	0	100	84	50	130
4-Nitrophenol	1	63.9715	0	100	64	20	130
Fluorene	1	76.9078	0	100	77	50	130
Hexachlorobenzene	1	78.7799	0	100	79	50	130
Pentachlorophenol	1	95.0599	0	100	95	40	130
Pyrene	1	85.7714	0	100	86	50	130
Butylbenzylphthalate	1	91.91	0	100	92	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: WMB33889

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M44246.D	AC78787-003(MSD)	5/23/2014 11:36:00 AM
Duplicate(If applicable):	10M44245.D	AC78787-003(MS)	5/23/2014 11:14:00 AM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Pyridine	1	0	0	NA	40
Phenol	1	54.141	53.1196	1.9	40
2-Chlorophenol	1	79.3073	76.7263	3.3	40
1,4-Dichlorobenzene	1	69.8594	71.7424	2.7	40
2-Methylphenol	1	83.3554	80.6315	3.3	40
Hexachloroethane	1	71.1892	73.046	2.6	40
N-Nitroso-di-n-propylamine	1	81.5898	80.4379	1.4	40
3&4-Methylphenol	1	84.5725	83.1879	1.7	40
Nitrobenzene	1	80.3045	80.5945	0.36	40
2,4-Dimethylphenol	1	75.813	77.4023	2.1	40
1,2,4-Trichlorobenzene	1	74.1288	75.56	1.9	40
Naphthalene	1	75.8596	77.6681	2.4	40
Hexachlorobutadiene	1	71.7855	74.6579	3.9	40
4-Chloro-3-methylphenol	1	89.798	90.573	0.86	40
2,4,6-Trichlorophenol	1	90.3178	81.4166	10	40
2,4,5-Trichlorophenol	1	87.0167	85.5962	1.6	40
Acenaphthene	1	77.4823	78.4132	1.2	40
2,4-Dinitrotoluene	1	84.44	84.6153	0.21	40
4-Nitrophenol	1	63.9715	64.5162	0.85	40
Fluorene	1	76.9078	77.8092	1.2	40
Hexachlorobenzene	1	78.7799	81.0132	2.8	40
Pentachlorophenol	1	95.0599	95.8472	0.82	40
Pyrene	1	85.7714	87.3145	1.8	40
Butylbenzylphthalate	1	91.91	92.9568	1.1	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data
QC Batch: SMB33917

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57040.D	AC78692-028(3X)(MS)	5/27/2014 5:37:00 PM
Non Spike(If applicable):	9M57039.D	AC78692-028(3X)	5/27/2014 5:13:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	73.1127	0	100	73	20	130
2-Chlorophenol	1	79.602	0	100	80	50	130
1,4-Dichlorobenzene	1	43.71	0	50	87	50	130
2-Methylphenol	1	86.8878	0	100	87	50	130
N-Nitroso-di-n-propylamine	1	41.9277	0	50	84	20	130
2,4-Dimethylphenol	1	85.1604	0	100	85	50	130
1,2,4-Trichlorobenzene	1	39.2034	0	50	78	50	130
Naphthalene	1	42.5274	0	50	85	50	130
4-Chloro-3-methylphenol	1	78.6708	0	100	79	50	130
Acenaphthene	1	37.6902	0	50	75	50	130
2,4-Dinitrotoluene	1	31.7001	0	50	63	50	130
4-Nitrophenol	1	68.1861	0	100	68	20	130
Fluorene	1	37.3425	0	50	75	50	130
Pentachlorophenol	1	74.6172	0	100	75	40	130
Pyrene	1	42.1428	0	50	84	50	130
Butylbenzylphthalate	1	49.908	0	50	100	50	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57041.D	AC78692-028(3X)(MSD)	5/27/2014 6:01:00 PM
Non Spike(If applicable):	9M57039.D	AC78692-028(3X)	5/27/2014 5:13:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	48.5742	0	100	49	20	130
2-Chlorophenol	1	51.3846	0	100	51	50	130
1,4-Dichlorobenzene	1	28.2888	0	50	57	50	130
2-Methylphenol	1	54.7422	0	100	55	50	130
N-Nitroso-di-n-propylamine	1	31.1412	0	50	62	20	130
2,4-Dimethylphenol	1	56.016	0	100	56	50	130
1,2,4-Trichlorobenzene	1	25.3212	0	50	51	50	130
Naphthalene	1	27.3888	0	50	55	50	130
4-Chloro-3-methylphenol	1	52.1838	0	100	52	50	130
Acenaphthene	1	24.7794	0	50	50	50	130
2,4-Dinitrotoluene	1	17.937	0	50	36 *	50	130
4-Nitrophenol	1	41.5992	0	100	42	20	130
Fluorene	1	24.3024	0	50	49 *	50	130
Pentachlorophenol	1	0	0	100	0 *	40	130
Pyrene	1	28.4604	0	50	57	50	130
Butylbenzylphthalate	1	65.466	0	50	131 *	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: SMB33917

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57041.D	AC78692-028(3X)(MSD)	5/27/2014 6:01:00 PM
Duplicate(If applicable):	9M57040.D	AC78692-028(3X)(MS)	5/27/2014 5:37:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Phenol	1	48.5742	73.1127	40	40
2-Chlorophenol	1	51.3846	79.602	43*	40
1,4-Dichlorobenzene	1	28.2888	43.71	43*	40
2-Methylphenol	1	54.7422	86.8878	45*	40
N-Nitroso-di-n-propylamine	1	31.1412	41.9277	30	40
2,4-Dimethylphenol	1	56.016	85.1604	41*	40
1,2,4-Trichlorobenzene	1	25.3212	39.2034	43*	40
Naphthalene	1	27.3888	42.5274	43*	40
4-Chloro-3-methylphenol	1	52.1838	78.6708	40	40
Acenaphthene	1	24.7794	37.6902	41*	40
2,4-Dinitrotoluene	1	17.937	31.7001	55*	40
4-Nitrophenol	1	41.5992	68.1861	48*	40
Fluorene	1	24.3024	37.3425	42*	40
Pentachlorophenol	1	0	74.6172	200*	40
Pyrene	1	28.4604	42.1428	39	40
Butylbenzylphthalate	1	65.466	49.908	27	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data
QC Batch: SMB33927

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57054.D	AC78871-001(MS)	5/28/2014 6:13:00 PM
Non Spike(If applicable):	9M57053.D	AC78871-001	5/28/2014 5:50:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	85.8322	0	100	86	20	130
2-Chlorophenol	1	97.6296	0	100	98	50	130
1,4-Dichlorobenzene	1	46.6916	0	50	93	50	130
2-Methylphenol	1	105.5759	0	100	106	50	130
N-Nitroso-di-n-propylamine	1	48.156	0	50	96	20	130
2,4-Dimethylphenol	1	107.3022	0	100	107	50	130
1,2,4-Trichlorobenzene	1	48.1273	0	50	96	50	130
Naphthalene	1	46.7095	0	50	93	50	130
4-Chloro-3-methylphenol	1	95.2548	0	100	95	50	130
Acenaphthene	1	47.4555	0	50	95	50	130
2,4-Dinitrotoluene	1	41.7988	0	50	84	50	130
4-Nitrophenol	1	81.7998	0	100	82	20	130
Fluorene	1	45.8526	0	50	92	50	130
Pentachlorophenol	1	92.4522	0	100	92	40	130
Pyrene	1	57.9557	0	50	116	50	130
Butylbenzylphthalate	1	56.171	0	50	112	50	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57055.D	AC78871-001(MSD)	5/28/2014 6:36:00 PM
Non Spike(If applicable):	9M57053.D	AC78871-001	5/28/2014 5:50:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	96.3145	0	100	96	20	130
2-Chlorophenol	1	106.4026	0	100	106	50	130
1,4-Dichlorobenzene	1	50.3854	0	50	101	50	130
2-Methylphenol	1	118.1137	0	100	118	50	130
N-Nitroso-di-n-propylamine	1	52.6512	0	50	105	20	130
2,4-Dimethylphenol	1	119.3419	0	100	119	50	130
1,2,4-Trichlorobenzene	1	52.6044	0	50	105	50	130
Naphthalene	1	51.976	0	50	104	50	130
4-Chloro-3-methylphenol	1	109.0351	0	100	109	50	130
Acenaphthene	1	52.7804	0	50	106	50	130
2,4-Dinitrotoluene	1	47.795	0	50	96	50	130
4-Nitrophenol	1	94.8198	0	100	95	20	130
Fluorene	1	51.2465	0	50	102	50	130
Pentachlorophenol	1	107.2058	0	100	107	40	130
Pyrene	1	63.0943	0	50	126	50	130
Butylbenzylphthalate	1	62.7002	0	50	125	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: SMB33927

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57055.D	AC78871-001(MSD)	5/28/2014 6:36:00 PM
Duplicate(If applicable):	9M57054.D	AC78871-001(MS)	5/28/2014 6:13:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Phenol	1	96.3145	85.8322	12	40
2-Chlorophenol	1	106.4026	97.6296	8.6	40
1,4-Dichlorobenzene	1	50.3854	46.6916	7.6	40
2-Methylphenol	1	118.1137	105.5759	11	40
N-Nitroso-di-n-propylamine	1	52.6512	48.156	8.9	40
2,4-Dimethylphenol	1	119.3419	107.3022	11	40
1,2,4-Trichlorobenzene	1	52.6044	48.1273	8.9	40
Naphthalene	1	51.976	46.7095	11	40
4-Chloro-3-methylphenol	1	109.0351	95.2548	13	40
Acenaphthene	1	52.7804	47.4555	11	40
2,4-Dinitrotoluene	1	47.795	41.7988	13	40
4-Nitrophenol	1	94.8198	81.7998	15	40
Fluorene	1	51.2465	45.8526	11	40
Pentachlorophenol	1	107.2058	92.4522	15	40
Pyrene	1	63.0943	57.9557	8.5	40
Butylbenzylphthalate	1	62.7002	56.171	11	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: WMB33889
Blank Data File: 10M44243.D
Matrix: Aqueous

Blank Analysis Date: 05/23/14 10:12
Blank Extraction Date: 05/22/14
(If Applicable)
Method: EPA 8270D

Sample Number	Data File	Analysis Date
AC78787-003	10M44244.D	05/23/14 10:52
AC78787-005	10M44248.D	05/23/14 12:20
AC78787-009	10M44249.D	05/23/14 12:42
AC78787-011	10M44250.D	05/23/14 13:05
AC78787-016(3X)	10M44255.D	05/23/14 14:55
AC78787-003(MS)	10M44245.D	05/23/14 11:14
AC78787-003(MSD	10M44246.D	05/23/14 11:36
WMB33889(MS)	10M44242.D	05/23/14 09:50

FORM 4
Blank Summary

Blank Number: SMB33917
Blank Data File: 9M57038.D
Matrix: Soil

Blank Analysis Date: 05/27/14 16:49
Blank Extraction Date: 05/27/14
(If Applicable)
Method: EPA 8270D

Sample Number	Data File	Analysis Date
AC78787-001(10X)	9M57048.D	05/28/14 11:59
AC78787-002(50X)	9M57049.D	05/28/14 12:22
AC78787-007	10M44299.D	05/27/14 17:12
AC78787-008	10M44308.D	05/28/14 11:22
AC78787-014	9M57042.D	05/27/14 18:25
AC78787-015	9M57043.D	05/27/14 18:48
AC78787-019	10M44297.D	05/27/14 16:28
AC78787-020	10M44298.D	05/27/14 16:50
AC78787-021	9M57045.D	05/27/14 19:36
AC78787-022	9M57044.D	05/27/14 19:12
AC78787-023	10M44301.D	05/27/14 17:57
AC78787-024	10M44302.D	05/27/14 18:19
AC78787-025	10M44303.D	05/27/14 18:41
AC78787-026	10M44304.D	05/27/14 19:04
SMB33917(MS)	9M57037.D	05/27/14 16:25
AC78692-028(3X)	9M57039.D	05/27/14 17:13
AC78692-028(3X)(	9M57040.D	05/27/14 17:37
AC78692-028(3X)(	9M57041.D	05/27/14 18:01

FORM 4
Blank Summary

Blank Number: SMB33927
Blank Data File: 10M44323.D
Matrix: Soil

Blank Analysis Date: 05/28/14 19:32
Blank Extraction Date: 05/28/14
(If Applicable)
Method: EPA 8270D

Sample Number	Data File	Analysis Date
AC78787-018	10M44333.D	05/29/14 14:37
AC78871-001(MSD	9M57055.D	05/28/14 18:36
SMB33927(MS)	9M57051.D	05/28/14 17:04
AC78871-001	9M57053.D	05/28/14 17:50
AC78871-001(MS)	9M57054.D	05/28/14 18:13

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10

Data File: 10M44104.D
Analysis Date: 05/19/14 08:51
Method: EPA 8270D

Tune Scan/Time Range: Scan 1398

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.8	38656	PASS
68	69	0.00	2	1.6	687	PASS
69	198	0.00	100	51.7	41848	PASS
70	69	0.00	2	0.5	213	PASS
127	198	40	60	56.5	45688	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	80872	PASS
199	198	5	9	6.9	5603	PASS
275	198	10	30	23.0	18568	PASS
365	198	1	100	2.5	2045	PASS
441	443	0.01	100	77.4	9458	PASS
442	198	40	100	75.3	60864	PASS
443	442	17	23	20.1	12227	PASS

Data File	Sample Number	Analysis Date:
10M44105.D	CAL BNA@196PP	05/19/14 09:38
10M44106.D	CAL BNA@50PPM	05/19/14 10:01
10M44107.D	CAL BNA@160PP	05/19/14 10:26
10M44108.D	CAL BNA@120PP	05/19/14 10:49
10M44109.D	CAL BNA@80PPM	05/19/14 11:13
10M44110.D	CAL BNA@20PPM	05/19/14 11:39
10M44111.D	CAL BNA@10PPM	05/19/14 12:01
10M44112.D	CAL BNA@2PPM	05/19/14 12:28
10M44113.D	CAL BNA@.5PPM	05/19/14 12:50
10M44114.D	CAL BNA@50PPM	05/19/14 13:13
10M44115.D	ICV BNA@50PPM	05/19/14 13:50

Form 5

Tune Name: CAL DFTPP **Data File:** 9M56925.D
Instrument: GCMS 9 **Analysis Date:** 05/21/14 08:54
Method: EPA 8270D
Tune Scan/Time Range: Average of 10.075 to 10.085 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.2	24569	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.0	31715	PASS
70	69	0.00	2	0.8	238	PASS
127	198	40	60	56.5	37320	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	66080	PASS
199	198	5	9	7.0	4628	PASS
275	198	10	30	28.6	18912	PASS
365	198	1	100	4.2	2757	PASS
441	443	0.01	100	76.3	7891	PASS
442	198	40	100	78.4	51832	PASS
443	442	17	23	20.0	10344	PASS

Data File	Sample Number	Analysis Date:
9M56926.D	CAL BNA@50PPM	05/21/14 09:18
9M56927.D	CAL BNA@10PPM	05/21/14 09:44
9M56928.D	CAL BNA@2PPM	05/21/14 10:07
9M56929.D	CAL BNA@.5PPM	05/21/14 10:31
9M56930.D	CAL BNA@20PPM	05/21/14 10:54
9M56931.D	CAL BNA@80PPM	05/21/14 11:18
9M56932.D	CAL BNA@120PP	05/21/14 11:41
9M56933.D	CAL BNA@160PP	05/21/14 12:05
9M56934.D	CAL BNA@196PP	05/21/14 12:29
9M56935.D	ICV BNA@50PPM	05/21/14 13:04

Form 5

Tune Name: CAL DFTPP **Data File:** 10M44240.D
Instrument: GCMS 10 **Analysis Date:** 05/23/14 08:48
Method: EPA 8270D
Tune Scan/Time Range: Average of 9.864 to 9.869 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.7	33976	PASS
68	69	0.00	2	1.6	571	PASS
69	198	0.00	100	50.6	36040	PASS
70	69	0.00	2	0.4	131	PASS
127	198	40	60	55.5	39484	PASS
197	198	0.00	1	0.5	348	PASS
198	198	100	100	100.0	71172	PASS
199	198	5	9	6.8	4875	PASS
275	198	10	30	23.2	16488	PASS
365	198	1	100	2.8	2007	PASS
441	443	0.01	100	74.1	9048	PASS
442	198	40	100	85.6	60936	PASS
443	442	17	23	20.0	12215	PASS

Data File	Sample Number	Analysis Date:
10M44241.D	CAL BNA@50PPM	05/23/14 09:17
10M44242.D	WMB33889(MS)	05/23/14 09:50
10M44243.D	WMB33889	05/23/14 10:12
10M44244.D	AC78787-003	05/23/14 10:52
10M44245.D	AC78787-003(MS)	05/23/14 11:14
10M44246.D	AC78787-003(MSD	05/23/14 11:36
10M44247.D	AC78787-016	05/23/14 11:58
10M44248.D	AC78787-005	05/23/14 12:20
10M44249.D	AC78787-009	05/23/14 12:42
10M44250.D	AC78787-011	05/23/14 13:05
10M44251.D	AC78773-002	05/23/14 13:26
10M44252.D	AC78788-003	05/23/14 13:49
10M44253.D	AC78788-004	05/23/14 14:11
10M44254.D	AC78788-005	05/23/14 14:33
10M44255.D	AC78787-016(3X)	05/23/14 14:55
10M44256.D	WMB33900(MS)	05/23/14 15:53
10M44257.D	WMB33900	05/23/14 16:15
10M44258.D	AC78793-001	05/23/14 16:39
10M44259.D	AC78793-001(MS)	05/23/14 17:01
10M44260.D	AC78793-001(MSD	05/23/14 17:24
10M44261.D	AC78790-003	05/23/14 17:45
10M44262.D	AC78792-009	05/23/14 18:07
10M44263.D	AC78818-003	05/23/14 18:29
10M44264.D	AC78798-001	05/23/14 18:51
10M44265.D	AC78798-002	05/23/14 19:13
10M44266.D	AC78800-013	05/23/14 19:35
10M44267.D	AC78807-001	05/23/14 19:57
10M44268.D	AC78807-002	05/23/14 20:19
10M44269.D	AC78805-001	05/23/14 20:41
10M44270.D	AC78805-002	05/23/14 21:03
10M44271.D	AC78808-001	05/23/14 21:25
10M44272.D	AC78808-002	05/23/14 21:47
10M44273.D	AC78809-001	05/23/14 22:09
10M44274.D	AC78809-002	05/23/14 22:31
10M44275.D	AC78815-002	05/23/14 22:53
10M44276.D	AC78817-001	05/23/14 23:15

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10

Data File: 10M44277.D
Analysis Date: 05/27/14 08:26
Method: EPA 8270D

Tune Scan/Time Range: Scan 1398

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	49.2	45472	PASS
68	69	0.00	2	1.4	674	PASS
69	198	0.00	100	52.6	48632	PASS
70	69	0.00	2	0.6	296	PASS
127	198	40	60	56.4	52208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	92512	PASS
199	198	5	9	7.2	6663	PASS
275	198	10	30	22.4	20736	PASS
365	198	1	100	2.6	2374	PASS
441	443	0.01	100	72.4	10427	PASS
442	198	40	100	77.7	71840	PASS
443	442	17	23	20.0	14397	PASS

Data File	Sample Number	Analysis Date:
10M44278.D	CAL BNA@50PPM	05/27/14 09:02
10M44279.D	SMB33901	05/27/14 09:44
10M44280.D	WMB33905	05/27/14 10:06
10M44281.D	SMB33899	05/27/14 10:28
10M44282.D	AC78801-019	05/27/14 10:50
10M44283.D	AC78801-020	05/27/14 11:12
10M44284.D	AC78801-023	05/27/14 11:34
10M44285.D	AC78801-024	05/27/14 11:56
10M44286.D	AC78801-026	05/27/14 12:18
10M44287.D	AC78801-027	05/27/14 12:41
10M44288.D	AC78801-028	05/27/14 13:03
10M44289.D	AC78735-013	05/27/14 13:25
10M44290.D	AC78735-014	05/27/14 13:47
10M44291.D	AC78735-016	05/27/14 14:09
10M44292.D	AC78735-017	05/27/14 14:32
10M44293.D	AC78735-033	05/27/14 14:54
10M44294.D	AC78735-034	05/27/14 15:16
10M44295.D	WMB33918	05/27/14 15:43
10M44296.D	SMB33917	05/27/14 16:06
10M44297.D	AC78787-019	05/27/14 16:28
10M44298.D	AC78787-020	05/27/14 16:50
10M44299.D	AC78787-007	05/27/14 17:12
10M44300.D	AC78787-008	05/27/14 17:35
10M44301.D	AC78787-023	05/27/14 17:57
10M44302.D	AC78787-024	05/27/14 18:19
10M44303.D	AC78787-025	05/27/14 18:41
10M44304.D	AC78787-026	05/27/14 19:04

Form 5

Tune Name: CAL DFTPP **Data File:** 9M57019.D
Instrument: GCMS 9 **Analysis Date:** 05/27/14 09:01
Method: EPA 8270D

Tune Scan/Time Range: Average of 10.069 to 10.069 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	38.1	39912	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.9	51192	PASS
70	69	0.00	2	0.8	388	PASS
127	198	40	60	58.0	60728	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	104768	PASS
199	198	5	9	6.9	7244	PASS
275	198	10	30	27.7	29032	PASS
365	198	1	100	3.7	3869	PASS
441	443	0.01	100	74.7	10297	PASS
442	198	40	100	67.8	71016	PASS
443	442	17	23	19.4	13789	PASS

Data File	Sample Number	Analysis Date:
9M57020.D	CAL BNA@50PPM	05/27/14 09:26
9M57021.D	SMB33901(MS)	05/27/14 10:07
9M57022.D	SMB33901	05/27/14 10:30
9M57023.D	AC78735-011	05/27/14 10:54
9M57024.D	AC78735-011(MS)	05/27/14 11:17
9M57025.D	AC78735-011(MSD	05/27/14 11:41
9M57026.D	AC78774-001	05/27/14 12:04
9M57027.D	AC78801-022	05/27/14 12:28
9M57028.D	AC78801-025	05/27/14 12:52
9M57029.D	AC78733-004	05/27/14 13:15
9M57030.D	AC78735-037	05/27/14 13:39
9M57031.D	AC78735-038	05/27/14 14:03
9M57032.D	AC78735-039(3X)	05/27/14 14:27
9M57033.D	AC78735-041	05/27/14 14:50
9M57034.D	AC78801-019	05/27/14 15:14
9M57035.D	AC78735-029	05/27/14 15:38
9M57036.D	AC78735-030	05/27/14 16:01
9M57037.D	SMB33917(MS)	05/27/14 16:25
9M57038.D	SMB33917	05/27/14 16:49
9M57039.D	AC78692-028(3X)	05/27/14 17:13
9M57040.D	AC78692-028(3X)(	05/27/14 17:37
9M57041.D	AC78692-028(3X)(	05/27/14 18:01
9M57042.D	AC78787-014	05/27/14 18:25
9M57043.D	AC78787-015	05/27/14 18:48
9M57044.D	AC78787-022	05/27/14 19:12
9M57045.D	AC78787-021	05/27/14 19:36

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9

Data File: 9M57046.D
Analysis Date: 05/28/14 08:55
Method: EPA 8270D

Tune Scan/Time Range: Scan 1455

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	32.2	45344	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.5	59840	PASS
70	69	0.00	2	0.5	286	PASS
127	198	40	60	53.2	74944	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	140800	PASS
199	198	5	9	6.8	9597	PASS
275	198	10	30	29.1	40928	PASS
365	198	1	100	4.2	5884	PASS
441	443	0.01	100	73.2	16624	PASS
442	198	40	100	80.3	113080	PASS
443	442	17	23	20.1	22720	PASS

Data File	Sample Number	Analysis Date:
9M57047.D	CAL BNA@50PPM	05/28/14 09:27
9M57048.D	AC78787-001(10X)	05/28/14 11:59
9M57049.D	AC78787-002(50X)	05/28/14 12:22
9M57050.D	AC78774-001(R)	05/28/14 16:01
9M57051.D	SMB33927(MS)	05/28/14 17:04
9M57052.D	SMB33927	05/28/14 17:27
9M57053.D	AC78871-001	05/28/14 17:50
9M57054.D	AC78871-001(MS)	05/28/14 18:13
9M57055.D	AC78871-001(MSD	05/28/14 18:36
9M57056.D	AC78871-002	05/28/14 18:59
9M57057.D	AC78801-028(R)	05/28/14 19:23
9M57058.D	AC78801-019(R)	05/28/14 19:46
9M57059.D	AC78825-001	05/28/14 20:09
9M57060.D	AC78825-002	05/28/14 20:32
9M57061.D	AC78787-018	05/28/14 20:56

Form 5

Tune Name: CAL DFTPP **Data File:** 10M44305.D
Instrument: GCMS 10 **Analysis Date:** 05/28/14 08:55
Method: EPA 8270D
Tune Scan/Time Range: Average of 9.859 to 9.870 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	46.6	32522	PASS
68	69	0.00	2	1.5	517	PASS
69	198	0.00	100	49.5	34537	PASS
70	69	0.00	2	0.5	161	PASS
127	198	40	60	54.8	38231	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	69790	PASS
199	198	5	9	7.0	4873	PASS
275	198	10	30	23.5	16408	PASS
365	198	1	100	2.7	1918	PASS
441	443	0.01	100	73.9	9045	PASS
442	198	40	100	88.7	61871	PASS
443	442	17	23	19.8	12246	PASS

Data File	Sample Number	Analysis Date:
10M44306.D	CAL BNA@50PPM	05/28/14 09:24
10M44307.D	AC78832-002	05/28/14 11:00
10M44308.D	AC78787-008	05/28/14 11:22
10M44309.D	WMB33921(MS)	05/28/14 14:26
10M44310.D	WMB33921	05/28/14 14:48
10M44311.D	AC78855-005	05/28/14 15:09
10M44312.D	AC78847-001	05/28/14 15:31
10M44313.D	AC78847-002	05/28/14 15:53
10M44314.D	AC78858-001	05/28/14 16:15
10M44315.D	AC78858-002	05/28/14 16:37
10M44316.D	AC78858-003	05/28/14 16:59
10M44317.D	AC78858-004	05/28/14 17:21
10M44318.D	WMB33925(MS)	05/28/14 17:43
10M44319.D	WMB33925	05/28/14 18:05
10M44320.D	EF-SPLP V-185566	05/28/14 18:27
10M44321.D	AC78583-003(T)	05/28/14 18:48
10M44322.D	AC78581-009(T)	05/28/14 19:10
10M44323.D	SMB33927	05/28/14 19:32
10M44324.D	AC78801-020(R)	05/28/14 19:54
10M44325.D	AC78801-024(R)	05/28/14 20:16
10M44326.D	AC78801-026(R)	05/28/14 20:38
10M44327.D	AC78860-001	05/28/14 21:00
10M44328.D	AC78860-002	05/28/14 21:22

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10

Data File: 10M44329.D
Analysis Date: 05/29/14 08:58
Method: EPA 8270D

Tune Scan/Time Range: Scan 1398

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	46.9	46344	PASS
68	69	0.00	2	1.6	776	PASS
69	198	0.00	100	49.5	48920	PASS
70	69	0.00	2	0.6	300	PASS
127	198	40	60	55.3	54696	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	98848	PASS
199	198	5	9	6.9	6792	PASS
275	198	10	30	22.2	21912	PASS
365	198	1	100	2.4	2345	PASS
441	443	0.01	100	73.0	11216	PASS
442	198	40	100	76.8	75888	PASS
443	442	17	23	20.3	15369	PASS

Data File	Sample Number	Analysis Date:
10M44330.D	BNA@50PPM	05/29/14 09:26
10M44331.D	CAL BNA@50PPM	05/29/14 09:56
10M44332.D	MECL2 TEST	05/29/14 12:21
10M44333.D	AC78787-018	05/29/14 14:37
10M44334.D	SMB33935(MS)	05/29/14 15:30
10M44335.D	SMB33935	05/29/14 15:51
10M44336.D	AC78669-001	05/29/14 16:13
10M44337.D	WMB33941(MS)	05/29/14 16:35
10M44338.D	WMB33941	05/29/14 16:57
10M44339.D	AC78669-002	05/29/14 17:19
10M44340.D	AC78669-003	05/29/14 17:41
10M44341.D	AC78669-005	05/29/14 18:03
10M44342.D	AC78880-001	05/29/14 18:25
10M44343.D	AC78880-002	05/29/14 18:47
10M44344.D	AC78880-001(MS)	05/29/14 19:09
10M44345.D	AC78880-001(MSD	05/29/14 19:31
10M44346.D	AC78735-001(T)	05/29/14 19:53
10M44347.D	AC78735-001(T)(M	05/29/14 20:14
10M44348.D	AC78735-001(T)(M	05/29/14 20:36
10M44349.D	AC78832-002(R)	05/29/14 20:58

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M44114.D Method: EPA 8270D

Analysis Date/Time: 05/19/14 13:13

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	79619	5.72	301565	6.73	171973	8.14	308784	9.57	322327	12.60	306172	14.19
Eval File Area Limit:	39810-159238		150782-603130		85986-343946		154392-617568		161164-644654		153086-612344	
Eval File Rt Limit:	5.22-6.22		6.23-7.23		7.64-8.64		9.07-10.07		12.1-13.1		13.69-14.69	

Data File	Sample												
10M44105.	CAL BNA@19	61269	5.72	234051	6.73	126716	8.14	233379	9.58	251241	12.61	246536	14.20
10M44107.	CAL BNA@16	78502	5.72	301747	6.74	171395	8.14	305920	9.58	309221	12.61	283299	14.20
10M44108.	CAL BNA@12	80736	5.72	310608	6.73	173257	8.14	308198	9.58	308478	12.60	288946	14.19
10M44109.	CAL BNA@80	85347	5.72	326051	6.73	185337	8.14	331539	9.58	340386	12.60	313112	14.19
10M44110.	CAL BNA@20	85954	5.72	333789	6.73	189585	8.14	344870	9.57	368450	12.60	348723	14.19
10M44111.	CAL BNA@10	87942	5.72	343360	6.73	193423	8.14	346475	9.57	363735	12.59	345573	14.19
10M44112.	CAL BNA@2F	82823	5.72	322108	6.73	182808	8.14	327657	9.57	340314	12.60	321761	14.19
10M44113.	CAL BNA@.5	77383	5.72	302581	6.73	172394	8.14	307049	9.57	318431	12.59	304508	14.19
10M44114.	CAL BNA@50	79619	5.72	301565	6.73	171973	8.14	308784	9.57	322327	12.60	306172	14.19
10M44115.	ICV BNA@50	63851	5.72	247176	6.73	138895	8.14	251633	9.58	266387	12.60	242746	14.19

I1 =	1.4-Dichlorobenzene-d4	I4 =	Phenanthrene-d10	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	Naphthalene-d8	I5 =	Chrysene-d12	**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Acenaphthene-d10	I6 =	Perylene-d12	**524 Internal Standard concentration =5ug/L**

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M56926.D Method: EPA 8270D

Analysis Date/Time: 05/21/14 09:18

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	67386	5.88	260369	6.89	153643	8.33	298552	9.80	331334	12.85	312049	14.48
Eval File Area Limit:	33693-134772		130184-520738		76822-307286		149276-597104		165667-662668		156024-624098	
Eval File Rt Limit:	5.38-6.38		6.39-7.39		7.83-8.83		9.3-10.3		12.35-13.35		13.98-14.98	

Data File	Sample												
9M56926.D	CAL BNA@5C	67386	5.88	260369	6.89	153643	8.33	298552	9.80	331334	12.85	312049	14.48
9M56927.D	CAL BNA@1C	69840	5.88	272942	6.89	161940	8.33	308422	9.80	346280	12.85	324154	14.48
9M56928.D	CAL BNA@2F	66032	5.88	259985	6.89	154373	8.33	289467	9.79	327137	12.84	309968	14.48
9M56929.D	CAL BNA@.5	65069	5.88	254285	6.89	154789	8.33	297792	9.79	340973	12.85	324022	14.47
9M56930.D	CAL BNA@2C	67597	5.88	267316	6.89	159158	8.33	296617	9.79	354911	12.85	341867	14.48
9M56931.D	CAL BNA@8C	66041	5.88	255480	6.89	151860	8.33	297768	9.80	340472	12.85	326010	14.48
9M56932.D	CAL BNA@12	62966	5.88	243225	6.89	147120	8.33	284254	9.80	324594	12.86	303625	14.48
9M56933.D	CAL BNA@16	60005	5.88	240504	6.90	145721	8.34	281538	9.80	316864	12.86	288251	14.48
9M56934.D	CAL BNA@19	50186	5.88	197470	6.90	125176	8.34	247068	9.80	287329	12.86	256994	14.48
9M56935.D	ICV BNA@50	61180	5.88	239966	6.89	142367	8.33	271424	9.80	315347	12.85	301193	14.48

I1 =	1,4-Dichlorobenzene-d4	I4 =	Phenanthrene-d10	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	Naphthalene-d8	I5 =	Chrysene-d12	**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Acenaphthene-d10	I6 =	Perylene-d12	**524 Internal Standard concentration =5ug/L**

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M44241.D Method: EPA 8270D

Analysis Date/Time: 05/23/14 09:17

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	77014	5.72	303189	6.73	177677	8.14	330838	9.58	354803	12.60	329706	14.20
Eval File Area Limit:	38507-154028		151594-606378		88838-355354		165419-661676		177402-709606		164853-659412	
Eval File Rt Limit:	5.22-6.22		6.23-7.23		7.64-8.64		9.08-10.08		12.1-13.1		13.7-14.7	

Data File	Sample												
10M44242.	WMB33889(M	72682	5.72	285753	6.73	169329	8.14	310084	9.58	308838	12.60	280667	14.20
10M44243.	WMB33889	82803	5.72	331744	6.73	193129	8.14	353256	9.58	371459	12.60	337325	14.20
10M44244.	AC78787-003	80326	5.72	319127	6.73	186987	8.14	337425	9.58	354077	12.60	323216	14.20
10M44245.	AC78787-003(	85607	5.72	323859	6.73	193369	8.14	349436	9.58	344929	12.60	306200	14.20
10M44246.	AC78787-003(	82887	5.72	321606	6.73	192003	8.14	344387	9.58	338167	12.60	301672	14.20
10M44247.	AC78787-016	73854	5.72	186193	6.74	92098	8.17	206861	9.62	311077	12.61	303935	14.20
10M44248.	AC78787-005	75110	5.72	300871	6.73	179232	8.14	326132	9.58	341735	12.60	306914	14.20
10M44249.	AC78787-009	82860	5.72	327127	6.73	190097	8.14	340517	9.58	347140	12.60	313133	14.20
10M44250.	AC78787-011	83112	5.72	329917	6.73	190891	8.14	339348	9.58	349093	12.60	316005	14.20
10M44251.	AC78773-002	91339	5.72	344669	6.73	200622	8.14	362961	9.58	387870	12.60	356284	14.20
10M44255.	AC78787-016(	103031	5.72	339390	6.73	197994	8.15	378258	9.60	420694	12.60	386996	14.20
10M44256.	WMB33900(M	79241	5.72	301939	6.73	180104	8.14	328492	9.58	319138	12.60	292024	14.20
10M44257.	WMB33900	85838	5.72	346021	6.72	200944	8.13	360638	9.57	367824	12.60	331410	14.19
10M44259.	AC78793-001(	84880	5.72	324329	6.73	194194	8.14	353484	9.58	350900	12.60	316883	14.20
10M44260.	AC78793-001(	87773	5.72	334444	6.73	200302	8.14	364731	9.58	363603	12.60	335861	14.20
10M44261.	AC78790-003	85628	5.72	344362	6.73	201340	8.14	362720	9.58	362721	12.60	320865	14.20
10M44262.	AC78792-009	91988	5.72	357906	6.73	197959	8.14	352533	9.58	390250	12.60	355345	14.20
10M44263.	AC78818-003	101390	5.72	404472	6.73	234900	8.14	421758	9.57	427275	12.60	380304	14.20

I1 =	1.4-Dichlorobenzene-d4	I4 =	Phenanthrene-d10	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	Naphthalene-d8	I5 =	Chrysene-d12	**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Acenaphthene-d10	I6 =	Perylene-d12	**524 Internal Standard concentration =5ug/L**

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M57020.D Method: EPA 8270D

Analysis Date/Time: 05/27/14 09:26

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	75890	5.87	286520	6.88	167272	8.32	319372	9.78	346818	12.84	335714	14.46
Eval File Area Limit:	37945-151780		143260-573040		83636-334544		159686-638744		173409-693636		167857-671428	
Eval File Rt Limit:	5.37-6.37		6.38-7.38		7.82-8.82		9.28-10.28		12.34-13.34		13.96-14.96	

Data File	Sample												
9M57021.D	SMB33901(M	89352	5.87	321976	6.89	193427	8.32	329853	9.79	314646	12.83	272982	14.47
9M57022.D	SMB33901	77062	5.87	297572	6.88	169012	8.31	296987	9.78	292107	12.83	257708	14.46
9M57023.D	AC78735-011	87887	5.87	339087	6.89	196580	8.32	349837	9.78	368634	12.83	330736	14.46
9M57024.D	AC78735-011(	99658	5.87	373452	6.89	222927	8.32	382564	9.79	383635	12.83	332252	14.46
9M57025.D	AC78735-011(	99112	5.87	369952	6.88	223340	8.31	386816	9.78	396217	12.83	343221	14.48
9M57026.D	AC78774-001	72165	5.87	268894	6.88	157857	8.32	273535	9.78	274805	12.83	259975	14.46
9M57027.D	AC78801-022	82098	5.87	314394	6.88	175835	8.31	299897	9.78	276269	12.83	249162	14.46
9M57028.D	AC78801-025	70131	5.87	263198	6.88	148603	8.32	253874	9.78	241120	12.83	223997	14.46
9M57029.D	AC78733-004	71952	5.87	277766	6.88	156766	8.31	268754	9.78	254702	12.83	243866	14.46
9M57030.D	AC78735-037	97172	5.87	366477	6.88	203210	8.31	337098	9.78	276420	12.83	253711	14.46
9M57031.D	AC78735-038	75191	5.87	282692	6.88	161099	8.31	277653	9.78	244458	12.83	224041	14.46
9M57032.D	AC78735-039(	87457	5.87	329712	6.88	188157	8.31	330316	9.78	311088	12.84	299027	14.47
9M57033.D	AC78735-041	85474	5.87	318689	6.88	178626	8.31	280075	9.78	251174	12.84	271403	14.47
9M57034.D	AC78801-019	86720	5.87	332165	6.88	185484	8.31	316674	9.78	285892	12.83	266900	14.46
9M57035.D	AC78735-029	84322	5.87	320241	6.88	181133	8.31	306692	9.78	261047	12.83	238336	14.46
9M57036.D	AC78735-030	82234	5.87	307984	6.88	168429	8.31	283469	9.78	238954	12.83	219618	14.46
9M57037.D	SMB33917(M	67424	5.87	251211	6.88	150309	8.31	258242	9.78	253479	12.83	210960	14.46
9M57038.D	SMB33917	70826	5.87	279026	6.88	158873	8.31	280379	9.78	270385	12.83	229502	14.46
9M57039.D	AC78692-028(	84674	5.87	328528	6.88	190152	8.31	322082	9.78	305057	12.83	291109	14.46
9M57040.D	AC78692-028(	81556	5.87	312568	6.88	182268	8.31	318061	9.78	313669	12.83	299909	14.46
9M57041.D	AC78692-028(	87957	5.87	333886	6.88	194145	8.31	340066	9.78	320985	12.83	312125	14.46
9M57042.D	AC78787-014	74492	5.87	285265	6.88	156862	8.31	264764	9.78	264106	12.83	255184	14.46
9M57043.D	AC78787-015	87586	5.87	315948	6.88	165282	8.31	251629	9.78	274502	12.84	281113	14.47
9M57044.D	AC78787-022	82360	5.87	300400	6.88	155920	8.31	242772	9.78	268539	12.83	272613	14.46
9M57045.D	AC78787-021	83050	5.87	297531	6.88	144989	8.31	251285	9.79	304875	12.84	319819	14.47

I1 =	1.4-Dichlorobenzene-d4	I4 =	Phenanthrene-d10	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	Naphthalene-d8	I5 =	Chrysene-d12	**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Acenaphthene-d10	I6 =	Perylene-d12	**524 Internal Standard concentration =5ug/L**

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M44278.D Method: EPA 8270D

Analysis Date/Time: 05/27/14 09:02

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	68248	5.72	297879	6.73	190986	8.14	375460	9.58	437118	12.60	436172	14.20
Eval File Area Limit:	34124-136496		148940-595758		95493-381972		187730-750920		218559-874236		218086-872344	
Eval File Rt Limit:	5.22-6.22		6.23-7.23		7.64-8.64		9.08-10.08		12.1-13.1		13.7-14.7	

Data File	Sample												
10M44279.	SMB33901	58794	5.72	255728	6.73	159341	8.14	320050	9.58	382726	12.60	368090	14.20
10M44280.	WMB33905	71388	5.72	304344	6.72	187098	8.14	353660	9.57	397049	12.60	389156	14.20
10M44281.	SMB33899	74999	5.72	323061	6.72	195328	8.14	370224	9.57	413101	12.60	382374	14.19
10M44282.	AC78801-019	74103	5.72	311112	6.72	185464	8.14	343774	9.57	360478	12.60	304127	14.19
10M44283.	AC78801-020	91613	5.72	384657	6.73	230676	8.14	423038	9.58	419023	12.60	356709	14.20
10M44284.	AC78801-023	67574	5.72	300217	6.73	188969	8.14	368687	9.58	393238	12.60	410556	14.20
10M44285.	AC78801-024	62141	5.72	268350	6.73	168312	8.14	327930	9.57	382928	12.60	373743	14.20
10M44286.	AC78801-026	72268	5.72	314635	6.73	196682	8.14	380316	9.57	440842	12.60	423176	14.20
10M44287.	AC78801-027	60545	5.72	268860	6.73	171280	8.14	338764	9.57	385336	12.60	360806	14.20
10M44288.	AC78801-028	61974	5.72	271340	6.73	176474	8.14	352544	9.58	415433	12.60	402889	14.20
10M44289.	AC78735-013	59700	5.72	268475	6.73	172637	8.14	348779	9.58	413868	12.60	404851	14.20
10M44290.	AC78735-014	45243	5.72	214389	6.73	143823	8.14	304404	9.58	387226	12.60	388039	14.20
10M44291.	AC78735-016	61589	5.72	273289	6.73	175566	8.14	350783	9.58	411011	12.60	403292	14.20
10M44292.	AC78735-017	67919	5.72	291402	6.73	184002	8.14	368183	9.57	433610	12.60	418731	14.20
10M44293.	AC78735-033	62218	5.72	277529	6.73	177874	8.14	352555	9.57	408857	12.60	398428	14.20
10M44294.	AC78735-034	70707	5.72	303854	6.73	191944	8.14	371036	9.58	419766	12.60	400109	14.20
10M44295.	WMB33918	67939	5.72	294295	6.73	187156	8.14	359325	9.58	410158	12.60	395923	14.20
10M44296.	SMB33917	59468	5.72	267941	6.72	172010	8.14	352486	9.57	412694	12.60	370724	14.20
10M44297.	AC78787-019	65194	5.72	291009	6.73	187530	8.14	358713	9.58	387443	12.60	368314	14.20
10M44298.	AC78787-020	66402	5.72	296640	6.72	191338	8.14	366409	9.58	412797	12.60	391422	14.20
10M44299.	AC78787-007	77076	5.72	334712	6.73	210814	8.14	397355	9.58	413498	12.60	339769	14.20
10M44300.	AC78787-008	0 A	0.00 R	742 A	6.73	0 A	0.00 R	0 A	0.00 R	0 A	0.00 R	0 A	0.00 R
10M44301.	AC78787-023	69169	5.72	306325	6.73	199437	8.14	380835	9.58	421373	12.60	403016	14.20
10M44302.	AC78787-024	75312	5.72	332041	6.73	208748	8.14	402442	9.58	447037	12.60	413887	14.20
10M44303.	AC78787-025	73675	5.72	326300	6.73	210572	8.14	401825	9.58	444882	12.60	409279	14.20
10M44304.	AC78787-026	71509	5.72	320344	6.73	206128	8.14	393972	9.58	429049	12.60	393851	14.20

I1 =	1,4-Dichlorobenzene-d4	I4 =	Phenanthrene-d10	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	Naphthalene-d8	I5 =	Chrysene-d12	**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Acenaphthene-d10	I6 =	Perylene-d12	**524 Internal Standard concentration =5ug/L**

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M44306.D Method: EPA 8270D

Analysis Date/Time: 05/28/14 09:24

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	80186	5.72	332028	6.73	201215	8.14	386798	9.58	453907	12.60	459735	14.20
Eval File Area Limit:	40093-160372		166014-664056		100608-402430		193399-773596		226954-907814		229868-919470	
Eval File Rt Limit:	5.22-6.22		6.23-7.23		7.64-8.64		9.08-10.08		12.1-13.1		13.7-14.7	

Data File	Sample												
10M44308.	AC78787-008	92905	5.72	386042	6.72	222627	8.14	388127	9.57	377871	12.60	335463	14.19
10M44309.	WMB33921(M	79023	5.72	315363	6.73	197323	8.14	375615	9.58	419125	12.60	415326	14.20
10M44310.	WMB33921	76470	5.72	325106	6.72	198708	8.13	373371	9.57	442735	12.60	455495	14.19
10M44311.	AC78855-005	59449	5.72	254316	6.72	158208	8.13	312335	9.57	369189	12.60	373340	14.19
10M44318.	WMB33925(M	76868	5.72	309205	6.73	183611	8.14	365344	9.58	402068	12.60	391099	14.20
10M44319.	WMB33925	82595	5.72	350331	6.72	215205	8.14	402850	9.57	440588	12.60	420646	14.20
10M44320.	EF-SPLP V-1	70482	5.72	306121	6.72	187826	8.13	357103	9.57	414180	12.60	412553	14.19
10M44321.	AC78583-003(	78022	5.72	331866	6.72	208663	8.13	387460	9.57	464738	12.60	459921	14.20
10M44322.	AC78581-009(	59653	5.72	257898	6.72	168128	8.13	320399	9.57	372775	12.60	374321	14.19
10M44323.	SMB33927	72236	5.72	305717	6.72	188637	8.13	360775	9.57	418976	12.60	390317	14.19
10M44324.	AC78801-020(	69357	5.72	289241	6.72	179770	8.13	340817	9.57	397530	12.60	383770	14.19
10M44325.	AC78801-024(	51368	5.72	220879	6.72	137272	8.13	270020	9.57	329314	12.60	334564	14.19
10M44326.	AC78801-026(	72726	5.72	304131	6.72	185874	8.13	340860	9.57	368213	12.60	336592	14.19

I1 =	1,4-Dichlorobenzene-d4	I4 =	Phenanthrene-d10	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	Naphthalene-d8	I5 =	Chrysene-d12	**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Acenaphthene-d10	I6 =	Perylene-d12	**524 Internal Standard concentration =5ug/L**

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M57047.D Method: EPA 8270D

Analysis Date/Time: 05/28/14 09:27

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	62566	5.87	259384	6.88	164774	8.32	345423	9.79	430223	12.84	430806	14.47
Eval File Area Limit:	31283-125132		129692-518768		82387-329548		172712-690846		215112-860446		215403-861612	
Eval File Rt Limit:	5.37-6.37		6.38-7.38		7.82-8.82		9.29-10.29		12.34-13.34		13.97-14.97	

Data File	Sample												
9M57048.D	AC78787-001(	89925	5.87	369413	6.88	224628	8.32	419993	9.79	466782	12.84	400430	14.47
9M57049.D	AC78787-002(	86487	5.87	362005	6.88	220206	8.31	410016	9.78	478034	12.83	396889	14.46
9M57050.D	AC78774-001(	91275	5.88	325902	6.89	202404	8.32	333278	9.79	303613	12.84	300540	14.47
9M57051.D	SMB33927(M	78306	5.87	298772	6.89	184797	8.32	313537	9.79	278368	12.83	245066	14.46
9M57052.D	SMB33927	73827	5.87	304819	6.88	181343	8.31	312493	9.78	281705	12.83	239745	14.45
9M57053.D	AC78871-001	75957	5.87	299337	6.88	173120	8.31	298462	9.78	253671	12.83	232830	14.45
9M57054.D	AC78871-001(	73370	5.87	281310	6.88	162852	8.31	265902	9.78	231797	12.83	229147	14.46
9M57055.D	AC78871-001(	73890	5.87	283986	6.88	168207	8.31	282958	9.78	261537	12.83	257244	14.46
9M57056.D	AC78871-002	71608	5.87	284940	6.88	163131	8.31	275891	9.78	235809	12.83	224977	14.46
9M57057.D	AC78801-028(	64681	5.87	257240	6.88	147945	8.31	254009	9.78	215933	12.83	203213A	14.46
9M57058.D	AC78801-019(	76253	5.87	308985	6.88	177363	8.31	305590	9.78	263899	12.83	244169	14.46
9M57059.D	AC78825-001	83819	5.87	327883	6.88	181897	8.31	296985	9.78	265131	12.83	255994	14.45
9M57060.D	AC78825-002	66009	5.87	260058	6.88	151158	8.31	271762	9.78	243760	12.83	221685	14.45
9M57061.D	AC78787-018	62202	5.87	255378	6.88	140561	8.32	277374	9.79	293186	12.83	240941	14.46

I1 =	1,4-Dichlorobenzene-d4	I4 =	Phenanthrene-d10	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Naphthalene-d8	I5 =	Chrysene-d12	624/8260 Internal Standard concentration = 30ug/L
I3 =	Acenaphthene-d10	I6 =	Perylene-d12	524 Internal Standard concentration =5ug/L

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M44331.D Method: EPA 8270D

Analysis Date/Time: 05/29/14 09:56

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	61911	5.72	266719	6.73	151355	8.14	293220	9.58	361072	12.60	367233	14.20
Eval File Area Limit:	30956-123822		133360-533438		75678-302710		146610-586440		180536-722144		183616-734466	
Eval File Rt Limit:	5.22-6.22		6.23-7.23		7.64-8.64		9.08-10.08		12.1-13.1		13.7-14.7	

Data File	Sample												
10M44330.	BNA@50PPM	49661	5.72	220232	6.73	133249	8.14	272612	9.58	356176	12.60	376712	14.20
10M44332.	MECL2 TEST	80027	5.72	329184	6.72	189259	8.13	350764	9.57	404538	12.60	402240	14.19
10M44333.	AC78787-018	88713	5.72	309731	6.72	155796	8.14	292262	9.58	294726	12.60	277496	14.19
10M44334.	SMB33935(M	80588	5.72	310999	6.73	190155	8.14	311758	9.57	314235	12.60	290610	14.19
10M44335.	SMB33935	84159	5.72	334723	6.72	199307	8.13	340097	9.57	330866	12.59	283250	14.19
10M44336.	AC78669-001	86021	5.72	336299	6.72	190592	8.13	332079	9.57	332116	12.60	306396	14.19
10M44337.	WMB33941(M	76796	5.72	302599	6.73	179500	8.14	340789	9.57	381792	12.60	358769	14.20
10M44338.	WMB33941	51349	5.72	217526	6.72	129236	8.13	250556	9.57	316227	12.60	342024	14.19
10M44339.	AC78669-002	85436	5.72	335974	6.72	191150	8.13	329788	9.57	322072	12.60	292294	14.19
10M44340.	AC78669-003	93025	5.72	377005	6.72	215092	8.14	374520	9.57	380428	12.60	348955	14.19
10M44341.	AC78669-005	75089	5.72	289544	6.72	171189	8.13	313122	9.57	350239	12.60	318092	14.19
10M44342.	AC78880-001	72819	5.72	291283	6.72	175547	8.13	298400	9.57	295528	12.60	275912	14.19
10M44343.	AC78880-002	74966	5.72	291535	6.72	162748	8.13	281576	9.57	273121	12.60	257293	14.19
10M44344.	AC78880-001(	70450	5.72	293262	6.73	170605	8.13	324397	9.57	326862	12.60	301200	14.19
10M44345.	AC78880-001(	74298	5.72	301965	6.72	164720	8.13	282636	9.57	274473	12.60	253293	14.19
10M44346.	AC78735-001(	61605	5.72	259854	6.72	159395	8.14	297785	9.57	347048	12.60	341479	14.19
10M44347.	AC78735-001(	82416	5.72	313531	6.73	196977	8.14	371006	9.58	389966	12.60	362662	14.20
10M44348.	AC78735-001(	77982	5.72	316570	6.73	191408	8.14	362594	9.58	415030	12.60	375326	14.20

I1 =	1,4-Dichlorobenzene-d4	I4 =	Phenanthrene-d10	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	Naphthalene-d8	I5 =	Chrysene-d12	**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Acenaphthene-d10	I6 =	Perylene-d12	**524 Internal Standard concentration =5ug/L**

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

GC/MS Semi-Volatile Data
Sample Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-001(10X)
Client Id: EXT1(0-2')
Data File: 9M57048.D
Analysis Date: 05/28/14 11:59
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 10
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.41	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.41**	**6.7**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.41	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.41**	**3.1**
58-90-2	2,3,4,6-Tetrachlorophenol	0.41	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.41**	**2.4**
95-95-4	2,4,5-Trichlorophenol	0.41	U	111-91-1	bis(2-Chloroethoxy)methan	0.41	U
88-06-2	2,4,6-Trichlorophenol	0.41	U	111-44-4	bis(2-Chloroethyl)ether	0.10	U
120-83-2	2,4-Dichlorophenol	0.10	U	108-60-1	bis(2-chloroisopropyl)ether	0.41	U
105-67-9	2,4-Dimethylphenol	0.10	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.41	U
51-28-5	2,4-Dinitrophenol	2.0	U	85-68-7	Butylbenzylphthalate	0.41	U
121-14-2	2,4-Dinitrotoluene	0.41	U	105-60-2	Caprolactam	0.41	U
606-20-2	2,6-Dinitrotoluene	0.41	U	**86-74-8**	**Carbazole**	**0.41**	**0.53**
91-58-7	2-Chloronaphthalene	0.41	U	**218-01-9**	**Chrysene**	**0.41**	**5.2**
95-57-8	2-Chlorophenol	0.41	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.41**	**0.80**
91-57-6	2-Methylnaphthalene	0.41	U	**132-64-9**	**Dibenzofuran**	**0.10**	**0.24**
95-48-7	2-Methylphenol	0.10	U	84-66-2	Diethylphthalate	0.41	U
88-74-4	2-Nitroaniline	0.41	U	131-11-3	Dimethylphthalate	0.41	U
88-75-5	2-Nitrophenol	0.41	U	84-74-2	Di-n-butylphthalate	0.20	U
106-44-5	3&4-Methylphenol	0.10	U	117-84-0	Di-n-octylphthalate	0.41	U
91-94-1	3,3'-Dichlorobenzidine	0.41	U	**206-44-0**	**Fluoranthene**	**0.41**	**11**
99-09-2	3-Nitroaniline	0.41	U	**86-73-7**	**Fluorene**	**0.41**	**0.42**
534-52-1	4,6-Dinitro-2-methylphenol	2.0	U	118-74-1	Hexachlorobenzene	0.41	U
101-55-3	4-Bromophenyl-phenylether	0.41	U	87-68-3	Hexachlorobutadiene	0.41	U
59-50-7	4-Chloro-3-methylphenol	0.41	U	77-47-4	Hexachlorocyclopentadiene	0.41	U
106-47-8	4-Chloroaniline	0.19	U	67-72-1	Hexachloroethane	0.41	U
7005-72-3	4-Chlorophenyl-phenylether	0.41	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.41**	**2.7**
100-01-6	4-Nitroaniline	0.41	U	78-59-1	Isophorone	0.41	U
100-02-7	4-Nitrophenol	0.41	U	**91-20-3**	**Naphthalene**	**0.10**	**0.15**
83-32-9	**Acenaphthene**	**0.41**	**0.60**	98-95-3	Nitrobenzene	0.41	U
208-96-8	Acenaphthylene	0.41	U	621-64-7	N-Nitroso-di-n-propylamine	0.10	U
98-86-2	Acetophenone	0.41	U	86-30-6	n-Nitrosodiphenylamine	0.41	U
120-12-7	**Anthracene**	**0.41**	**1.5**	87-86-5	Pentachlorophenol	2.0	U
1912-24-9	Atrazine	0.41	U	**85-01-8**	**Phenanthrene**	**0.41**	**7.4**
100-52-7	Benzaldehyde	0.41	U	108-95-2	Phenol	0.41	U
56-55-3	**Benzo[a]anthracene**	**0.41**	**6.1**	**129-00-0**	**Pyrene**	**0.41**	**11**
50-32-8	**Benzo[a]pyrene**	**0.41**	**5.3**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

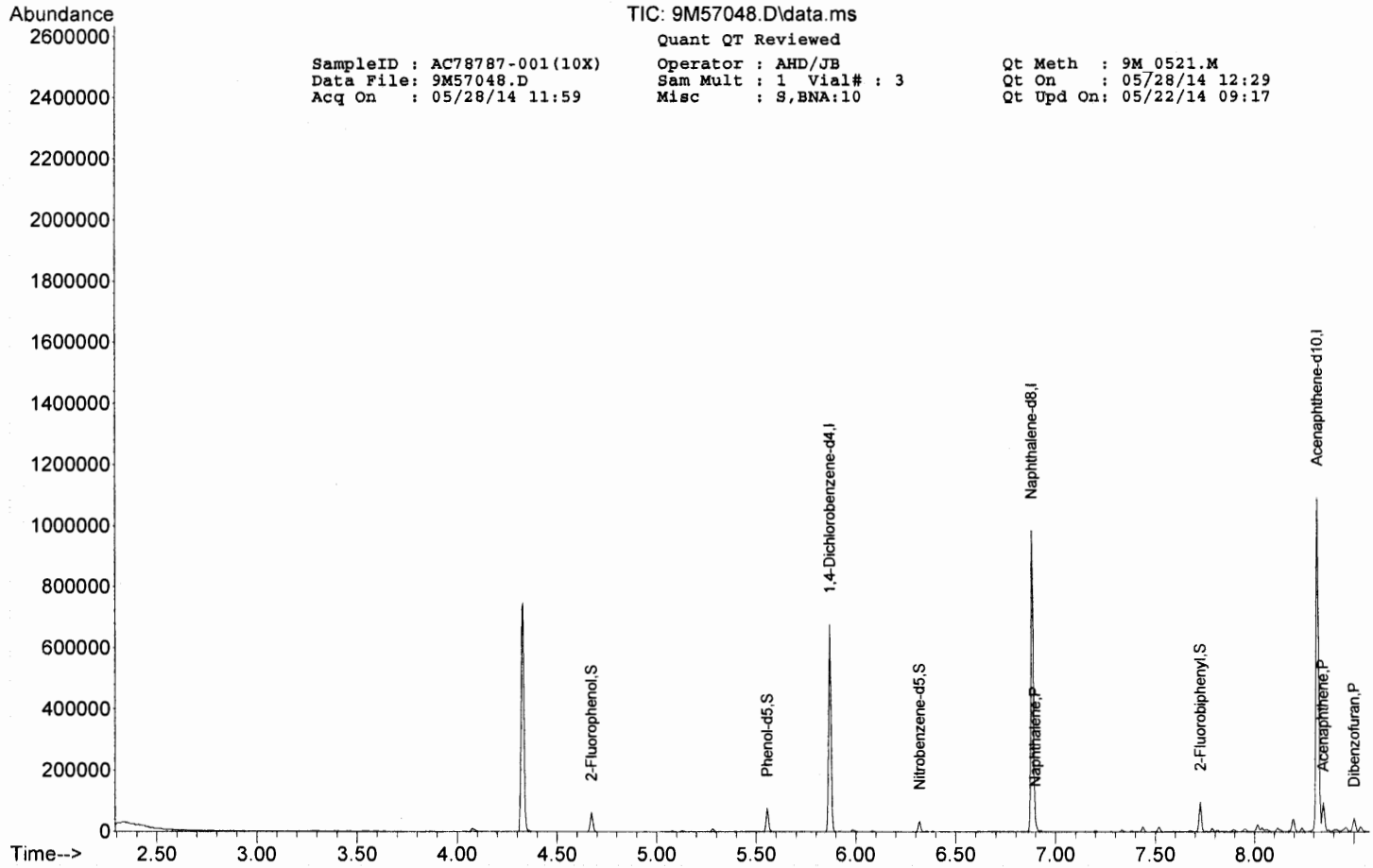
Quantitation Report (QT Reviewed)

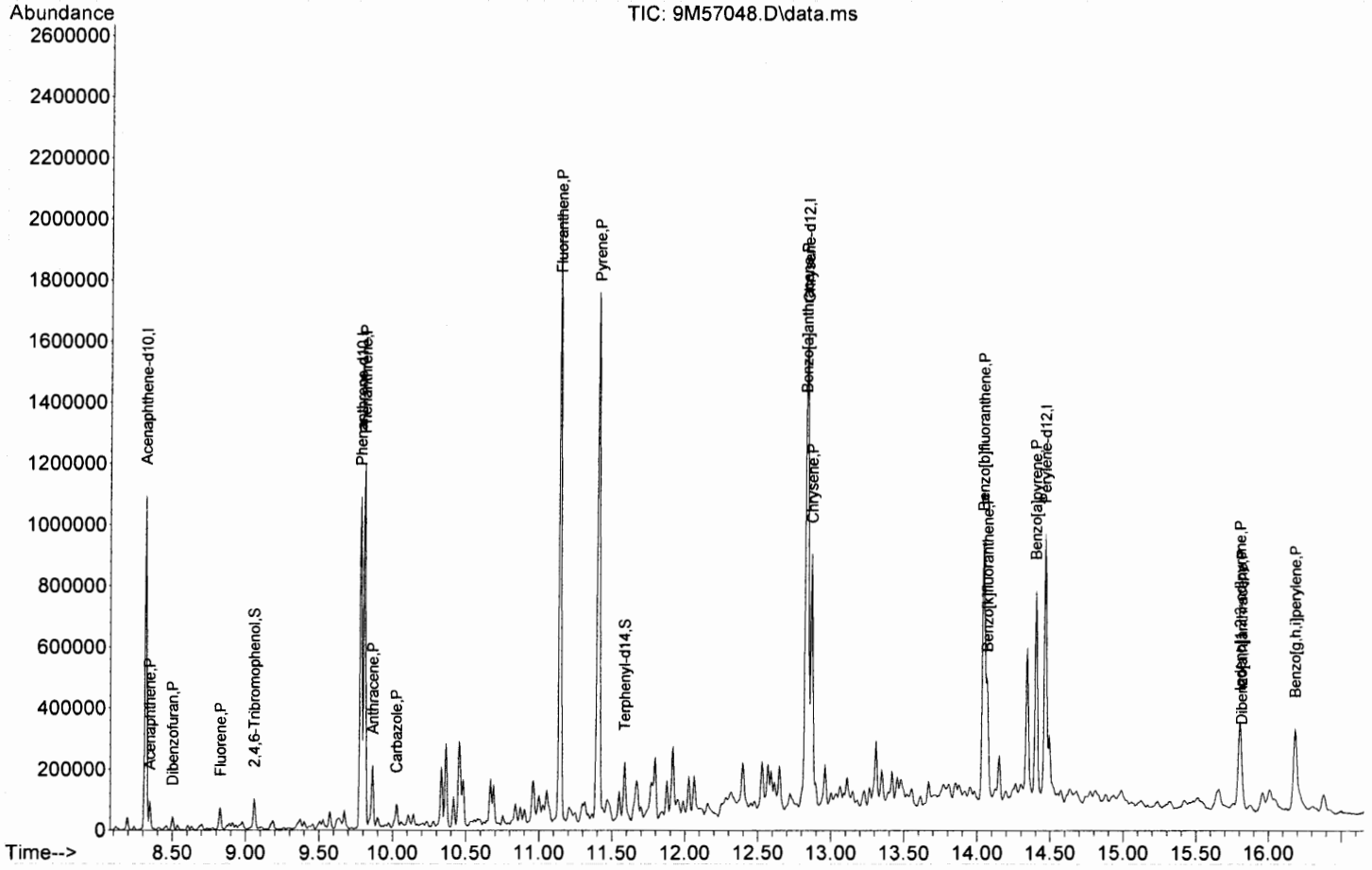
SampleID : AC78787-001(10X) Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57048.D Sam Mult : 1 Vial# : 3 Qt On : 05/28/14 12:29
Acq On : 05/28/14 11:59 Misc : S,BNA:10 Qt Upd On: 05/22/14 09:17

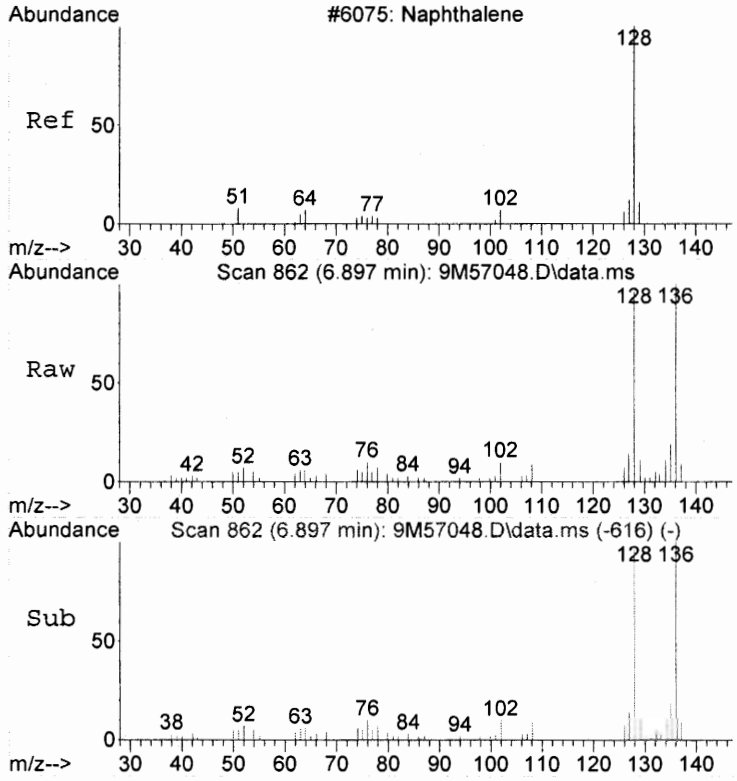
Data Path : G:\GcMsData\2014\GCMS_9\Data\05-28-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.871	152	89925	40.00	ng	-0.01
29) Naphthalene-d8	6.881	136	369413	40.00	ng	-0.01
47) Acenaphthene-d10	8.320	164	224628	40.00	ng	-0.01
74) Phenanthrene-d10	9.786	188	419993	40.00	ng	-0.01
88) Chrysene-d12	12.840	240	466782	40.00	ng	-0.01
100) Perylene-d12	14.466	264	400430	40.00	ng	-0.01
System Monitoring Compounds						
10) 2-Fluorophenol	4.672	112	16856	5.29	ng	-0.01
Spiked Amount 100.000			Recovery	=	5.29%	
15) Phenol-d5	5.555	99	23704	5.72	ng	-0.01
Spiked Amount 100.000			Recovery	=	5.72%	
30) Nitrobenzene-d5	6.320	128	4837	2.76	ng	-0.01
Spiked Amount 50.000			Recovery	=	5.52%	
52) 2-Fluorobiphenyl	7.726	172	25624	3.06	ng	-0.01
Spiked Amount 50.000			Recovery	=	6.12%	
77) 2,4,6-Tribromophenol	9.058	330	8309	5.56	ng	-0.02
Spiked Amount 100.000			Recovery	=	5.56%	
91) Terphenyl-d14	11.588	244	32775	3.14	ng	-0.01
Spiked Amount 50.000			Recovery	=	6.28%	
Target Compounds						Qvalue
39) Naphthalene	6.897	128	8130	0.7432	ng	97
62) Acenaphthene	8.347	153	22735	2.9621	ng	95
65) Dibenzofuran	8.502	168	12346	1.1873	ng	96
69) Fluorene	8.828	166	18779	2.0859	ng	95
83) Phenanthrene	9.812	178	456164	36.6029	ng	99
84) Anthracene	9.866	178	90776	7.1816	ng	98
85) Carbazole	10.026	167	31988	2.6187	ng	97
87) Fluoranthene	11.144	202	829345	54.8090	ng	83
89) Pyrene	11.412	202	820427	56.3697	ng	78
97) Benzo[a]anthracene	12.829	228	436430	30.1691	ng	98
98) Chrysene	12.872	228	344173	25.6722	ng	98
102) Benzo[b]fluoranthene	14.043	252	432949m	33.1512	ng	
103) Benzo[k]fluoranthene	14.070	252	149910m	12.0153	ng	
104) Benzo[a]pyrene	14.402	252	318463	26.0840	ng	90
105) Indeno[1,2,3-cd]pyrene	15.803	276	186100	13.4748	ng	71
106) Dibenzo[a,h]anthracene	15.814	278	45377	3.9125	ng	90
107) Benzo[g,h,i]perylene	16.183	276	174348	15.2860	ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M57048.D\data.ms
Quant QT Reviewed
SampleID : AC78787-001(10X)
Data File: 9M57048.D
Acq On : 05/28/14 11:59
Operator : AHD/JB
Sam Mult : 1 Vial# : 3
Misc : S,BNA:10
Qt Meth : 9M_0521.M
Qt On : 05/28/14 12:29
Qt Upd On: 05/22/14 09:17
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P
Time-->

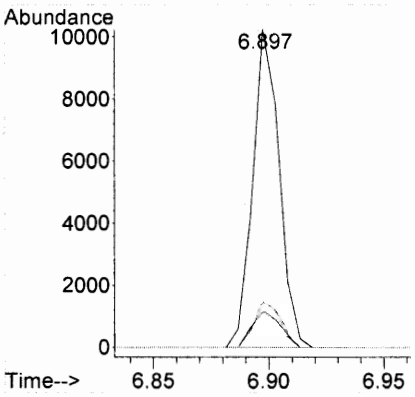

Abundance
TIC: 9M57048.D\data.ms
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P
Fluorene,P
2,4,6-Tribromophenol,S
Anthracene,P
Carbazole,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene,P
Benzo[b]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

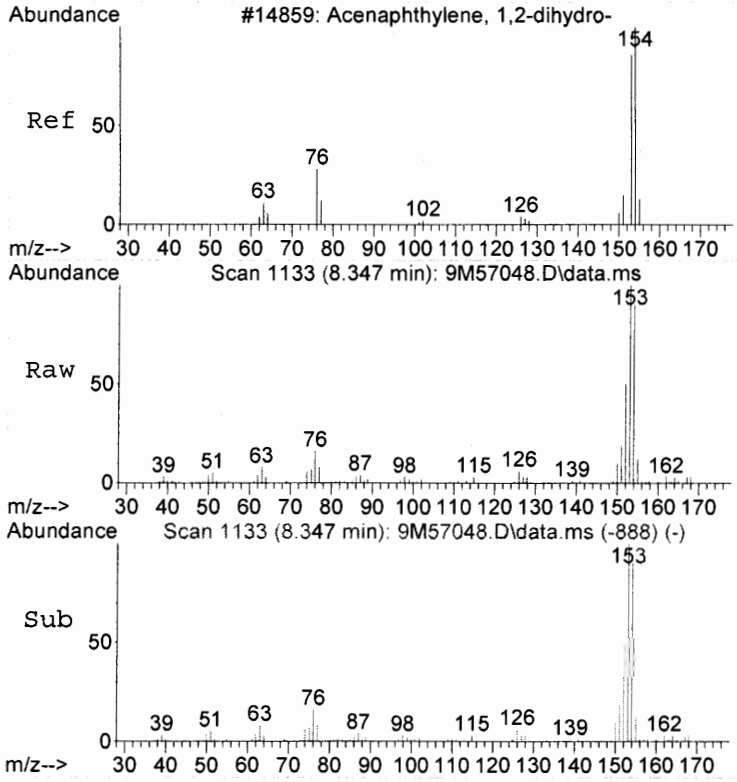


#39
Naphthalene
Concen: 0.74 ng
RT: 6.897 min Scan# 862
Delta R.T. -0.011 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:128 Resp: 8130

Ion	Ratio	Lower	Upper
128	100		
129	11.0	0.0	50.9
127	14.4	0.0	52.4

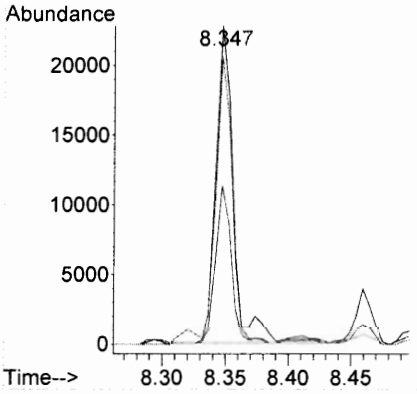


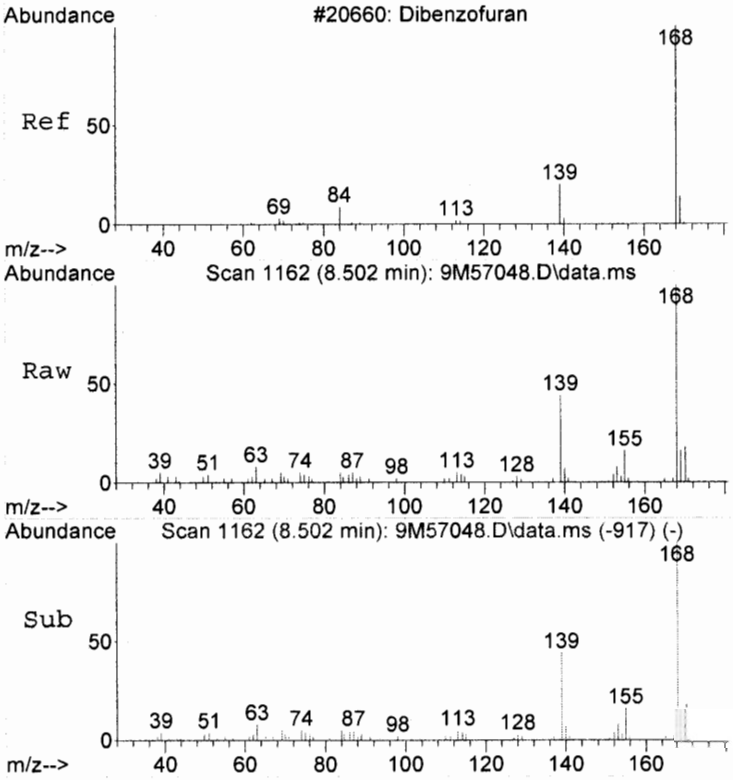


#62
Acenaphthene
Concen: 2.96 ng
RT: 8.347 min Scan# 1133
Delta R.T. -0.016 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:153 Resp: 22735

Ion	Ratio	Lower	Upper
153	100		
152	50.1	10.0	90.0
154	90.4	57.5	137.5

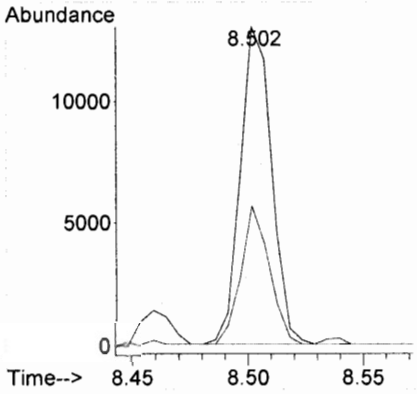


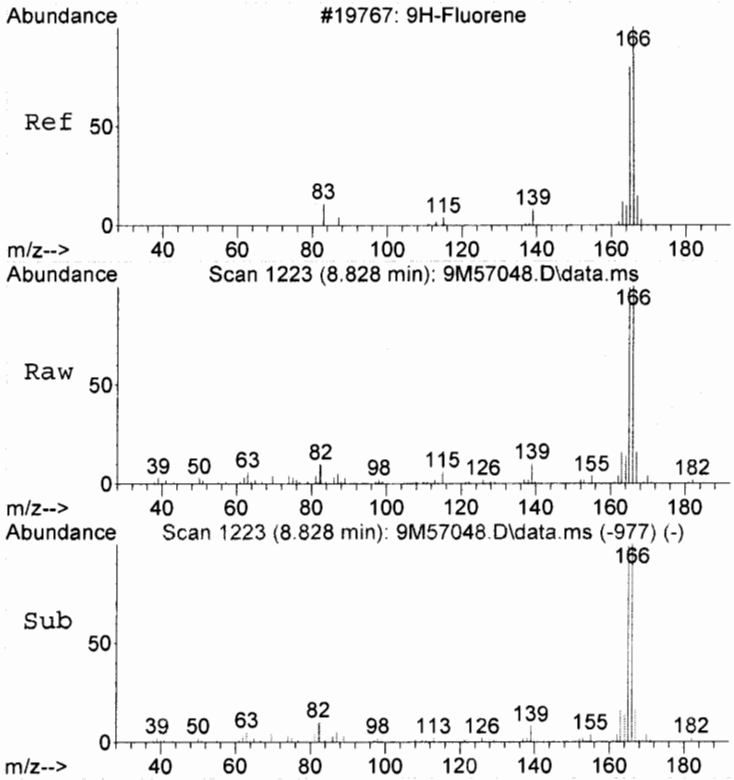


#65
Dibenzofuran
Concen: 1.19 ng
RT: 8.502 min Scan# 1162
Delta R.T. -0.016 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:168 Resp: 12346

Ion	Ratio	Lower	Upper
168	100		
139	43.6	0.0	246.0

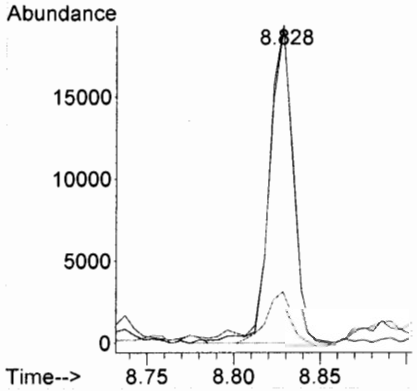


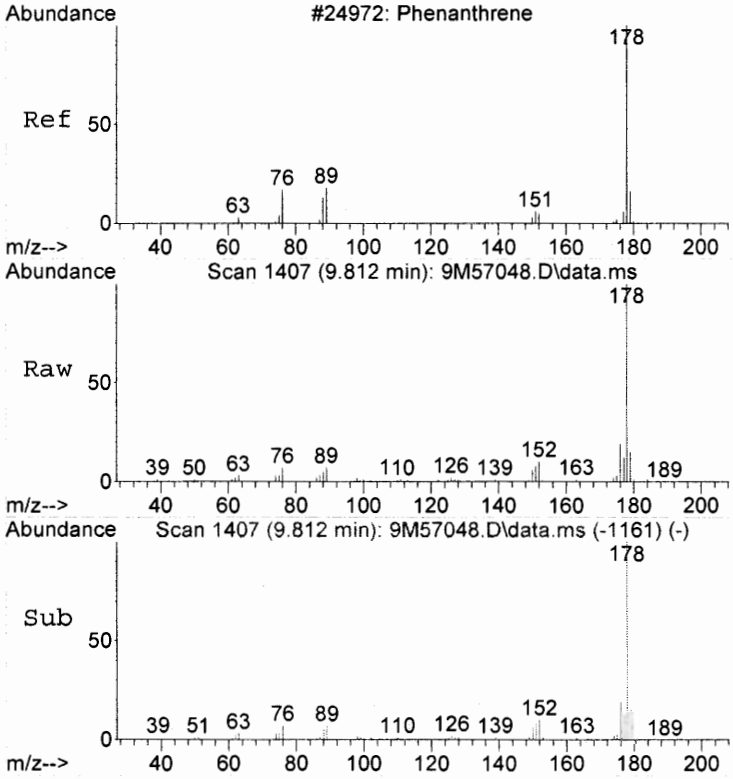


#69
Fluorene
Concen: 2.09 ng
RT: 8.828 min Scan# 1223
Delta R.T. -0.011 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:166 Resp: 18779

Ion	Ratio	Lower	Upper
166	100		
165	97.6	0.0	292.6
167	15.2	0.0	213.2

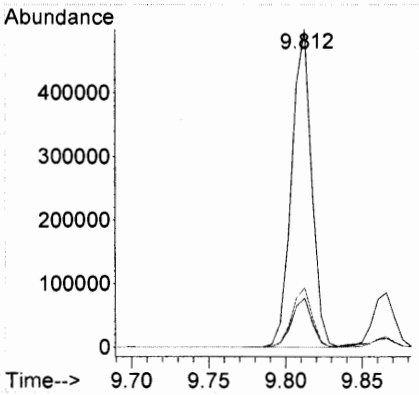


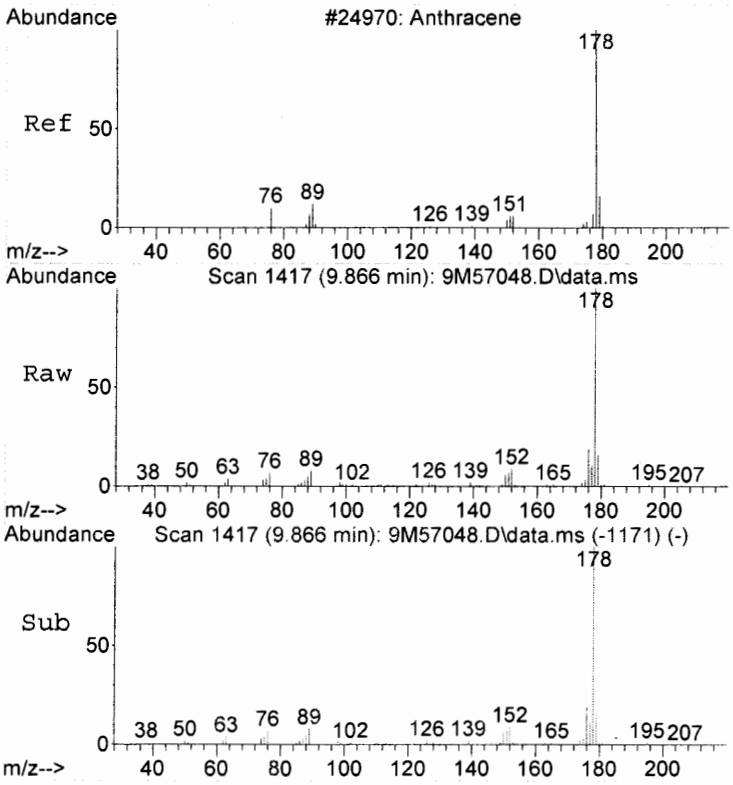


#83
Phenanthrene
Concen: 36.60 ng
RT: 9.812 min Scan# 1407
Delta R.T. -0.011 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:178 Resp: 456164

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	55.5
176	18.7	0.0	59.3

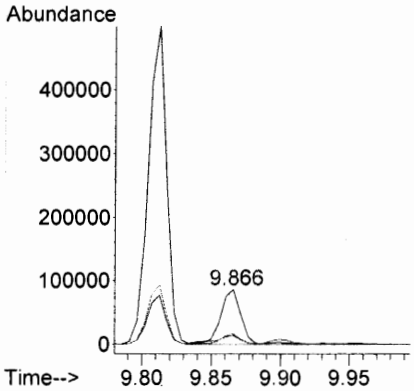


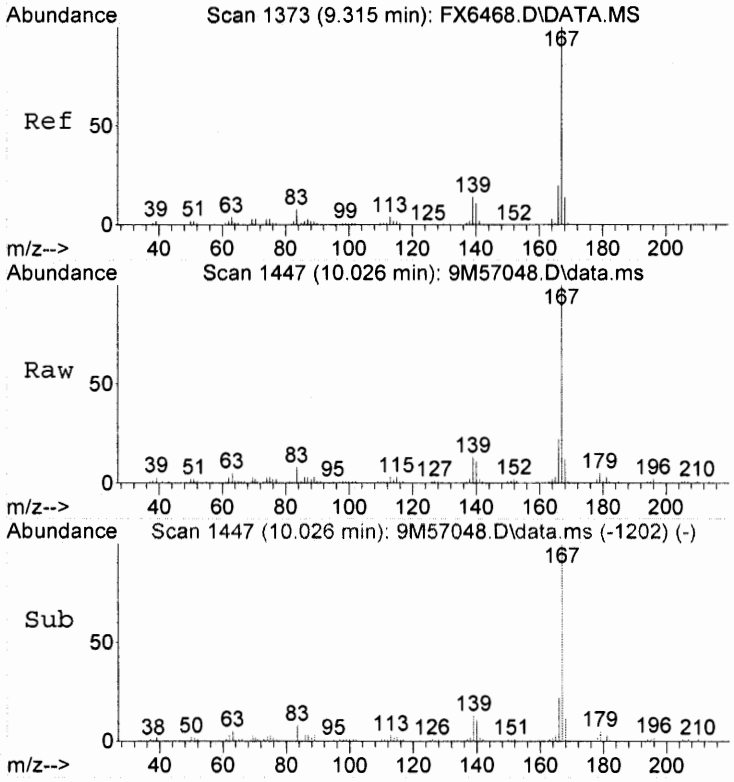


#84
Anthracene
Concen: 7.18 ng
RT: 9.866 min Scan# 1417
Delta R.T. -0.011 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:178 Resp: 90776

Ion	Ratio	Lower	Upper
178	100		
179	14.6	0.0	55.2
176	19.4	0.0	58.1

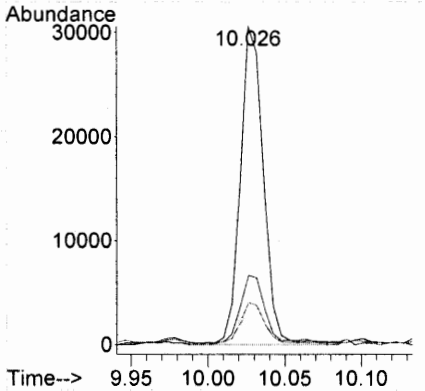


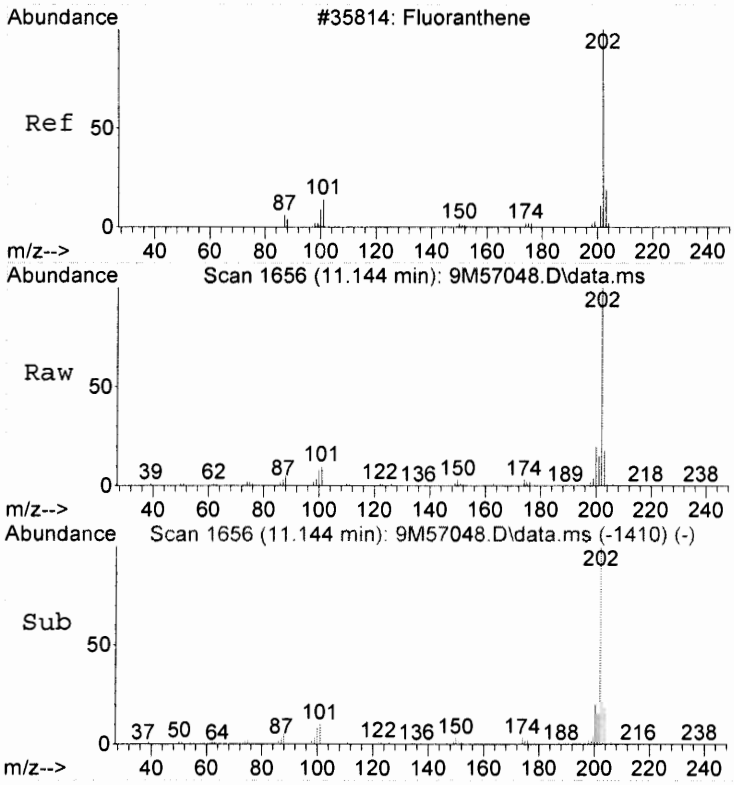


#85
Carbazole
Concen: 2.62 ng
RT: 10.026 min Scan# 1447
Delta R.T. -0.016 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:167 Resp: 31988

Ion	Ratio	Lower	Upper
167	100		
166	21.1	0.2	40.2
139	12.7	0.0	35.0

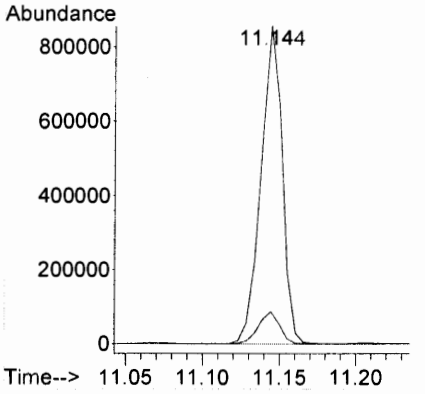


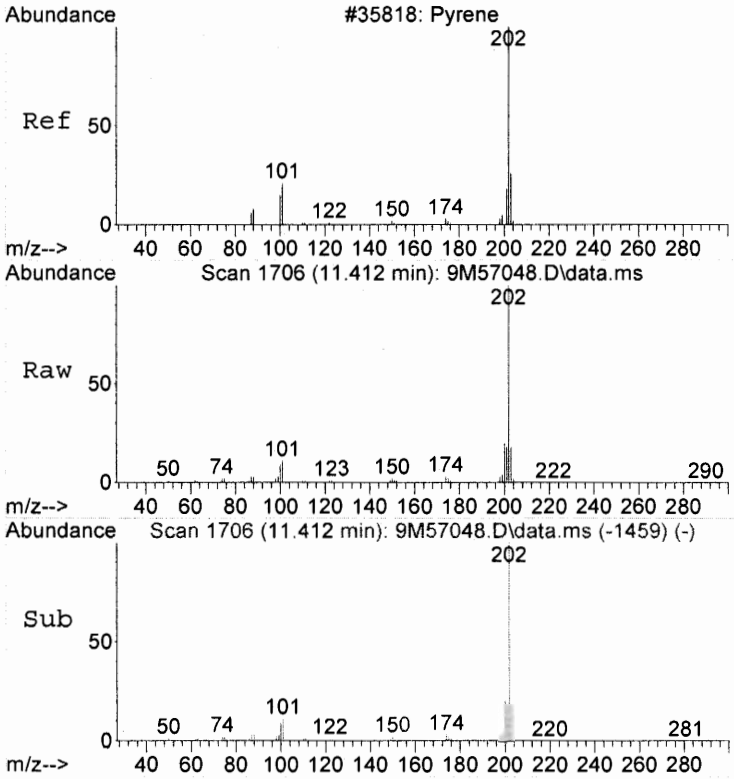


#87
Fluoranthene
Concen: 54.81 ng
RT: 11.144 min Scan# 1656
Delta R.T. -0.011 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:202 Resp: 829345

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	57.6

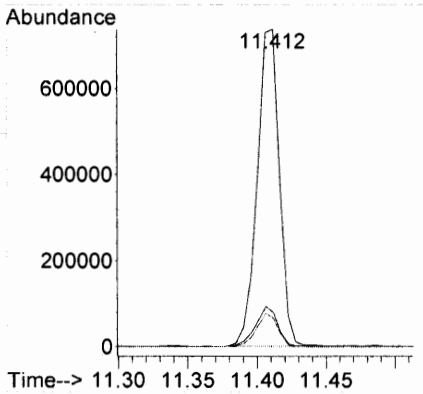


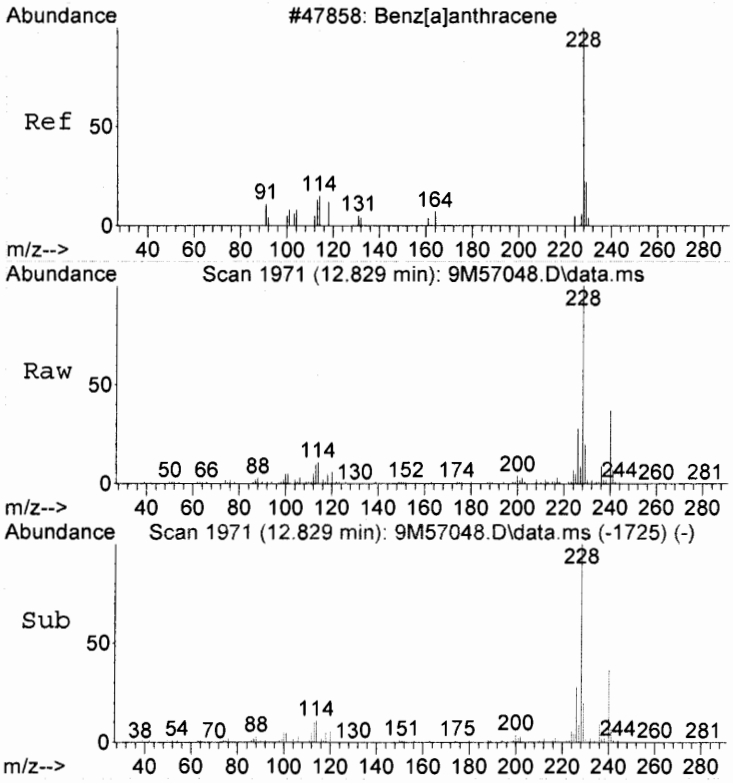


#89
Pyrene
Concen: 56.37 ng
RT: 11.412 min Scan# 1706
Delta R.T. -0.005 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:202 Resp: 820427

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	62.2
100	9.0	0.0	57.8

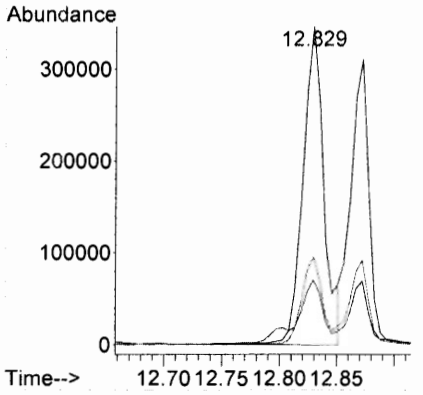


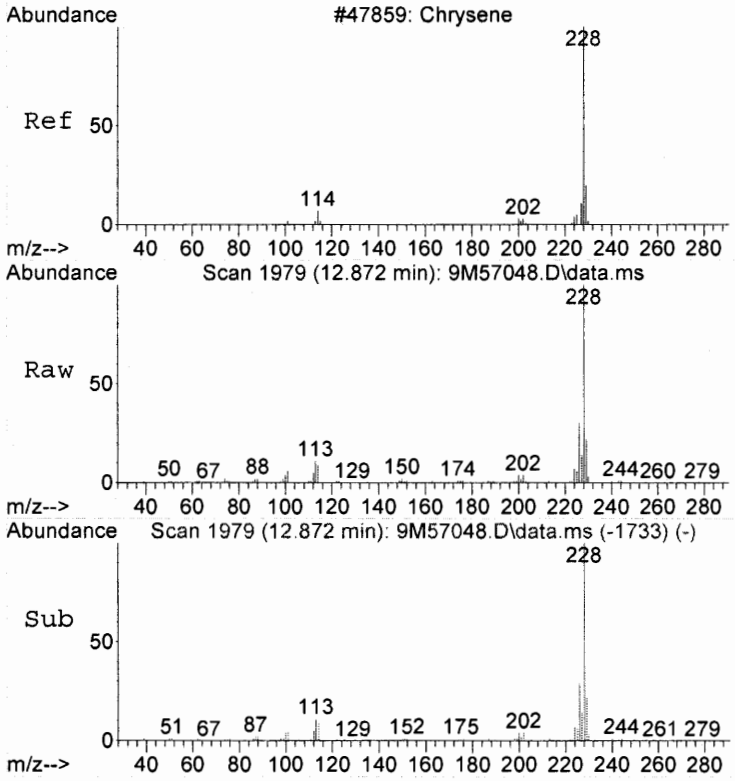


#97
Benzo[a]anthracene
Concen: 30.17 ng
RT: 12.829 min Scan# 1971
Delta R.T. -0.011 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:228 Resp: 436430

Ion	Ratio	Lower	Upper
228	100		
229	20.0	0.0	59.5
226	27.6	0.0	66.0

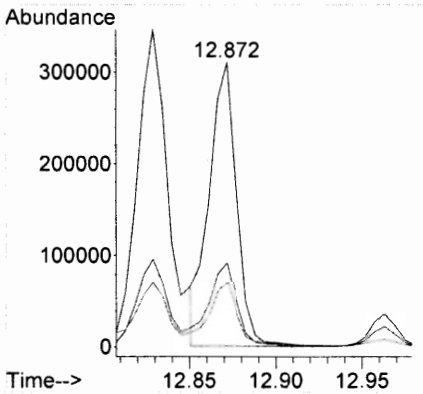


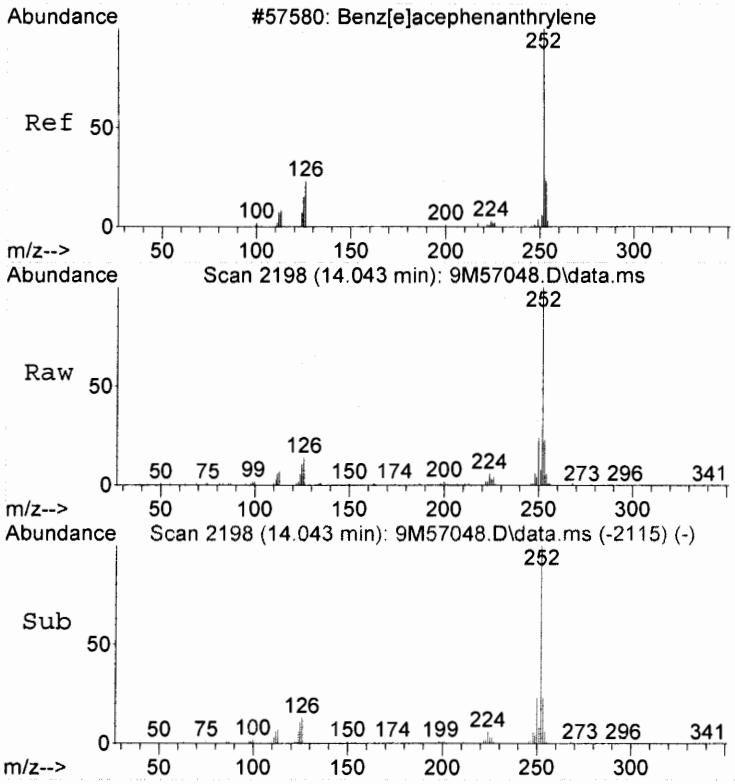


#98
Chrysene
Concen: 25.67 ng
RT: 12.872 min Scan# 1979
Delta R.T. -0.011 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:228 Resp: 344173

Ion	Ratio	Lower	Upper
228	100		
226	29.4	9.5	49.5
229	21.9	0.0	60.2

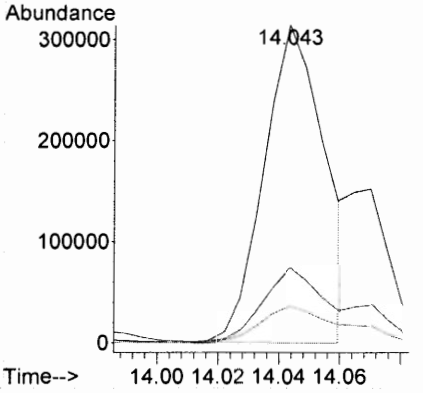


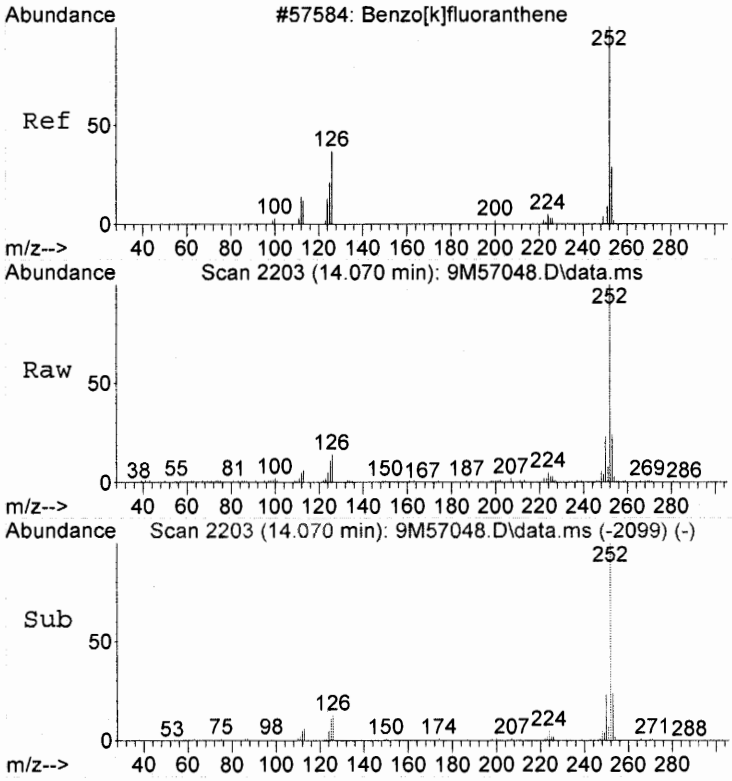


#102
Benzo[b]fluoranthene
Concen: 33.15 ng m
RT: 14.043 min Scan# 2198
Delta R.T. -0.011 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:252 Resp: 432949

Ion	Ratio	Lower	Upper
252	100		
253	23.3	0.0	62.3
125	11.5	0.0	58.4

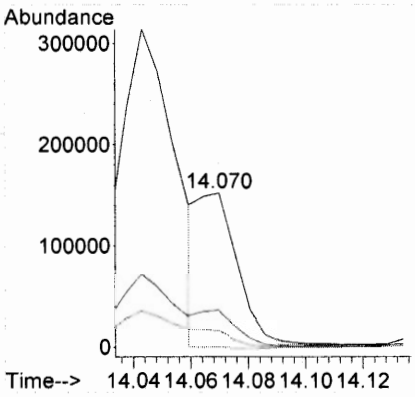


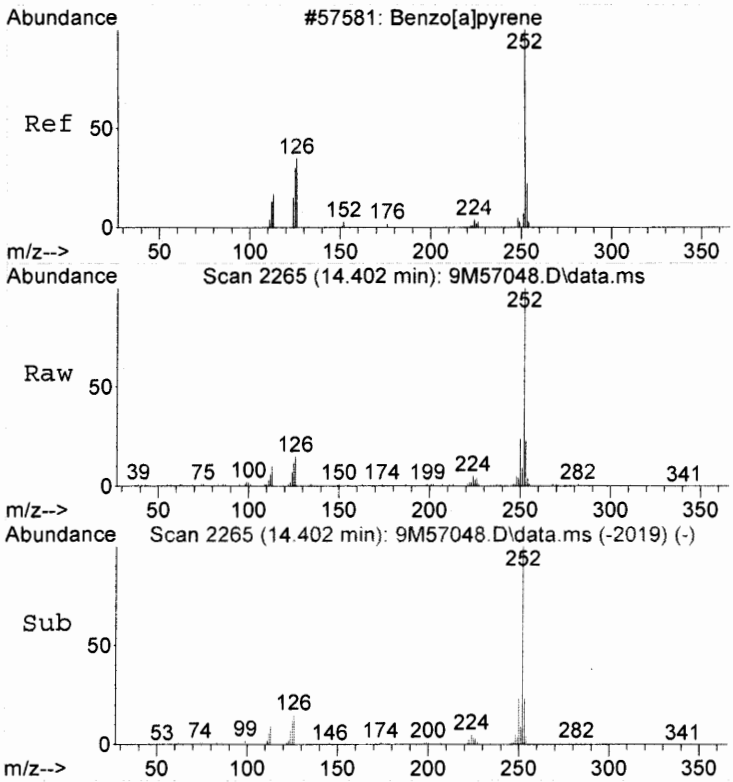


#103
Benzo[k]fluoranthene
Concen: 12.02 ng m
RT: 14.070 min Scan# 2203
Delta R.T. -0.011 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:252 Resp: 149910

Ion	Ratio	Lower	Upper
252	100		
253	24.3	0.0	52.2
125	10.8	0.0	48.9

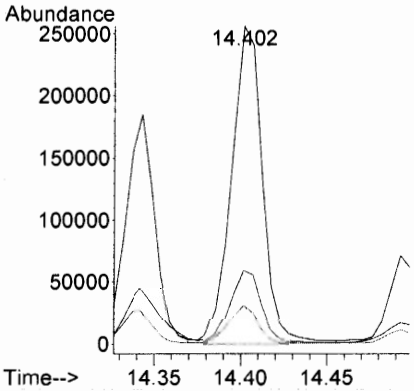


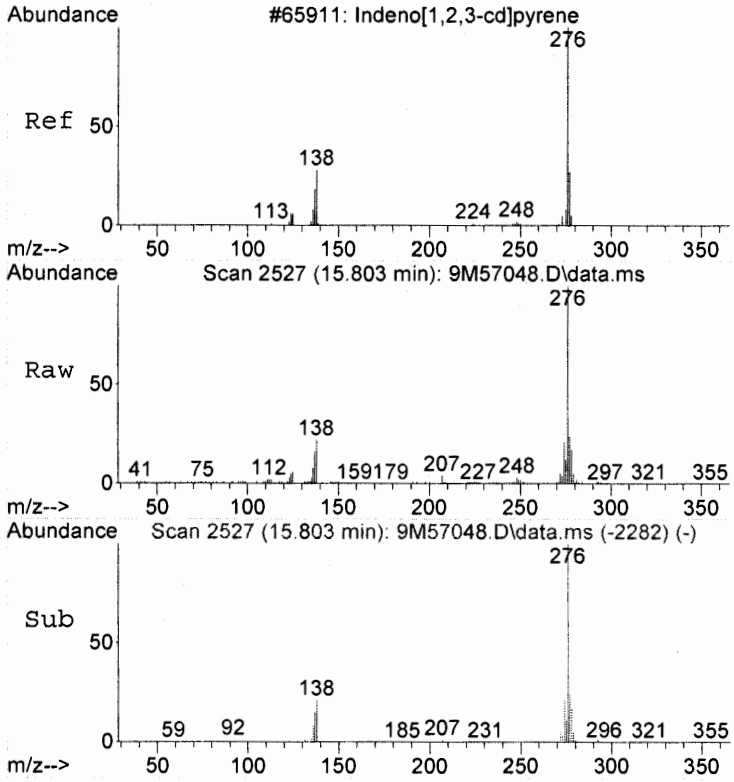


#104
Benzo[a]pyrene
Concen: 26.08 ng
RT: 14.402 min Scan# 2265
Delta R.T. -0.011 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:252 Resp: 318463

Ion	Ratio	Lower	Upper
252	100		
253	22.9	0.0	62.4
125	11.8	0.0	60.9

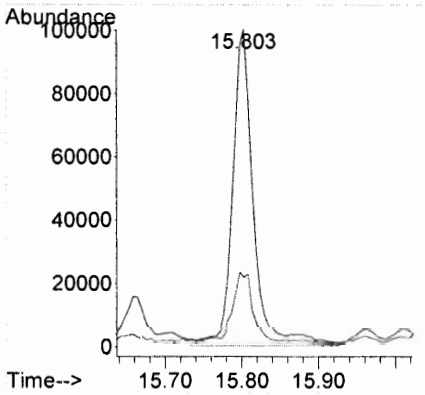


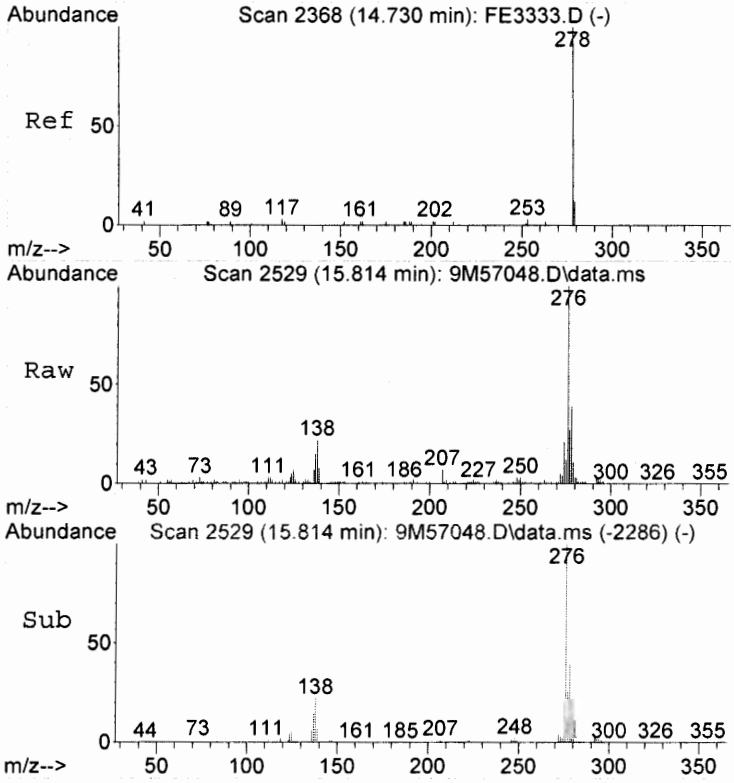


#105
Indeno[1,2,3-cd]pyrene
Concen: 13.47 ng
RT: 15.803 min Scan# 2527
Delta R.T. -0.016 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:276 Resp: 186100

Ion	Ratio	Lower	Upper
276	100		
138	21.4	0.0	78.9

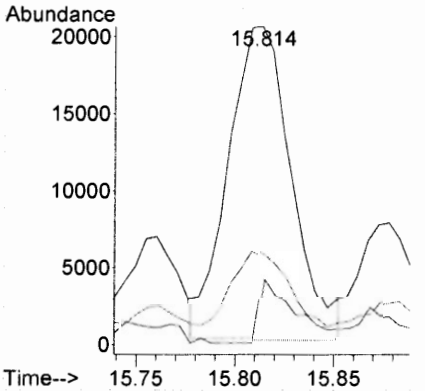


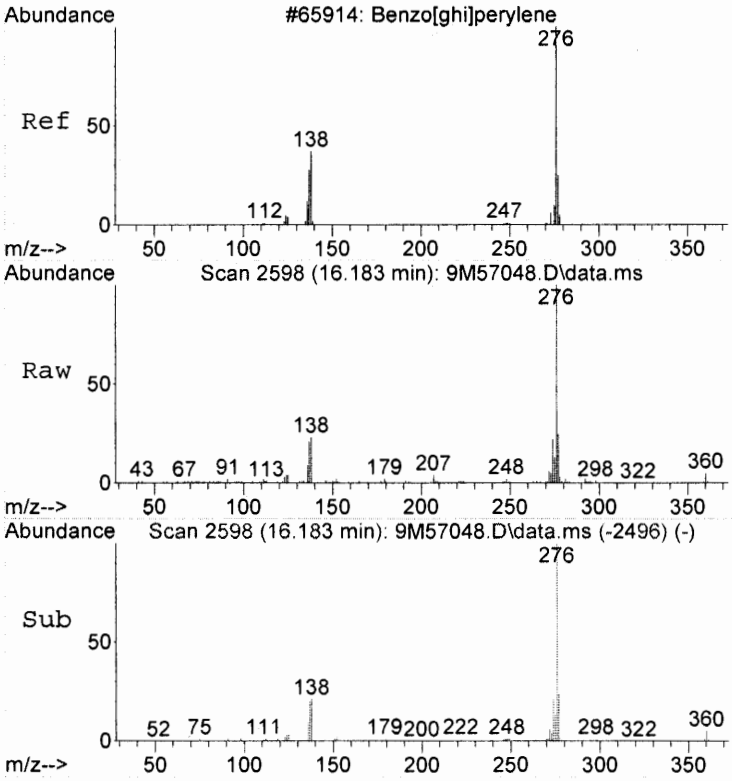


#106
Dibenzo[a,h]anthracene
Concen: 3.91 ng
RT: 15.814 min Scan# 2529
Delta R.T. -0.027 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:278 Resp: 45377

Ion	Ratio	Lower	Upper
278	100		
139	23.4	0.0	72.0
279	25.0	0.0	63.9

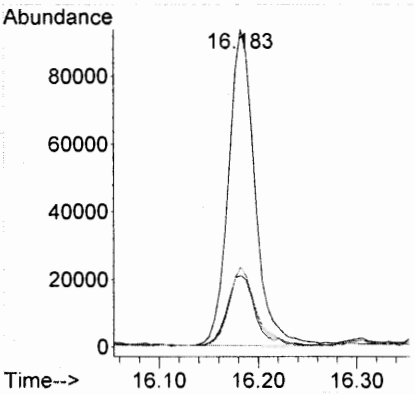




#107
Benzo[g,h,i]perylene
Concen: 15.29 ng
RT: 16.183 min Scan# 2598
Delta R.T. -0.021 min
Lab File: 9M57048.D
Acq: 28 May 2014 11:59

Tgt Ion:276 Resp: 174348

Ion	Ratio	Lower	Upper
276	100		
138	23.8	0.0	100.0
277	25.0	0.0	60.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-002(50X)
Client Id: EXT1(15-17')
Data File: 9M57049.D
Analysis Date: 05/28/14 12:22
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 50
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	1.9	U	**205-99-2**	**Benzo[b]fluoranthene**	**1.9**	**29**
95-94-3	1,2,4,5-Tetrachlorobenzene	1.9	U	**191-24-2**	**Benzo[g,h,i]perylene**	**1.9**	**11**
58-90-2	2,3,4,6-Tetrachlorophenol	1.9	U	**207-08-9**	**Benzo[k]fluoranthene**	**1.9**	**6.7**
95-95-4	2,4,5-Trichlorophenol	1.9	U	111-91-1	bis(2-Chloroethoxy)methan	1.9	U
88-06-2	2,4,6-Trichlorophenol	1.9	U	111-44-4	bis(2-Chloroethyl)ether	0.48	U
120-83-2	2,4-Dichlorophenol	0.48	U	108-60-1	bis(2-chloroisopropyl)ether	1.9	U
105-67-9	2,4-Dimethylphenol	0.48	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.9	U
51-28-5	2,4-Dinitrophenol	9.6	U	85-68-7	Butylbenzylphthalate	1.9	U
121-14-2	2,4-Dinitrotoluene	1.9	U	105-60-2	Caprolactam	1.9	U
606-20-2	2,6-Dinitrotoluene	1.9	U	**86-74-8**	**Carbazole**	**1.9**	**5.8**
91-58-7	2-Chloronaphthalene	1.9	U	**218-01-9**	**Chrysene**	**1.9**	**22**
95-57-8	2-Chlorophenol	1.9	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**1.9**	**2.7**
91-57-6	**2-Methylnaphthalene**	**1.9**	**3.2**	**132-64-9**	**Dibenzofuran**	**0.48**	**6.9**
95-48-7	2-Methylphenol	0.48	U	84-66-2	Diethylphthalate	1.9	U
88-74-4	2-Nitroaniline	1.9	U	131-11-3	Dimethylphthalate	1.9	U
88-75-5	2-Nitrophenol	1.9	U	84-74-2	Di-n-butylphthalate	0.96	U
106-44-5	3&4-Methylphenol	0.48	U	117-84-0	Di-n-octylphthalate	1.9	U
91-94-1	3,3'-Dichlorobenzidine	1.9	U	**206-44-0**	**Fluoranthene**	**1.9**	**65**
99-09-2	3-Nitroaniline	1.9	U	**86-73-7**	**Fluorene**	**1.9**	**6.7**
534-52-1	4,6-Dinitro-2-methylphenol	9.6	U	118-74-1	Hexachlorobenzene	1.9	U
101-55-3	4-Bromophenyl-phenylether	1.9	U	87-68-3	Hexachlorobutadiene	1.9	U
59-50-7	4-Chloro-3-methylphenol	1.9	U	77-47-4	Hexachlorocyclopentadiene	1.9	U
106-47-8	4-Chloroaniline	0.91	U	67-72-1	Hexachloroethane	1.9	U
7005-72-3	4-Chlorophenyl-phenylether	1.9	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**1.9**	**10**
100-01-6	4-Nitroaniline	1.9	U	78-59-1	Isophorone	1.9	U
100-02-7	4-Nitrophenol	1.9	U	**91-20-3**	**Naphthalene**	**0.48**	**7.1**
83-32-9	**Acenaphthene**	**1.9**	**9.6**	98-95-3	Nitrobenzene	1.9	U
208-96-8	Acenaphthylene	1.9	U	621-64-7	N-Nitroso-di-n-propylamine	0.48	U
98-86-2	Acetophenone	1.9	U	86-30-6	n-Nitrosodiphenylamine	1.9	U
120-12-7	**Anthracene**	**1.9**	**15**	87-86-5	Pentachlorophenol	9.6	U
1912-24-9	Atrazine	1.9	U	**85-01-8**	**Phenanthrene**	**1.9**	**80**
100-52-7	Benzaldehyde	1.9	U	108-95-2	Phenol	1.9	U
56-55-3	**Benzo[a]anthracene**	**1.9**	**27**	**129-00-0**	**Pyrene**	**1.9**	**57**
50-32-8	**Benzo[a]pyrene**	**1.9**	**21**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

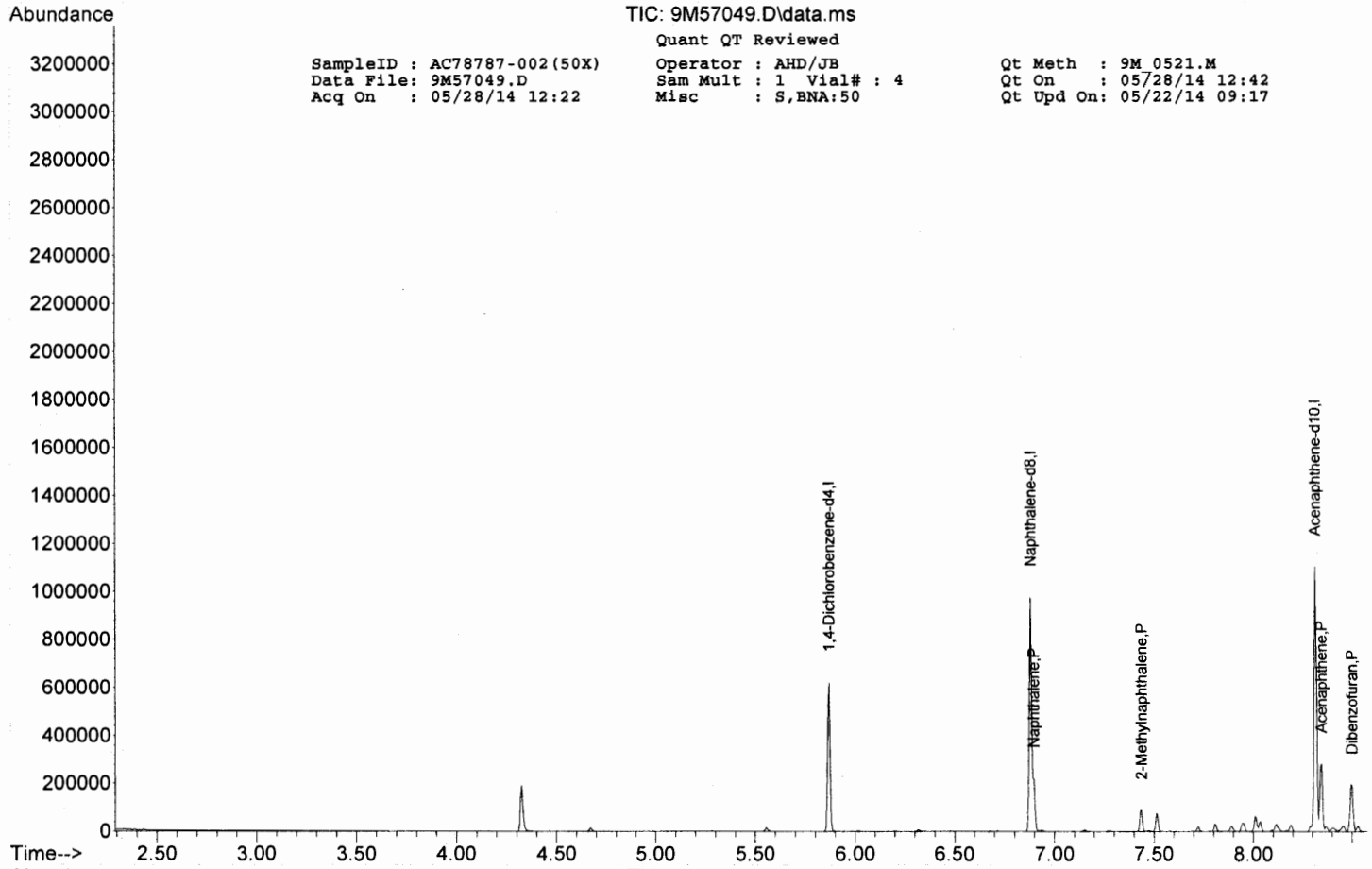
SampleID : AC78787-002(50X) Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57049.D Sam Mult : 1 Vial# : 4 Qt On : 05/28/14 12:42
Acq On : 05/28/14 12:22 Misc : S,BNA:50 Qt Upd On: 05/22/14 09:17

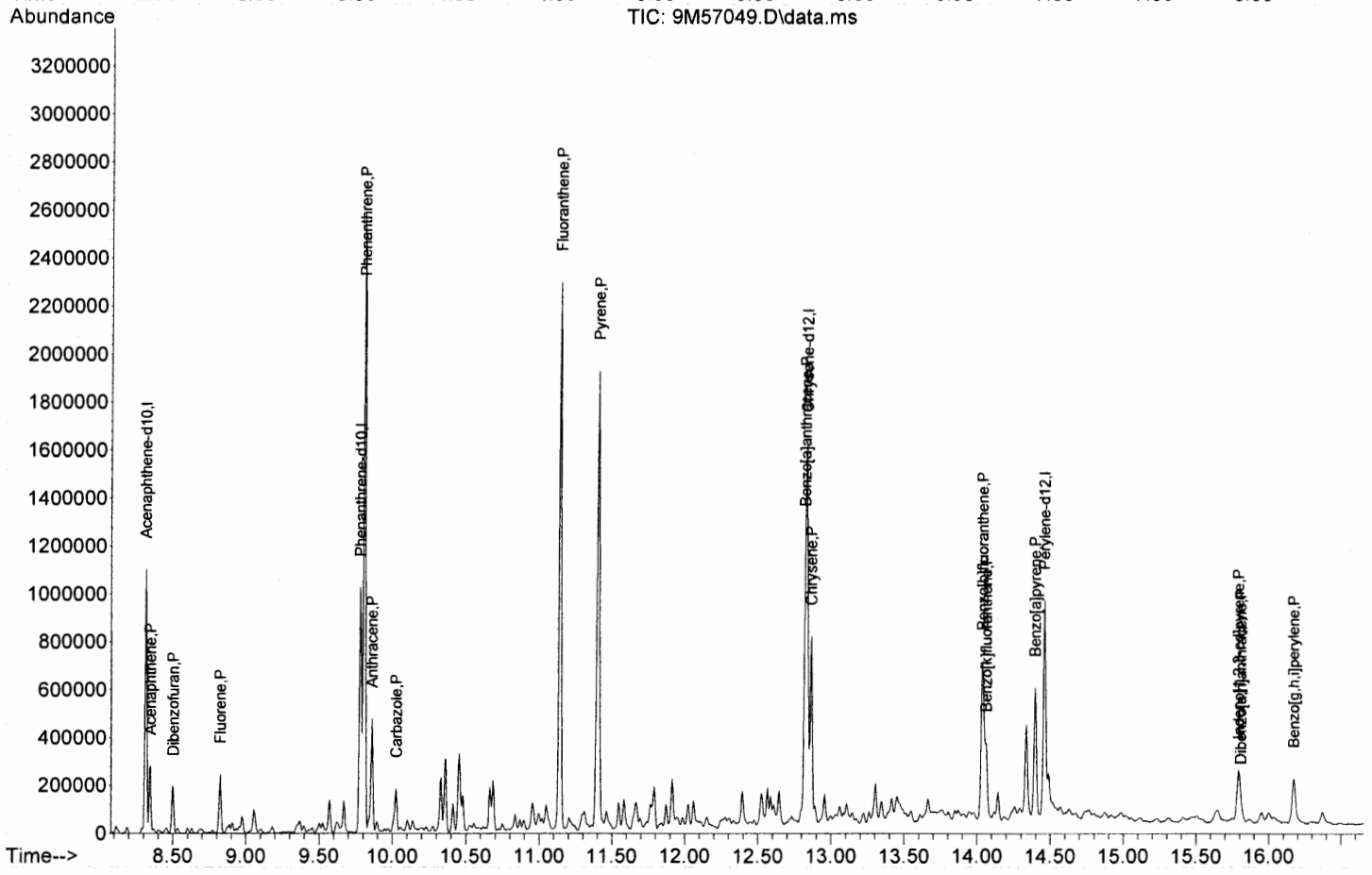
Data Path : G:\GcMsData\2014\GCMS_9\Data\05-28-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

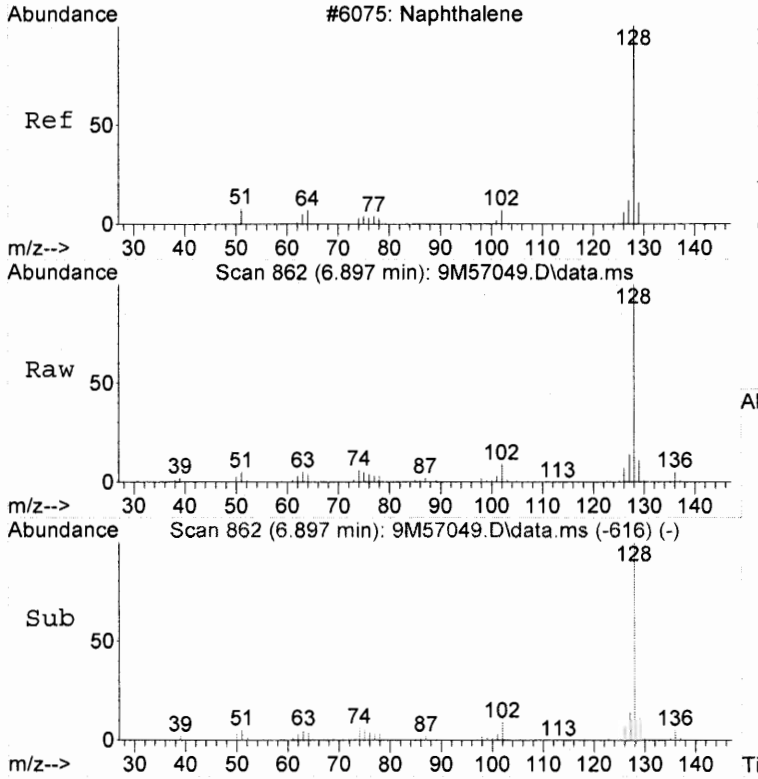
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.870	152	86487	40.00	ng	-0.01
29) Naphthalene-d8	6.881	136	362005	40.00	ng	-0.01
47) Acenaphthene-d10	8.315	164	220206	40.00	ng	-0.02
74) Phenanthrene-d10	9.780	188	410016	40.00	ng	-0.02
88) Chrysene-d12	12.834	240	478034	40.00	ng	-0.02
100) Perylene-d12	14.460	264	396889	40.00	ng	-0.02
System Monitoring Compounds						
10) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery	=	0.00%	
15) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery	=	0.00%	
30) Nitrobenzene-d5	0.000	128	0d	0.00	ng	
Spiked Amount 50.000			Recovery	=	0.00%	
52) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
Spiked Amount 50.000			Recovery	=	0.00%	
77) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ng	
Spiked Amount 100.000			Recovery	=	0.00%	
91) Terphenyl-d14	0.000	244	0d	0.00	ng	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
39) Naphthalene	6.897	128	79524	7.4185	ng	97
44) 2-Methylnaphthalene	7.437	142	24883	3.3285	ng	99
62) Acenaphthene	8.347	153	75698	10.0606	ng	94
65) Dibenzofuran	8.502	168	73470	7.2074	ng	88
69) Fluorene	8.823	166	61471	6.9651	ng	96
83) Phenanthrene	9.807	178	1018274	83.6951	ng	99
84) Anthracene	9.860	178	187185	15.1691	ng	99
85) Carbazole	10.026	167	72388	6.0703	ng	96
87) Fluoranthene	11.144	202	1007186	68.1816	ng	82
89) Pyrene	11.406	202	881295	59.1265	ng	81
97) Benzo[a]anthracene	12.824	228	420816	28.4050	ng	99
98) Chrysene	12.866	228	308774	22.4896	ng	98
102) Benzo[b]fluoranthene	14.038	252	386097m	29.8275	ng	
103) Benzo[k]fluoranthene	14.064	252	86845m	7.0227	ng	
104) Benzo[a]pyrene	14.396	252	259647	21.4564	ng	90
105) Indeno[1,2,3-cd]pyrene	15.792	276	143313	10.4693	ng	71
106) Dibenzo[a,h]anthracene	15.808	278	32368	2.8158	ng	91
107) Benzo[g,h,i]perylene	16.172	276	127196	11.2515	ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Ve


Abundance
TIC: 9M57049.D\data.ms
Quant QT Reviewed
SampleID : AC78787-002(50X)
Data File: 9M57049.D
Acq On : 05/28/14 12:22
Operator : AHD/JB
Sam Mult : 1 Vial# : 4
Misc : S,BNA:50
Qt Meth : 9M_0521.M
Qt On : 05/28/14 12:42
Qt Upd On: 05/22/14 09:17
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Naphthalene,P
2-Methylnaphthalene,P
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P
Time-->

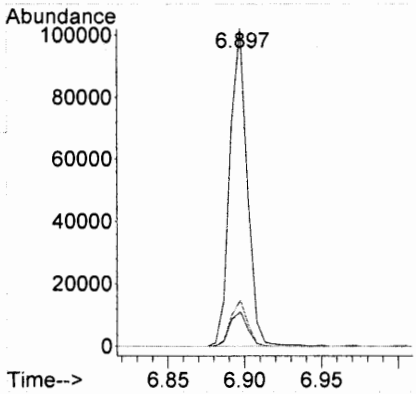

Abundance
TIC: 9M57049.D\data.ms
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P
Fluorene,P
Phenanthrene-d10,I
Phenanthrene,P
Anthracene,P
Carbazole,P
Fluoranthene,P
Pyrene,P
Chrysene-d12,I
Chrysene,P
Benzo[k]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

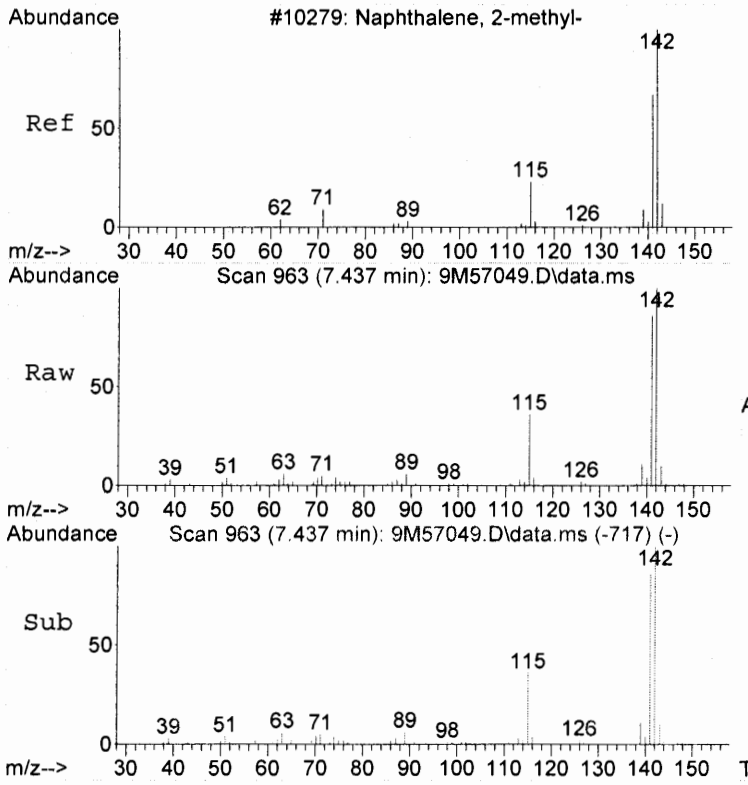


#39
Naphthalene
Concen: 7.42 ng
RT: 6.897 min Scan# 862
Delta R.T. -0.011 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:128 Resp: 79524

Ion	Ratio	Lower	Upper
128	100		
129	10.8	0.0	50.9
127	14.5	0.0	52.4

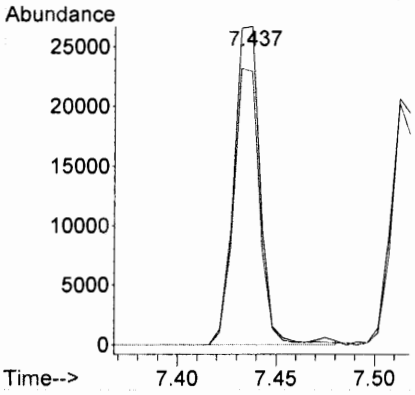


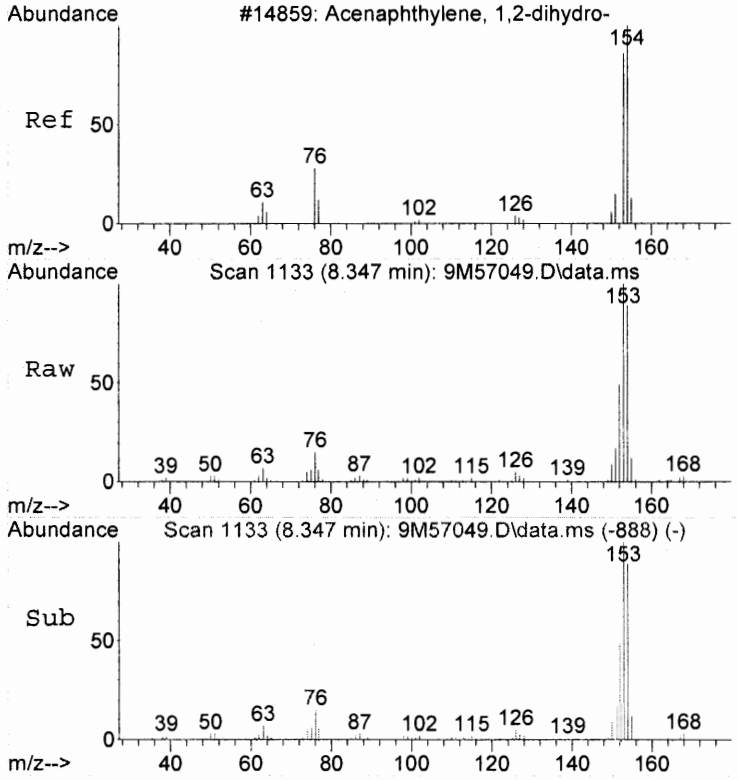


#44
2-Methylnaphthalene
Concen: 3.33 ng
RT: 7.437 min Scan# 963
Delta R.T. -0.011 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:142 Resp: 24883

Ion	Ratio	Lower	Upper
142	100		
141	85.9	44.6	124.6

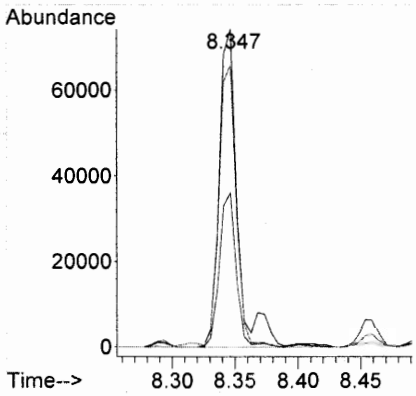


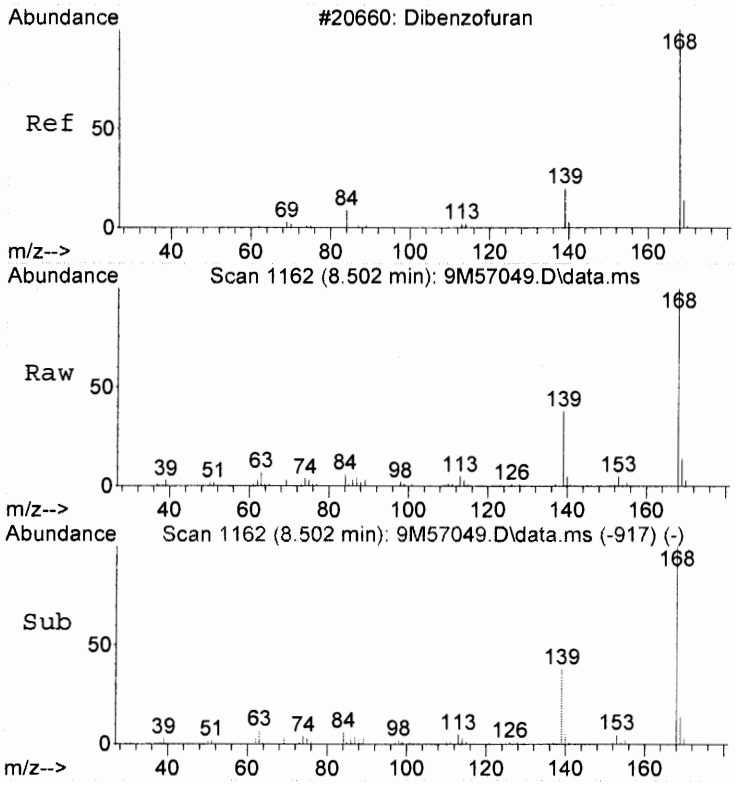


#62
Acenaphthene
Concen: 10.06 ng
RT: 8.347 min Scan# 1133
Delta R.T. -0.016 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:153 Resp: 75698

Ion	Ratio	Lower	Upper
153	100		
152	48.7	10.0	90.0
154	88.8	57.5	137.5

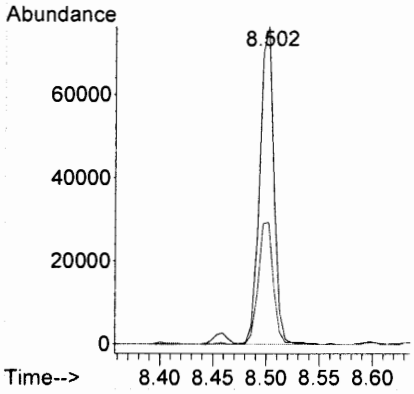


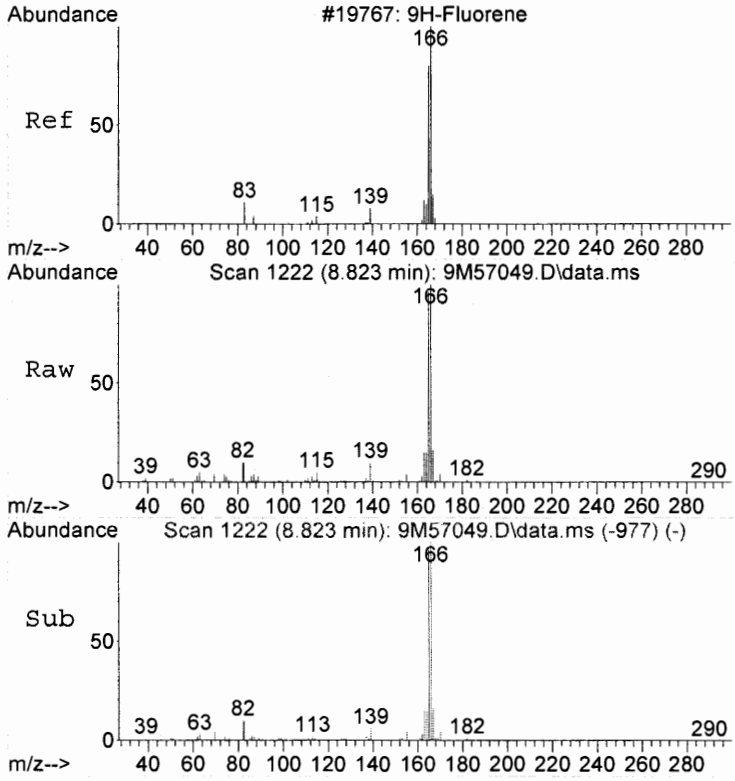


#65
Dibenzofuran
Concen: 7.21 ng
RT: 8.502 min Scan# 1162
Delta R.T. -0.016 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:168 Resp: 73470

Ion	Ratio	Lower	Upper
168	100		
139	38.4	0.0	246.0

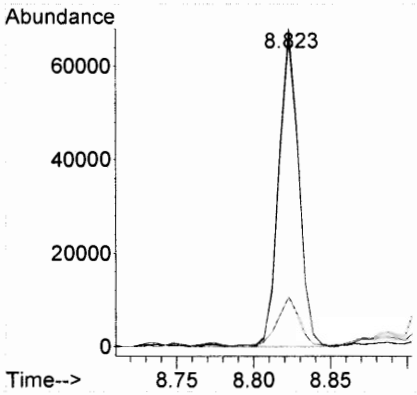


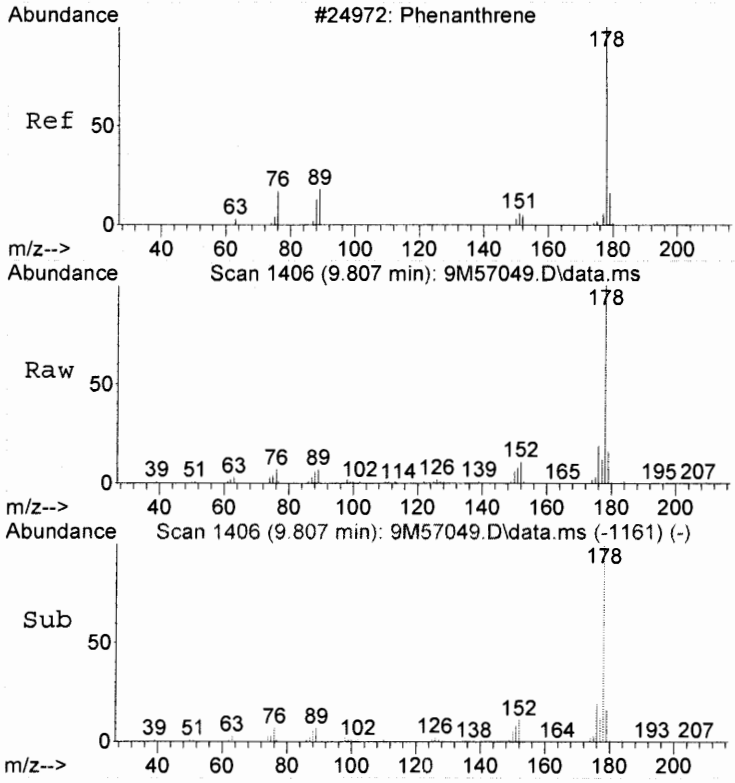


#69
Fluorene
Concen: 6.97 ng
RT: 8.823 min Scan# 1222
Delta R.T. -0.016 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:166 Resp: 61471

Ion	Ratio	Lower	Upper
166	100		
165	95.8	0.0	292.6
167	15.4	0.0	213.2

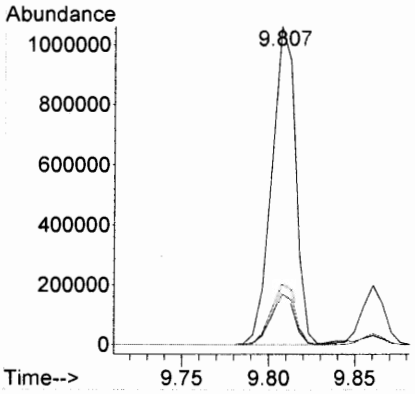


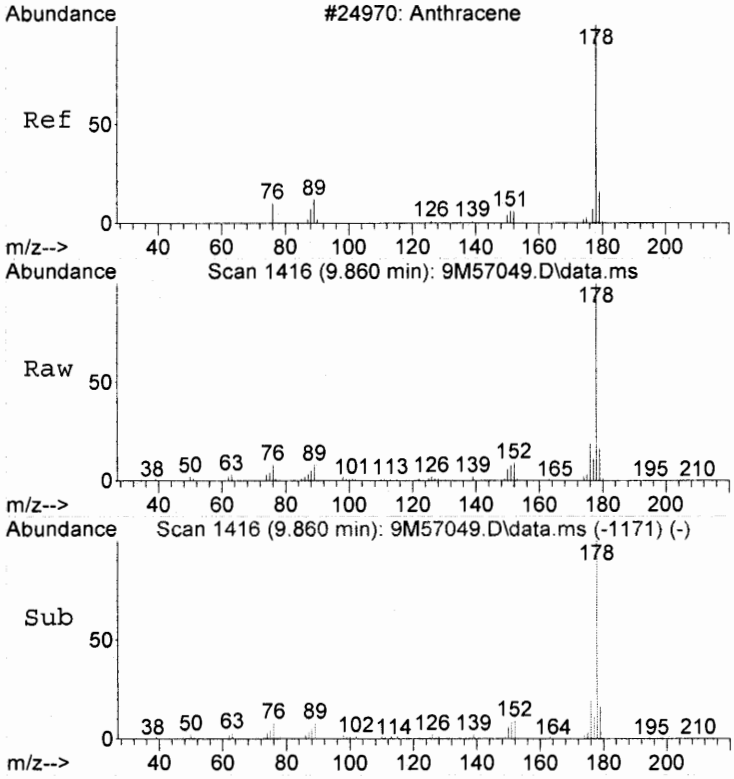


#83
Phenanthrene
Concen: 83.70 ng
RT: 9.807 min Scan# 1406
Delta R.T. -0.016 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:178 Resp: 1018274

Ion	Ratio	Lower	Upper
178	100		
179	15.7	0.0	55.5
176	18.8	0.0	59.3

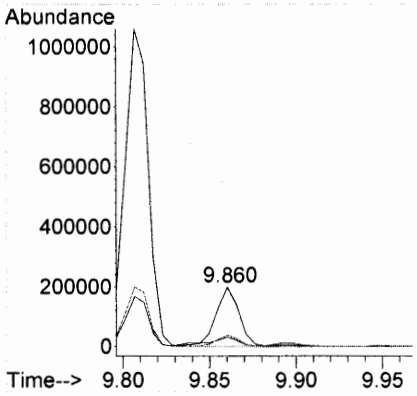


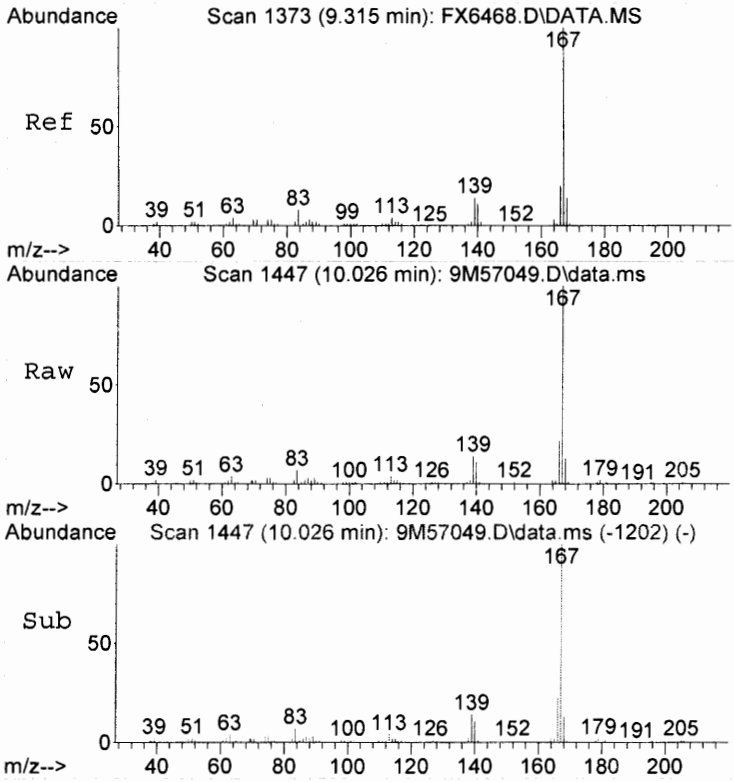


#84
Anthracene
Concen: 15.17 ng
RT: 9.860 min Scan# 1416
Delta R.T. -0.016 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:178 Resp: 187185

Ion	Ratio	Lower	Upper
178	100		
179	15.1	0.0	55.2
176	18.7	0.0	58.1

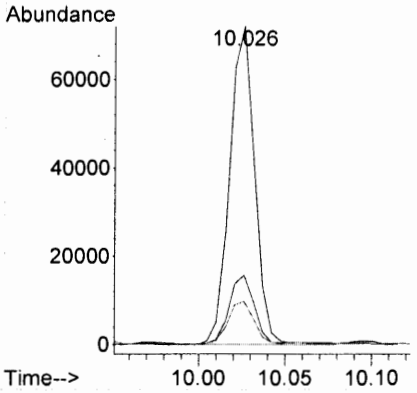


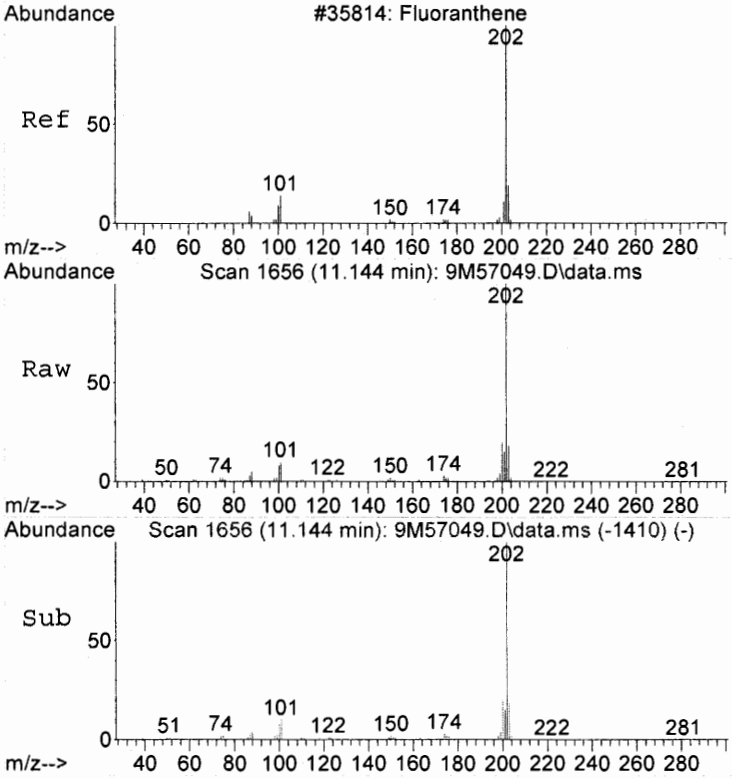


#85
Carbazole
Concen: 6.07 ng
RT: 10.026 min Scan# 1447
Delta R.T. -0.016 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:167 Resp: 72388

Ion	Ratio	Lower	Upper
167	100		
166	21.7	0.2	40.2
139	13.3	0.0	35.0

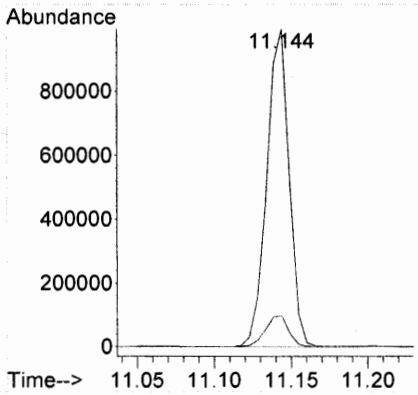


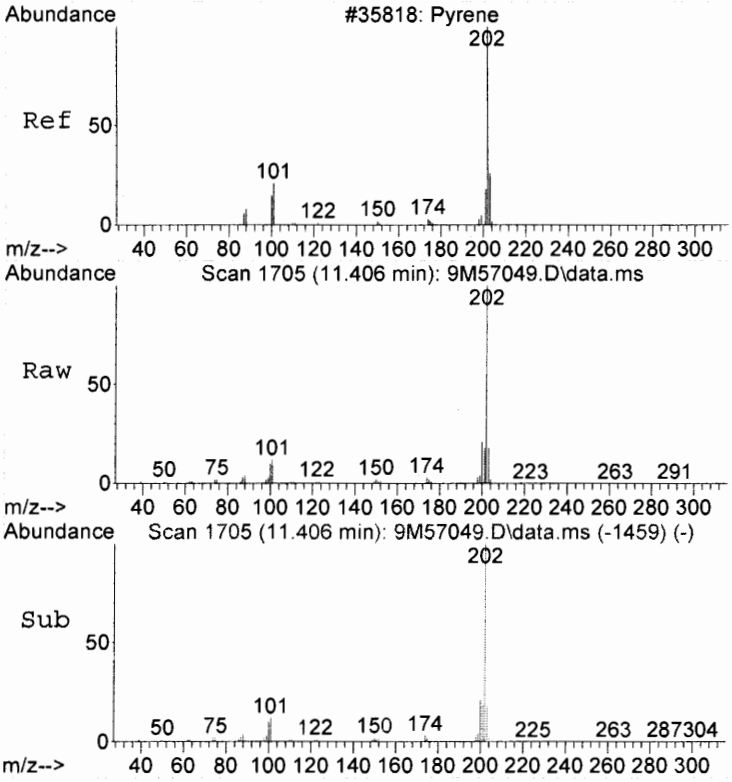


#87
Fluoranthene
Concen: 68.18 ng
RT: 11.144 min Scan# 1656
Delta R.T. -0.011 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:202 Resp: 1007186

Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	57.6

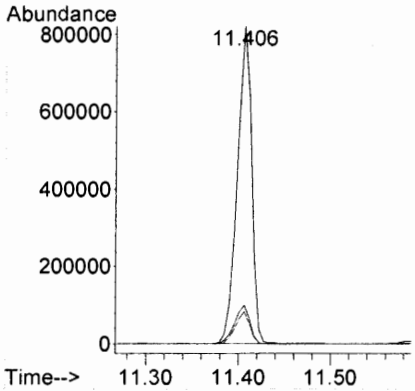


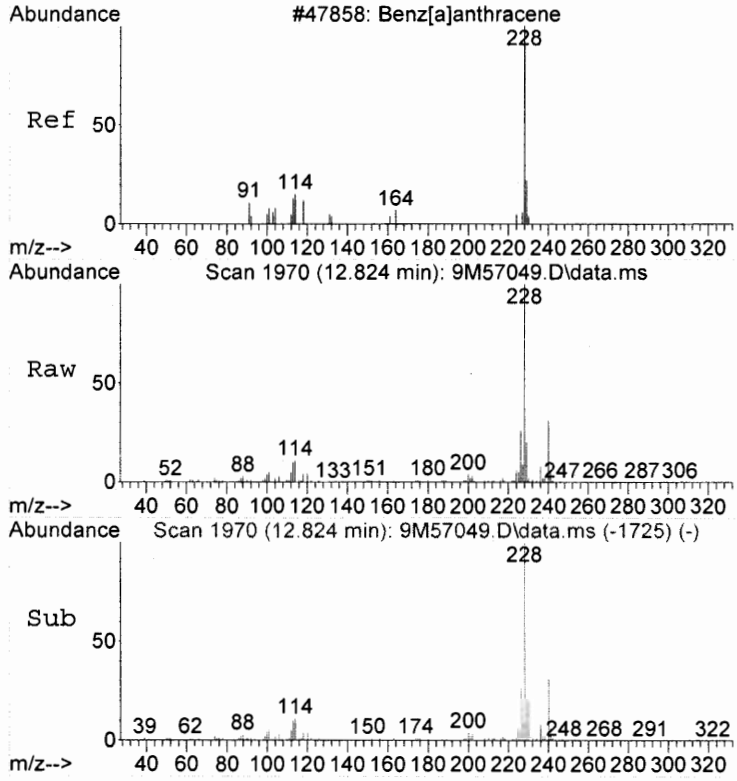


#89
Pyrene
Concen: 59.13 ng
RT: 11.406 min Scan# 1705
Delta R.T. -0.011 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:202 Resp: 881295

Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	62.2
100	10.1	0.0	57.8

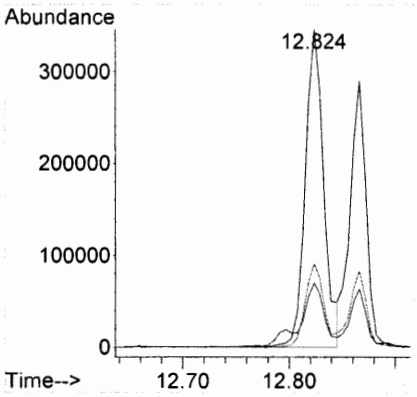


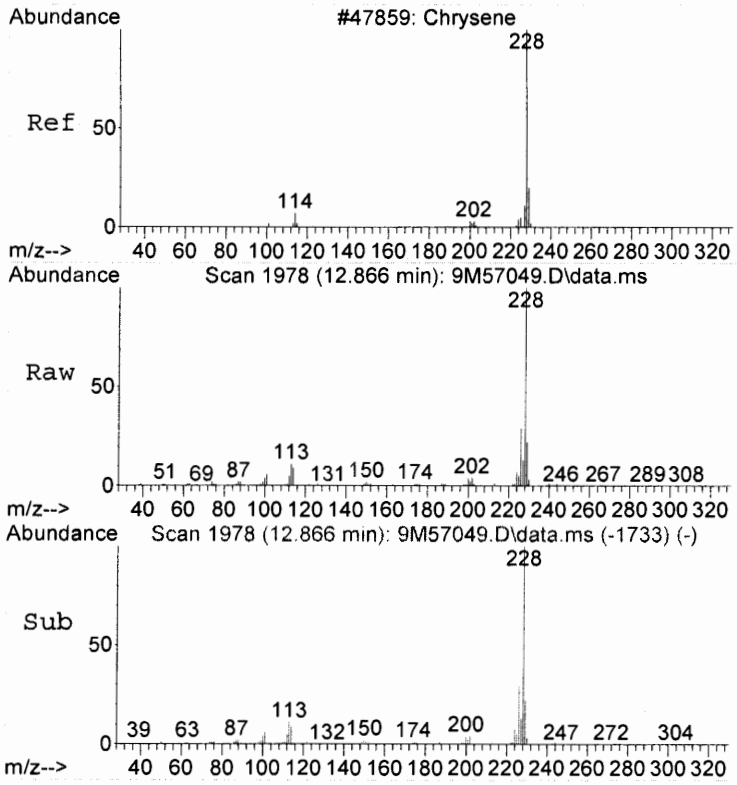


#97
Benzo[a]anthracene
Concen: 28.41 ng
RT: 12.824 min Scan# 1970
Delta R.T. -0.016 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:228 Resp: 420816

Ion	Ratio	Lower	Upper
228	100		
229	20.2	0.0	59.5
226	26.4	0.0	66.0

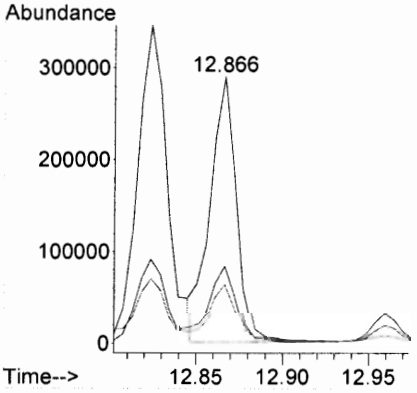


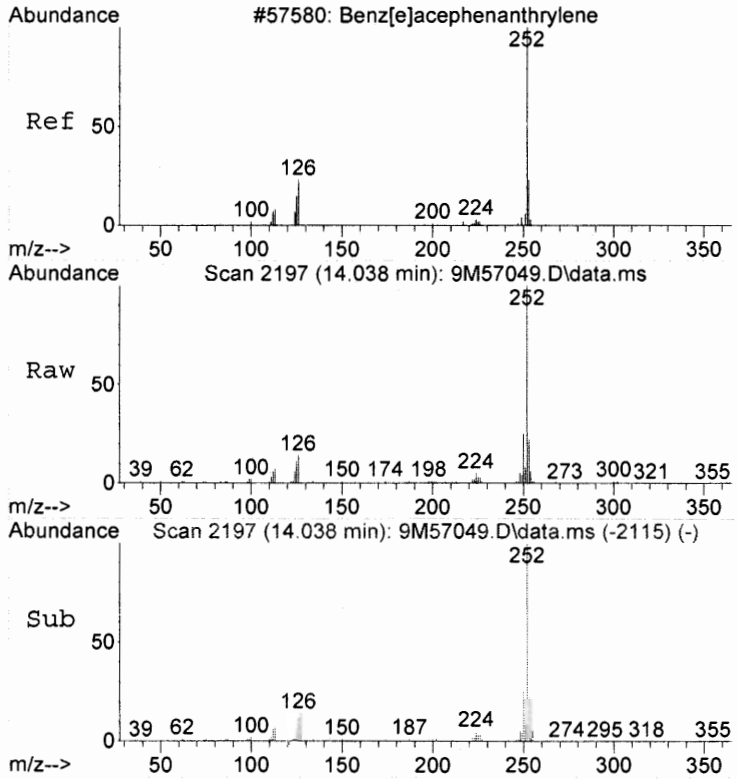


#98
Chrysene
Concen: 22.49 ng
RT: 12.866 min Scan# 1978
Delta R.T. -0.016 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:228 Resp: 308774

Ion	Ratio	Lower	Upper
228	100		
226	28.8	9.5	49.5
229	21.9	0.0	60.2

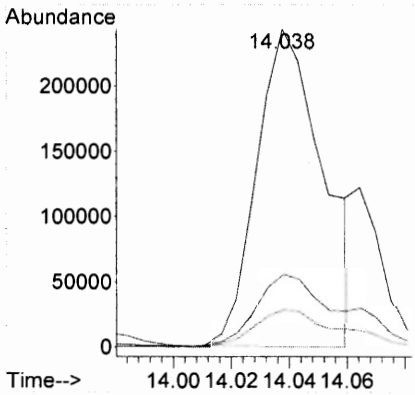


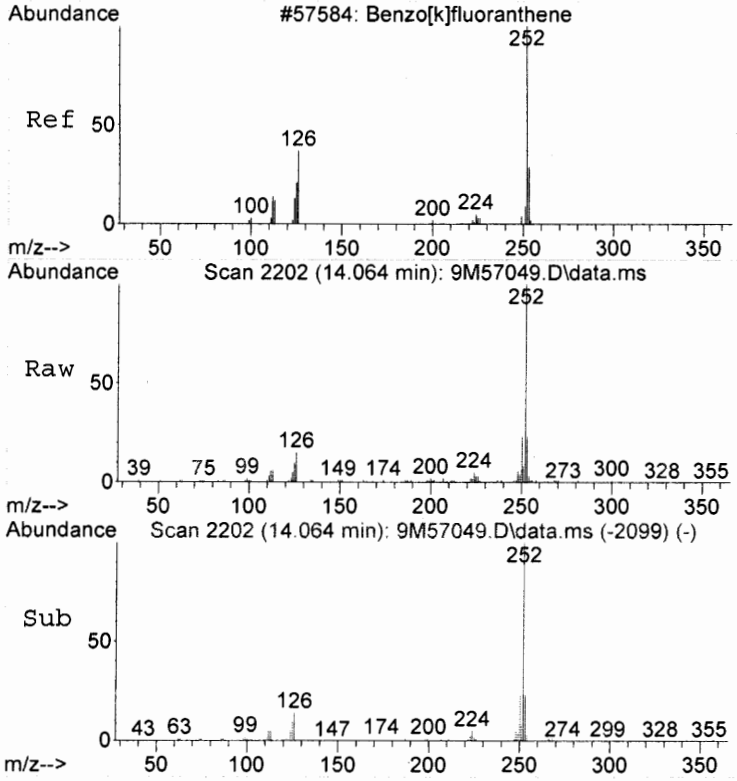


#102
Benzo[b]fluoranthene
Concen: 29.83 ng m
RT: 14.038 min Scan# 2197
Delta R.T. -0.016 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:252 Resp: 386097

Ion	Ratio	Lower	Upper
252	100		
253	22.4	0.0	62.3
125	11.5	0.0	58.4

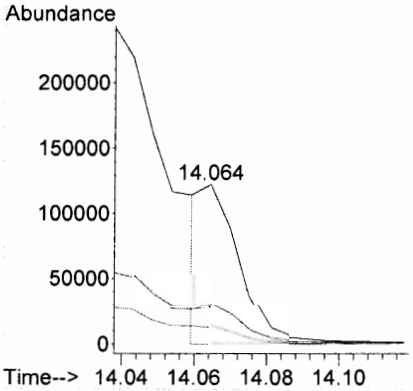


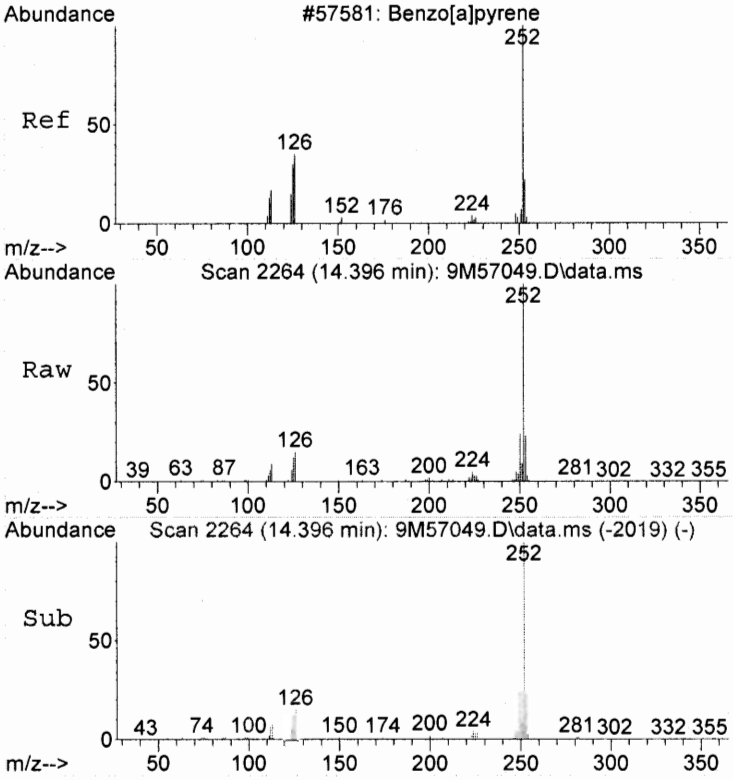


#103
Benzo[k]fluoranthene
Concen: 7.02 ng m
RT: 14.064 min Scan# 2202
Delta R.T. -0.016 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:252 Resp: 86845

Ion	Ratio	Lower	Upper
252	100		
253	23.5	0.0	52.2
125	10.5	0.0	48.9

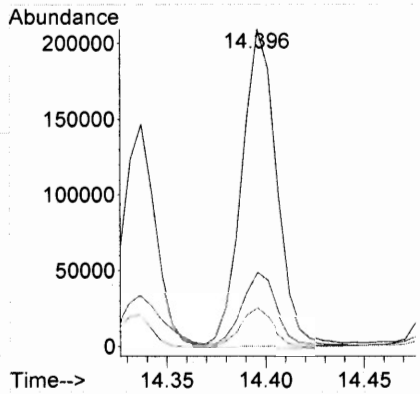


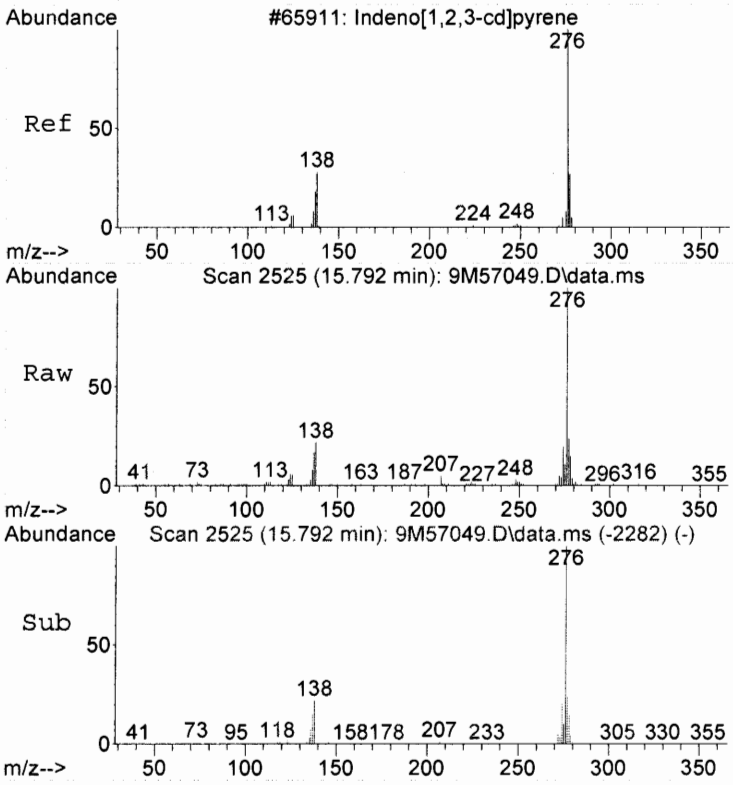


#104
Benzo[a]pyrene
Concen: 21.46 ng
RT: 14.396 min Scan# 2264
Delta R.T. -0.016 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:252 Resp: 259647

Ion	Ratio	Lower	Upper
252	100		
253	23.1	0.0	62.4
125	12.0	0.0	60.9

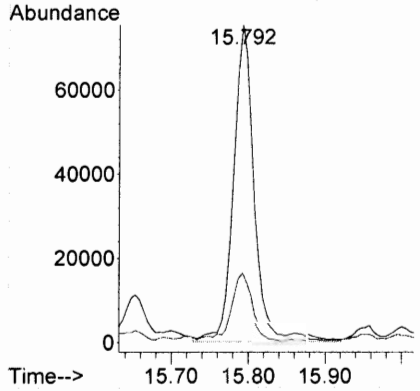


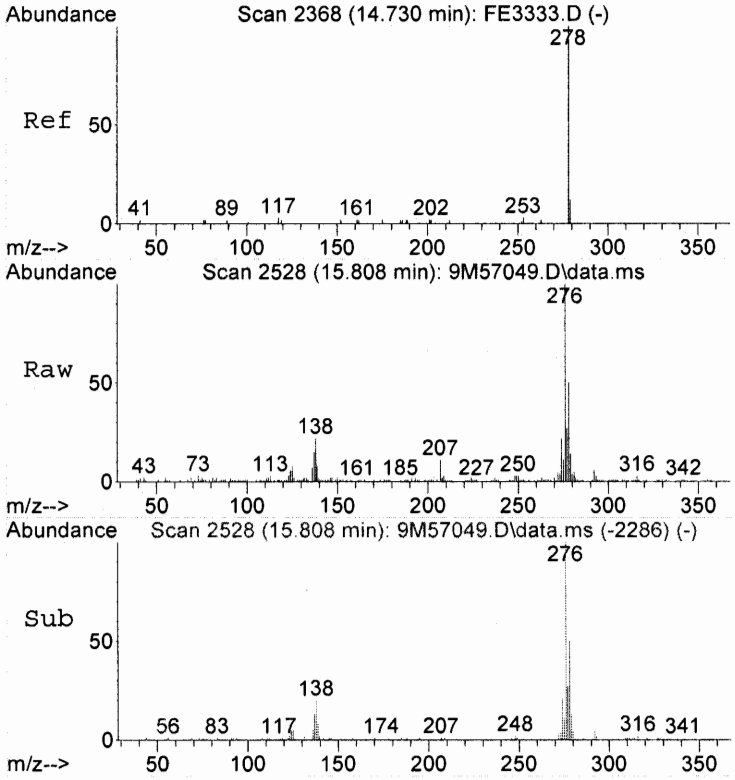


#105
Indeno[1,2,3-cd]pyrene
Concen: 10.47 ng
RT: 15.792 min Scan# 2525
Delta R.T. -0.027 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:276 Resp: 143313

Ion	Ratio	Lower	Upper
276	100		
138	21.2	0.0	78.9

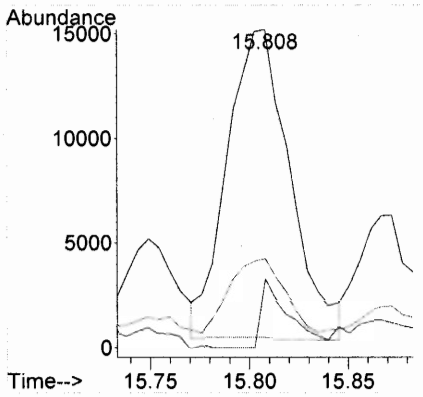


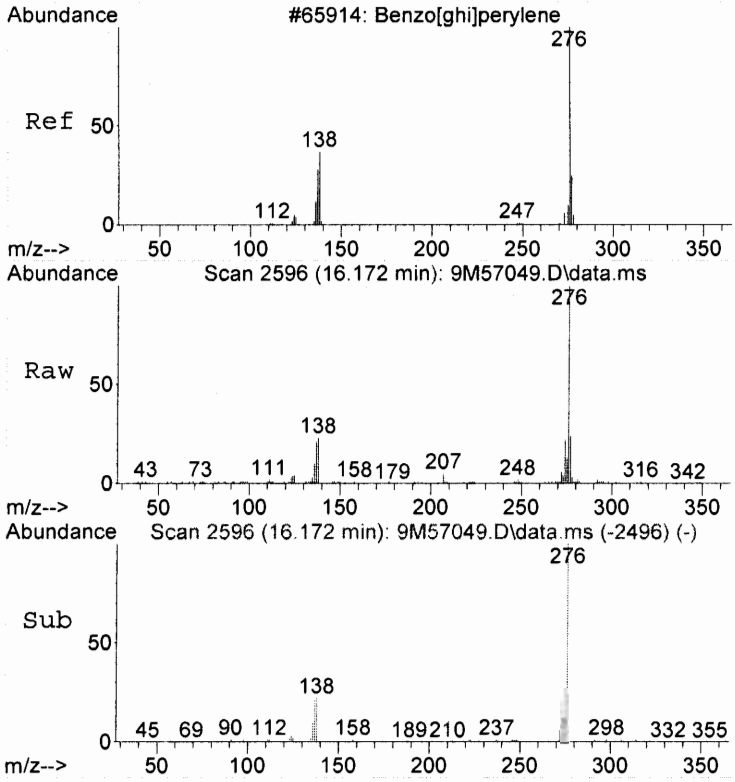


#106
Dibenzo[a,h]anthracene
Concen: 2.82 ng
RT: 15.808 min Scan# 2528
Delta R.T. -0.032 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:278 Resp: 32368

Ion	Ratio	Lower	Upper
278	100		
139	25.3	0.0	72.0
279	25.8	0.0	63.9

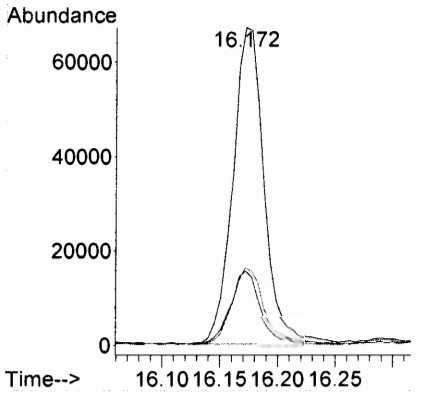




#107
Benzo[g,h,i]perylene
Concen: 11.25 ng
RT: 16.172 min Scan# 2596
Delta R.T. -0.032 min
Lab File: 9M57049.D
Acq: 28 May 2014 12:22

Tgt Ion:276 Resp: 127196

Ion	Ratio	Lower	Upper
276	100		
138	23.3	0.0	100.0
277	25.5	0.0	60.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-003
Client Id: EXT 1 U
Data File: 10M44244.D
Analysis Date: 05/23/14 10:52
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 304385

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

SampleID : AC78787-003 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44244.D Sam Mult : 1 Vial# : 5 Qt On : 05/23/14 12:26
Acq On : 05/23/14 10:52 Misc : A,BNA:0.5 Qt Upd On: 05/20/14 09:26

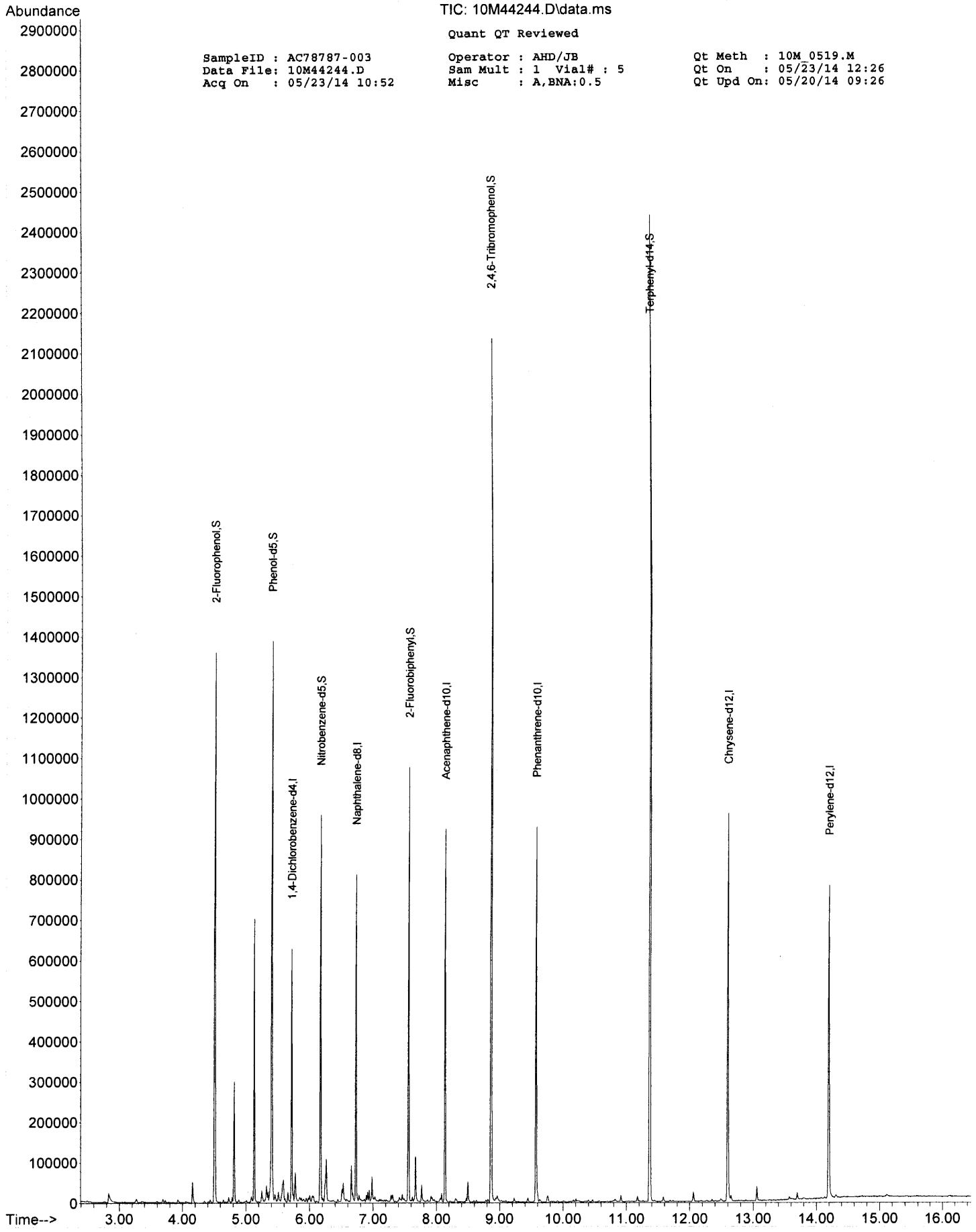
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	80326	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	319127	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	186987	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	337425	40.00	ng	0.00
88) Chrysene-d12	12.597	240	354077	40.00	ng	0.00
100) Perylene-d12	14.197	264	323216	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	398060	130.22	ng	0.00
Spiked Amount 100.000			Recovery = 130.22%			
15) Phenol-d5	5.404	99	500613	115.78	ng	0.00
Spiked Amount 100.000			Recovery = 115.78%			
30) Nitrobenzene-d5	6.168	128	121733	82.39	ng	0.00
Spiked Amount 50.000			Recovery = 164.78%			
52) 2-Fluorobiphenyl	7.559	172	282827	41.06	ng	0.00
Spiked Amount 50.000			Recovery = 82.12%			
77) 2,4,6-Tribromophenol	8.864	330	282405	196.01	ng	0.00
Spiked Amount 100.000			Recovery = 196.01%			
91) Terphenyl-d14	11.367	244	831307	108.88	ng	0.00
Spiked Amount 50.000			Recovery = 217.76%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

16


Abundance
TIC: 10M44244.D\data.ms
Quant QT Reviewed
SampleID : AC78787-003
Data File: 10M44244.D
Acq On : 05/23/14 10:52
Operator : AHD/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA:0.5
Qt Meth : 10M_0519.M
Qt On : 05/23/14 12:26
Qt Upd On: 05/20/14 09:26
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-005
Client Id: FB052014 U
Data File: 10M44248.D
Analysis Date: 05/23/14 12:20
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 304385

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
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R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

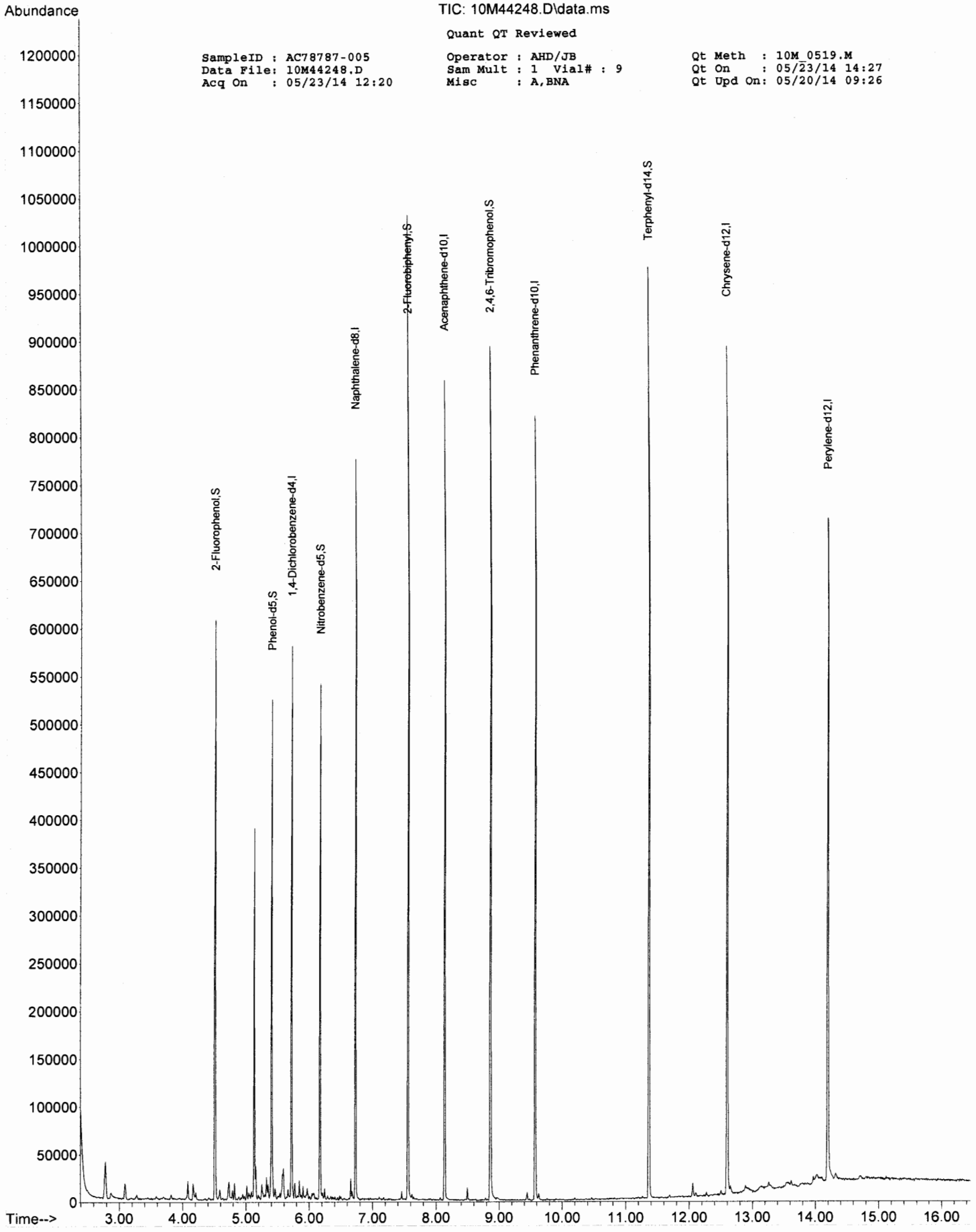
SampleID : AC78787-005 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44248.D Sam Mult : 1 Vial# : 9 Qt On : 05/23/14 14:27
Acq On : 05/23/14 12:20 Misc : A,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
7) 1,4-Dichlorobenzene-d4	5.719	152	75110	40.00 ng	0.00
29) Naphthalene-d8	6.730	136	300871	40.00 ng	0.00
47) Acenaphthene-d10	8.137	164	179232	40.00 ng	0.00
74) Phenanthrene-d10	9.575	188	326132	40.00 ng	0.00
88) Chrysene-d12	12.597	240	341735	40.00 ng	0.00
100) Perylene-d12	14.197	264	306914	40.00 ng	0.00
System Monitoring Compounds					
10) 2-Fluorophenol	4.510	112	166088	58.11 ng	0.00
Spiked Amount 100.000			Recovery = 58.11%		
15) Phenol-d5	5.404	99	173147	42.82 ng	0.00
Spiked Amount 100.000			Recovery = 42.82%		
30) Nitrobenzene-d5	6.168	128	67632	48.55 ng	0.00
Spiked Amount 50.000			Recovery = 97.10%		
52) 2-Fluorobiphenyl	7.559	172	281884	42.69 ng	0.00
Spiked Amount 50.000			Recovery = 85.38%		
77) 2,4,6-Tribromophenol	8.864	330	124510	104.51 ng	0.00
Spiked Amount 100.000			Recovery = 104.51%		
91) Terphenyl-d14	11.367	244	338984	46.00 ng	0.00
Spiked Amount 50.000			Recovery = 92.00%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44248.D\data.ms
Quant QT Reviewed
SampleID : AC78787-005
Data File: 10M44248.D
Acq On : 05/23/14 12:20
Operator : AHD/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 10M_0519.M
Qt On : 05/23/14 14:27
Qt Upd On: 05/20/14 09:26
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-007
Client Id: EXT 2(0-2')
Data File: 10M44299.D
Analysis Date: 05/27/14 17:12
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.040	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.040**	**0.70**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.040	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.040**	**0.31**
58-90-2	2,3,4,6-Tetrachlorophenol	0.040	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.040**	**0.22**
95-95-4	2,4,5-Trichlorophenol	0.040	U	111-91-1	bis(2-Chloroethoxy)methan	0.040	U
88-06-2	2,4,6-Trichlorophenol	0.040	U	111-44-4	bis(2-Chloroethyl)ether	0.010	U
120-83-2	2,4-Dichlorophenol	0.010	U	108-60-1	bis(2-chloroisopropyl)ether	0.040	U
105-67-9	2,4-Dimethylphenol	0.010	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.040**	**0.047**
51-28-5	2,4-Dinitrophenol	0.20	U	85-68-7	Butylbenzylphthalate	0.040	U
121-14-2	2,4-Dinitrotoluene	0.040	U	105-60-2	Caprolactam	0.040	U
606-20-2	2,6-Dinitrotoluene	0.040	U	**86-74-8**	**Carbazole**	**0.040**	**0.043**
91-58-7	2-Chloronaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.55**
95-57-8	2-Chlorophenol	0.040	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.040**	**0.078**
91-57-6	2-Methylnaphthalene	0.040	U	**132-64-9**	**Dibenzofuran**	**0.010**	**0.025**
95-48-7	2-Methylphenol	0.010	U	84-66-2	Diethylphthalate	0.040	U
88-74-4	2-Nitroaniline	0.040	U	131-11-3	Dimethylphthalate	0.040	U
88-75-5	2-Nitrophenol	0.040	U	84-74-2	Di-n-butylphthalate	0.020	U
106-44-5	3&4-Methylphenol	0.010	U	117-84-0	Di-n-octylphthalate	0.040	U
91-94-1	3,3'-Dichlorobenzidine	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.95**
99-09-2	3-Nitroaniline	0.040	U	86-73-7	Fluorene	0.040	U
534-52-1	4,6-Dinitro-2-methylphenol	0.20	U	118-74-1	Hexachlorobenzene	0.040	U
101-55-3	4-Bromophenyl-phenylether	0.040	U	87-68-3	Hexachlorobutadiene	0.040	U
59-50-7	4-Chloro-3-methylphenol	0.040	U	77-47-4	Hexachlorocyclopentadiene	0.040	U
106-47-8	4-Chloroaniline	0.019	U	67-72-1	Hexachloroethane	0.040	U
7005-72-3	4-Chlorophenyl-phenylether	0.040	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.040**	**0.26**
100-01-6	4-Nitroaniline	0.040	U	78-59-1	Isophorone	0.040	U
100-02-7	4-Nitrophenol	0.040	U	**91-20-3**	**Naphthalene**	**0.010**	**0.022**
83-32-9	**Acenaphthene**	**0.040**	**0.045**	98-95-3	Nitrobenzene	0.040	U
208-96-8	Acenaphthylene	0.040	U	621-64-7	N-Nitroso-di-n-propylamine	0.010	U
98-86-2	Acetophenone	0.040	U	86-30-6	n-Nitrosodiphenylamine	0.040	U
120-12-7	**Anthracene**	**0.040**	**0.12**	87-86-5	Pentachlorophenol	0.20	U
1912-24-9	Atrazine	0.040	U	**85-01-8**	**Phenanthrene**	**0.040**	**0.57**
100-52-7	Benzaldehyde	0.040	U	108-95-2	Phenol	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.58**	**129-00-0**	**Pyrene**	**0.040**	**0.99**
50-32-8	**Benzo[a]pyrene**	**0.040**	**0.50**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

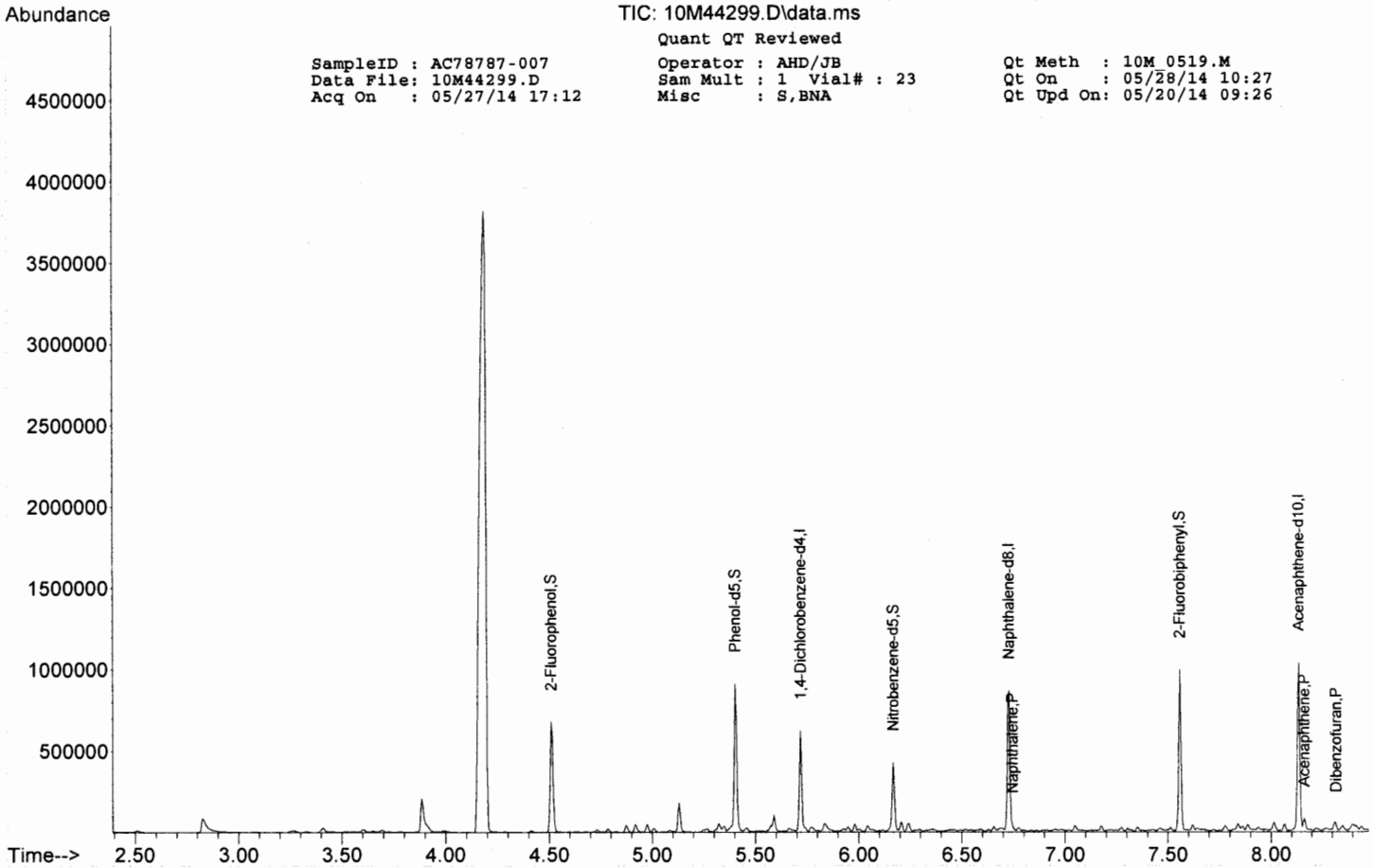
Quantitation Report (QT Reviewed)

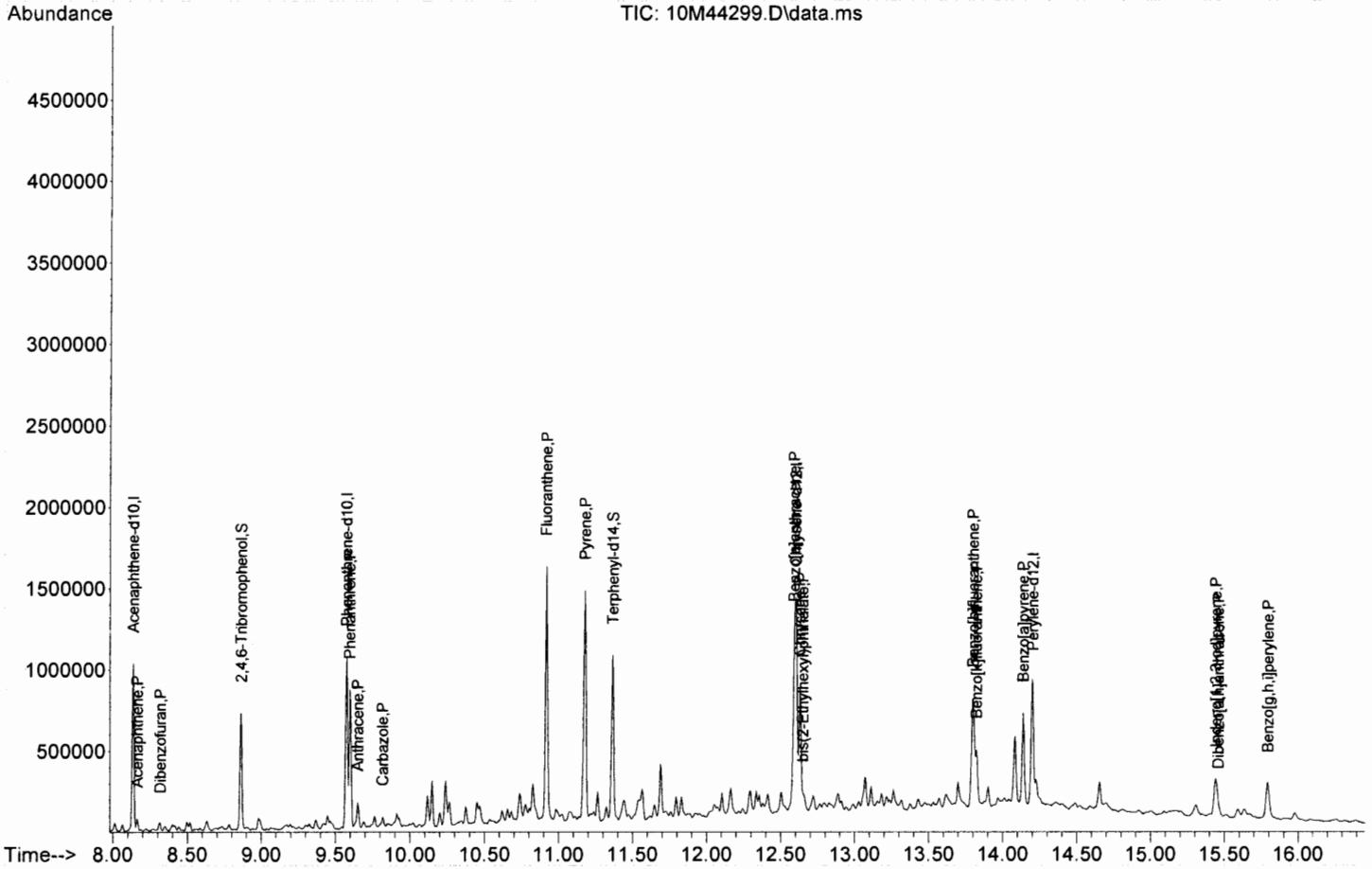
SampleID : AC78787-007 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44299.D Sam Mult : 1 Vial# : 23 Qt On : 05/28/14 10:27
Acq On : 05/27/14 17:12 Misc : S,BNA Qt Upd On: 05/20/14 09:26

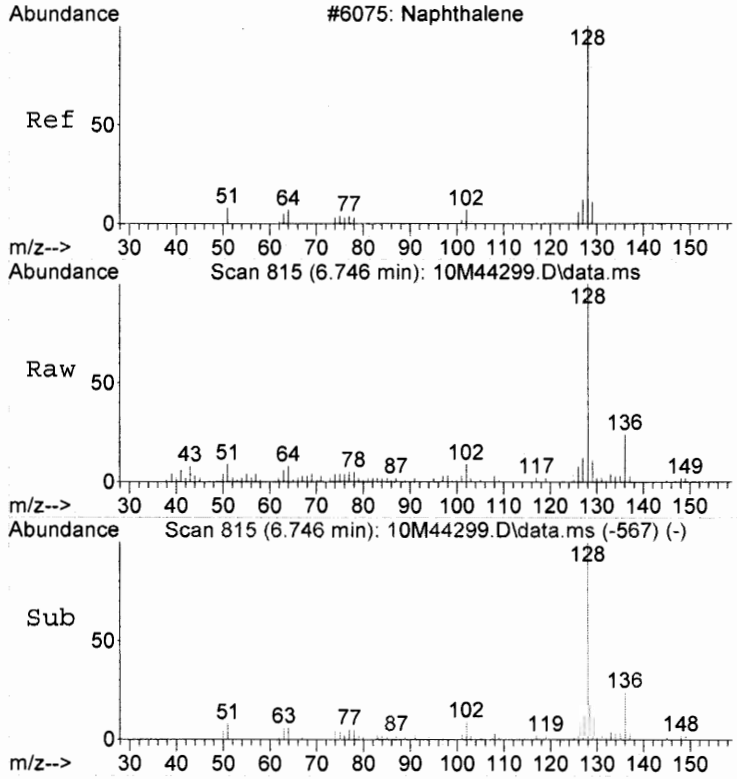
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	77076	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	334712	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	210814	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	397355	40.00	ng	0.00
88) Chrysene-d12	12.603	240	413498	40.00	ng	0.00
100) Perylene-d12	14.202	264	339769	40.00	ng	0.01
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	183893	62.70	ng	0.00
Spiked Amount 100.000			Recovery = 62.70%			
15) Phenol-d5	5.404	99	298346	71.91	ng	0.00
Spiked Amount 100.000			Recovery = 71.91%			
30) Nitrobenzene-d5	6.168	128	50131	32.35	ng	0.00
Spiked Amount 50.000			Recovery = 64.70%			
52) 2-Fluorobiphenyl	7.559	172	250715	32.28	ng	0.00
Spiked Amount 50.000			Recovery = 64.56%			
77) 2,4,6-Tribromophenol	8.864	330	90485	66.98	ng	0.00
Spiked Amount 100.000			Recovery = 66.98%			
91) Terphenyl-d14	11.367	244	328706	36.87	ng	0.00
Spiked Amount 50.000			Recovery = 73.74%			
Target Compounds						Qvalue
39) Naphthalene	6.746	128	10847	1.1196	ng	100
62) Acenaphthene	8.163	153	15056	2.2456	ng	94
65) Dibenzofuran	8.319	168	11883	1.2663	ng	82
83) Phenanthrene	9.597	178	327341	28.5404	ng	100
84) Anthracene	9.650	178	65783	5.7447	ng	98
85) Carbazole	9.816	167	24518	2.1387	ng	97
87) Fluoranthene	10.918	202	600368	47.4578	ng	99
89) Pyrene	11.180	202	629211	49.1695	ng	97
97) Benzo[a]anthracene	12.592	228	348929	28.6788	ng	95
98) Chrysene	12.630	228	299082	27.1959	ng	98
99) bis(2-Ethylhexyl)phtha...	12.651	149	16588	2.3460	ng	91
102) Benzo[b]fluoranthene	13.801	252	353835m	34.8562	ng	
103) Benzo[k]fluoranthene	13.822	252	112487m	11.0777	ng	
104) Benzo[a]pyrene	14.138	252	241493	24.8741	ng	95
105) Indeno[1,2,3-cd]pyrene	15.443	276	145456	13.0678	ng	84
106) Dibenzo[a,h]anthracene	15.459	278	35819	3.8848	ng	97
107) Benzo[g,h,i]perylene	15.796	276	140210	15.2466	ng	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44299.D\data.ms
Quant QT Reviewed
SampleID : AC78787-007
Data File: 10M44299.D
Acq On : 05/27/14 17:12
Operator : AHD/JB
Sam Mult : 1 Vial# : 23
Misc : S,BNA
Qt Meth : 10M_0519.M
Qt On : 05/28/14 10:27
Qt Upd On: 05/20/14 09:26
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P
Time-->

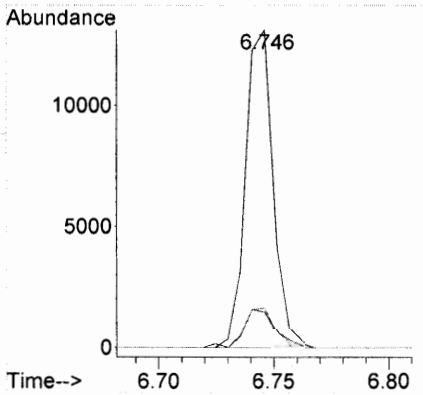

Abundance
TIC: 10M44299.D\data.ms
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P
2,4,6-Tribromophenol,S
Anthracene,P
Carbazole,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

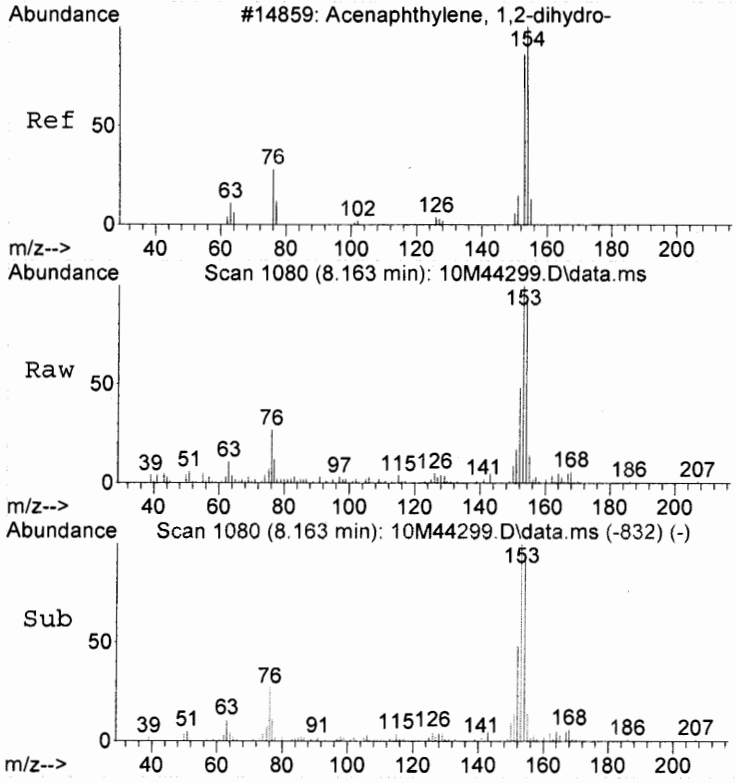


#39
Naphthalene
Concen: 1.12 ng
RT: 6.746 min Scan# 815
Delta R.T. 0.000 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:128 Resp: 10847

Ion	Ratio	Lower	Upper
128	100		
129	11.2	0.0	50.9
127	12.3	0.0	52.4

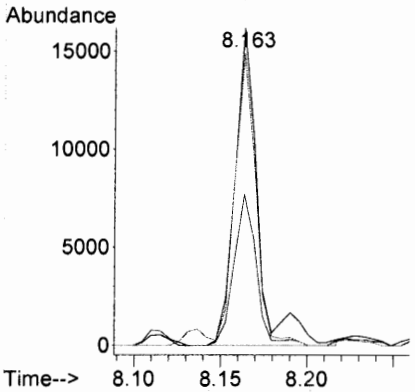


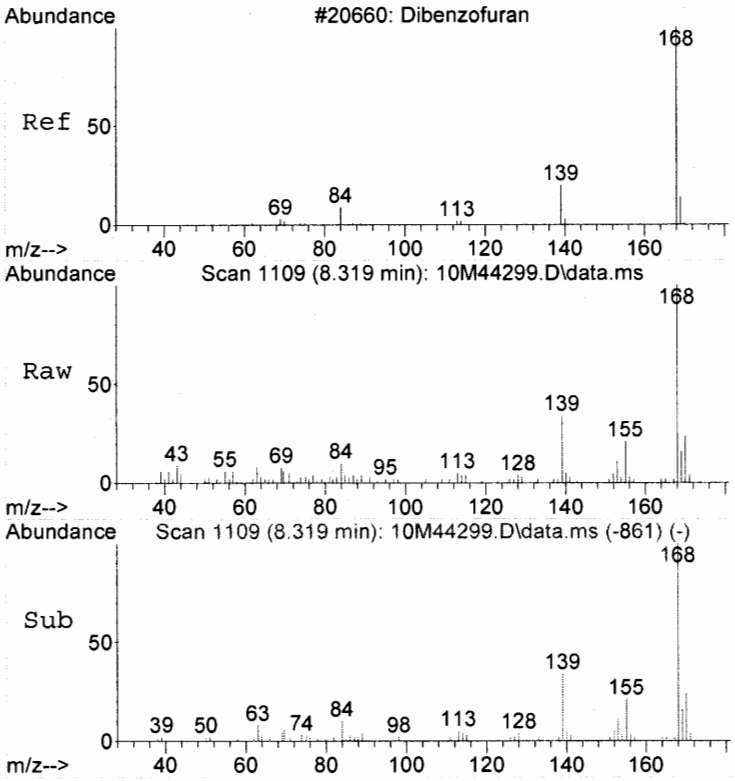


#62
Acenaphthene
Concen: 2.25 ng
RT: 8.163 min Scan# 1080
Delta R.T. 0.000 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:153 Resp: 15056

Ion	Ratio	Lower	Upper
153	100		
152	47.6	10.0	90.0
154	90.7	57.5	137.5

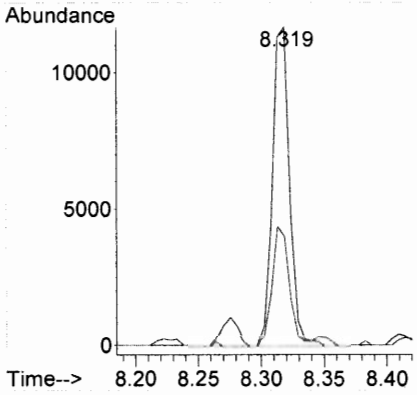


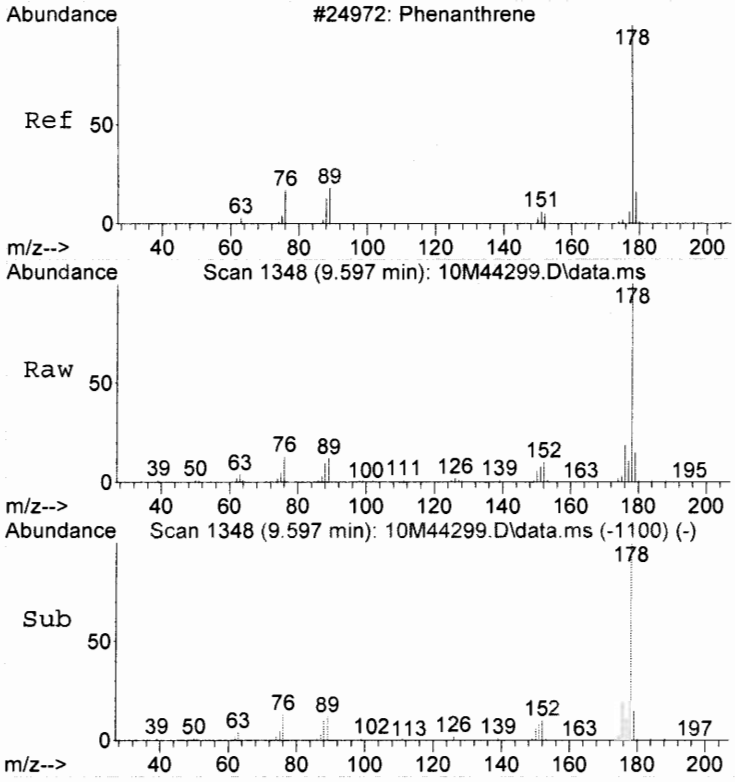


#65
Dibenzofuran
Concen: 1.27 ng
RT: 8.319 min Scan# 1109
Delta R.T. 0.000 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:168 Resp: 11883

Ion	Ratio	Lower	Upper
168	100		
139	34.3	0.0	246.0

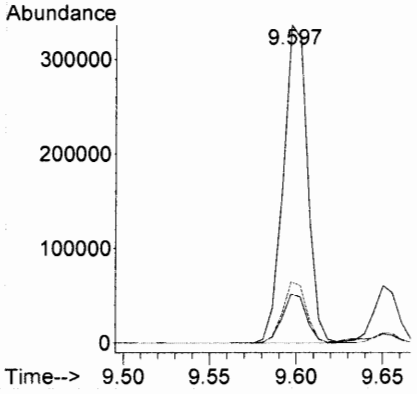


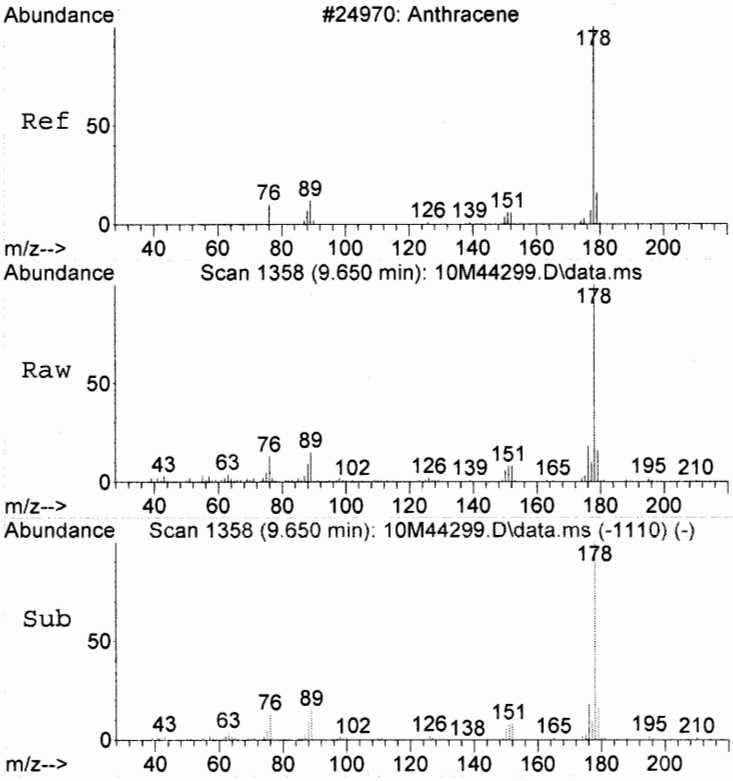


#83
Phenanthrene
Concen: 28.54 ng
RT: 9.597 min Scan# 1348
Delta R.T. 0.000 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:178 Resp: 327341

Ion	Ratio	Lower	Upper
178	100		
179	15.4	0.0	55.5
176	19.1	0.0	59.3

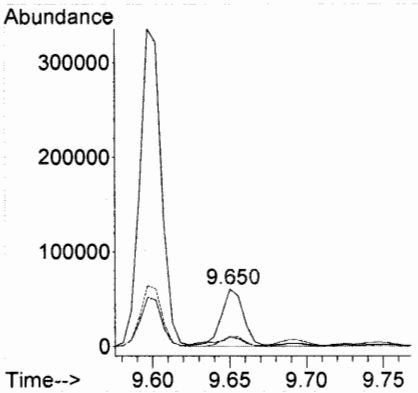


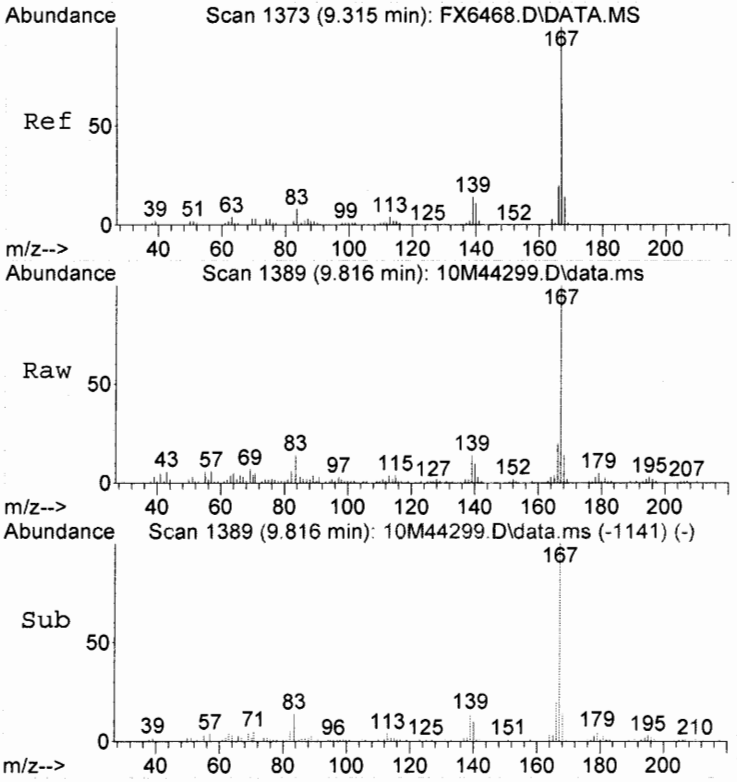


#84
Anthracene
Concen: 5.74 ng
RT: 9.650 min Scan# 1358
Delta R.T. 0.000 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:178 Resp: 65783

Ion	Ratio	Lower	Upper
178	100		
179	14.0	0.0	55.2
176	17.8	0.0	58.1

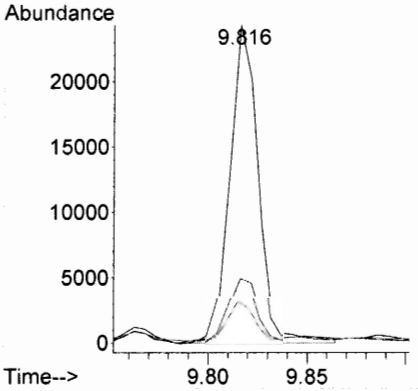


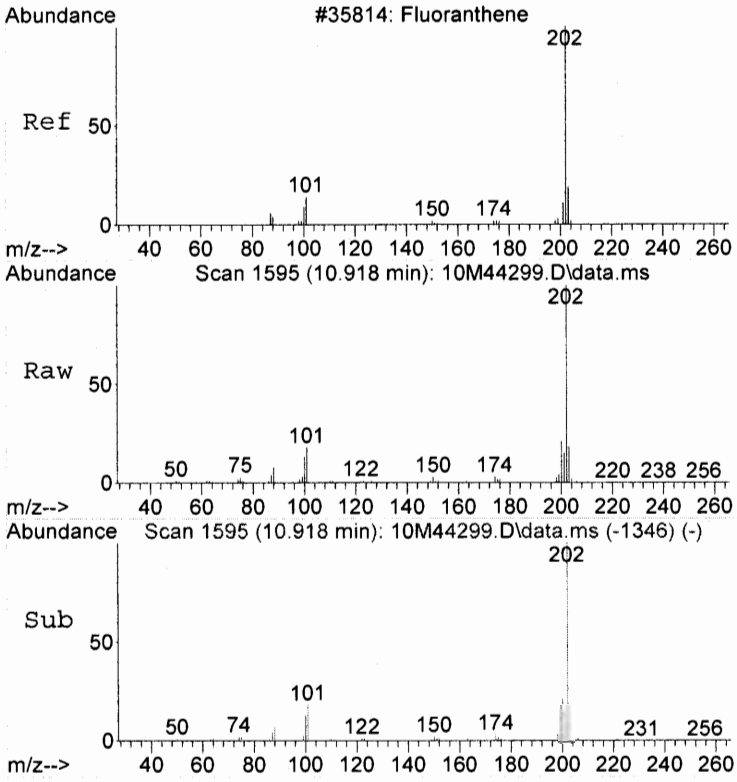


#85
Carbazole
Concen: 2.14 ng
RT: 9.816 min Scan# 1389
Delta R.T. 0.000 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:167 Resp: 24518

Ion	Ratio	Lower	Upper
167	100		
166	19.7	0.2	40.2
139	13.0	0.0	35.0

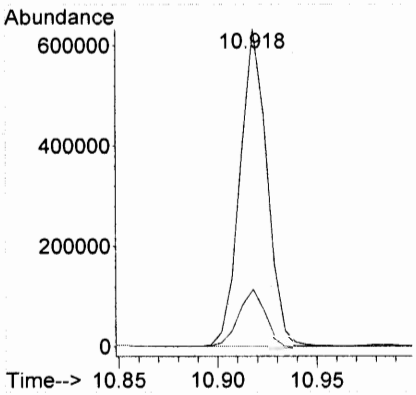


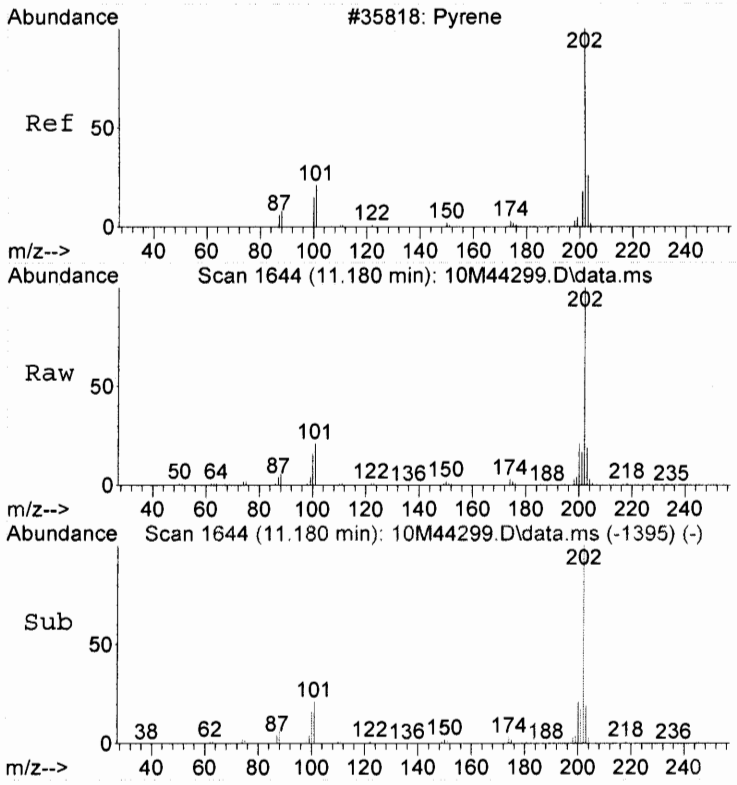


#87
Fluoranthene
Concen: 47.46 ng
RT: 10.918 min Scan# 1595
Delta R.T. 0.005 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:202 Resp: 600368

Ion	Ratio	Lower	Upper
202	100		
101	18.0	0.0	57.6

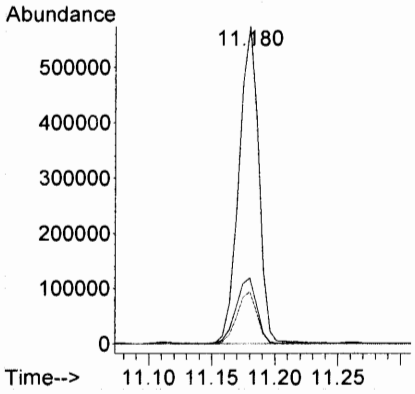


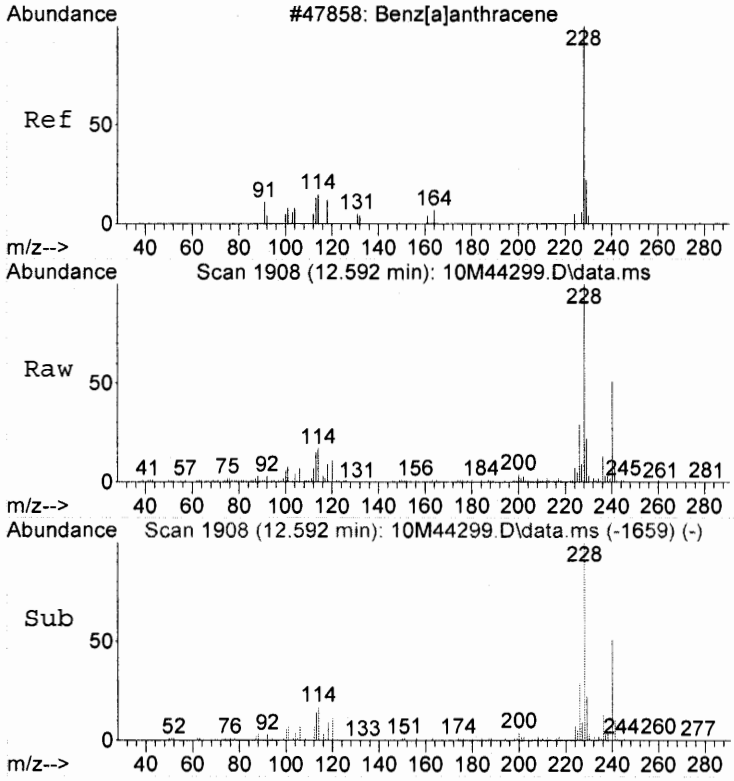


#89
Pyrene
Concen: 49.17 ng
RT: 11.180 min Scan# 1644
Delta R.T. 0.005 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:202 Resp: 629211

Ion	Ratio	Lower	Upper
202	100		
101	20.7	0.0	62.2
100	16.5	0.0	57.8

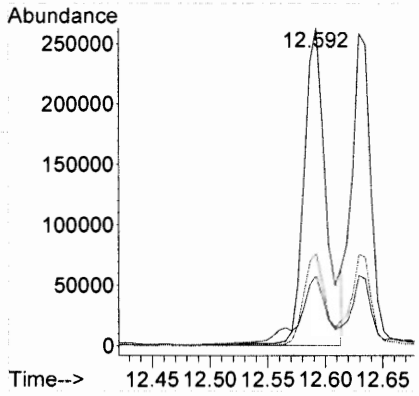


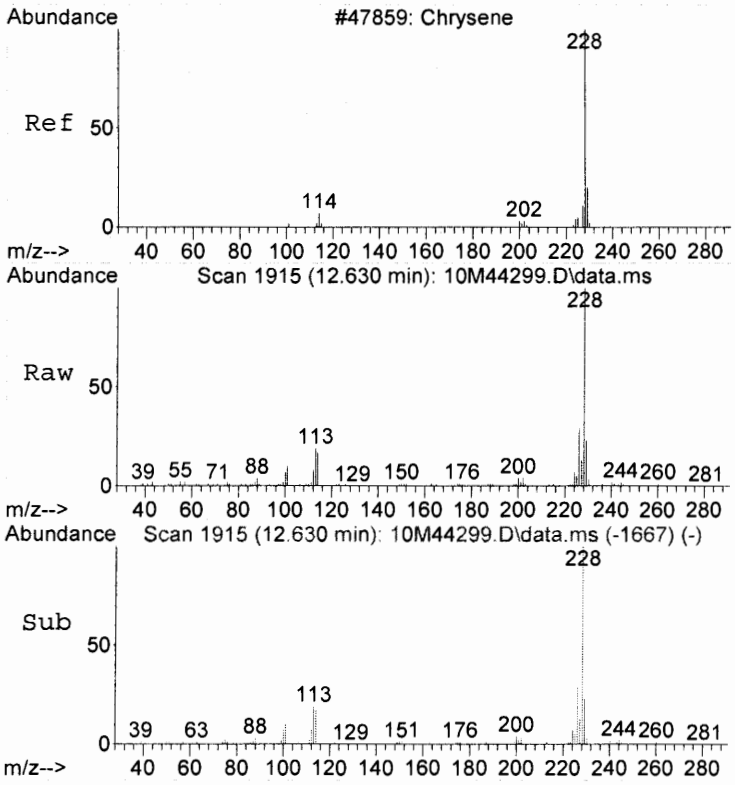


#97
Benzo[a]anthracene
Concen: 28.68 ng
RT: 12.592 min Scan# 1908
Delta R.T. 0.005 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:228 Resp: 348929

Ion	Ratio	Lower	Upper
228	100		
229	21.4	0.0	59.5
226	28.7	0.0	66.0

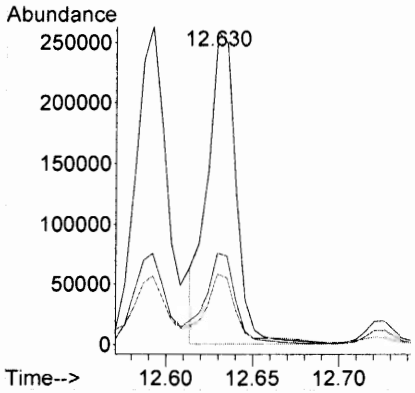


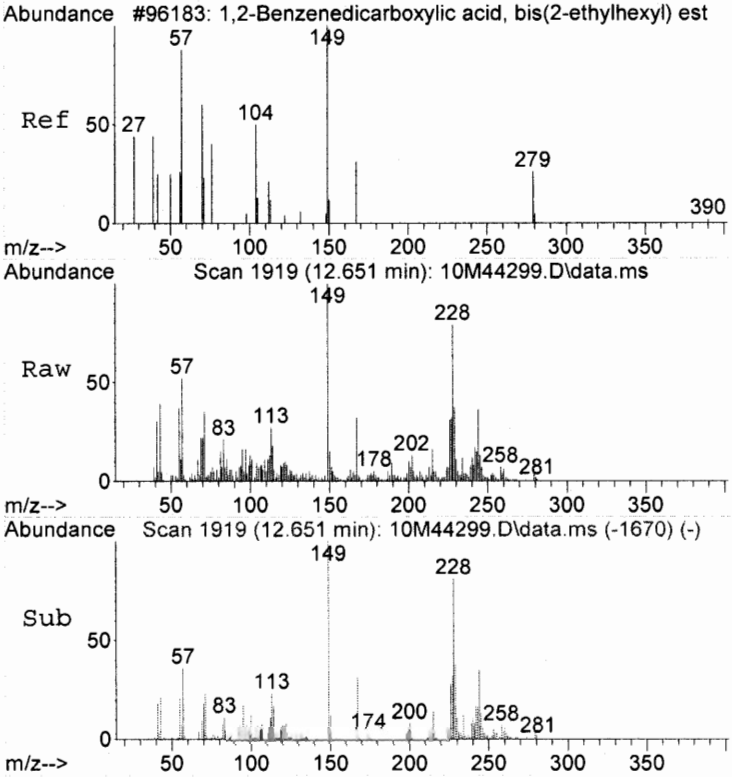


#98
Chrysene
Concen: 27.20 ng
RT: 12.630 min Scan# 1915
Delta R.T. 0.000 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:228 Resp: 299082

Ion	Ratio	Lower	Upper
228	100		
226	29.1	9.5	49.5
229	22.0	0.0	60.2

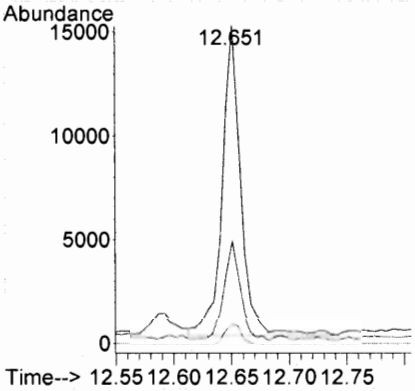


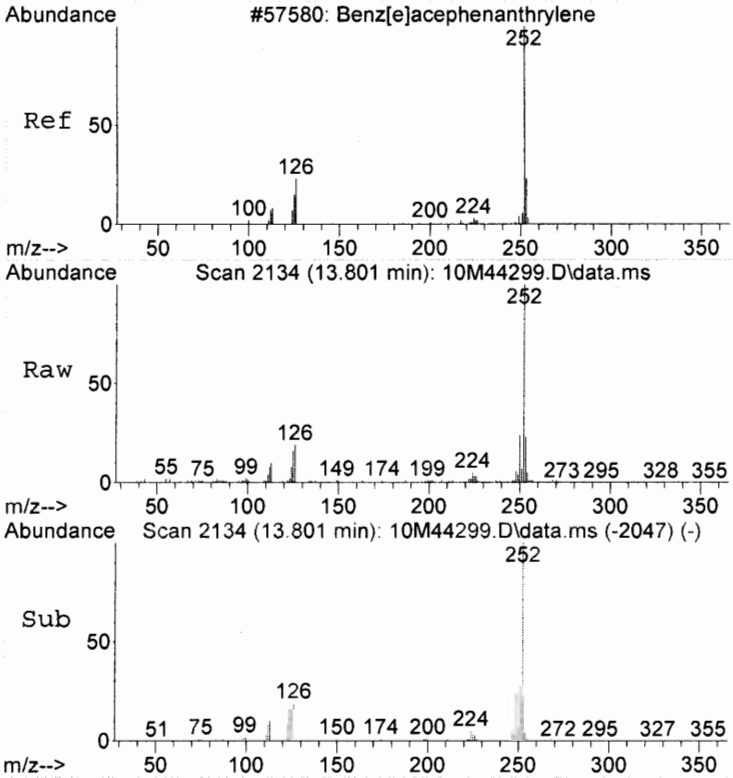


#99
bis(2-Ethylhexyl)phthalate
Concen: 2.35 ng
RT: 12.651 min Scan# 1919
Delta R.T. 0.006 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:149 Resp: 16588

Ion	Ratio	Lower	Upper
149	100		
167	31.3	0.0	54.4
279	6.5	0.0	43.5

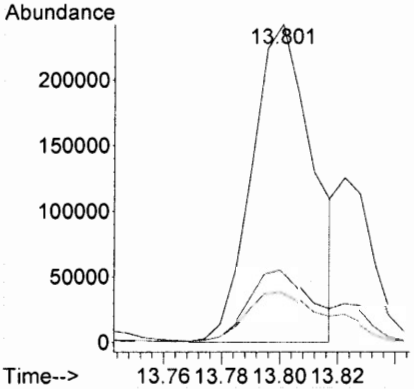


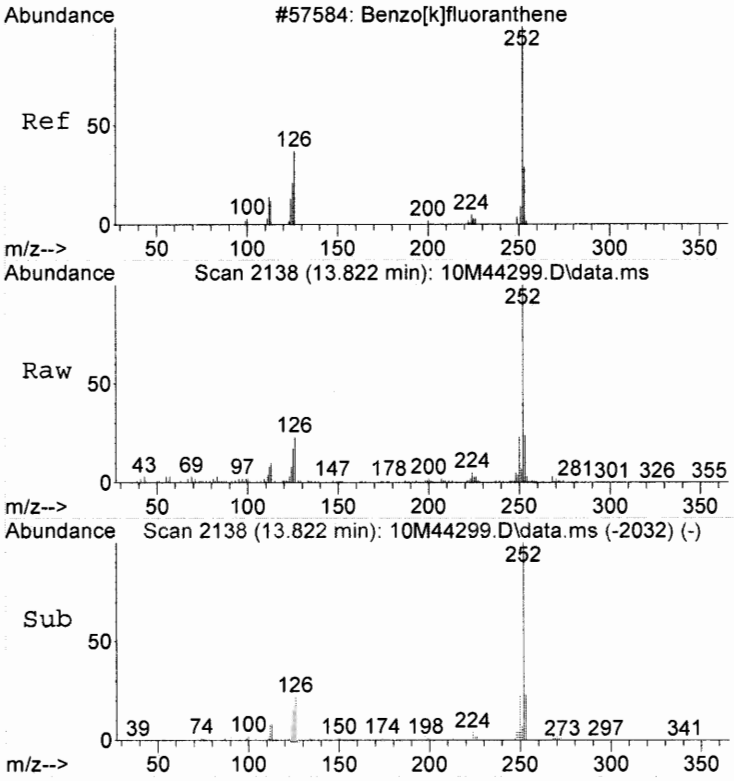


#102
Benzo[b]fluoranthene
Concen: 34.86 ng m
RT: 13.801 min Scan# 2134
Delta R.T. 0.011 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:252 Resp: 353835

Ion	Ratio	Lower	Upper
252	100		
253	23.1	0.0	62.3
125	16.3	0.0	58.4

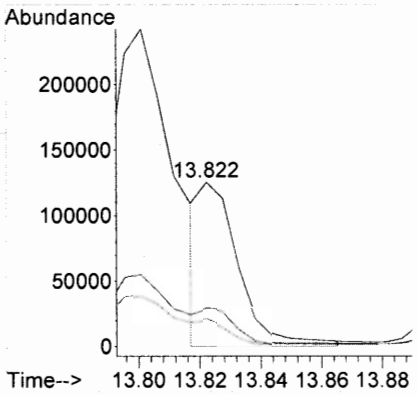


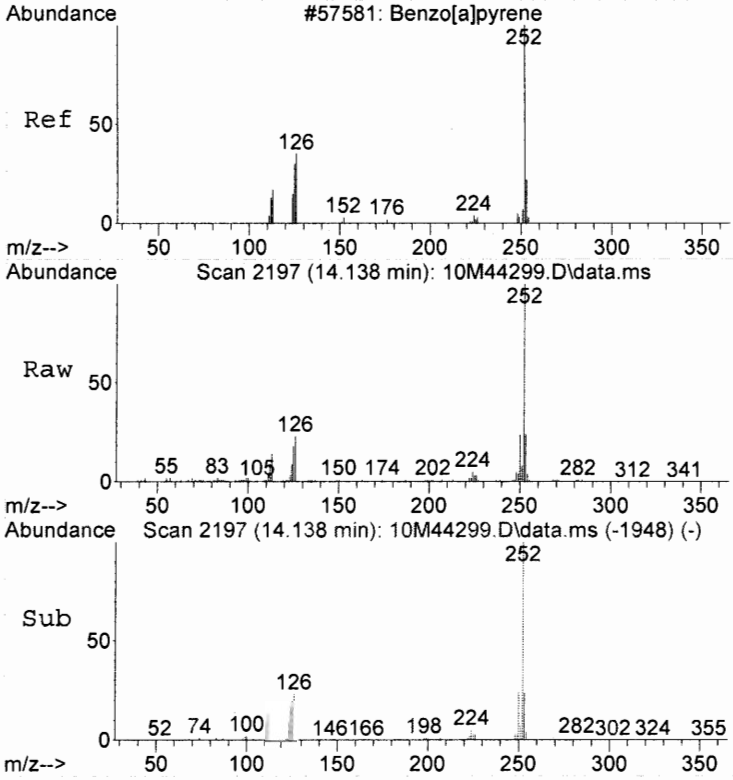


#103
Benzo[k]fluoranthene
Concen: 11.08 ng m
RT: 13.822 min Scan# 2138
Delta R.T. 0.000 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:252 Resp: 112487

Ion	Ratio	Lower	Upper
252	100		
253	23.6	0.0	52.2
125	16.9	0.0	48.9

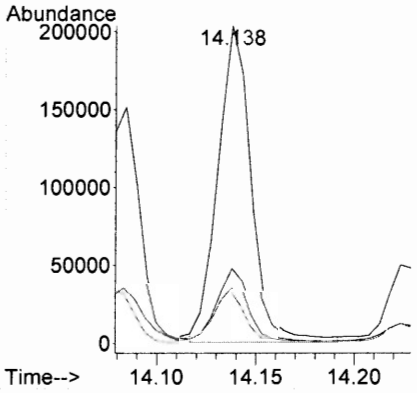


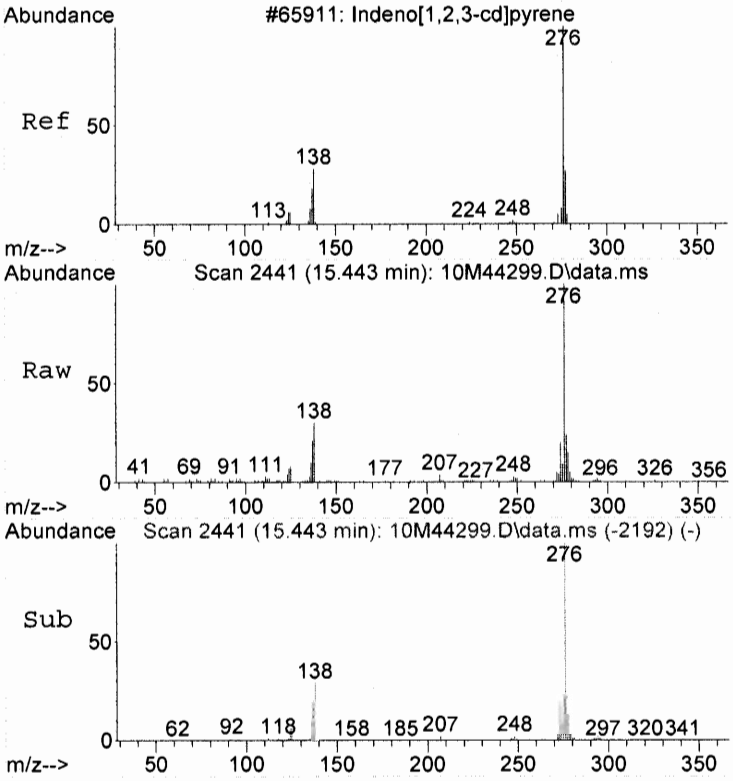


#104
Benzo[a]pyrene
Concen: 24.87 ng
RT: 14.138 min Scan# 2197
Delta R.T. 0.005 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:252 Resp: 241493

Ion	Ratio	Lower	Upper
252	100		
253	23.3	0.0	62.4
125	17.0	0.0	60.9

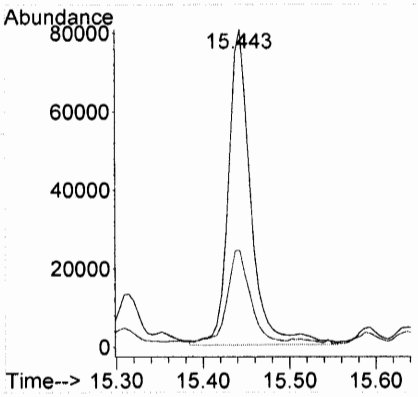


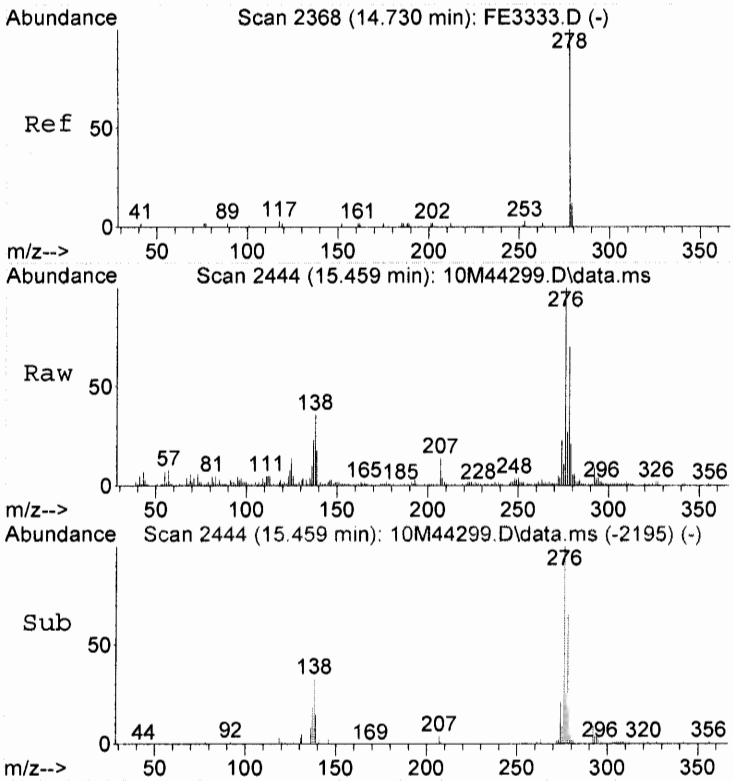


#105
Indeno[1,2,3-cd]pyrene
Concen: 13.07 ng
RT: 15.443 min Scan# 2441
Delta R.T. 0.005 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:276 Resp: 145456

Ion	Ratio	Lower	Upper
276	100		
138	29.2	0.0	78.9

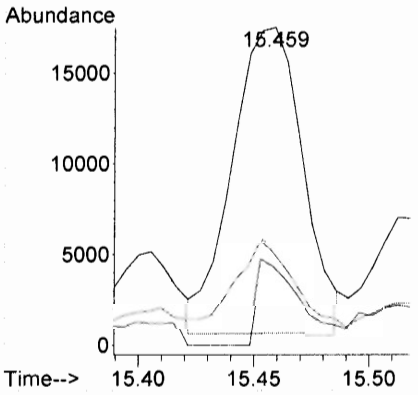


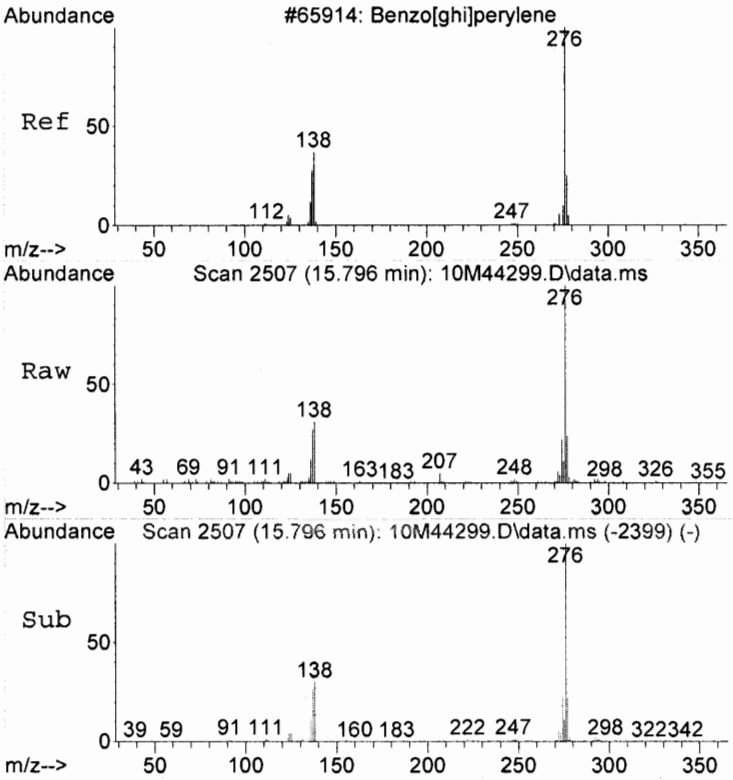


#106
Dibenzo[a,h]anthracene
Concen: 3.88 ng
RT: 15.459 min Scan# 2444
Delta R.T. 0.005 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:278 Resp: 35819

Ion	Ratio	Lower	Upper
278	100		
139	29.6	0.0	72.0
279	24.5	0.0	63.9

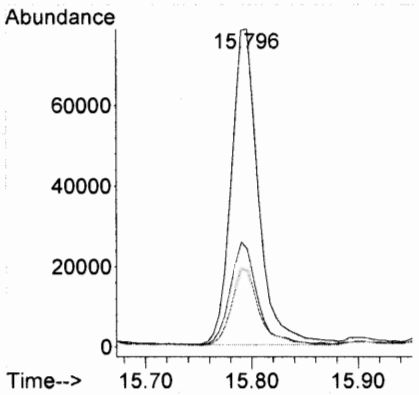




#107
Benzo[g,h,i]perylene
Concen: 15.25 ng
RT: 15.796 min Scan# 2507
Delta R.T. 0.011 min
Lab File: 10M44299.D
Acq: 27 May 2014 17:12

Tgt Ion:276 Resp: 140210

Ion	Ratio	Lower	Upper
276	100		
138	32.3	0.0	100.0
277	24.9	0.0	60.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-008
Client Id: EXT 2(15-17')
Data File: 10M44308.D
Analysis Date: 05/28/14 11:22
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.035	U	205-99-2	Benzo[b]fluoranthene	0.035	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	U	191-24-2	Benzo[g,h,i]perylene	0.035	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.035	U	207-08-9	Benzo[k]fluoranthene	0.035	U
95-95-4	2,4,5-Trichlorophenol	0.035	U	111-91-1	bis(2-Chloroethoxy)methan	0.035	U
88-06-2	2,4,6-Trichlorophenol	0.035	U	111-44-4	bis(2-Chloroethyl)ether	0.0088	U
120-83-2	2,4-Dichlorophenol	0.0088	U	108-60-1	bis(2-chloroisopropyl)ether	0.035	U
105-67-9	2,4-Dimethylphenol	0.0088	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.035**	**0.042**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.035	U
121-14-2	2,4-Dinitrotoluene	0.035	U	105-60-2	Caprolactam	0.035	U
606-20-2	2,6-Dinitrotoluene	0.035	U	86-74-8	Carbazole	0.035	U
91-58-7	2-Chloronaphthalene	0.035	U	218-01-9	Chrysene	0.035	U
95-57-8	2-Chlorophenol	0.035	U	53-70-3	Dibenzo[a,h]anthracene	0.035	U
91-57-6	2-Methylnaphthalene	0.035	U	132-64-9	Dibenzofuran	0.0088	U
95-48-7	2-Methylphenol	0.0088	U	84-66-2	Diethylphthalate	0.035	U
88-74-4	2-Nitroaniline	0.035	U	131-11-3	Dimethylphthalate	0.035	U
88-75-5	2-Nitrophenol	0.035	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0088	U	117-84-0	Di-n-octylphthalate	0.035	U
91-94-1	3,3'-Dichlorobenzidine	0.035	U	**206-44-0**	**Fluoranthene**	**0.035**	**0.058**
99-09-2	3-Nitroaniline	0.035	U	86-73-7	Fluorene	0.035	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.035	U
101-55-3	4-Bromophenyl-phenylether	0.035	U	87-68-3	Hexachlorobutadiene	0.035	U
59-50-7	4-Chloro-3-methylphenol	0.035	U	77-47-4	Hexachlorocyclopentadiene	0.035	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.035	U
7005-72-3	4-Chlorophenyl-phenylether	0.035	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.035	U
100-01-6	4-Nitroaniline	0.035	U	78-59-1	Isophorone	0.035	U
100-02-7	4-Nitrophenol	0.035	U	91-20-3	Naphthalene	0.0088	U
83-32-9	Acenaphthene	0.035	U	98-95-3	Nitrobenzene	0.035	U
208-96-8	Acenaphthylene	0.035	U	621-64-7	N-Nitroso-di-n-propylamine	0.0088	U
98-86-2	Acetophenone	0.035	U	86-30-6	n-Nitrosodiphenylamine	0.035	U
120-12-7	Anthracene	0.035	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.035	U	**85-01-8**	**Phenanthrene**	**0.035**	**0.045**
100-52-7	Benzaldehyde	0.035	U	108-95-2	Phenol	0.035	U
56-55-3	Benzo[a]anthracene	0.035	U	**129-00-0**	**Pyrene**	**0.035**	**0.058**
50-32-8	Benzo[a]pyrene	0.035	U				

Worksheet #: 304385 ***Total Target Concentration*** 0.2 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

SampleID : AC78787-008 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44308.D Sam Mult : 1 Vial# : 4 Qt On : 05/28/14 11:41
Acq On : 05/28/14 11:22 Misc : S,BN Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-28-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	92905	40.00	ng	0.00
29) Naphthalene-d8	6.725	136	386042	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	222627	40.00	ng	0.00
74) Phenanthrene-d10	9.570	188	388127	40.00	ng	0.00
88) Chrysene-d12	12.597	240	377871	40.00	ng	0.00
100) Perylene-d12	14.191	264	335463	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.521	112	232280	65.70	ng	0.01
Spiked Amount 100.000			Recovery = 65.70%			
15) Phenol-d5	5.409	99	347268	69.44	ng	0.00
Spiked Amount 100.000			Recovery = 69.44%			
30) Nitrobenzene-d5	6.168	128	53862	30.14	ng	0.00
Spiked Amount 50.000			Recovery = 60.28%			
52) 2-Fluorobiphenyl	7.559	172	259742	31.67	ng	0.00
Spiked Amount 50.000			Recovery = 63.34%			
77) 2,4,6-Tribromophenol	8.859	330	59993	47.31	ng	0.00
Spiked Amount 100.000			Recovery = 47.31%			
91) Terphenyl-d14	11.362	244	299684	36.78	ng	0.00
Spiked Amount 50.000			Recovery = 73.56%			
Target Compounds						Qvalue
83) Phenanthrene	9.597	178	28469	2.5412	ng	100
87) Fluoranthene	10.913	202	40782	3.3004	ng	99
89) Pyrene	11.175	202	38375	3.2815	ng	96
99) bis(2-Ethylhexyl)phtha...	12.645	149	15301	2.3680	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

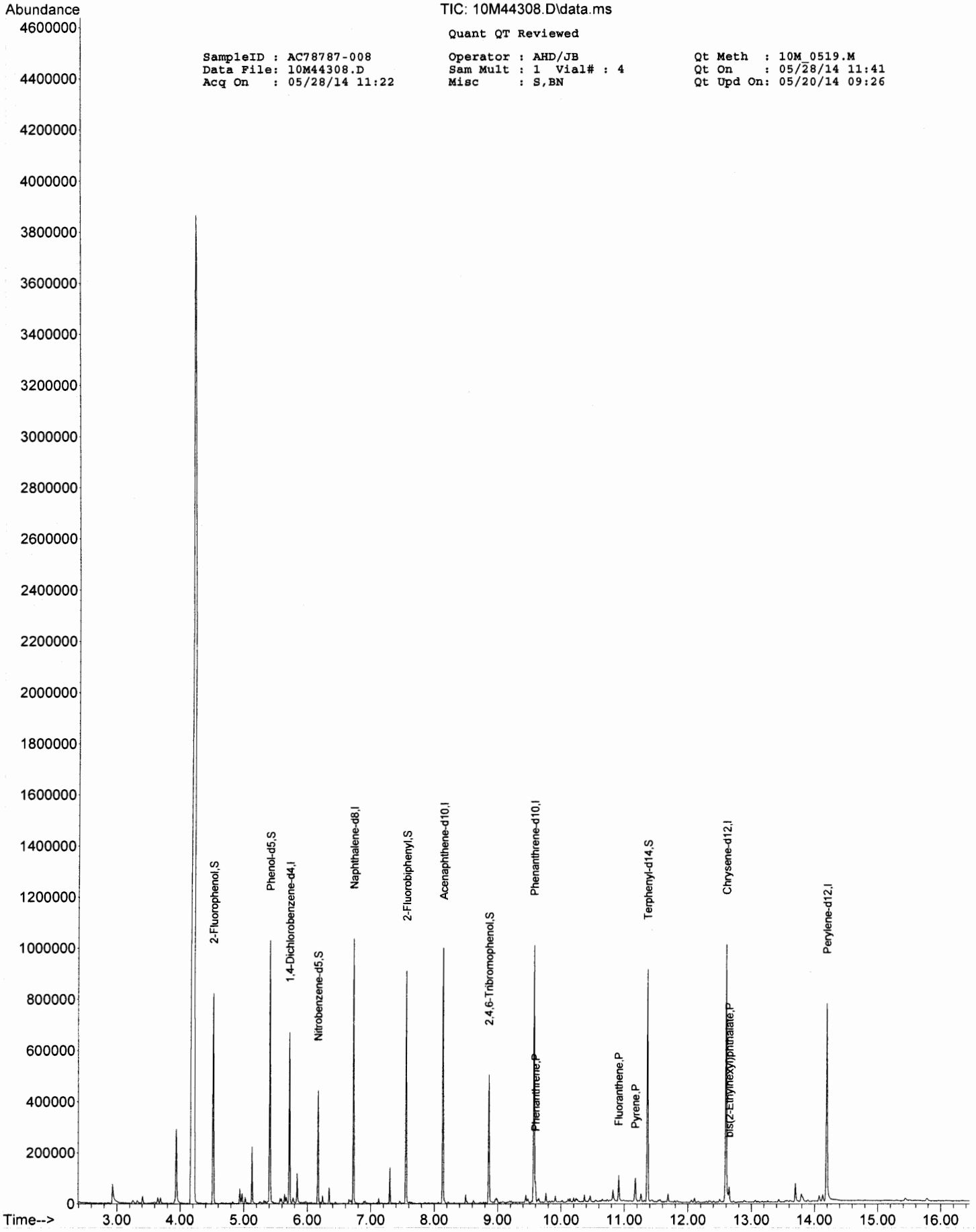
TIC: 10M44308.D\data.ms

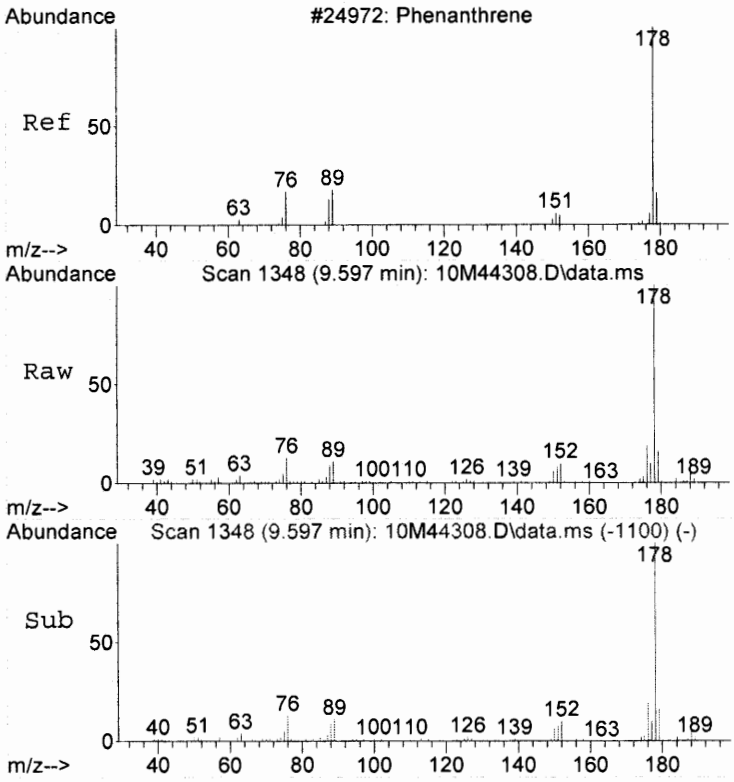
Quant QT Reviewed

SampleID : AC78787-008
Data File: 10M44308.D
Acq On : 05/28/14 11:22

Operator : AHD/JB
Sam Mult : 1 Vial# : 4
Misc : S,BN

Qt Meth : 10M_0519.M
Qt On : 05/28/14 11:41
Qt Upd On: 05/20/14 09:26

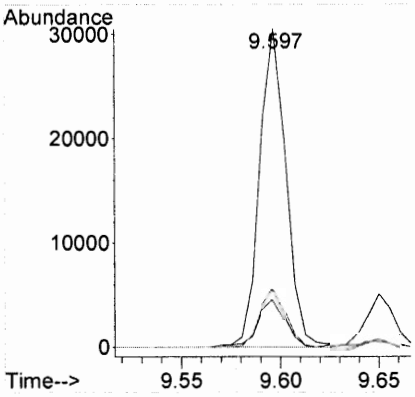


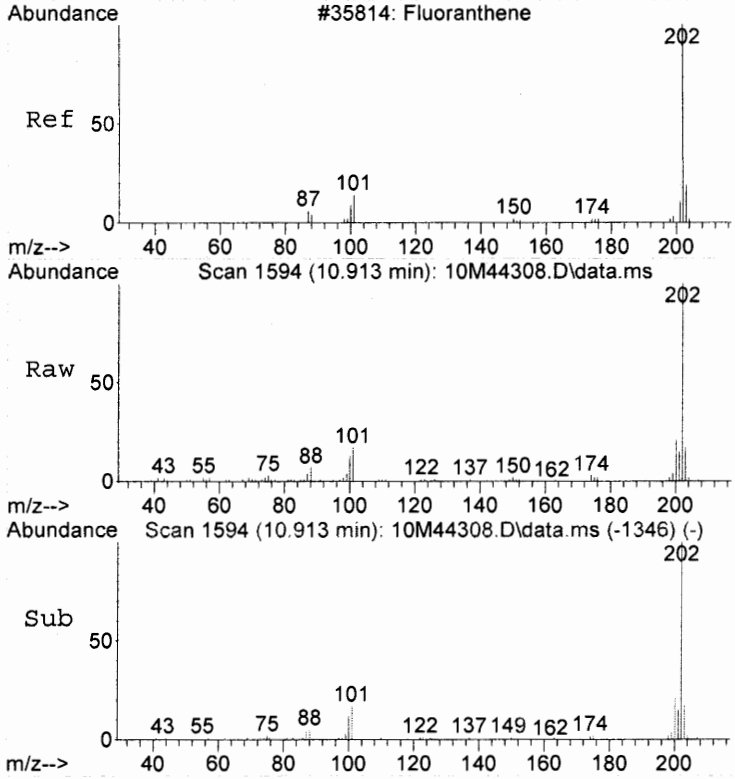


#83
Phenanthrene
Concen: 2.54 ng
RT: 9.597 min Scan# 1348
Delta R.T. -0.000 min
Lab File: 10M44308.D
Acq: 28 May 2014 11:22

Tgt Ion:178 Resp: 28469

Ion	Ratio	Lower	Upper
178	100		
179	15.7	0.0	55.5
176	19.1	0.0	59.3

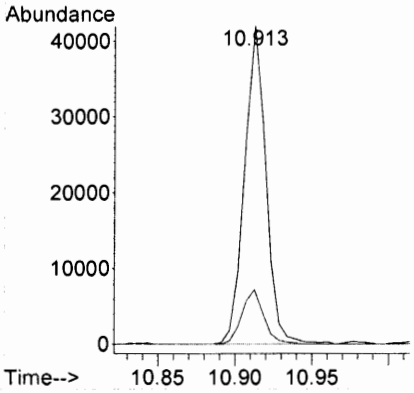


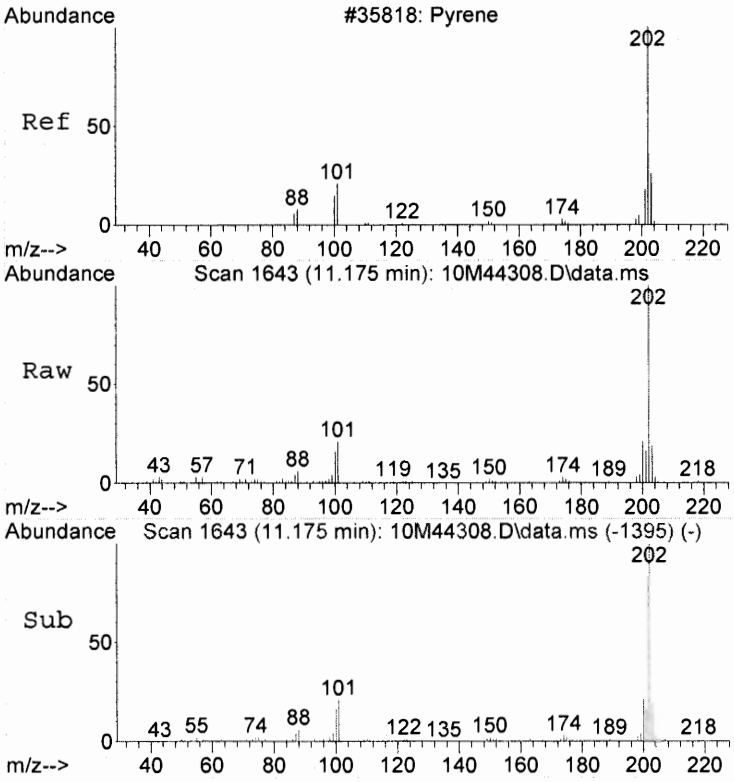


#87
Fluoranthene
Concen: 3.30 ng
RT: 10.913 min Scan# 1594
Delta R.T. -0.000 min
Lab File: 10M44308.D
Acq: 28 May 2014 11:22

Tgt Ion:202 Resp: 40782

Ion	Ratio	Lower	Upper
202	100		
101	17.1	0.0	57.6

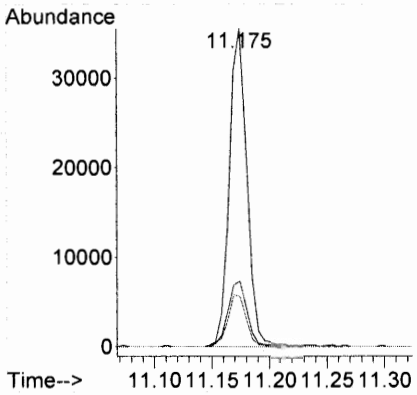


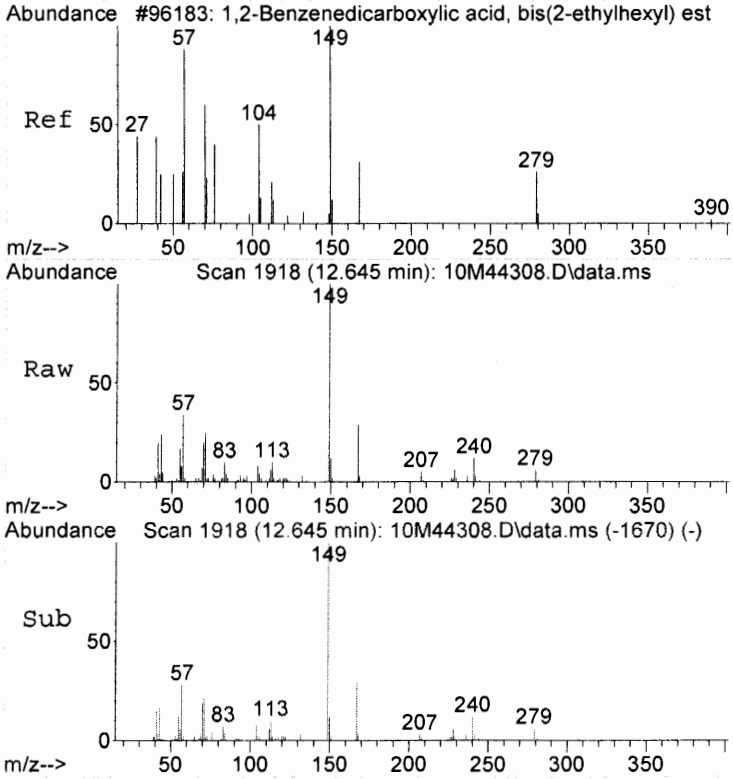


#89
Pyrene
Concen: 3.28 ng
RT: 11.175 min Scan# 1643
Delta R.T. -0.000 min
Lab File: 10M44308.D
Acq: 28 May 2014 11:22

Tgt Ion:202 Resp: 38375

Ion	Ratio	Lower	Upper
202	100		
101	20.7	0.0	62.2
100	15.7	0.0	57.8

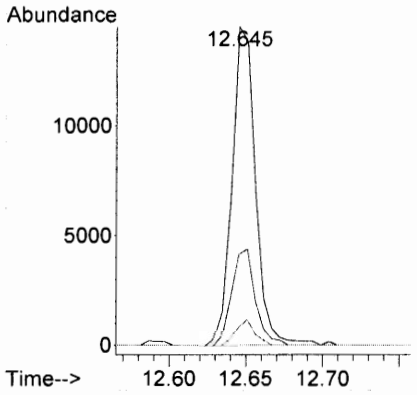




#99
bis(2-Ethylhexyl)phthalate
Concen: 2.37 ng
RT: 12.645 min Scan# 1918
Delta R.T. 0.000 min
Lab File: 10M44308.D
Acq: 28 May 2014 11:22

Tgt Ion:149 Resp: 15301

Ion	Ratio	Lower	Upper
149	100		
167	28.6	0.0	54.4
279	5.5	0.0	43.5



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-009
Client Id: DUP052014 U
Data File: 10M44249.D
Analysis Date: 05/23/14 12:42
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 304385 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

SampleID : AC78787-009 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44249.D Sam Mult : 1 Vial# : 10 Qt On : 05/23/14 14:27
Acq On : 05/23/14 12:42 Misc : A,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	82860	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	327127	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	190097	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	340517	40.00	ng	0.00
88) Chrysene-d12	12.597	240	347140	40.00	ng	0.00
100) Perylene-d12	14.197	264	313133	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	205958	65.32	ng	0.00
Spiked Amount 100.000			Recovery = 65.32%			
15) Phenol-d5	5.403	99	209991	47.08	ng	0.00
Spiked Amount 100.000			Recovery = 47.08%			
30) Nitrobenzene-d5	6.168	128	81611	53.89	ng	0.00
Spiked Amount 50.000			Recovery = 107.78%			
52) 2-Fluorobiphenyl	7.559	172	355064	50.70	ng	0.00
Spiked Amount 50.000			Recovery = 101.40%			
77) 2,4,6-Tribromophenol	8.864	330	147799	116.29	ng	0.00
Spiked Amount 100.000			Recovery = 116.29%			
91) Terphenyl-d14	11.367	244	454216	60.68	ng	0.00
Spiked Amount 50.000			Recovery = 121.36%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

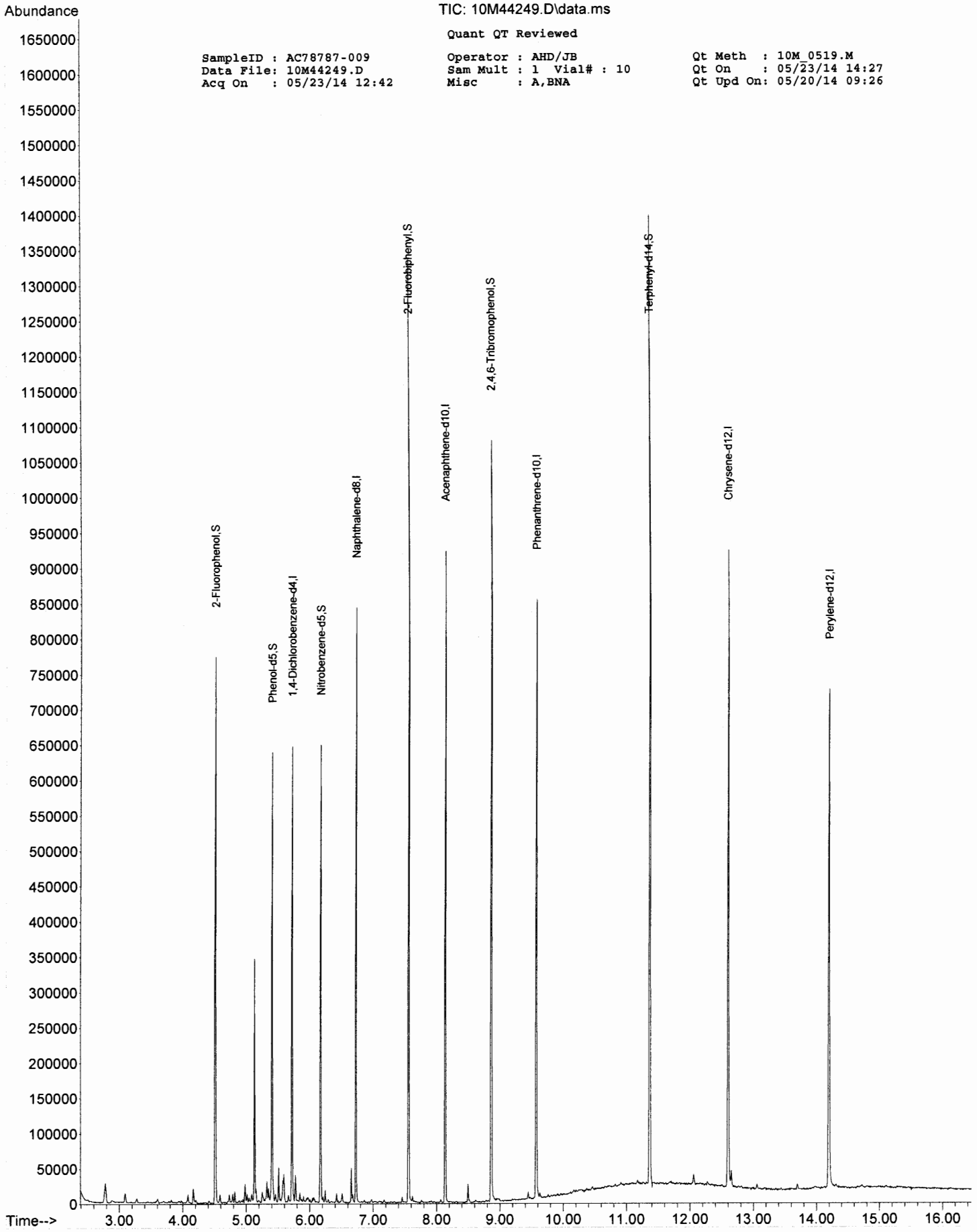
TIC: 10M44249.D\data.ms

Quant QT Reviewed

SampleID : AC78787-009
Data File: 10M44249.D
Acq On : 05/23/14 12:42

Operator : AHD/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA

Qt Meth : 10M_0519.M
Qt On : 05/23/14 14:27
Qt Upd On: 05/20/14 09:26



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-011
Client Id: EXT 2 U
Data File: 10M44250.D
Analysis Date: 05/23/14 13:05
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 304385

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

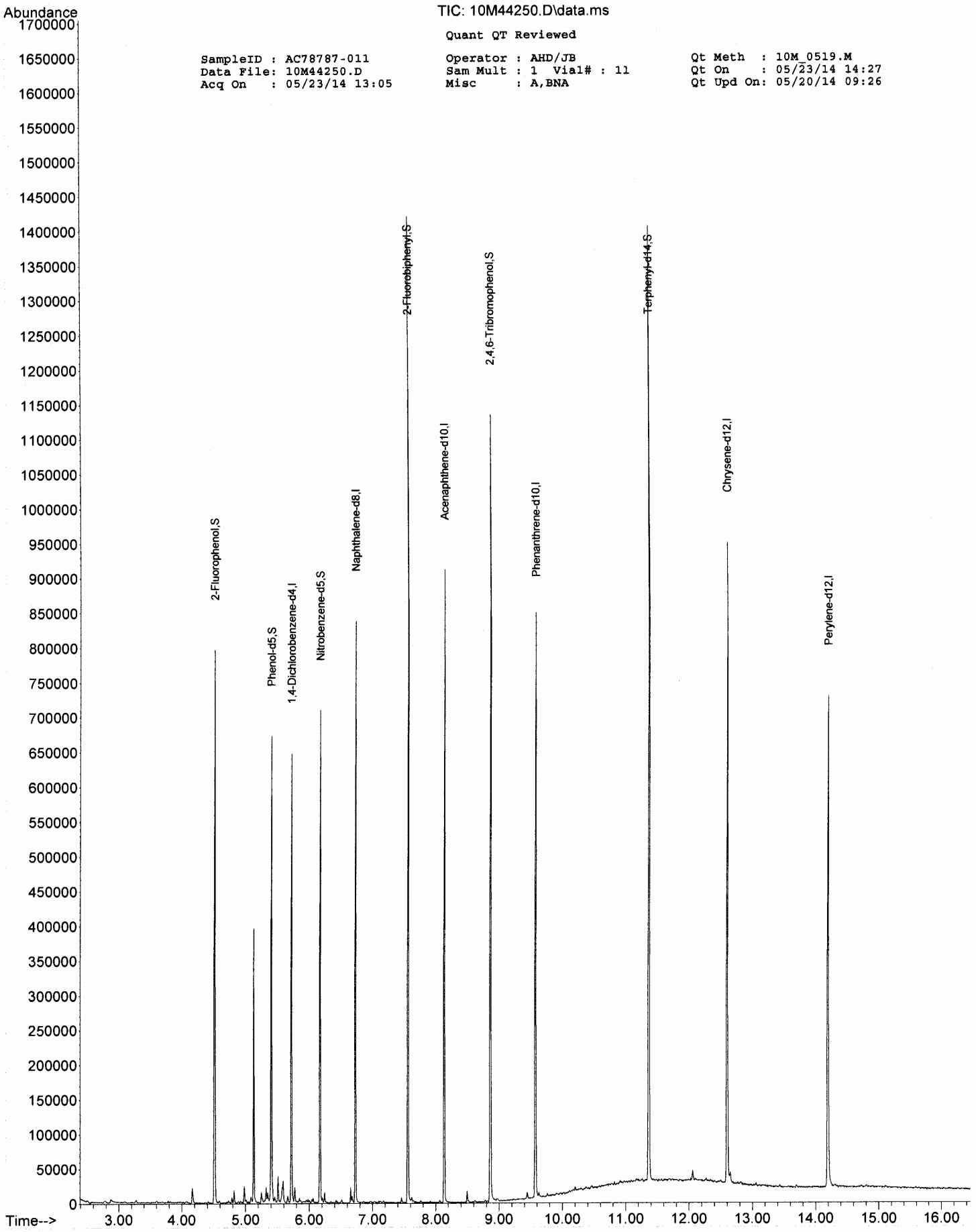
SampleID : AC78787-011 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44250.D Sam Mult : 1 Vial# : 11 Qt On : 05/23/14 14:27
Acq On : 05/23/14 13:05 Misc : A,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
7) 1,4-Dichlorobenzene-d4	5.719	152	83112	40.00 ng	0.00
29) Naphthalene-d8	6.730	136	329917	40.00 ng	0.00
47) Acenaphthene-d10	8.137	164	190891	40.00 ng	0.00
74) Phenanthrene-d10	9.575	188	339348	40.00 ng	0.00
88) Chrysene-d12	12.597	240	349093	40.00 ng	0.00
100) Perylene-d12	14.197	264	316005	40.00 ng	0.00
System Monitoring Compounds					
10) 2-Fluorophenol	4.510	112	218550	69.10 ng	0.00
Spiked Amount 100.000			Recovery = 69.10%		
15) Phenol-d5	5.403	99	220398	49.26 ng	0.00
Spiked Amount 100.000			Recovery = 49.26%		
30) Nitrobenzene-d5	6.168	128	85902	56.24 ng	0.00
Spiked Amount 50.000			Recovery = 112.48%		
52) 2-Fluorobiphenyl	7.559	172	376410	53.52 ng	0.00
Spiked Amount 50.000			Recovery = 107.04%		
77) 2,4,6-Tribromophenol	8.864	330	152433	119.63 ng	0.00
Spiked Amount 100.000			Recovery = 119.63%		
91) Terphenyl-d14	11.367	244	466070	61.92 ng	0.00
Spiked Amount 50.000			Recovery = 123.84%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44250.D\data.ms
Quant QT Reviewed
SampleID : AC78787-011
Data File: 10M44250.D
Acq On : 05/23/14 13:05
Operator : AHD/JB
Sam Mult : 1 Vial# : 11
Misc : A,BNA
Qt Meth : 10M_0519.M
Qt On : 05/23/14 14:27
Qt Upd On: 05/20/14 09:26
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-014
Client Id: EXT 3(0-2')
Data File: 9M57042.D
Analysis Date: 05/27/14 18:25
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.037	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.037**	**0.99**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.037	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.037**	**0.51**
58-90-2	2,3,4,6-Tetrachlorophenol	0.037	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.037**	**0.32**
95-95-4	2,4,5-Trichlorophenol	0.037	U	111-91-1	bis(2-Chloroethoxy)methan	0.037	U
88-06-2	2,4,6-Trichlorophenol	0.037	U	111-44-4	bis(2-Chloroethyl)ether	0.0092	U
120-83-2	2,4-Dichlorophenol	0.0092	U	108-60-1	bis(2-chloroisopropyl)ether	0.037	U
105-67-9	2,4-Dimethylphenol	0.0092	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.037**	**0.042**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.037	U
121-14-2	2,4-Dinitrotoluene	0.037	U	105-60-2	Caprolactam	0.037	U
606-20-2	2,6-Dinitrotoluene	0.037	U	**86-74-8**	**Carbazole**	**0.037**	**0.10**
91-58-7	2-Chloronaphthalene	0.037	U	**218-01-9**	**Chrysene**	**0.037**	**0.83**
95-57-8	2-Chlorophenol	0.037	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.037**	**0.15**
91-57-6	2-Methylnaphthalene	0.037	U	**132-64-9**	**Dibenzofuran**	**0.0092**	**0.062**
95-48-7	2-Methylphenol	0.0092	U	84-66-2	Diethylphthalate	0.037	U
88-74-4	2-Nitroaniline	0.037	U	131-11-3	Dimethylphthalate	0.037	U
88-75-5	2-Nitrophenol	0.037	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0092	U	117-84-0	Di-n-octylphthalate	0.037	U
91-94-1	3,3'-Dichlorobenzidine	0.037	U	**206-44-0**	**Fluoranthene**	**0.037**	**1.5**
99-09-2	3-Nitroaniline	0.037	U	**86-73-7**	**Fluorene**	**0.037**	**0.081**
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.037	U
101-55-3	4-Bromophenyl-phenylether	0.037	U	87-68-3	Hexachlorobutadiene	0.037	U
59-50-7	4-Chloro-3-methylphenol	0.037	U	77-47-4	Hexachlorocyclopentadiene	0.037	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.037	U
7005-72-3	4-Chlorophenyl-phenylether	0.037	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.037**	**0.46**
100-01-6	4-Nitroaniline	0.037	U	78-59-1	Isophorone	0.037	U
100-02-7	4-Nitrophenol	0.037	U	**91-20-3**	**Naphthalene**	**0.0092**	**0.034**
83-32-9	**Acenaphthene**	**0.037**	**0.12**	98-95-3	Nitrobenzene	0.037	U
208-96-8	Acenaphthylene	0.037	U	621-64-7	N-Nitroso-di-n-propylamine	0.0092	U
98-86-2	Acetophenone	0.037	U	86-30-6	n-Nitrosodiphenylamine	0.037	U
120-12-7	**Anthracene**	**0.037**	**0.30**	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.037	U	**85-01-8**	**Phenanthrene**	**0.037**	**1.4**
100-52-7	Benzaldehyde	0.037	U	108-95-2	Phenol	0.037	U
56-55-3	**Benzo[a]anthracene**	**0.037**	**0.96**	**129-00-0**	**Pyrene**	**0.037**	**1.7**
50-32-8	**Benzo[a]pyrene**	**0.037**	**0.81**				

Worksheet #: 304385

Total Target Concentration

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

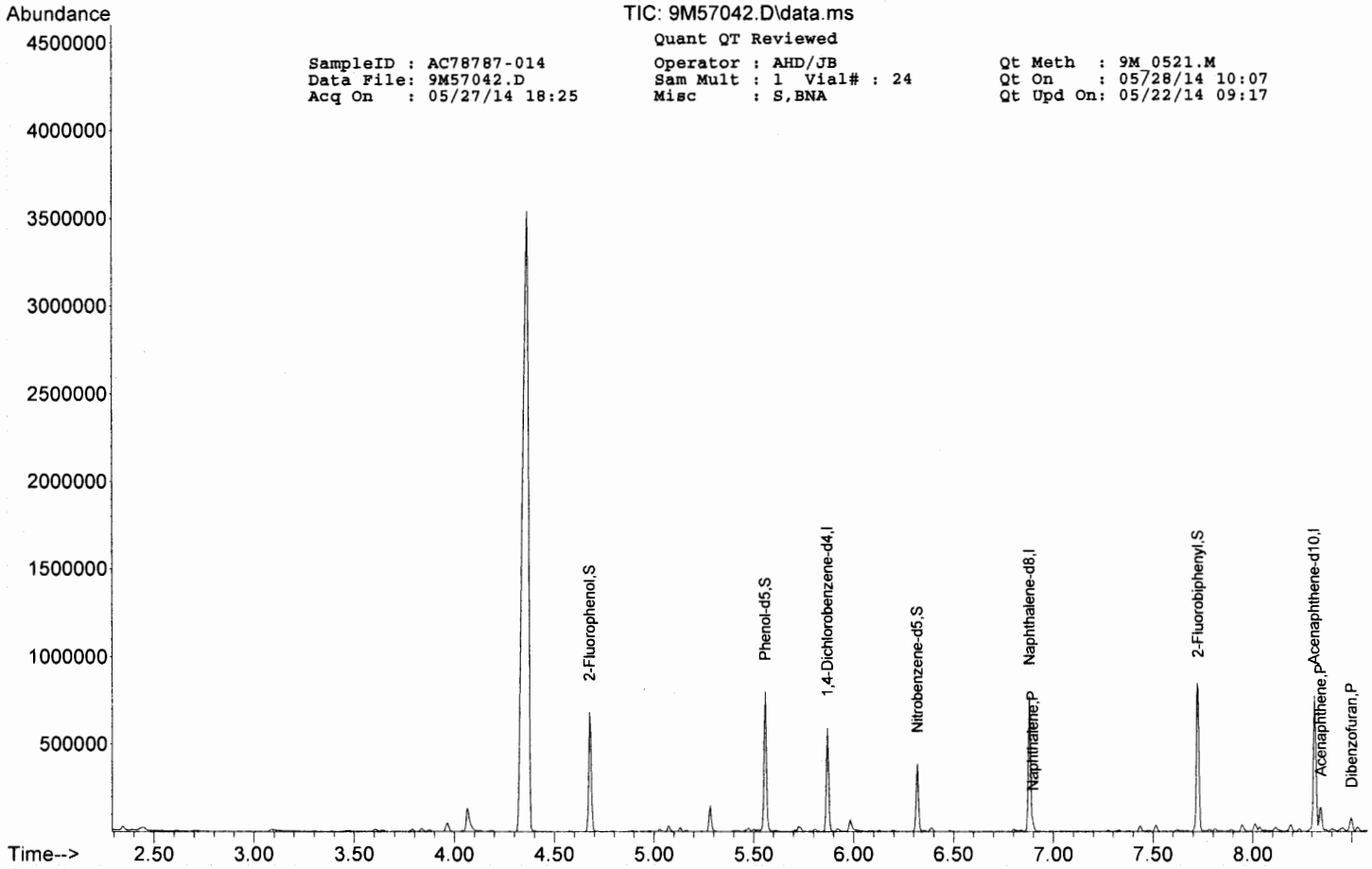
Quantitation Report (QT Reviewed)

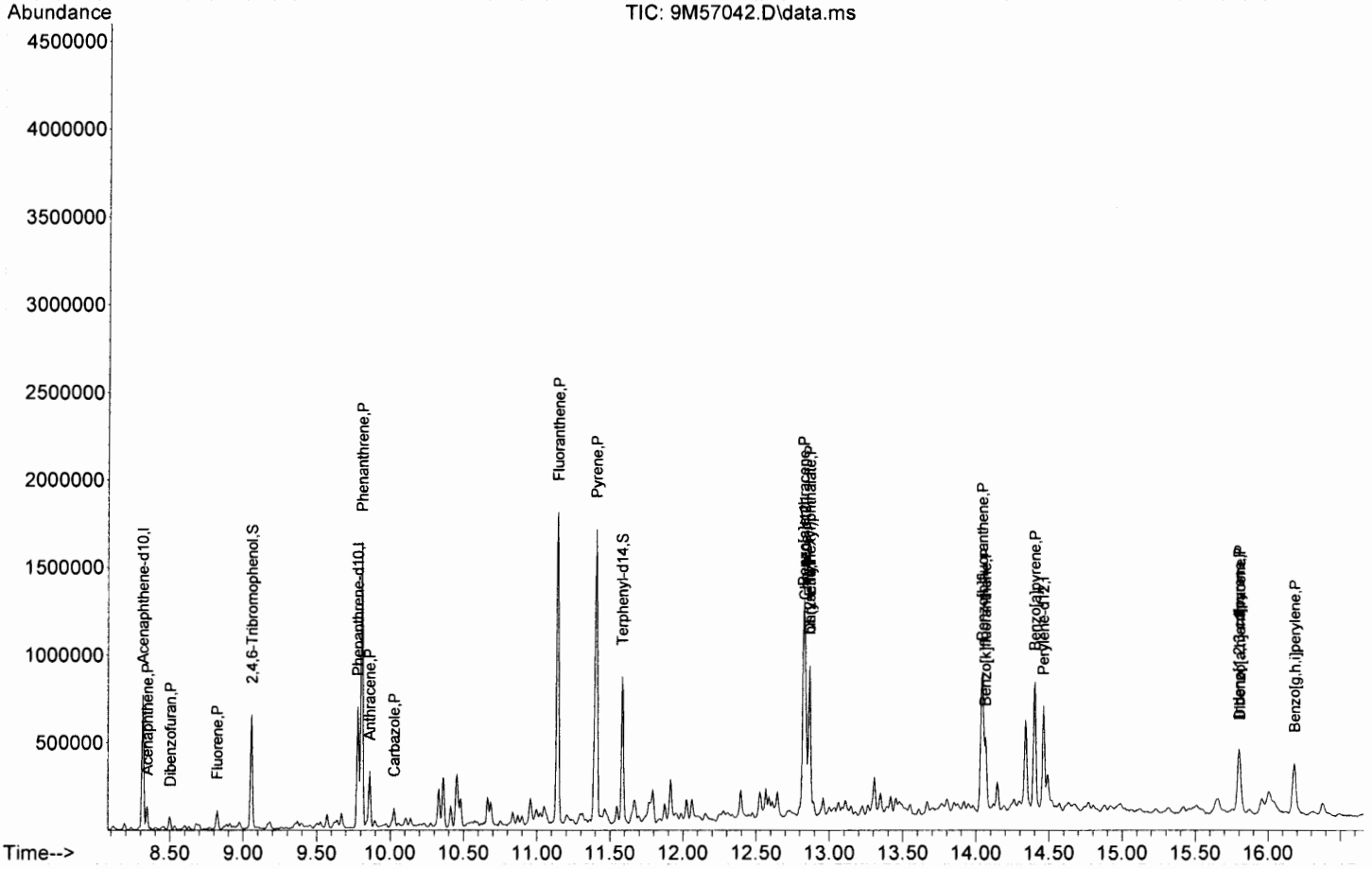
SampleID : AC78787-014 Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57042.D Sam Mult : 1 Vial# : 24 Qt On : 05/28/14 10:07
Acq On : 05/27/14 18:25 Misc : S,BNA Qt Upd On: 05/22/14 09:17

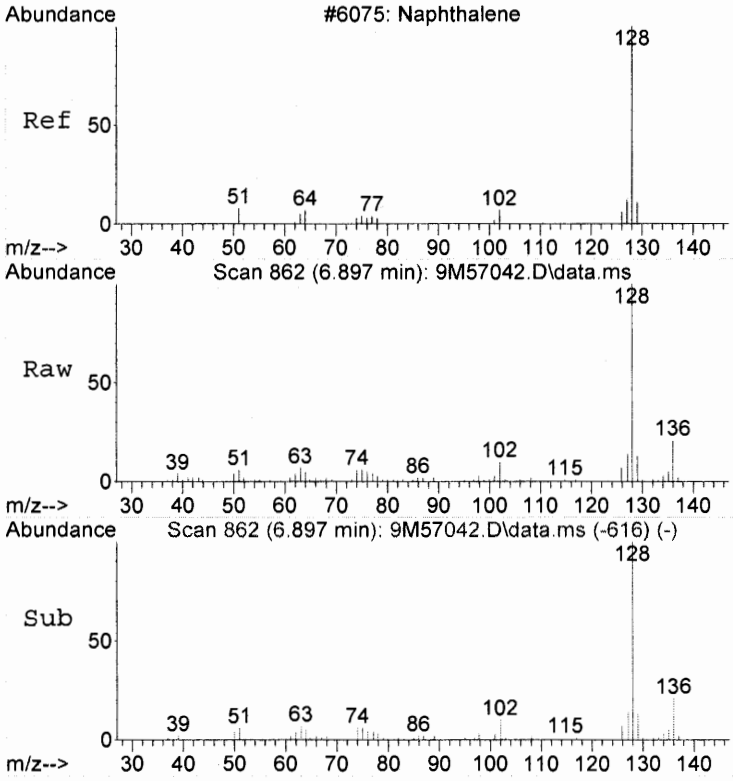
Data Path : G:\GcMsData\2014\GCMS_9\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.870	152	74492	40.00	ng	-0.01
29) Naphthalene-d8	6.881	136	285265	40.00	ng	-0.01
47) Acenaphthene-d10	8.315	164	156862	40.00	ng	-0.02
74) Phenanthrene-d10	9.780	188	264764	40.00	ng	-0.02
88) Chrysene-d12	12.834	240	264106	40.00	ng	-0.02
100) Perylene-d12	14.460	264	255184	40.00	ng	-0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.678	112	177569	67.23	ng	0.00
Spiked Amount 100.000			Recovery = 67.23%			
15) Phenol-d5	5.560	99	234641	68.39	ng	0.00
Spiked Amount 100.000			Recovery = 68.39%			
30) Nitrobenzene-d5	6.320	128	51263	37.84	ng	-0.01
Spiked Amount 50.000			Recovery = 75.68%			
52) 2-Fluorobiphenyl	7.726	172	245365	41.90	ng	-0.01
Spiked Amount 50.000			Recovery = 83.80%			
77) 2,4,6-Tribromophenol	9.058	330	70150	74.52	ng	-0.02
Spiked Amount 100.000			Recovery = 74.52%			
91) Terphenyl-d14	11.583	244	247966	42.04	ng	-0.02
Spiked Amount 50.000			Recovery = 84.08%			
Target Compounds						Qvalue
39) Naphthalene	6.897	128	15461	1.8303	ng	96
62) Acenaphthene	8.347	153	35560	6.6345	ng	93
65) Dibenzofuran	8.502	168	24649	3.3945	ng	88
69) Fluorene	8.823	166	27796	4.4213	ng	100
83) Phenanthrene	9.807	178	595682	75.8214	ng	99
84) Anthracene	9.861	178	129444	16.2448	ng	99
85) Carbazole	10.026	167	42649	5.5385	ng	97
87) Fluoranthene	11.144	202	791944	83.0222	ng	81
89) Pyrene	11.406	202	763631	92.7310	ng	80
97) Benzo[a]anthracene	12.824	228	430026	52.5385	ng	97
98) Chrysene	12.867	228	342599	45.1657	ng	98
99) bis(2-Ethylhexyl)phtha...	12.867	149	12231	2.2902	ng	98
102) Benzo[b]fluoranthene	14.043	252	449944m	54.0623	ng	
103) Benzo[k]fluoranthene	14.065	252	139079m	17.4919	ng	
104) Benzo[a]pyrene	14.402	252	345994	44.4690	ng	89
105) Indeno[1,2,3-cd]pyrene	15.798	276	223284	25.3691	ng	72
106) Dibenzo[a,h]anthracene	15.803	278	59753	8.0845	ng	66
107) Benzo[g,h,i]perylene	16.183	276	202138	27.8099	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M57042.D\data.ms
Quant QT Reviewed
SampleID : AC78787-014
Data File: 9M57042.D
Acq On : 05/27/14 18:25
Operator : AHD/JB
Sam Mult : 1 Vial# : 24
Misc : S,BNA
Qt Meth : 9M_0521.M
Qt On : 05/28/14 10:07
Qt Upd On: 05/22/14 09:17
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P
Time-->

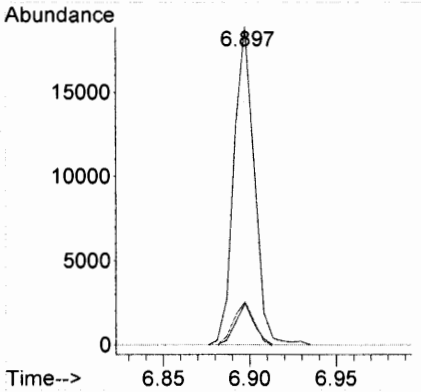

Abundance
TIC: 9M57042.D\data.ms
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P
Fluorene,P
2,4,6-Tribromophenol,S
Phenanthrene,P
Phenanthrene-d10,I
Anthracene,P
Carbazole,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[k]fluoranthene,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

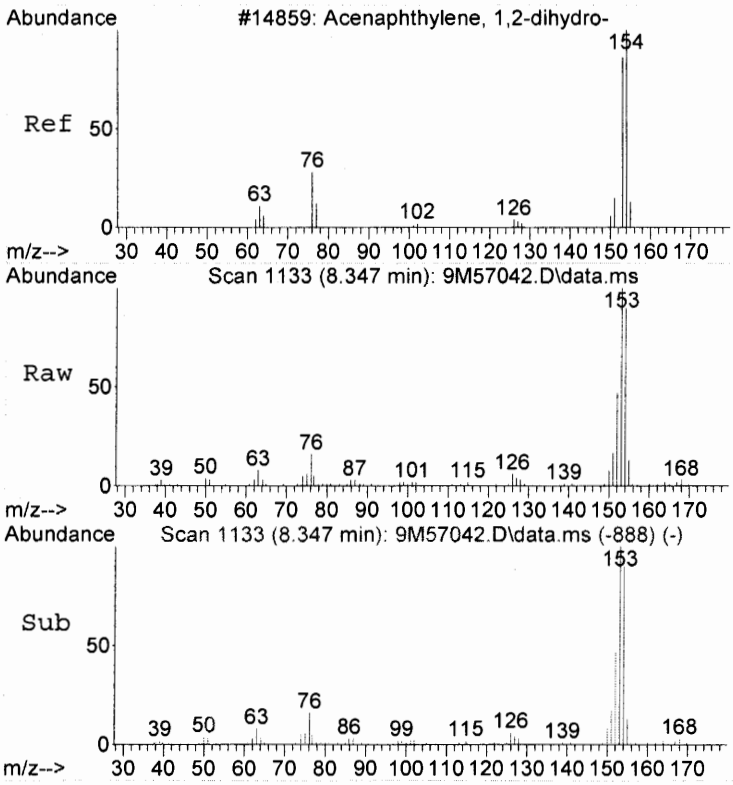


#39
Naphthalene
Concen: 1.83 ng
RT: 6.897 min Scan# 862
Delta R.T. -0.011 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:128 Resp: 15461

Ion	Ratio	Lower	Upper
128	100		
129	13.0	0.0	50.9
127	13.6	0.0	52.4

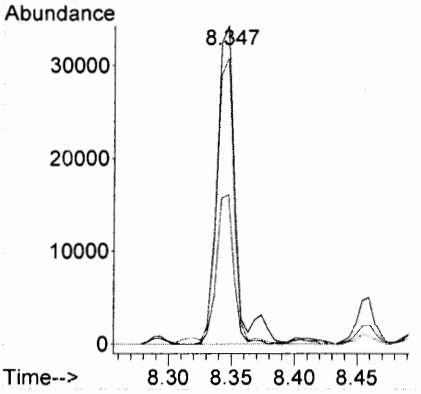


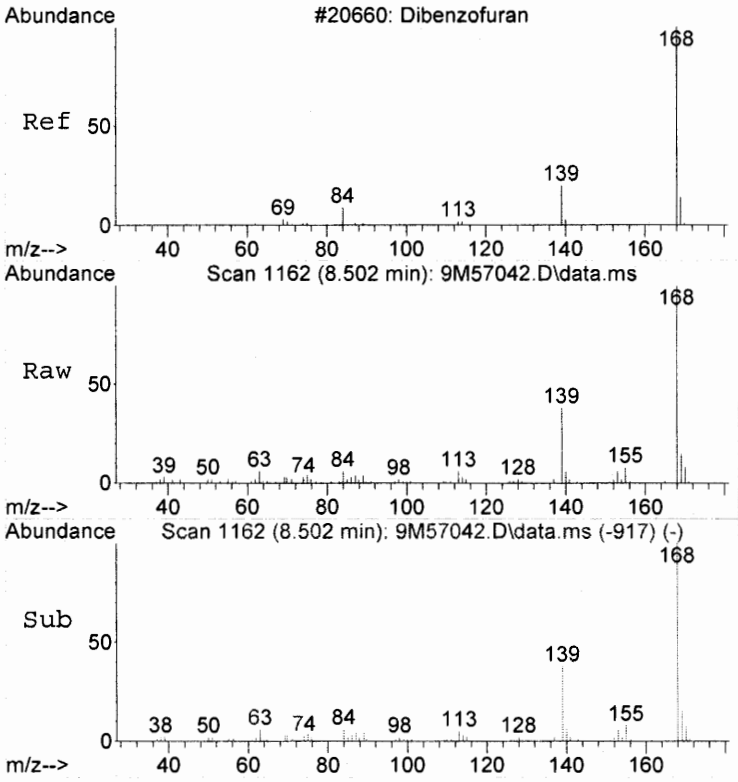


#62
Acenaphthene
Concen: 6.63 ng
RT: 8.347 min Scan# 1133
Delta R.T. -0.016 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:153 Resp: 35560

Ion	Ratio	Lower	Upper
153	100		
152	47.0	10.0	90.0
154	89.9	57.5	137.5

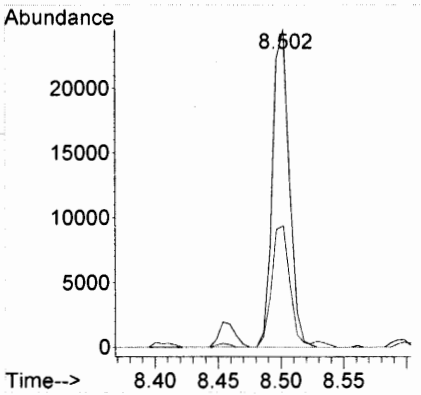


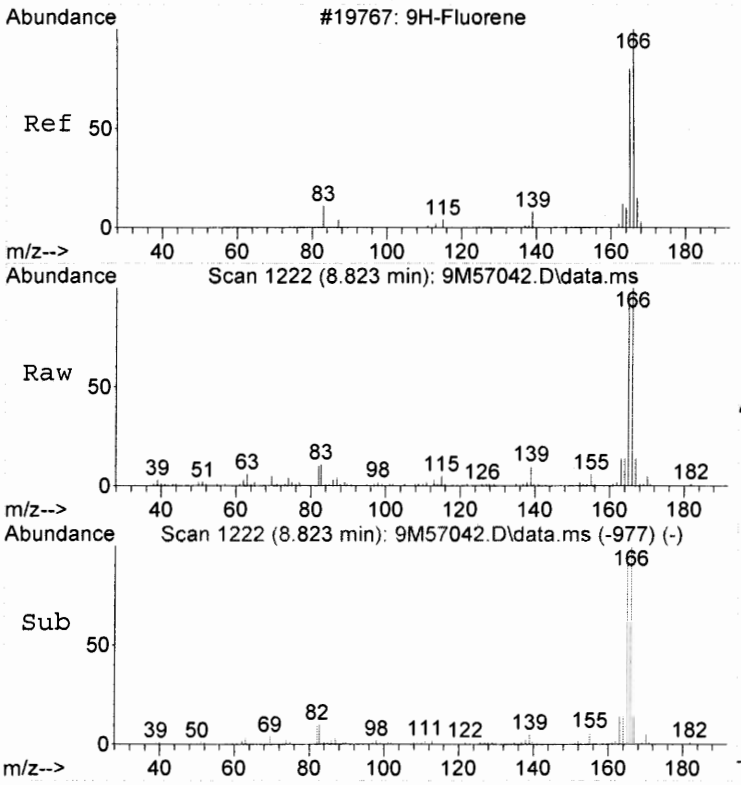


#65
Dibenzofuran
Concen: 3.39 ng
RT: 8.502 min Scan# 1162
Delta R.T. -0.016 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:168 Resp: 24649

Ion	Ratio	Lower	Upper
168	100		
139	38.2	0.0	246.0

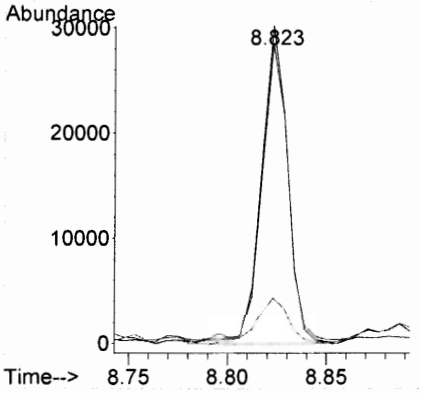


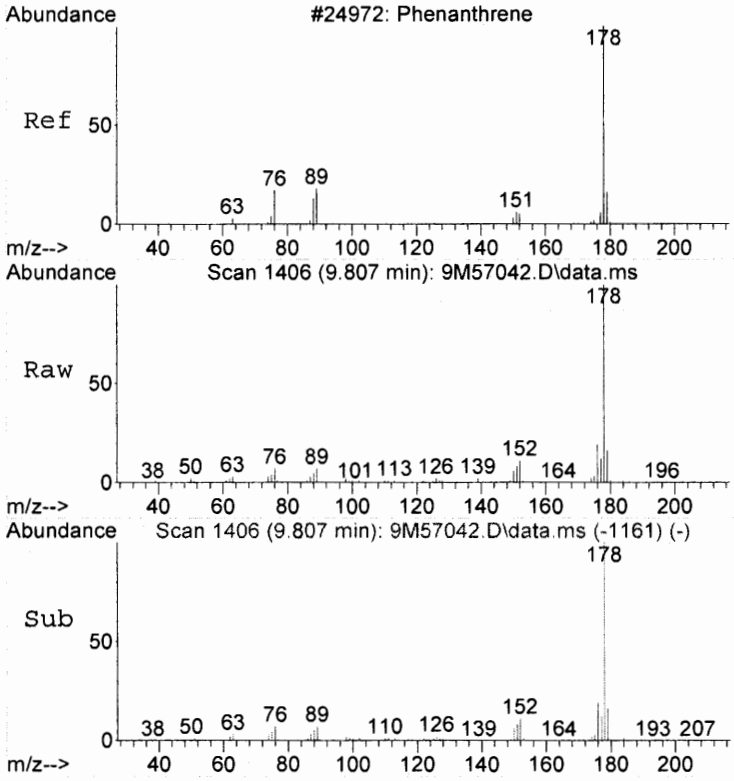


#69
Fluorene
Concen: 4.42 ng
RT: 8.823 min Scan# 1222
Delta R.T. -0.016 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:166 Resp: 27796

Ion	Ratio	Lower	Upper
166	100		
165	92.9	0.0	292.6
167	13.7	0.0	213.2

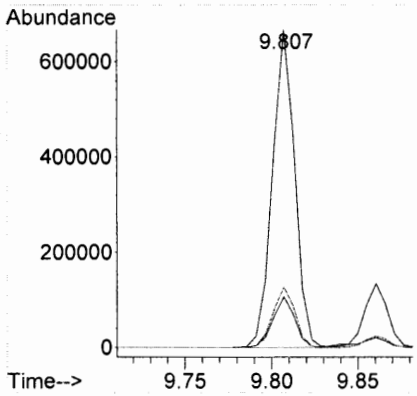


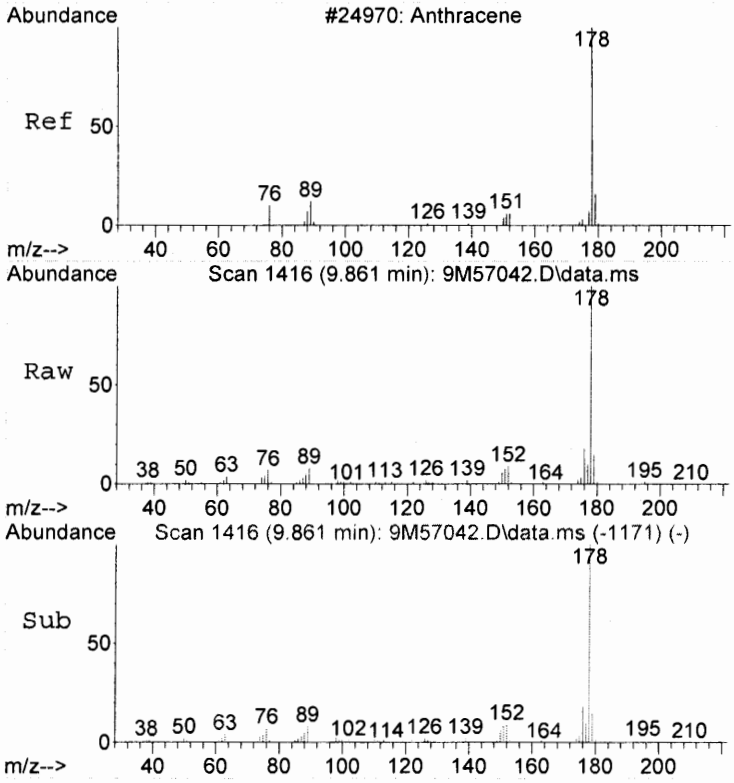


#83
Phenanthrene
Concen: 75.82 ng
RT: 9.807 min Scan# 1406
Delta R.T. -0.016 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:178 Resp: 595682

Ion	Ratio	Lower	Upper
178	100		
179	15.9	0.0	55.5
176	19.1	0.0	59.3

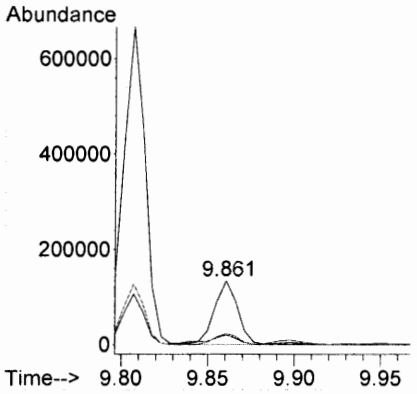


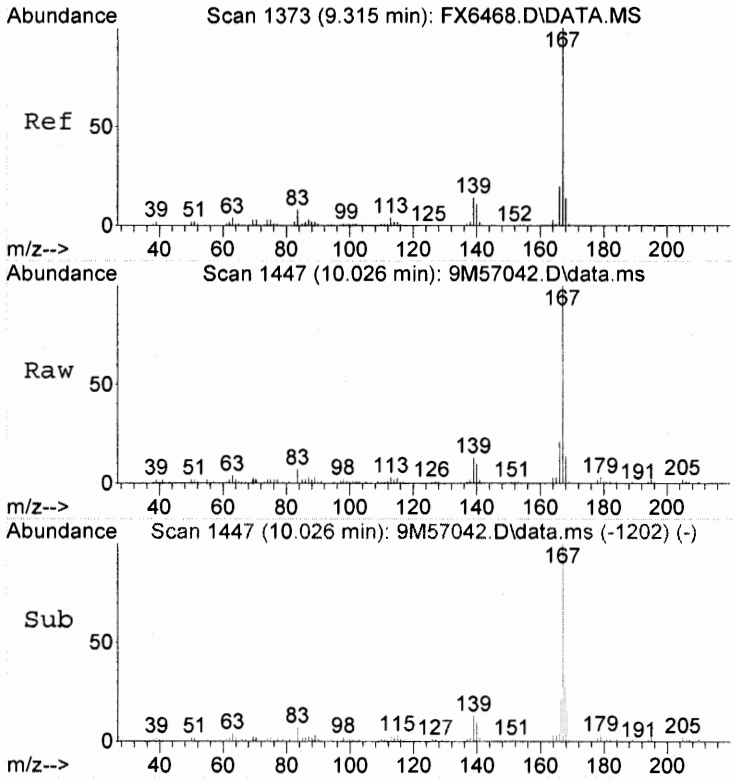


#84
Anthracene
Concen: 16.24 ng
RT: 9.861 min Scan# 1416
Delta R.T. -0.016 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:178 Resp: 129444

Ion	Ratio	Lower	Upper
178	100		
179	14.3	0.0	55.2
176	18.1	0.0	58.1

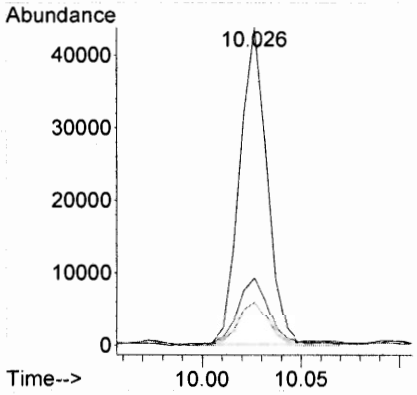


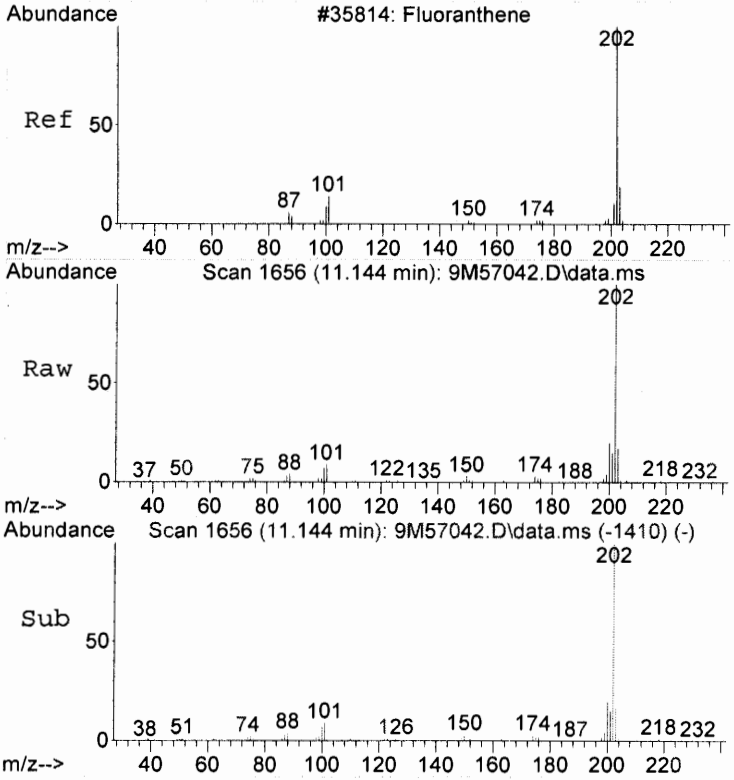


#85
Carbazole
Concen: 5.54 ng
RT: 10.026 min Scan# 1447
Delta R.T. -0.016 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:167 Resp: 42649

Ion	Ratio	Lower	Upper
167	100		
166	20.7	0.2	40.2
139	12.9	0.0	35.0

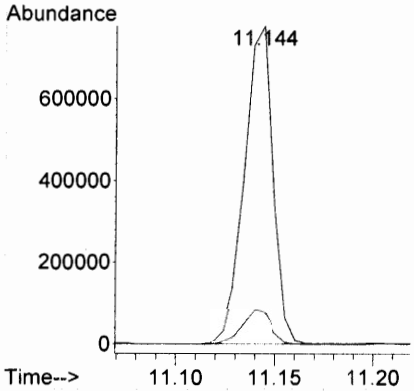


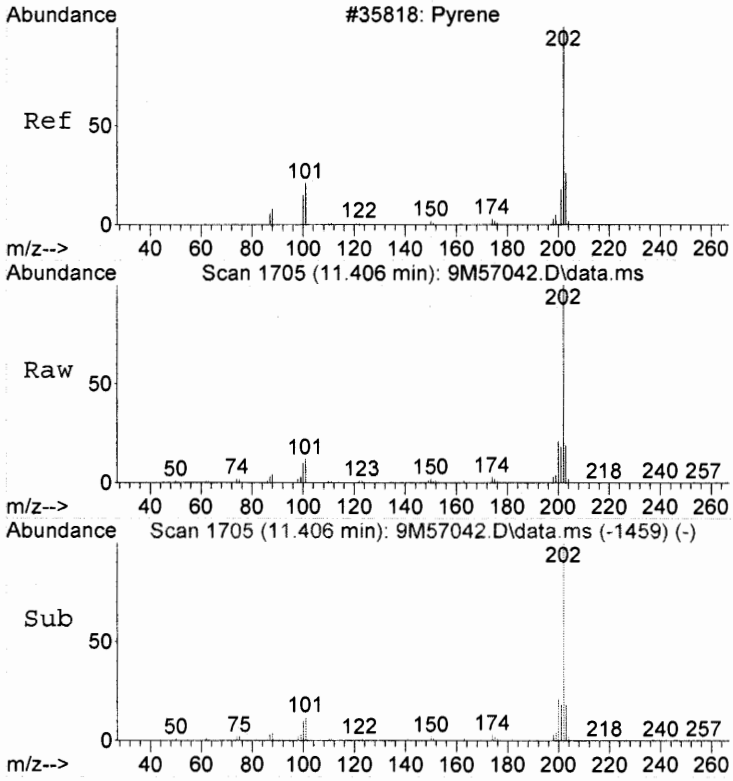


#87
Fluoranthene
Concen: 83.02 ng
RT: 11.144 min Scan# 1656
Delta R.T. -0.011 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:202 Resp: 791944

Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	57.6

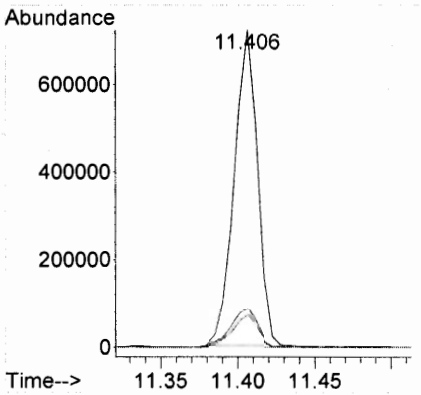


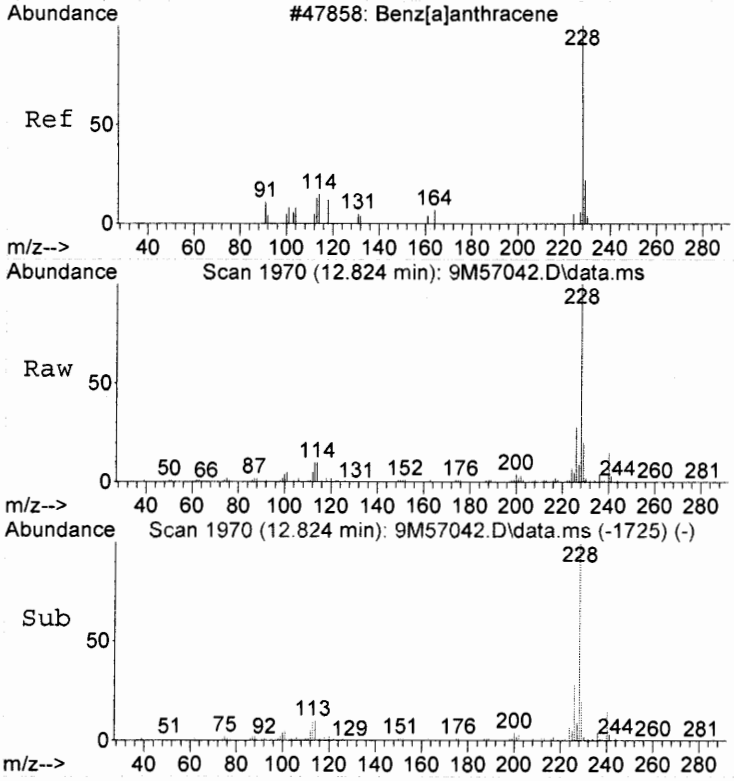


#89
Pyrene
Concen: 92.73 ng
RT: 11.406 min Scan# 1705
Delta R.T. -0.011 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:202 Resp: 763631

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	62.2
100	9.9	0.0	57.8

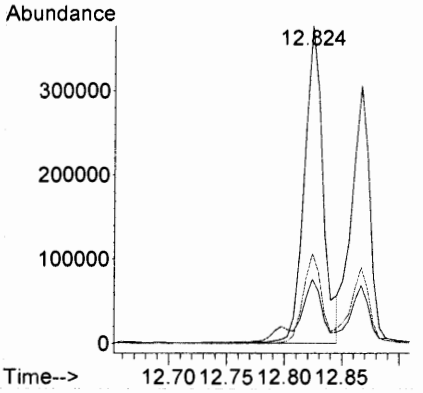


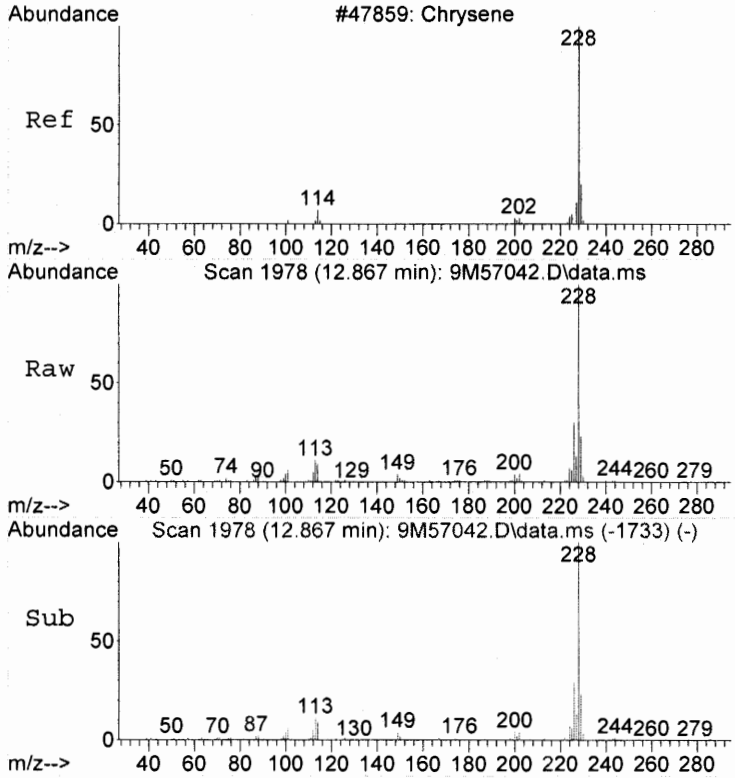


#97
Benzo[a]anthracene
Concen: 52.54 ng
RT: 12.824 min Scan# 1970
Delta R.T. -0.016 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:228 Resp: 430026

Ion	Ratio	Lower	Upper
228	100		
229	20.2	0.0	59.5
226	28.3	0.0	66.0

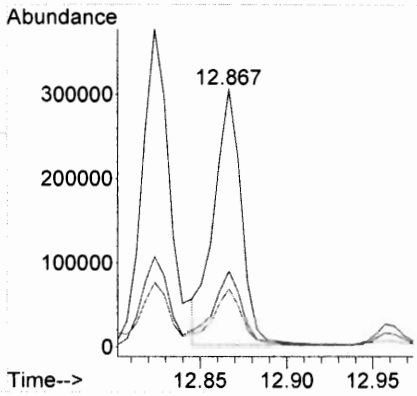


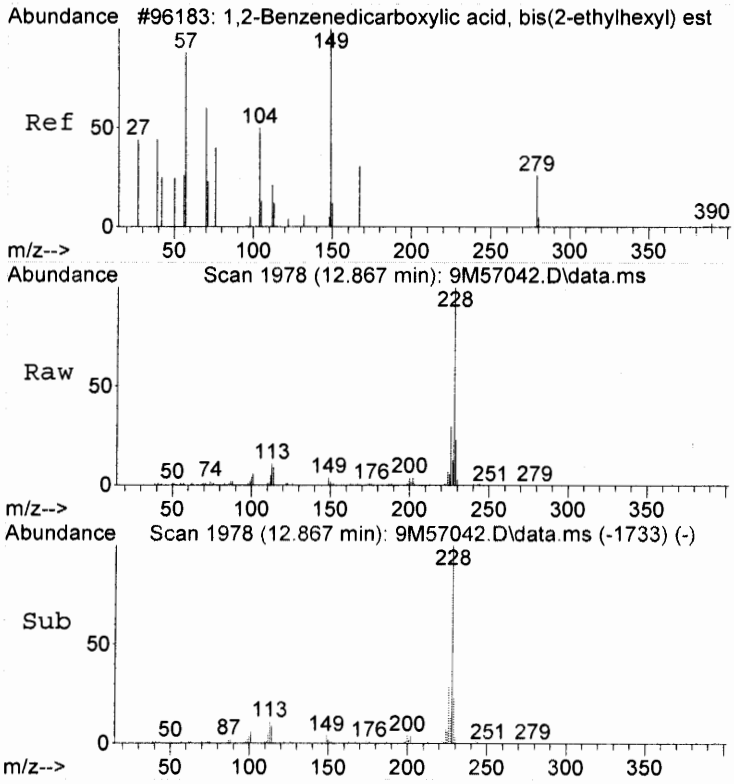


#98
Chrysene
Concen: 45.17 ng
RT: 12.867 min Scan# 1978
Delta R.T. -0.016 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:228 Resp: 342599

Ion	Ratio	Lower	Upper
228	100		
226	29.4	9.5	49.5
229	22.2	0.0	60.2

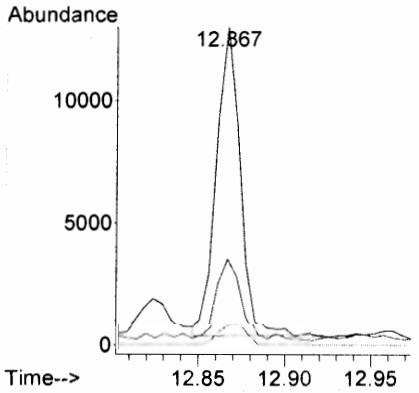


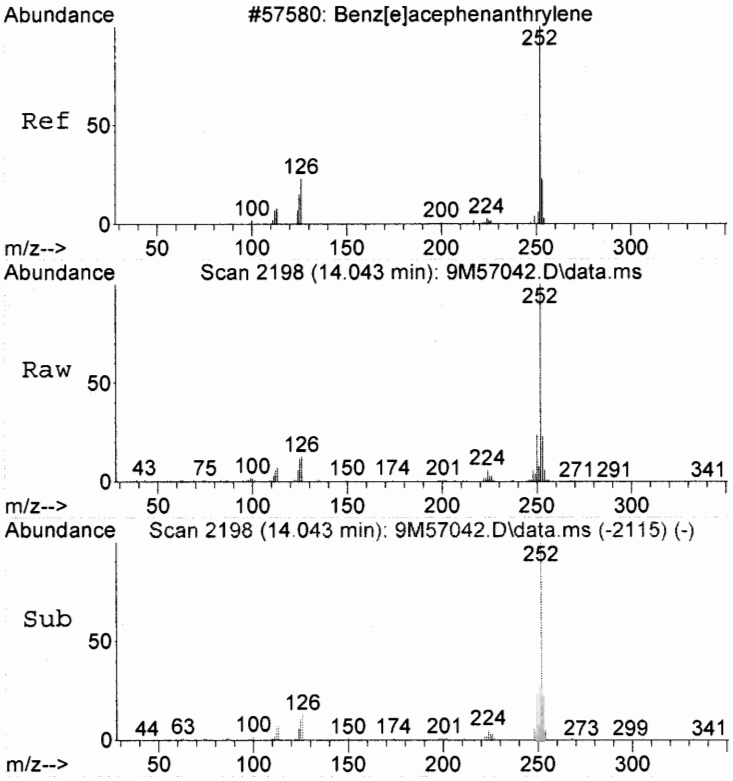


#99
bis(2-Ethylhexyl)phthalate
Concen: 2.29 ng
RT: 12.867 min Scan# 1978
Delta R.T. -0.016 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:149 Resp: 12231

Ion	Ratio	Lower	Upper
149	100		
167	25.9	0.0	54.4
279	6.2	0.0	43.5

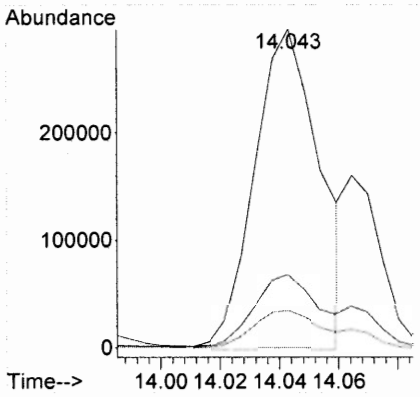


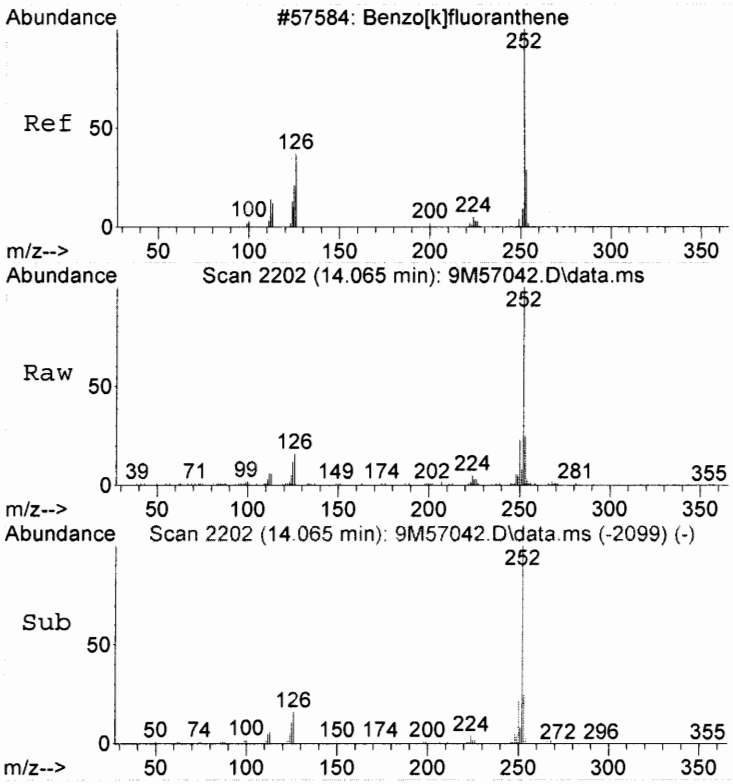


#102
Benzo[b]fluoranthene
Concen: 54.06 ng m
RT: 14.043 min Scan# 2198
Delta R.T. -0.011 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:252 Resp: 449944

Ion	Ratio	Lower	Upper
252	100		
253	23.4	0.0	62.3
125	11.6	0.0	58.4

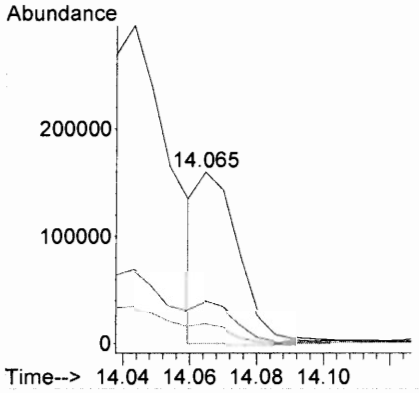


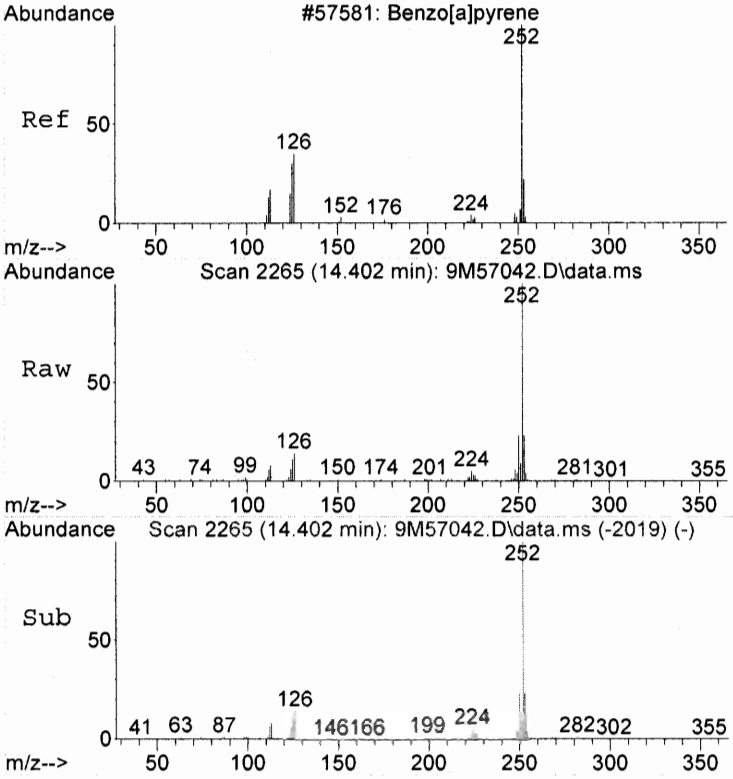


#103
Benzo[k]fluoranthene
Concen: 17.49 ng m
RT: 14.065 min Scan# 2202
Delta R.T. -0.016 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:252 Resp: 139079

Ion	Ratio	Lower	Upper
252	100		
253	24.9	0.0	52.2
125	11.5	0.0	48.9

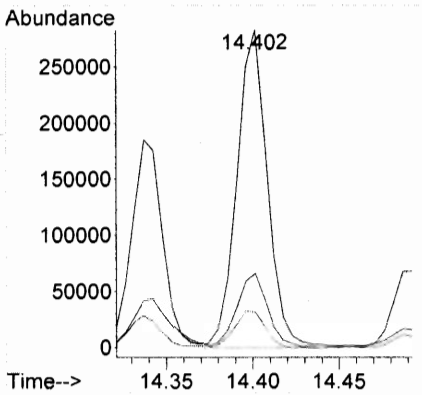


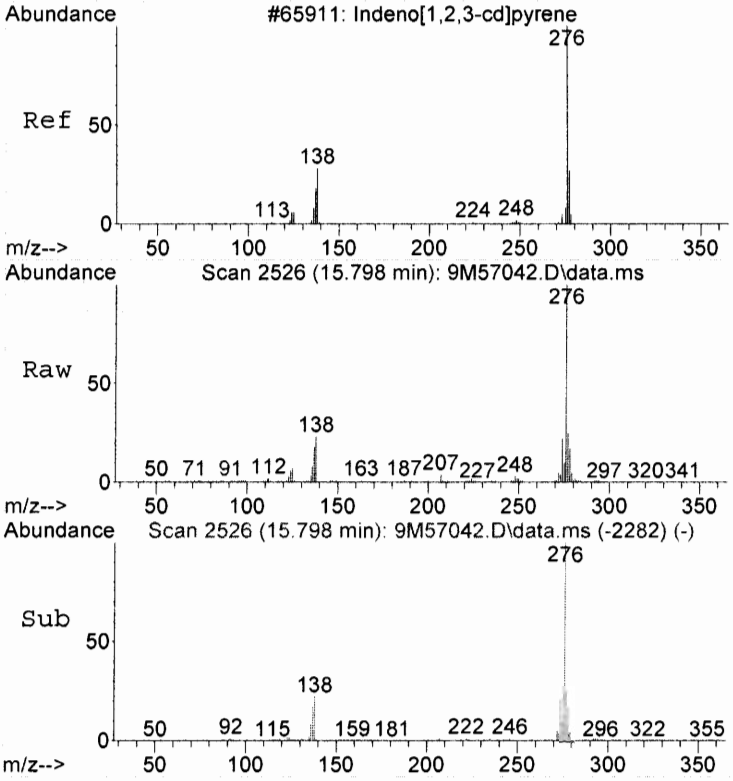


#104
Benzo[a]pyrene
Concen: 44.47 ng
RT: 14.402 min Scan# 2265
Delta R.T. -0.011 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:252 Resp: 345994

Ion	Ratio	Lower	Upper
252	100		
253	23.1	0.0	62.4
125	10.8	0.0	60.9

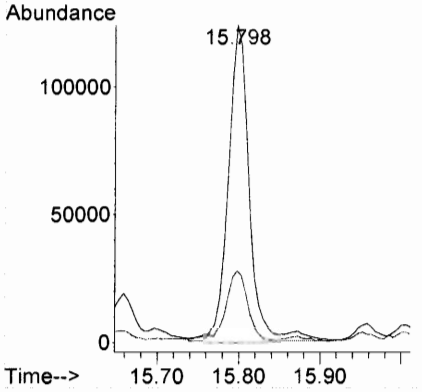


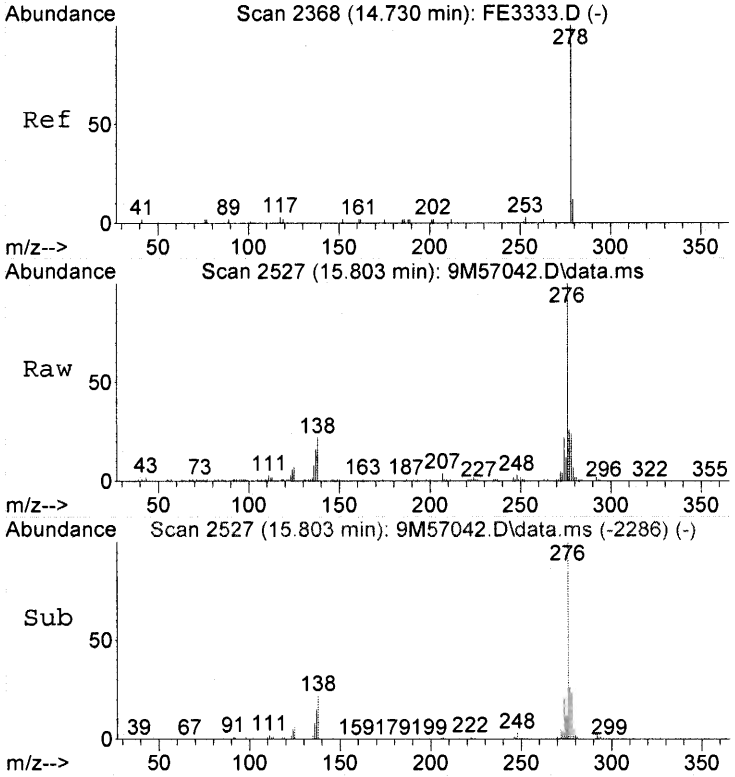


#105
Indeno[1,2,3-cd]pyrene
Concen: 25.37 ng
RT: 15.798 min Scan# 2526
Delta R.T. -0.021 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:276 Resp: 223284

Ion	Ratio	Lower	Upper
276	100		
138	22.0	0.0	78.9

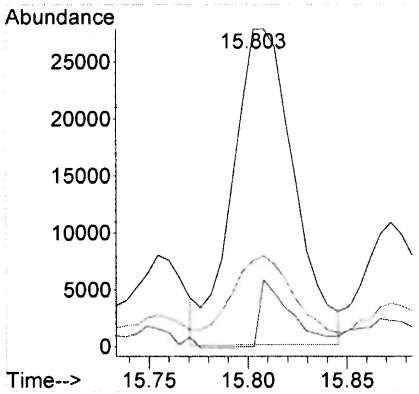


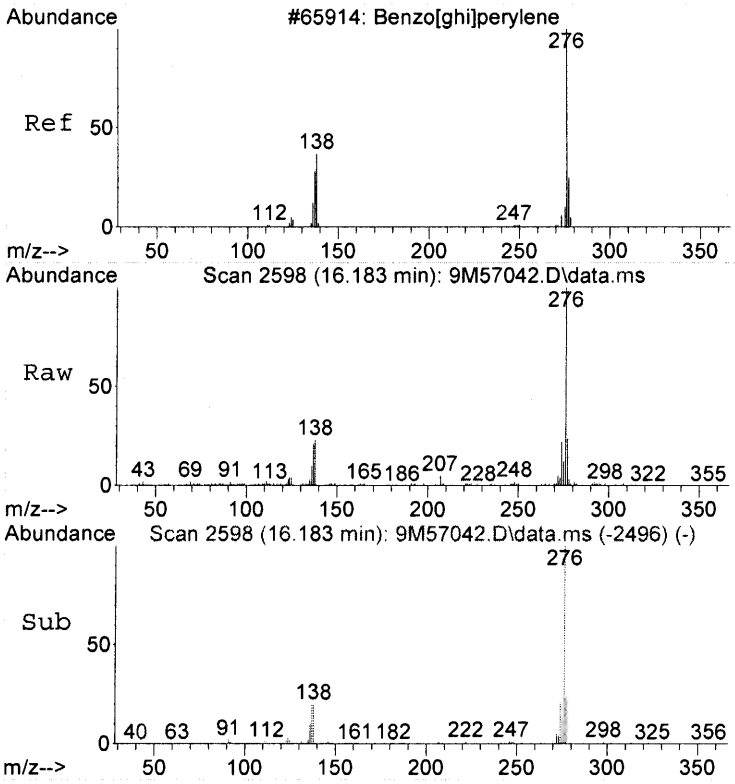


#106
Dibenzo[a,h]anthracene
Concen: 8.08 ng
RT: 15.803 min Scan# 2527
Delta R.T. -0.037 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:278 Resp: 59753

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	72.0
279	25.4	0.0	63.9

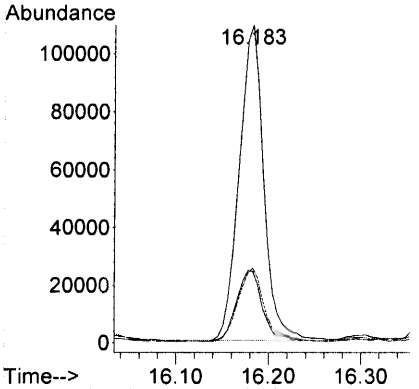




#107
Benzo[g,h,i]perylene
Concen: 27.81 ng
RT: 16.183 min Scan# 2598
Delta R.T. -0.021 min
Lab File: 9M57042.D
Acq: 27 May 2014 18:25

Tgt Ion:276 Resp: 202138

Ion	Ratio	Lower	Upper
276	100		
138	23.8	0.0	100.0
277	24.5	0.0	60.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-015
Client Id: EXT 3(15-17')
Data File: 9M57043.D
Analysis Date: 05/27/14 18:48
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.037	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.037**	**1.5**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.037	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.037**	**0.82**
58-90-2	2,3,4,6-Tetrachlorophenol	0.037	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.037**	**0.58**
95-95-4	2,4,5-Trichlorophenol	0.037	U	111-91-1	bis(2-Chloroethoxy)methan	0.037	U
88-06-2	2,4,6-Trichlorophenol	0.037	U	111-44-4	bis(2-Chloroethyl)ether	0.0094	U
120-83-2	2,4-Dichlorophenol	0.0094	U	108-60-1	bis(2-chloroisopropyl)ether	0.037	U
105-67-9	2,4-Dimethylphenol	0.0094	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.037**	**0.43**
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.037	U
121-14-2	2,4-Dinitrotoluene	0.037	U	105-60-2	Caprolactam	0.037	U
606-20-2	2,6-Dinitrotoluene	0.037	U	**86-74-8**	**Carbazole**	**0.037**	**0.13**
91-58-7	2-Chloronaphthalene	0.037	U	**218-01-9**	**Chrysene**	**0.037**	**1.2**
95-57-8	2-Chlorophenol	0.037	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.037**	**0.21**
91-57-6	**2-Methylnaphthalene**	**0.037**	**0.049**	**132-64-9**	**Dibenzofuran**	**0.0094**	**0.090**
95-48-7	2-Methylphenol	0.0094	U	84-66-2	Diethylphthalate	0.037	U
88-74-4	2-Nitroaniline	0.037	U	131-11-3	Dimethylphthalate	0.037	U
88-75-5	2-Nitrophenol	0.037	U	84-74-2	Di-n-butylphthalate	0.019	U
106-44-5	3&4-Methylphenol	0.0094	U	117-84-0	Di-n-octylphthalate	0.037	U
91-94-1	3,3'-Dichlorobenzidine	0.037	U	**206-44-0**	**Fluoranthene**	**0.037**	**2.8**
99-09-2	3-Nitroaniline	0.037	U	**86-73-7**	**Fluorene**	**0.037**	**0.17**
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.037	U
101-55-3	4-Bromophenyl-phenylether	0.037	U	87-68-3	Hexachlorobutadiene	0.037	U
59-50-7	4-Chloro-3-methylphenol	0.037	U	77-47-4	Hexachlorocyclopentadiene	0.037	U
106-47-8	4-Chloroaniline	0.018	U	67-72-1	Hexachloroethane	0.037	U
7005-72-3	4-Chlorophenyl-phenylether	0.037	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.037**	**0.71**
100-01-6	4-Nitroaniline	0.037	U	78-59-1	Isophorone	0.037	U
100-02-7	4-Nitrophenol	0.037	U	**91-20-3**	**Naphthalene**	**0.0094**	**0.073**
83-32-9	**Acenaphthene**	**0.037**	**0.25**	98-95-3	Nitrobenzene	0.037	U
208-96-8	**Acenaphthylene**	**0.037**	**0.082**	621-64-7	N-Nitroso-di-n-propylamine	0.0094	U
98-86-2	Acetophenone	0.037	U	86-30-6	n-Nitrosodiphenylamine	0.037	U
120-12-7	**Anthracene**	**0.037**	**0.53**	87-86-5	Pentachlorophenol	0.19	U
1912-24-9	Atrazine	0.037	U	**85-01-8**	**Phenanthrene**	**0.037**	**2.7**
100-52-7	Benzaldehyde	0.037	U	108-95-2	Phenol	0.037	U
56-55-3	**Benzo[a]anthracene**	**0.037**	**1.5**	**129-00-0**	**Pyrene**	**0.037**	**3.0**
50-32-8	**Benzo[a]pyrene**	**0.037**	**1.3**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

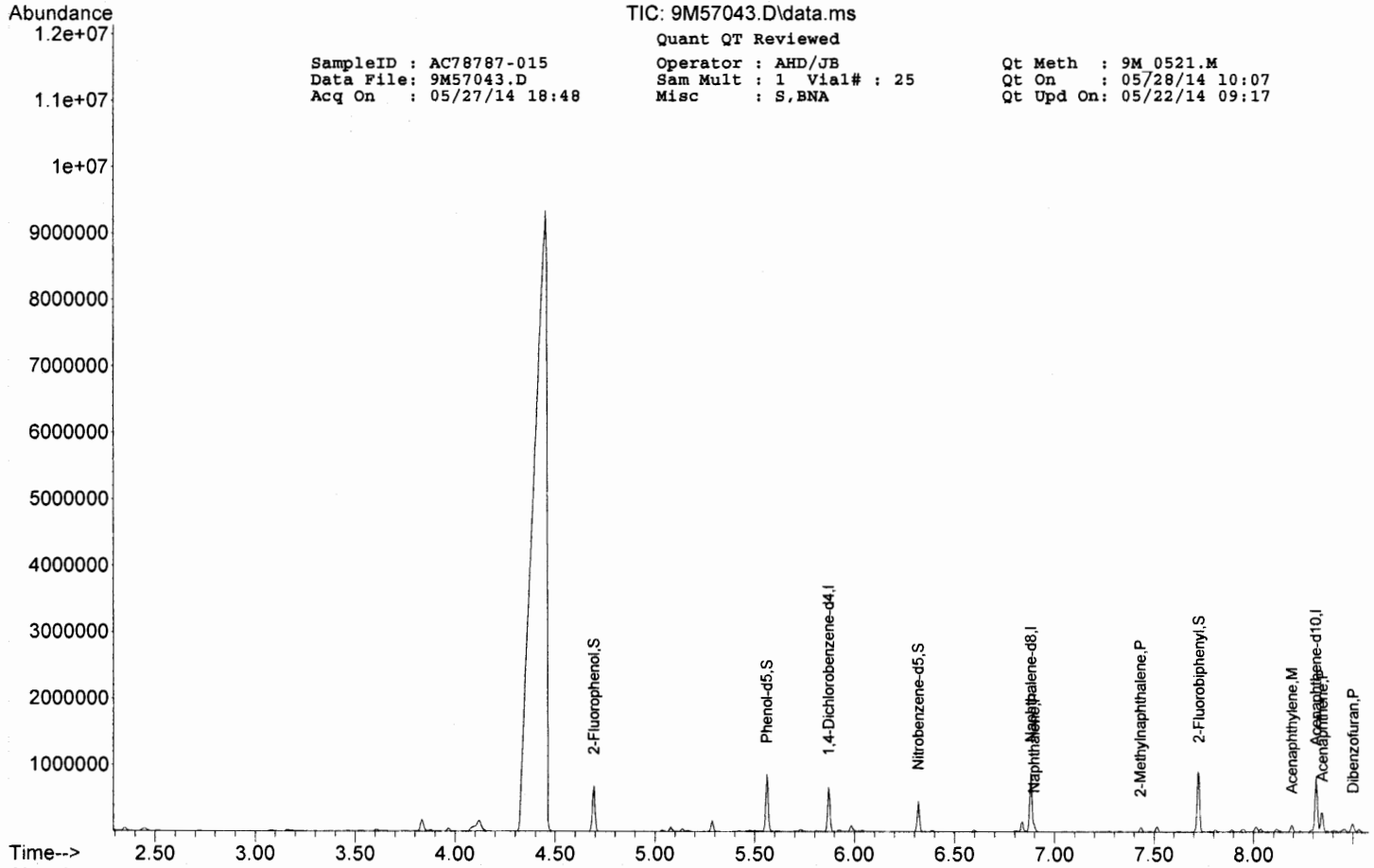
Quantitation Report (QT Reviewed)

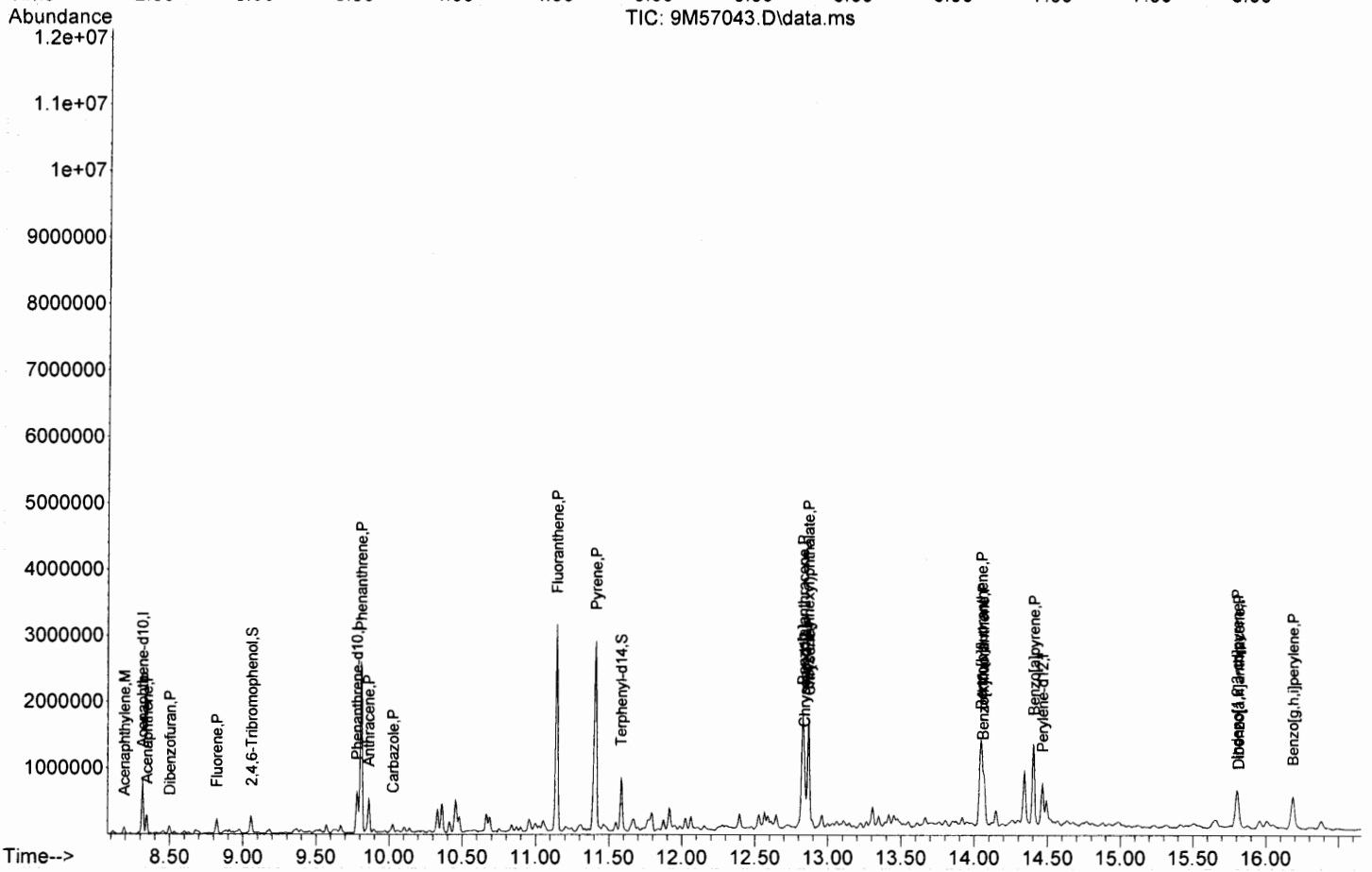
SampleID : AC78787-015 Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57043.D Sam Mult : 1 Vial# : 25 Qt On : 05/28/14 10:07
Acq On : 05/27/14 18:48 Misc : S,BNA Qt Upd On: 05/22/14 09:17

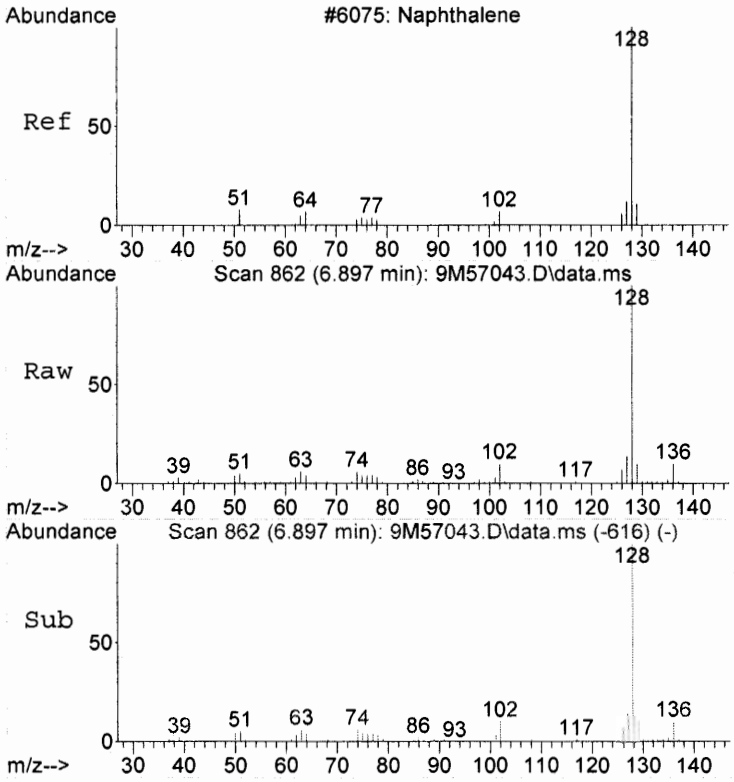
Data Path : G:\GcMsData\2014\GCMS_9\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
7) 1,4-Dichlorobenzene-d4	5.871	152	87586	40.00 ng	-0.01
29) Naphthalene-d8	6.881	136	315948	40.00 ng	-0.01
47) Acenaphthene-d10	8.315	164	165282	40.00 ng	-0.02
74) Phenanthrene-d10	9.780	188	251629	40.00 ng	-0.02
88) Chrysene-d12	12.840	240	274502	40.00 ng	-0.01
100) Perylene-d12	14.466	264	281113	40.00 ng	-0.01
System Monitoring Compounds					
10) 2-Fluorophenol	4.694	112	174345	56.14 ng	0.01
Spiked Amount 100.000			Recovery = 56.14%		
15) Phenol-d5	5.560	99	259586	64.35 ng	0.00
Spiked Amount 100.000			Recovery = 64.35%		
30) Nitrobenzene-d5	6.320	128	57567	38.37 ng	-0.01
Spiked Amount 50.000			Recovery = 76.74%		
52) 2-Fluorobiphenyl	7.727	172	263924	42.77 ng	-0.01
Spiked Amount 50.000			Recovery = 85.54%		
77) 2,4,6-Tribromophenol	9.058	330	22528	25.18 ng	-0.02
Spiked Amount 100.000			Recovery = 25.18%		
91) Terphenyl-d14	11.583	244	226031	36.87 ng	-0.02
Spiked Amount 50.000			Recovery = 73.74%		
Target Compounds					Qvalue
39) Naphthalene	6.897	128	36523	3.9038 ng	96
44) 2-Methylnaphthalene	7.432	142	17109	2.6222 ng	96
59) Acenaphthylene	8.192	152	36059	4.3599 ng	97
62) Acenaphthene	8.347	153	75269	13.3278 ng	95
65) Dibenzofuran	8.502	168	36755	4.8038 ng	90
69) Fluorene	8.823	166	58778	8.8732 ng	94
83) Phenanthrene	9.807	178	1059981	141.9625 ng	99
84) Anthracene	9.861	178	214180	28.2819 ng	99
85) Carbazole	10.026	167	51507	7.0380 ng	95
87) Fluoranthene	11.144	202	1343357	148.1799 ng	83
89) Pyrene	11.412	202	1371480	160.2373 ng	78
97) Benzo[a]anthracene	12.829	228	683445	80.3377 ng	98
98) Chrysene	12.872	228	515641	65.4037 ng	98
99) bis(2-Ethylhexyl)phtha...	12.867	149	128365	23.1254 ng	96
102) Benzo[b]fluoranthene	14.049	252	741801m	80.9088 ng	
103) Benzo[k]fluoranthene	14.059	252	270691m	30.9045 ng	
104) Benzo[a]pyrene	14.407	252	577507	67.3781 ng	89
105) Indeno[1,2,3-cd]pyrene	15.803	276	366836	37.8349 ng	73
106) Dibenzo[a,h]anthracene	15.814	278	90702	11.1400 ng	89
107) Benzo[g,h,i]perylene	16.188	276	349245	43.6168 ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M57043.D\data.ms
Quant QT Reviewed
SampleID : AC78787-015
Data File: 9M57043.D
Acq On : 05/27/14 18:48
Operator : AHD/JB
Sam Mult : 1 Vial# : 25
Misc : S,BNA
Qt Meth : 9M 0521.M
Qt On : 05/28/14 10:07
Qt Upd On: 05/22/14 09:17
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
2-Methylnaphthalene,P
2-Fluorobiphenyl,S
Acenaphthylene,M
Dibenzofuran,P
Time-->

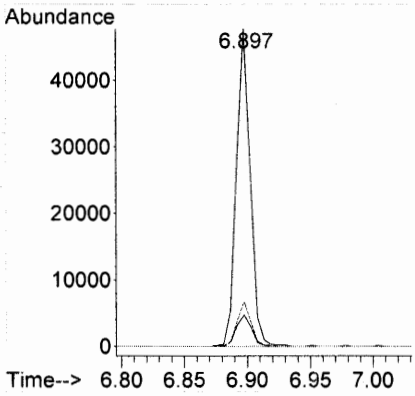

Abundance
TIC: 9M57043.D\data.ms
Acenaphthylene,M
Dibenzofuran,P
Fluorene,P
2,4,6-Tribromophenol,S
Phenanthrene,P
Anthracene,P
Carbazole,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Perylene,P
Benzo[g,h,i]perylene,P
Time-->

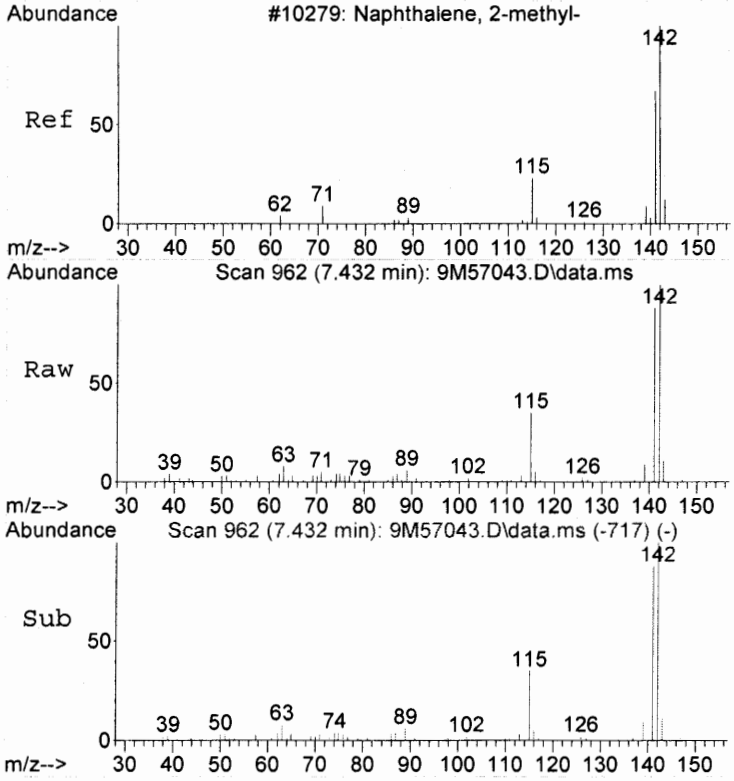


#39
Naphthalene
Concen: 3.90 ng
RT: 6.897 min Scan# 862
Delta R.T. -0.011 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:128 Resp: 36523

Ion	Ratio	Lower	Upper
128	100		
129	9.9	0.0	50.9
127	14.2	0.0	52.4

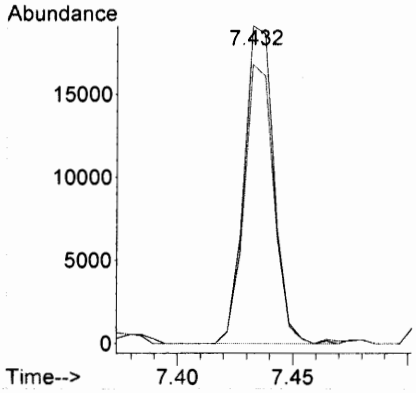


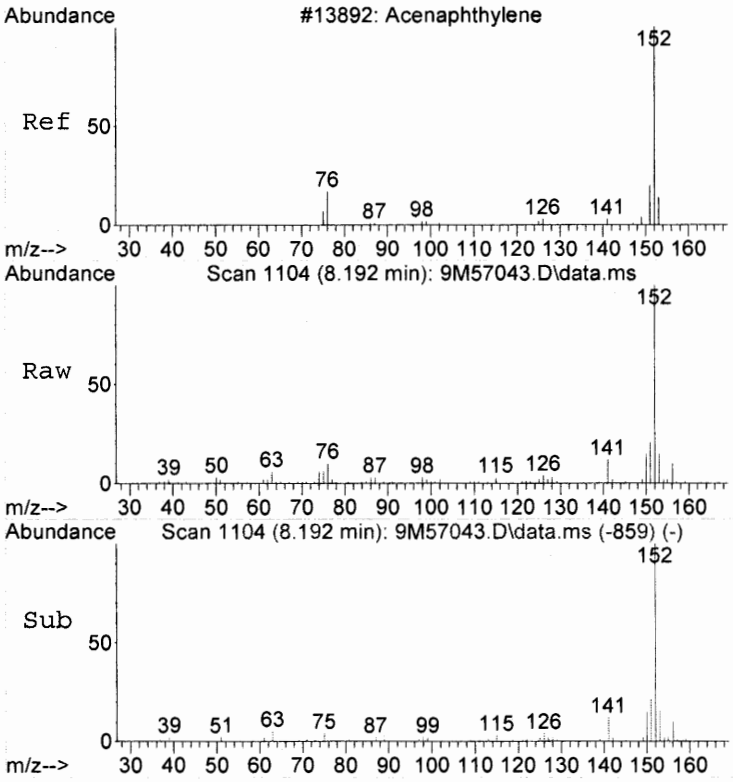


#44
2-Methylnaphthalene
Concen: 2.62 ng
RT: 7.432 min Scan# 962
Delta R.T. -0.016 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:142 Resp: 17109

Ion	Ratio	Lower	Upper
142	100		
141	87.8	44.6	124.6

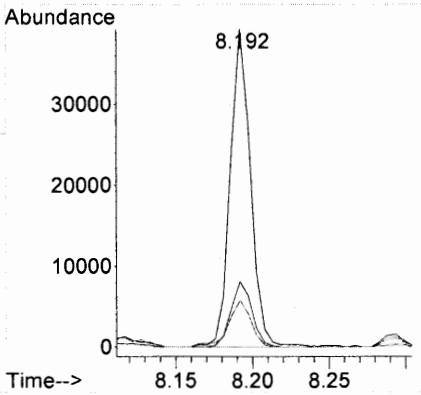


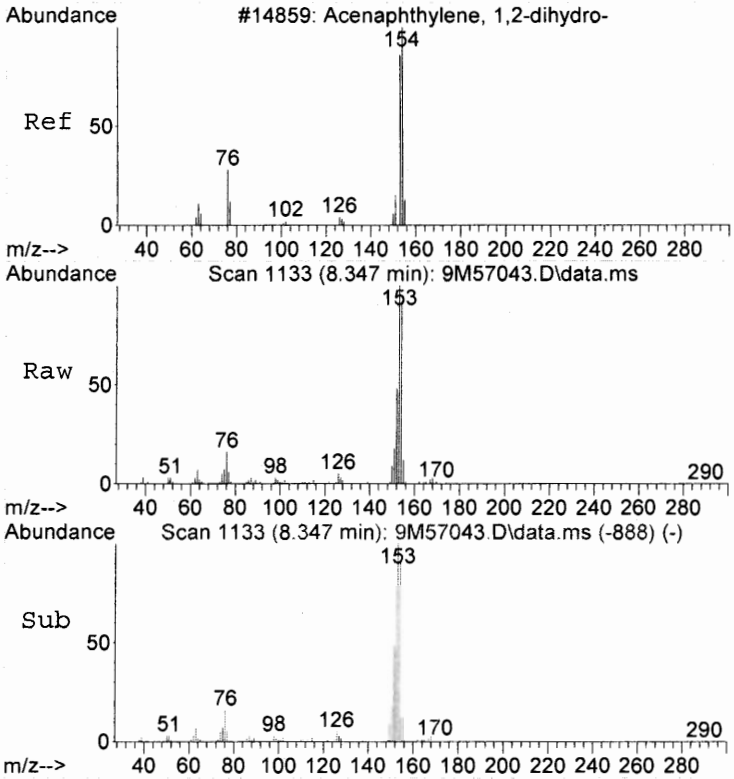


#59
Acenaphthylene
Concen: 4.36 ng
RT: 8.192 min Scan# 1104
Delta R.T. -0.016 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:152 Resp: 36059

Ion	Ratio	Lower	Upper
152	100		
151	20.6	0.0	59.2
153	14.7	0.0	53.2

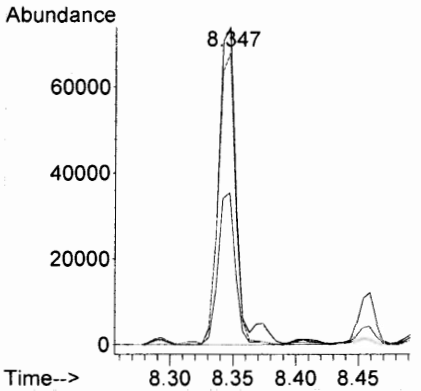


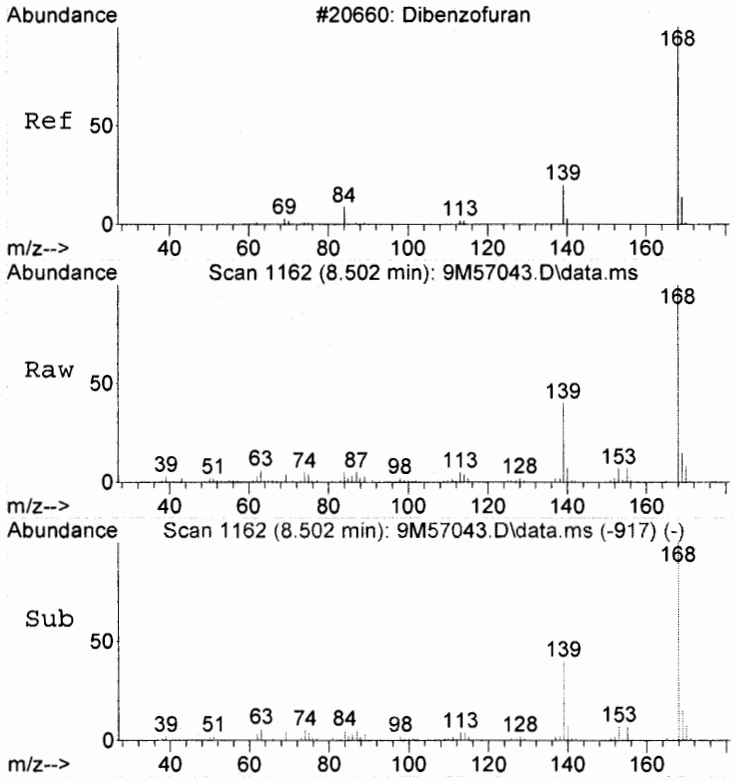


#62
Acenaphthene
Concen: 13.33 ng
RT: 8.347 min Scan# 1133
Delta R.T. -0.016 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:153 Resp: 75269

Ion	Ratio	Lower	Upper
153	100		
152	48.0	10.0	90.0
154	91.6	57.5	137.5

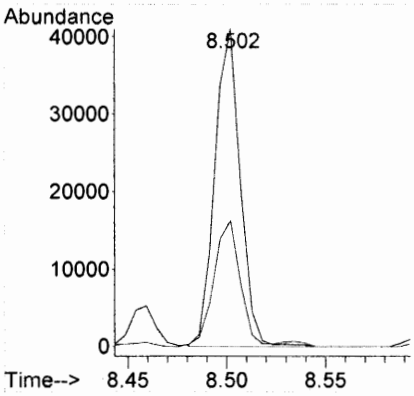


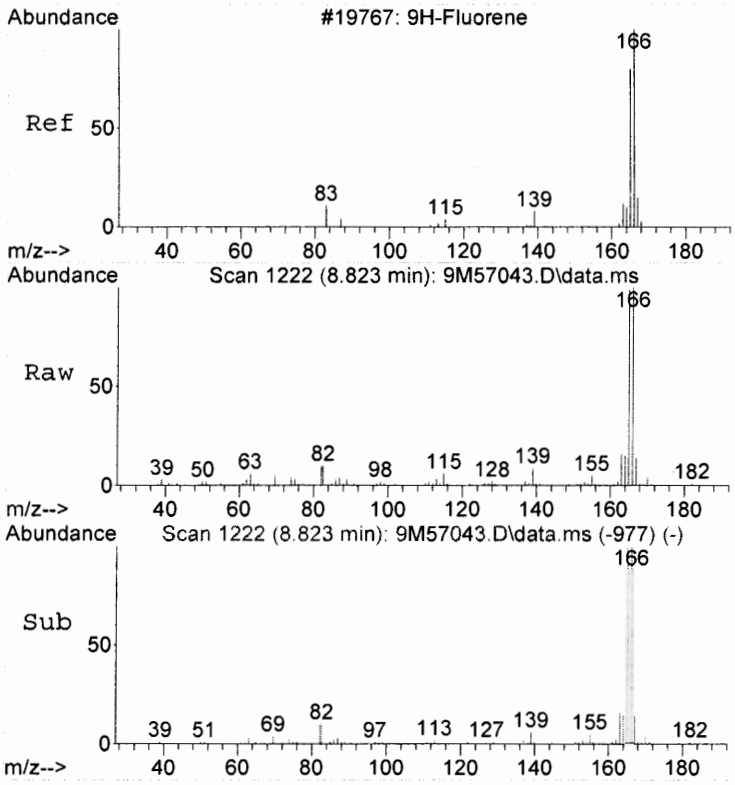


#65
Dibenzofuran
Concen: 4.80 ng
RT: 8.502 min Scan# 1162
Delta R.T. -0.016 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:168 Resp: 36755

Ion	Ratio	Lower	Upper
168	100		
139	39.7	0.0	246.0

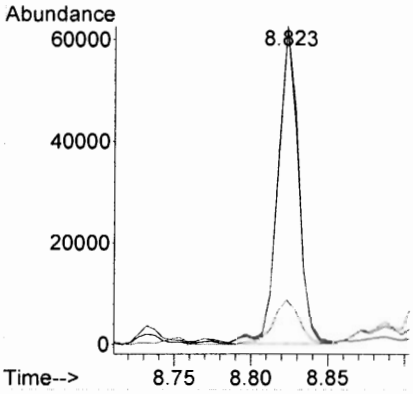


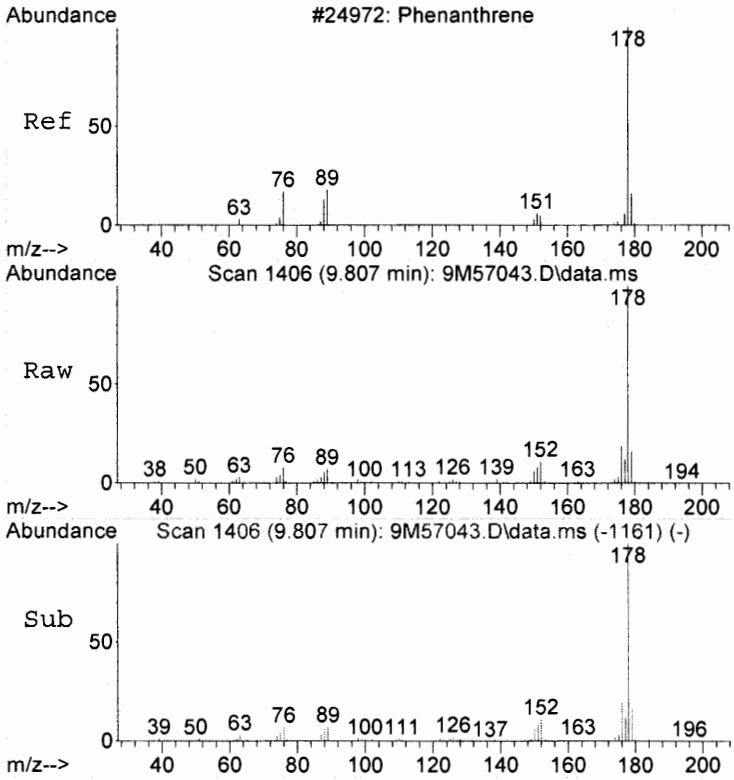


#69
Fluorene
Concen: 8.87 ng
RT: 8.823 min Scan# 1222
Delta R.T. -0.016 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:166 Resp: 58778

Ion	Ratio	Lower	Upper
166	100		
165	98.9	0.0	292.6
167	13.4	0.0	213.2

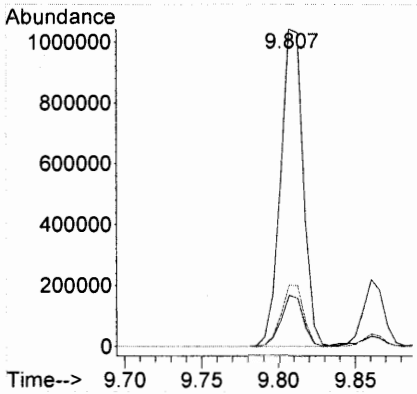


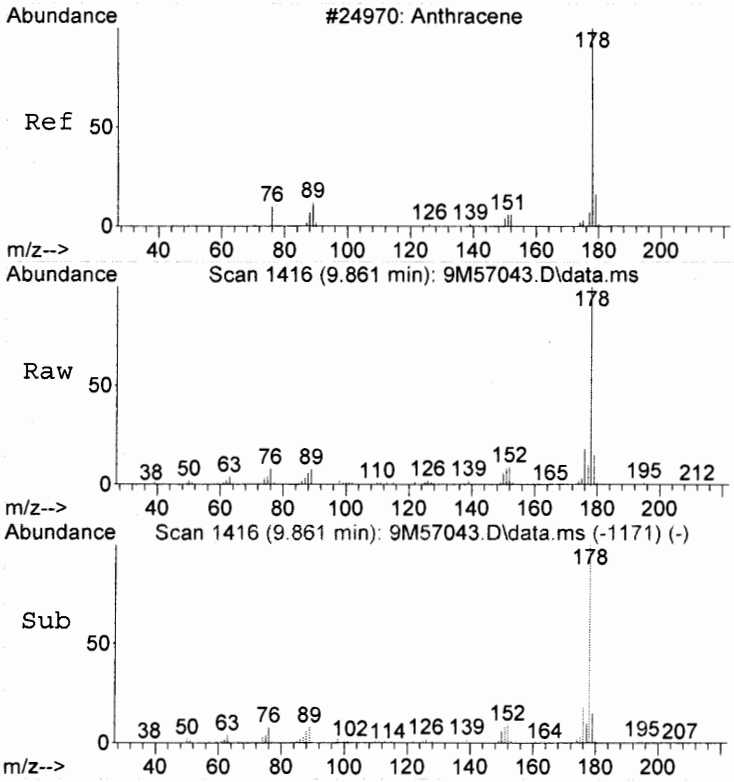


#83
Phenanthrene
Concen: 141.96 ng
RT: 9.807 min Scan# 1406
Delta R.T. -0.016 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:178 Resp: 1059981

Ion	Ratio	Lower	Upper
178	100		
179	16.0	0.0	55.5
176	19.4	0.0	59.3

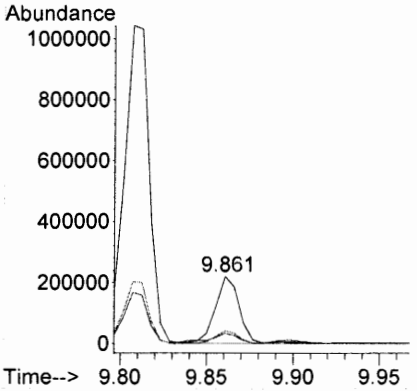


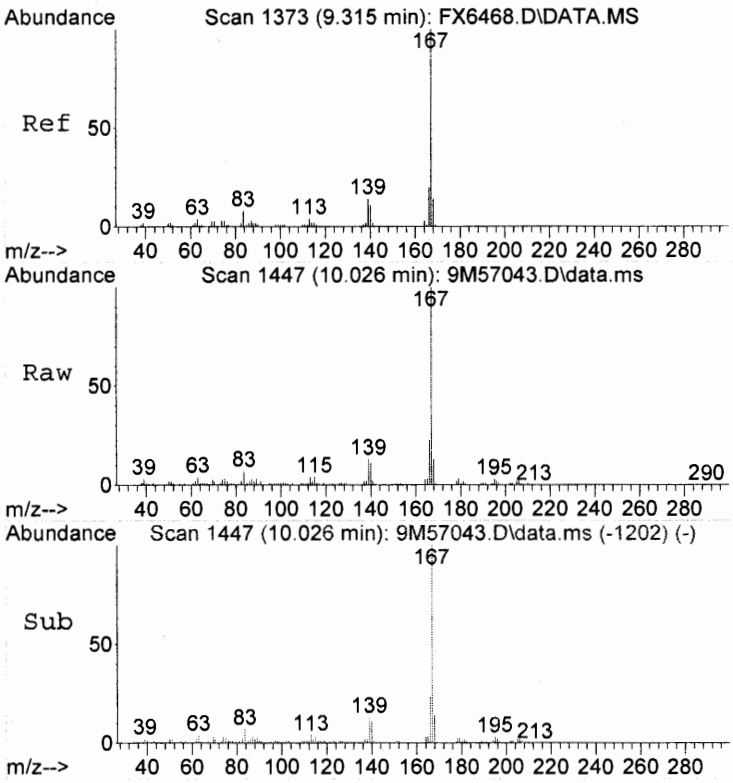


#84
Anthracene
Concen: 28.28 ng
RT: 9.861 min Scan# 1416
Delta R.T. -0.016 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:178 Resp: 214180

Ion	Ratio	Lower	Upper
178	100		
179	14.6	0.0	55.2
176	18.5	0.0	58.1

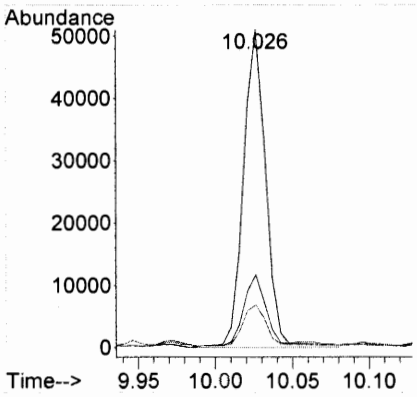


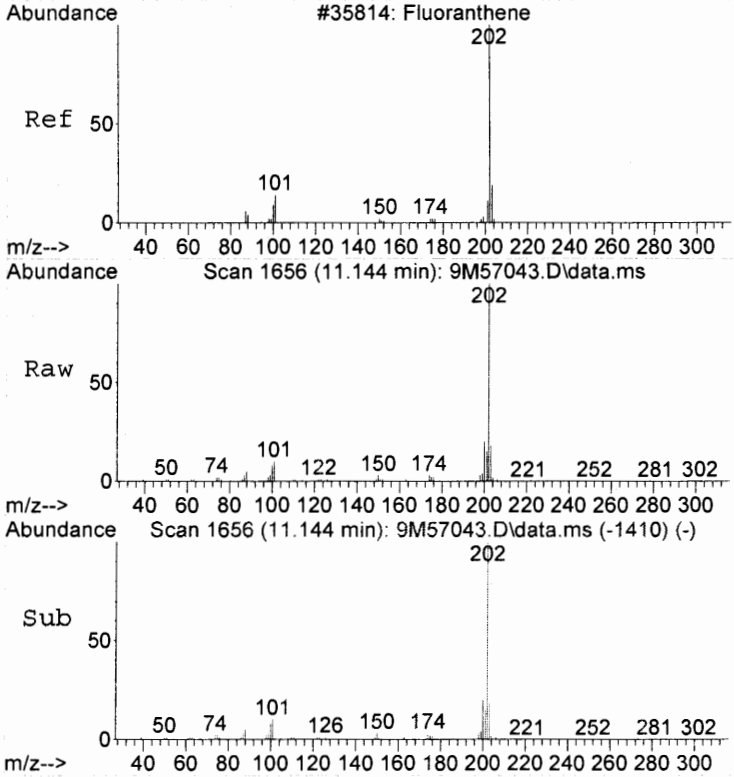


#85
Carbazole
Concen: 7.04 ng
RT: 10.026 min Scan# 1447
Delta R.T. -0.016 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:167 Resp: 51507

Ion	Ratio	Lower	Upper
167	100		
166	22.3	0.2	40.2
139	12.8	0.0	35.0

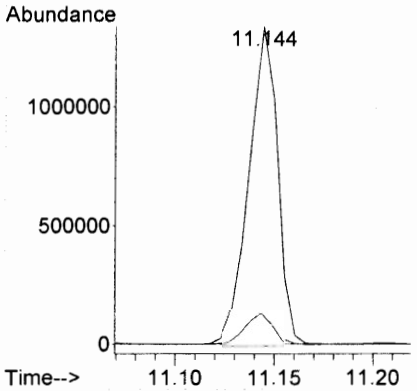


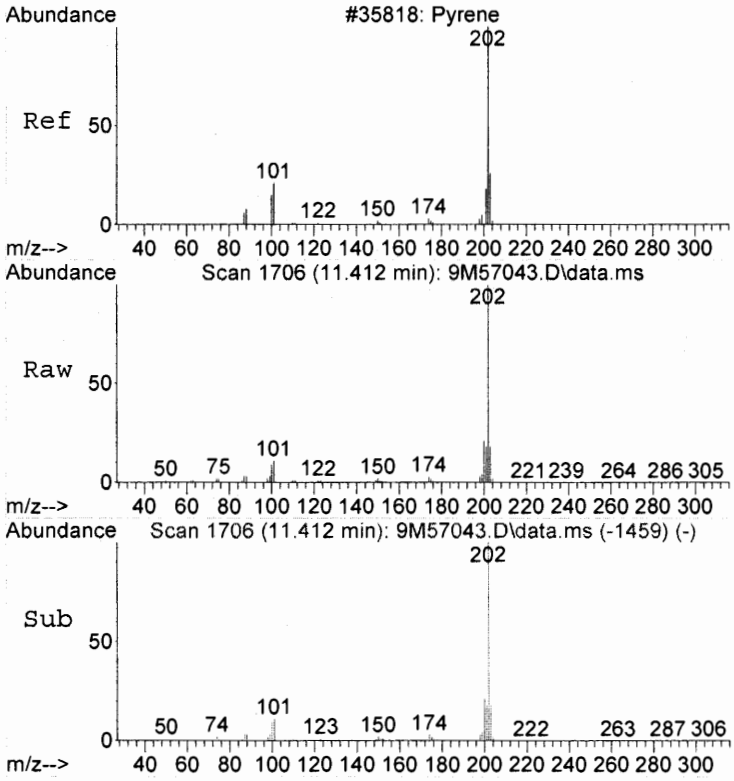


#87
Fluoranthene
Concen: 148.18 ng
RT: 11.144 min Scan# 1656
Delta R.T. -0.011 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:202 Resp: 1343357

Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	57.6

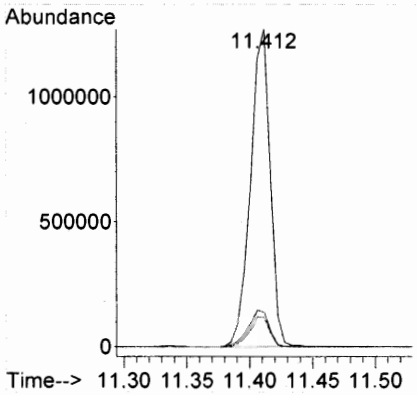


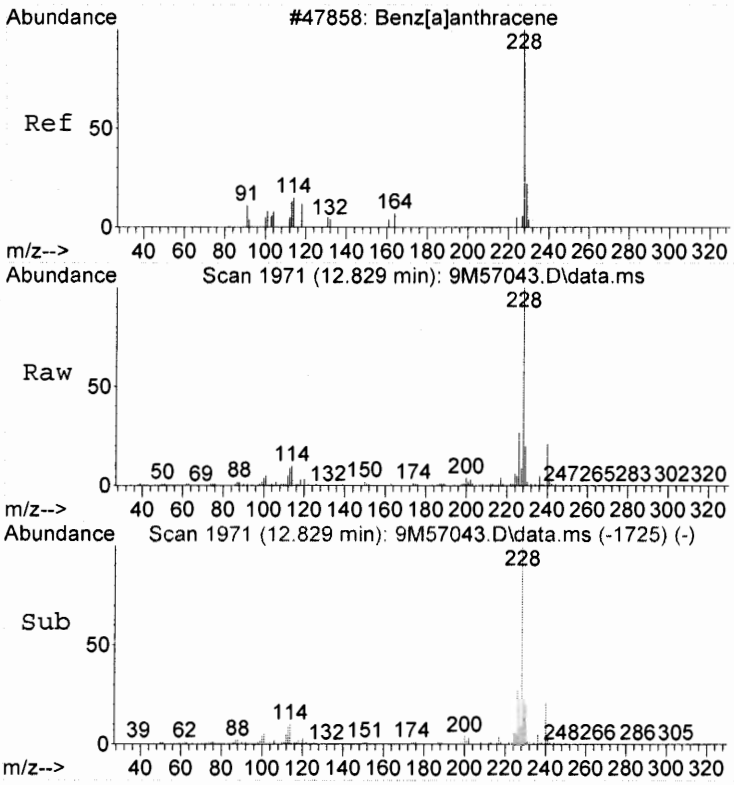


#89
Pyrene
Concen: 160.24 ng
RT: 11.412 min Scan# 1706
Delta R.T. -0.005 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:202 Resp: 1371480

Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	62.2
100	9.2	0.0	57.8

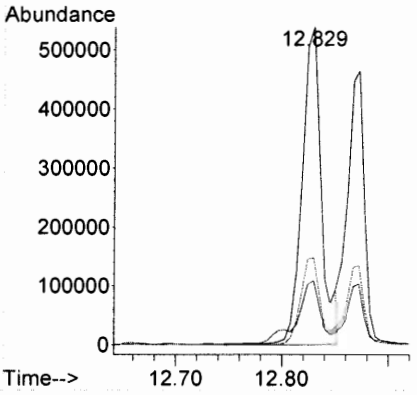


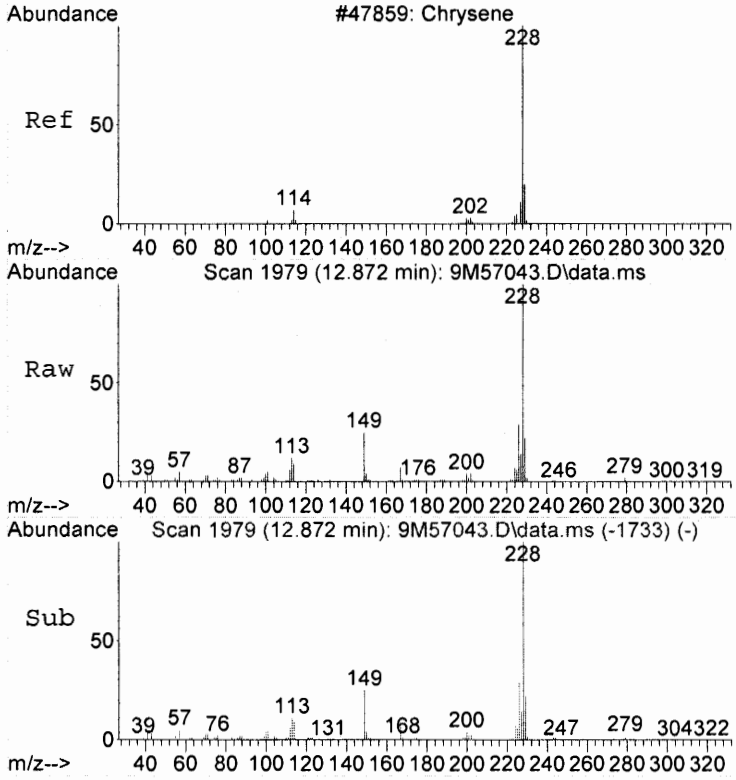


#97
Benzo[a]anthracene
Concen: 80.34 ng
RT: 12.829 min Scan# 1971
Delta R.T. -0.011 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:228 Resp: 683445

Ion	Ratio	Lower	Upper
228	100		
229	20.1	0.0	59.5
226	27.4	0.0	66.0

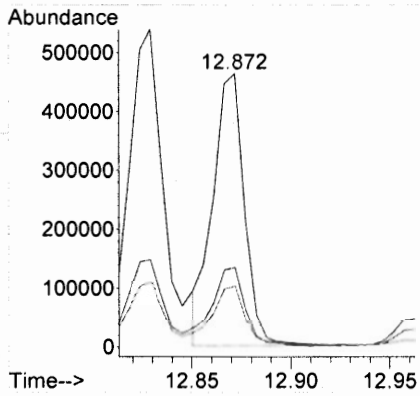


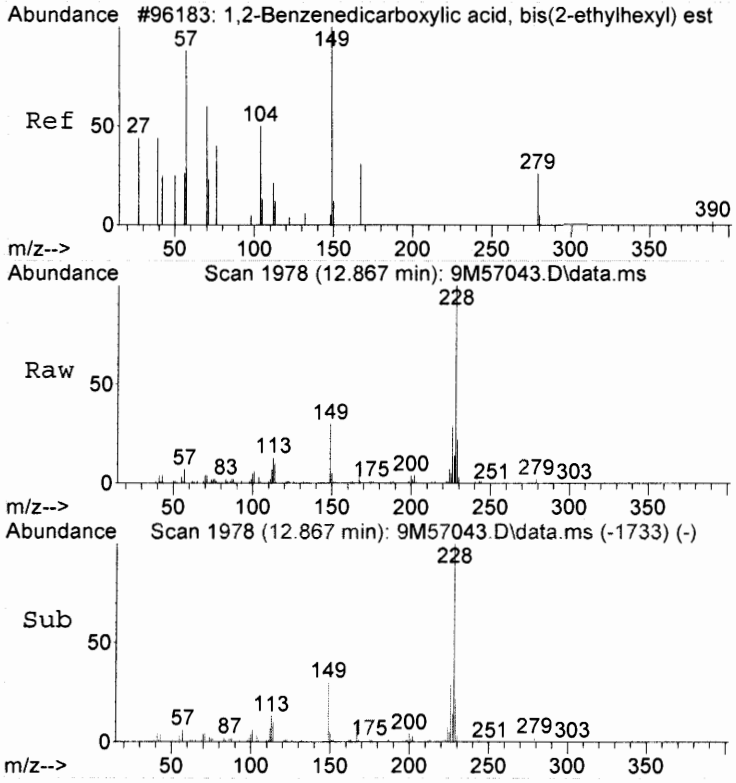


#98
Chrysene
Concen: 65.40 ng
RT: 12.872 min Scan# 1979
Delta R.T. -0.011 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:228 Resp: 515641

Ion	Ratio	Lower	Upper
228	100		
226	28.9	9.5	49.5
229	22.1	0.0	60.2

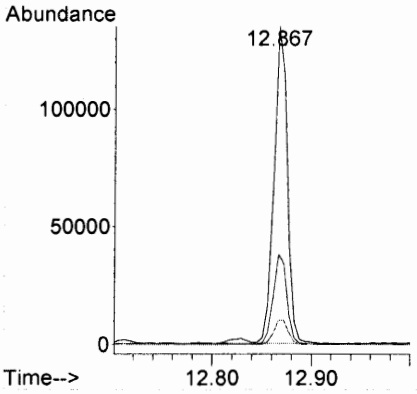


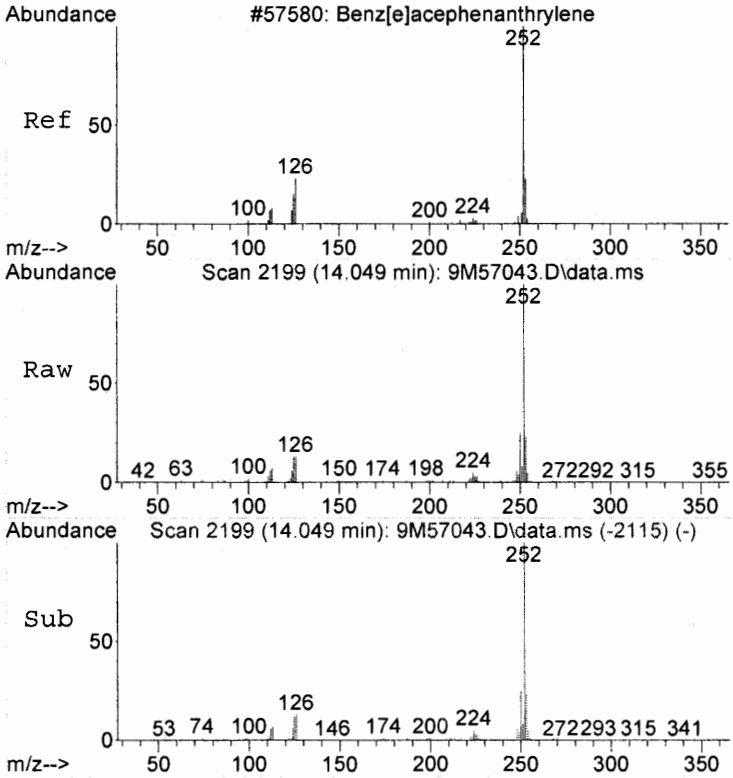


#99
bis(2-Ethylhexyl)phthalate
Concen: 23.13 ng
RT: 12.867 min Scan# 1978
Delta R.T. -0.016 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:149 Resp: 128365

Ion	Ratio	Lower	Upper
149	100		
167	28.1	0.0	54.4
279	7.6	0.0	43.5

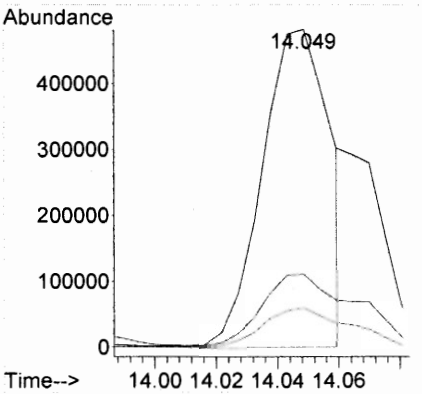


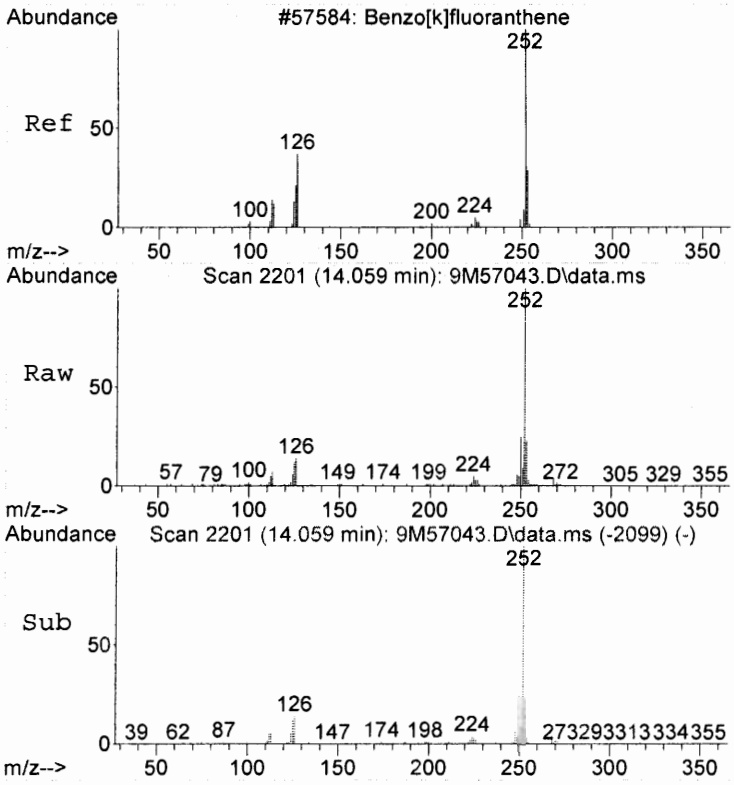


#102
Benzo[b]fluoranthene
Concen: 80.91 ng m
RT: 14.049 min Scan# 2199
Delta R.T. -0.005 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:252 Resp: 741801

Ion	Ratio	Lower	Upper
252	100		
253	23.0	0.0	62.3
125	12.5	0.0	58.4

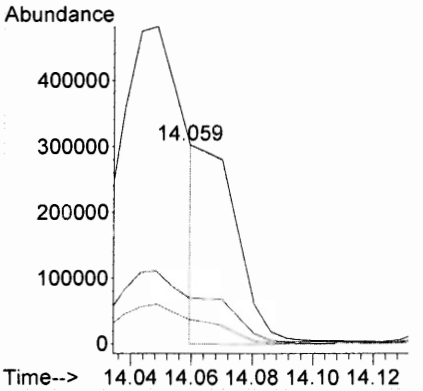


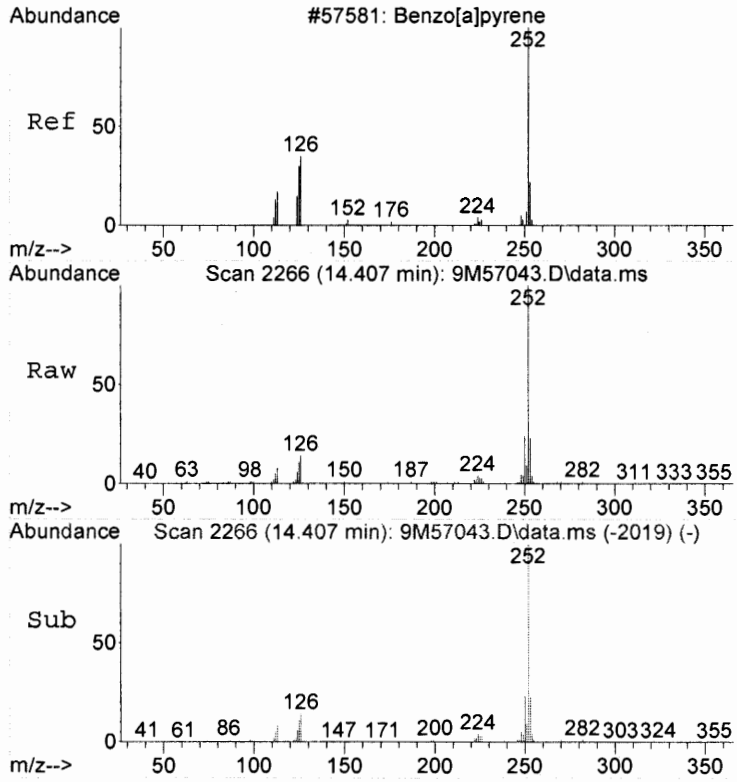


#103
Benzo[k]fluoranthene
Concen: 30.90 ng m
RT: 14.059 min Scan# 2201
Delta R.T. -0.021 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:252 Resp: 270691

Ion	Ratio	Lower	Upper
252	100		
253	23.5	0.0	52.2
125	12.3	0.0	48.9

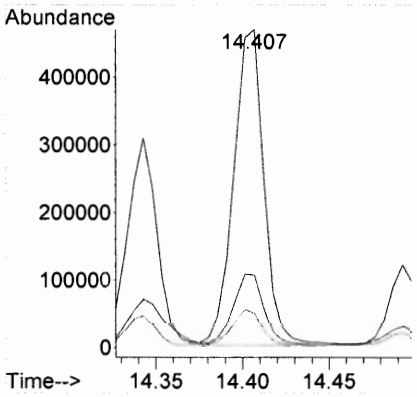


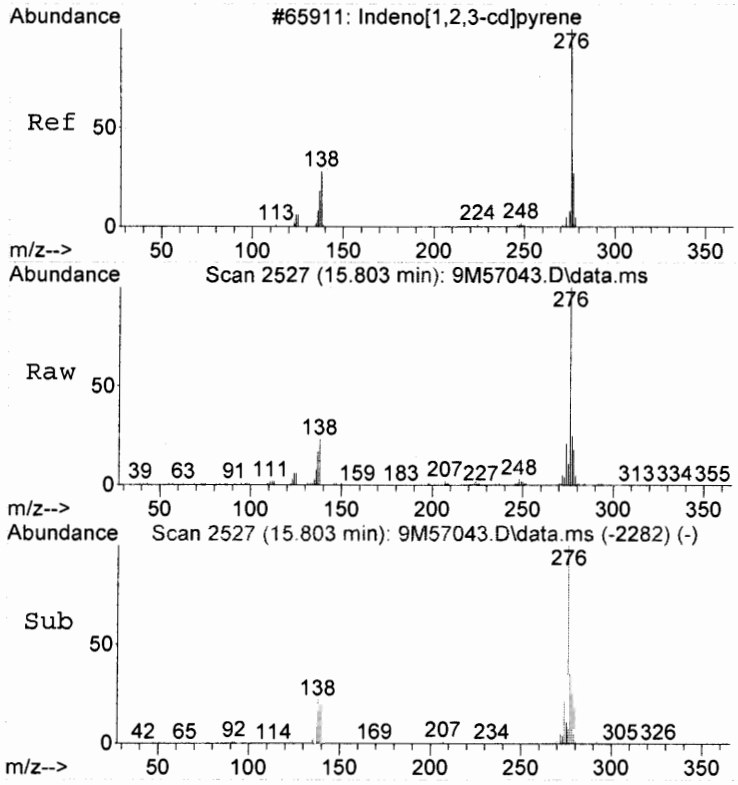


#104
Benzo[a]pyrene
Concen: 67.38 ng
RT: 14.407 min Scan# 2266
Delta R.T. -0.005 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:252 Resp: 577507

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	62.4
125	10.5	0.0	60.9

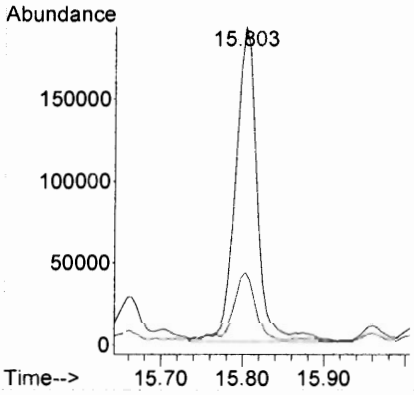


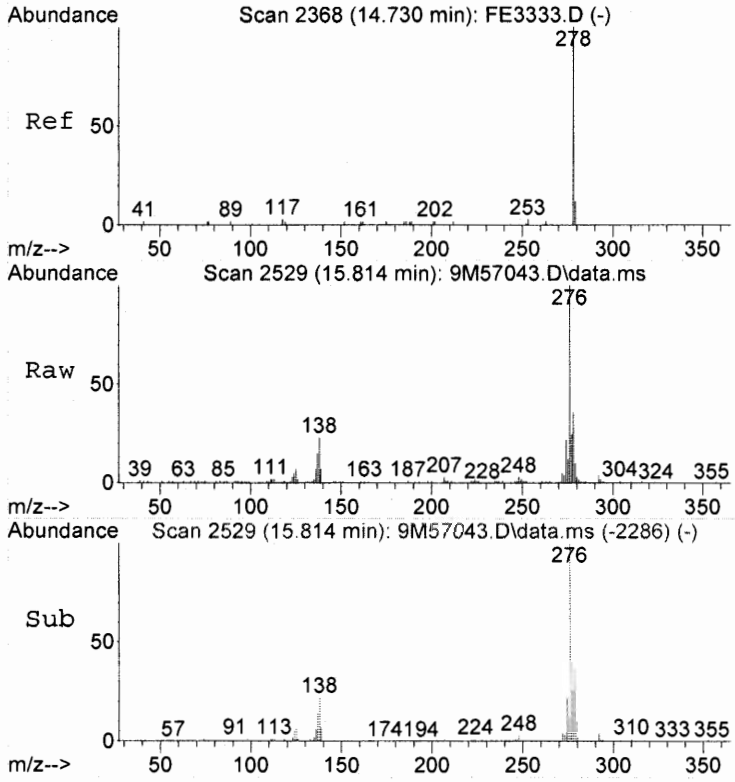


#105
Indeno[1,2,3-cd]pyrene
Concen: 37.83 ng
RT: 15.803 min Scan# 2527
Delta R.T. -0.016 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:276 Resp: 366836

Ion	Ratio	Lower	Upper
276	100		
138	22.3	0.0	78.9

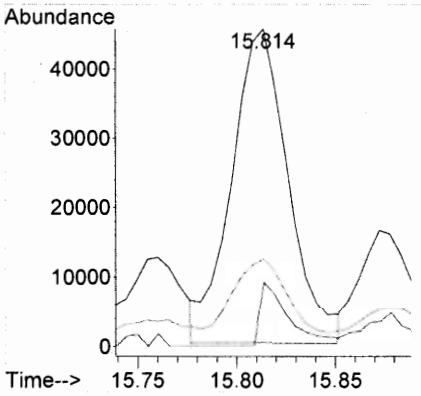


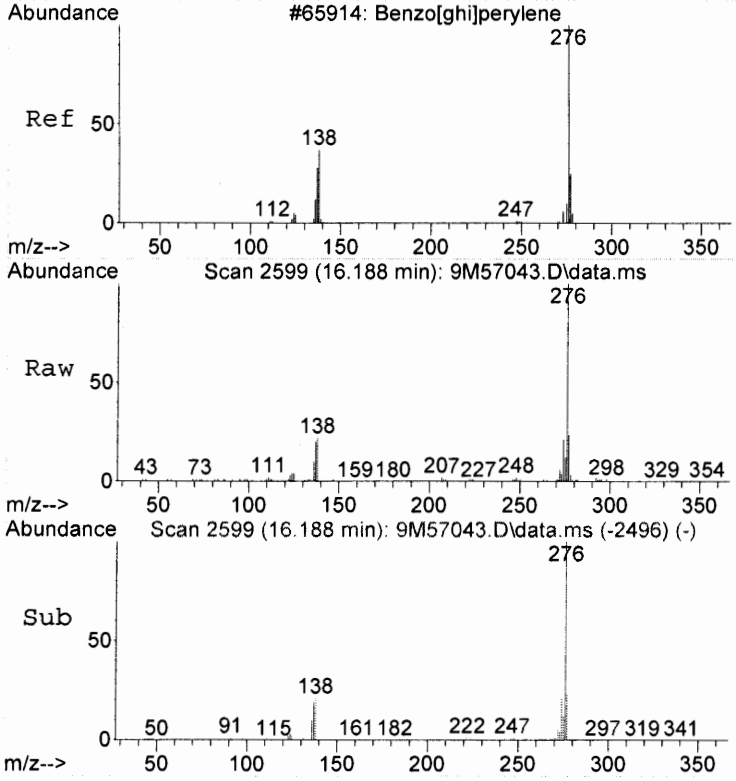


#106
Dibenzo[a,h]anthracene
Concen: 11.14 ng
RT: 15.814 min Scan# 2529
Delta R.T. -0.027 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:278 Resp: 90702

Ion	Ratio	Lower	Upper
278	100		
139	22.3	0.0	72.0
279	25.5	0.0	63.9

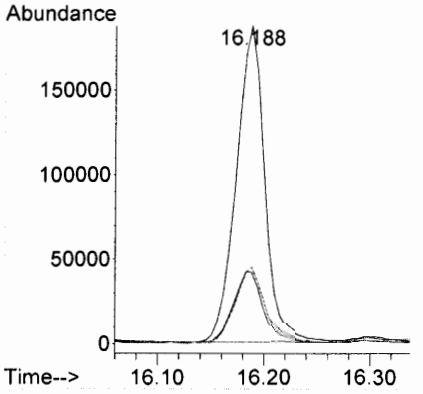




#107
Benzo[g,h,i]perylene
Concen: 43.62 ng
RT: 16.188 min Scan# 2599
Delta R.T. -0.016 min
Lab File: 9M57043.D
Acq: 27 May 2014 18:48

Tgt Ion:276 Resp: 349245

Ion	Ratio	Lower	Upper
276	100		
138	23.9	0.0	100.0
277	24.7	0.0	60.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-016(3X)
Client Id: EXT 3 U
Data File: 10M44255.D
Analysis Date: 05/23/14 14:55
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 810ml
Final Vol: 0.5ml
Dilution: 3
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	**1,1'-Biphenyl**	**3.7**	**32**	205-99-2	Benzo[b]fluoranthene	3.7	U
95-94-3	1,2,4,5-Tetrachlorobenzene	3.7	U	191-24-2	Benzo[g,h,i]perylene	3.7	U
58-90-2	2,3,4,6-Tetrachlorophenol	3.7	U	207-08-9	Benzo[k]fluoranthene	3.7	U
95-95-4	2,4,5-Trichlorophenol	3.7	U	111-91-1	bis(2-Chloroethoxy)methan	3.7	U
88-06-2	2,4,6-Trichlorophenol	3.7	U	111-44-4	bis(2-Chloroethyl)ether	0.93	U
120-83-2	2,4-Dichlorophenol	3.7	U	108-60-1	bis(2-chloroisopropyl)ether	3.7	U
105-67-9	2,4-Dimethylphenol	0.93	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**3.7**	**7.1**
51-28-5	2,4-Dinitrophenol	19	U	85-68-7	Butylbenzylphthalate	3.7	U
121-14-2	2,4-Dinitrotoluene	3.7	U	105-60-2	Caprolactam	3.7	U
606-20-2	2,6-Dinitrotoluene	3.7	U	86-74-8	Carbazole	3.7	U
91-58-7	2-Chloronaphthalene	3.7	U	**218-01-9**	**Chrysene**	**3.7**	**4.7**
95-57-8	2-Chlorophenol	3.7	U	53-70-3	Dibenzo[a,h]anthracene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U	**132-64-9**	**Dibenzofuran**	**0.93**	**13**
95-48-7	2-Methylphenol	0.93	U	84-66-2	Diethylphthalate	3.7	U
88-74-4	2-Nitroaniline	3.7	U	131-11-3	Dimethylphthalate	3.7	U
88-75-5	2-Nitrophenol	3.7	U	84-74-2	Di-n-butylphthalate	0.93	U
106-44-5	3&4-Methylphenol	0.93	U	117-84-0	Di-n-octylphthalate	3.7	U
91-94-1	3,3'-Dichlorobenzidine	3.7	U	**206-44-0**	**Fluoranthene**	**3.7**	**15**
99-09-2	3-Nitroaniline	3.7	U	**86-73-7**	**Fluorene**	**3.7**	**48**
534-52-1	4,6-Dinitro-2-methylphenol	19	U	118-74-1	Hexachlorobenzene	3.7	U
101-55-3	4-Bromophenyl-phenylether	3.7	U	87-68-3	Hexachlorobutadiene	3.7	U
59-50-7	4-Chloro-3-methylphenol	3.7	U	77-47-4	Hexachlorocyclopentadiene	3.7	U
106-47-8	4-Chloroaniline	0.93	U	67-72-1	Hexachloroethane	3.7	U
7005-72-3	4-Chlorophenyl-phenylether	3.7	U	193-39-5	Indeno[1,2,3-cd]pyrene	3.7	U
100-01-6	4-Nitroaniline	3.7	U	78-59-1	Isophorone	3.7	U
100-02-7	4-Nitrophenol	3.7	U	91-20-3	Naphthalene	0.93	U
83-32-9	**Acenaphthene**	**3.7**	**32**	98-95-3	Nitrobenzene	3.7	U
208-96-8	Acenaphthylene	3.7	U	621-64-7	N-Nitroso-di-n-propylamine	0.93	U
98-86-2	Acetophenone	3.7	U	86-30-6	n-Nitrosodiphenylamine	3.7	U
120-12-7	**Anthracene**	**3.7**	**18**	87-86-5	Pentachlorophenol	19	U
1912-24-9	Atrazine	3.7	U	**85-01-8**	**Phenanthrene**	**3.7**	**94**
100-52-7	Benzaldehyde	3.7	U	108-95-2	Phenol	3.7	U
56-55-3	**Benzo[a]anthracene**	**3.7**	**3.9**	**129-00-0**	**Pyrene**	**3.7**	**34**
50-32-8	Benzo[a]pyrene	3.7	U				

Worksheet #: 304385 ***Total Target Concentration*** 300 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

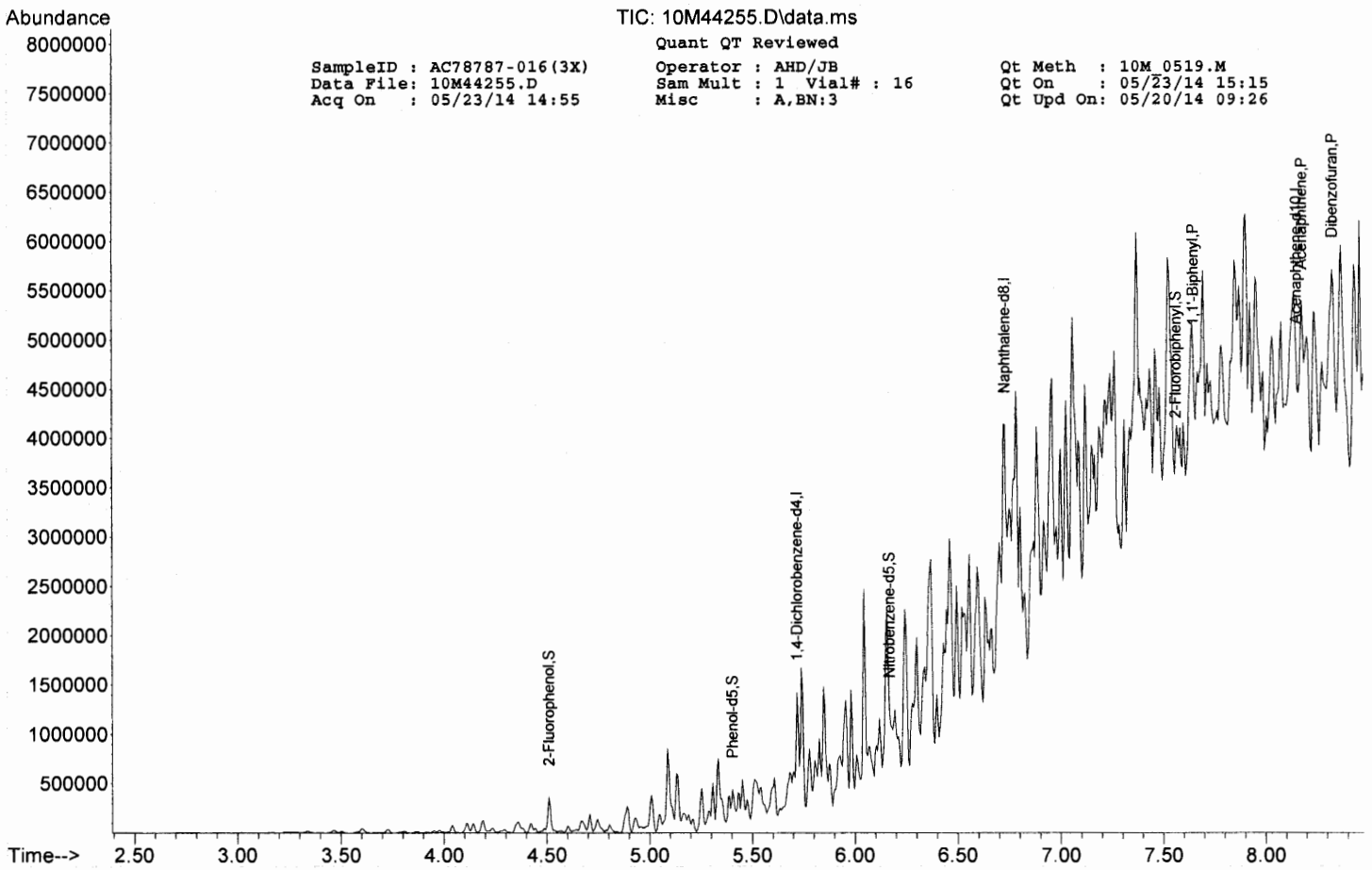
Quantitation Report (QT Reviewed)

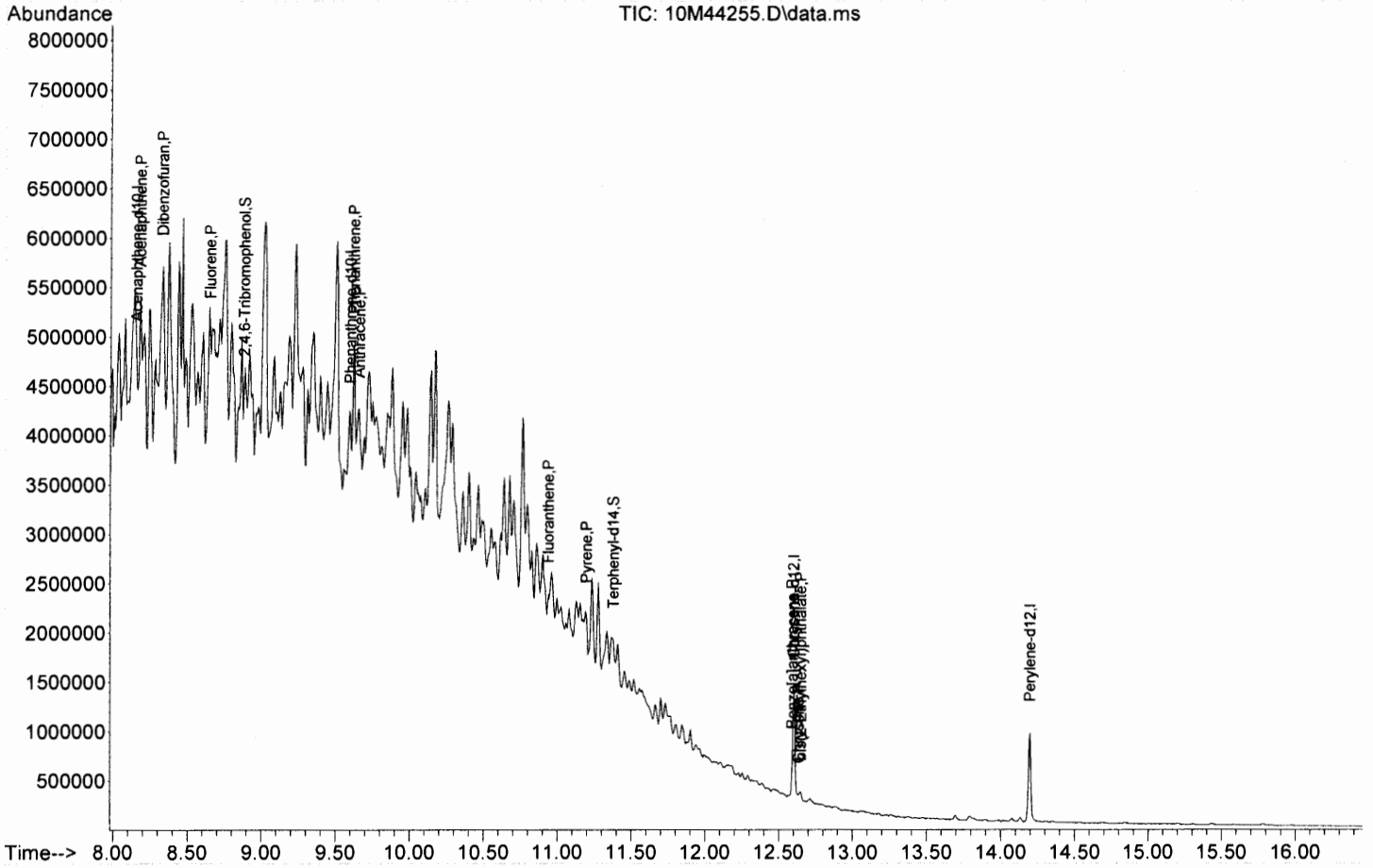
SampleID : AC78787-016(3X) Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44255.D Sam Mult : 1 Vial# : 16 Qt On : 05/23/14 15:15
Acq On : 05/23/14 14:55 Misc : A,BN:3 Qt Upd On: 05/20/14 09:26

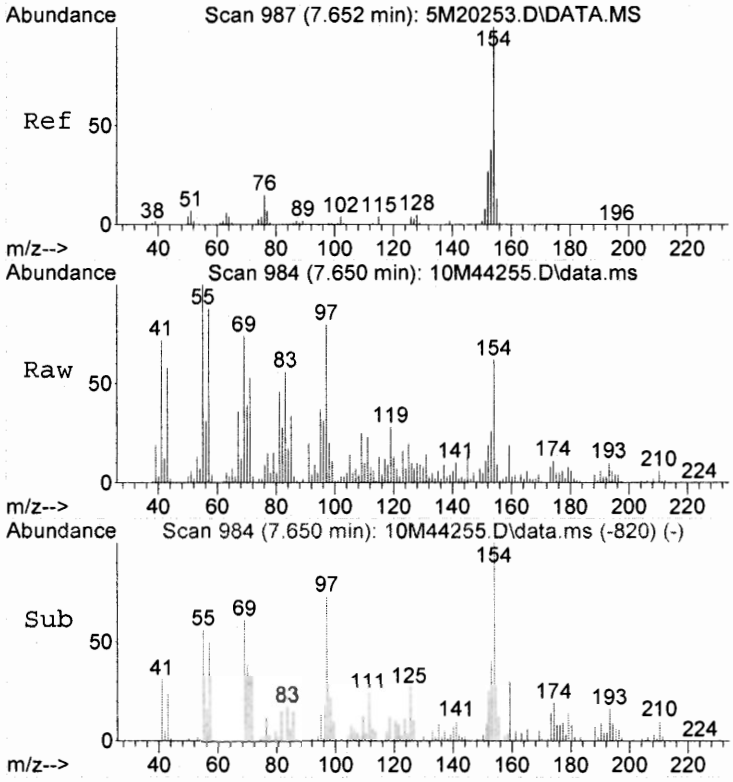
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	103031	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	339390	40.00	ng	0.00
47) Acenaphthene-d10	8.153	164	197994	40.00	ng	0.02
74) Phenanthrene-d10	9.597	188	378258	40.00	ng	0.03
88) Chrysene-d12	12.603	240	420694	40.00	ng	0.00
100) Perylene-d12	14.197	264	386996	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	61436	15.67	ng	0.00
Spiked Amount 100.000			Recovery = 15.67%			
15) Phenol-d5	5.404	99	69345	12.50	ng	0.00
Spiked Amount 100.000			Recovery = 12.50%			
30) Nitrobenzene-d5	6.168	128	18038m	11.48	ng	0.00
Spiked Amount 50.000			Recovery = 22.96%			
52) 2-Fluorobiphenyl	7.564	172	82568m	11.32	ng	0.00
Spiked Amount 50.000			Recovery = 22.64%			
77) 2,4,6-Tribromophenol	8.880	330	40341	33.59	ng	0.02
Spiked Amount 100.000			Recovery = 33.59%			
91) Terphenyl-d14	11.378	244	127732	14.08	ng	0.02
Spiked Amount 50.000			Recovery = 28.16%			
Target Compounds						Qvalue
46) 1,1'-Biphenyl	7.650	154	139028	17.4805	ng	93
62) Acenaphthene	8.180	153	108166	17.1774	ng	62
65) Dibenzofuran	8.329	168	63671	7.2246	ng	58
69) Fluorene	8.650	166	190200	26.1673	ng	95
83) Phenanthrene	9.618	178	555281m	50.8584	ng	
84) Anthracene	9.656	178	105020m	9.6342	ng	
87) Fluoranthene	10.939	202	96033	7.9745	ng	96
89) Pyrene	11.196	202	238588	18.3255	ng	90
97) Benzo[a]anthracene	12.592	228	26007m	2.1010	ng	
98) Chrysene	12.635	228	28360m	2.5347	ng	
99) bis(2-Ethylhexyl)phtha...	12.651	149	27603	3.8325	ng	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44255.D\data.ms
Quant QT Reviewed
SampleID : AC78787-016(3X)
Data File: 10M44255.D
Acq On : 05/23/14 14:55
Operator : AHD/JB
Sam Mult : 1 Vial# : 16
Misc : A,BN:3
Qt Meth : 10M_0519.M
Qt On : 05/23/14 15:15
Qt Upd On: 05/20/14 09:26
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
1,1'-Biphenyl,P
Acenaphthene,P
Dibenzofuran,P
Time-->

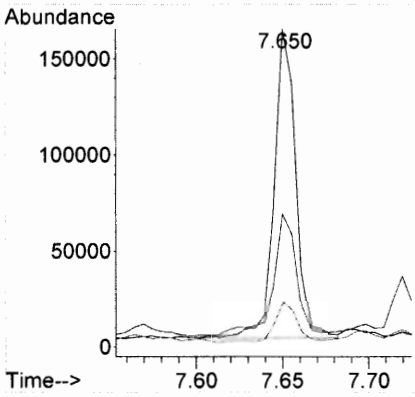

Abundance
TIC: 10M44255.D\data.ms
Dibenzofuran,P
Fluorene,P
2,4,6-Tribromophenol,S
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Perylene-d12,I
Time-->

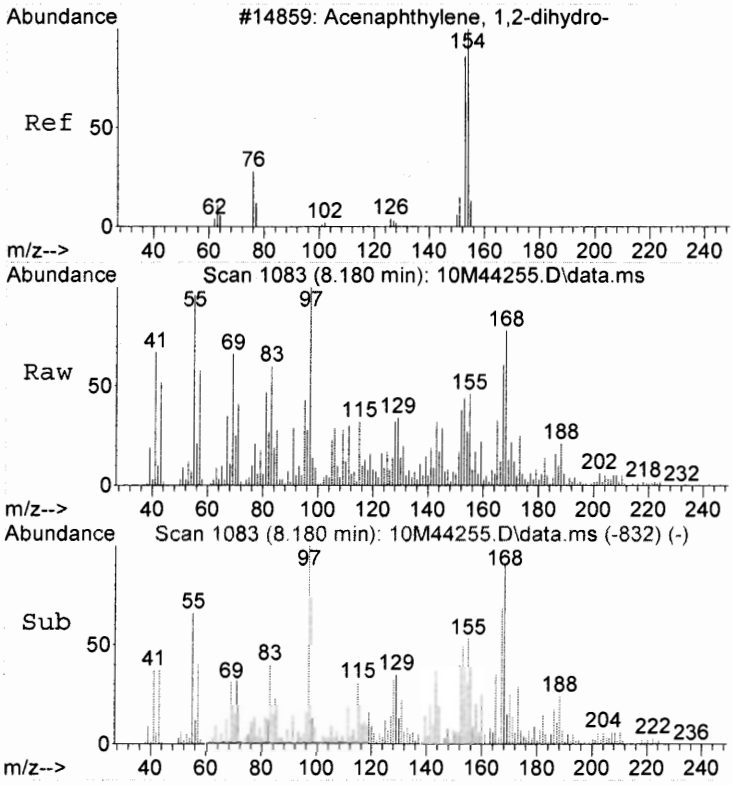


#46
1,1'-Biphenyl
Concen: 17.48 ng
RT: 7.650 min Scan# 984
Delta R.T. 0.005 min
Lab File: 10M44255.D
Acq: 23 May 2014 14:55

Tgt Ion:154 Resp: 139028

Ion	Ratio	Lower	Upper
154	100		
153	39.6	19.2	59.2
76	11.9	0.5	40.5

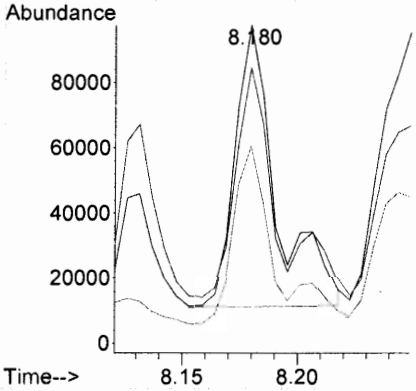


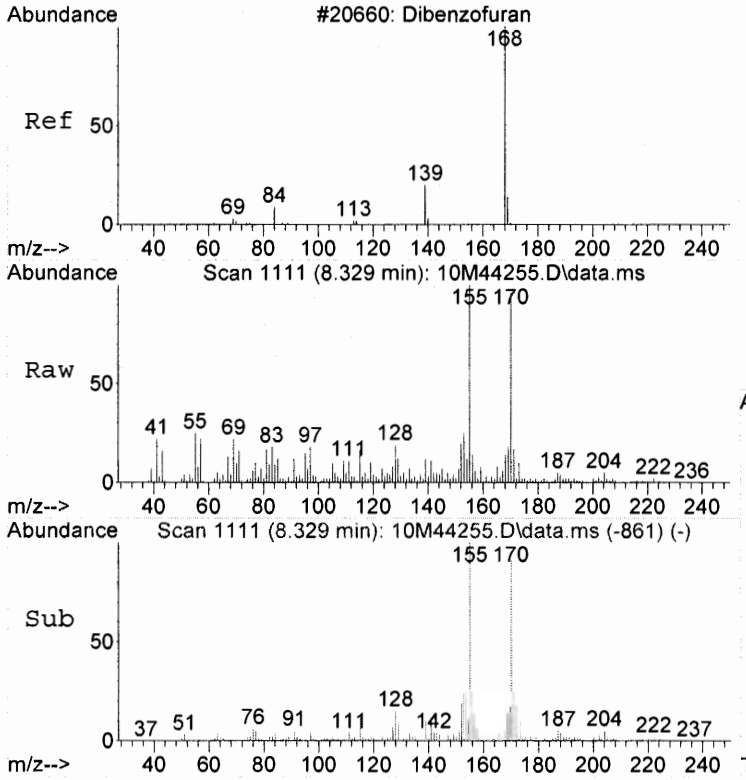


#62
Acenaphthene
Concen: 17.18 ng
RT: 8.180 min Scan# 1083
Delta R.T. 0.016 min
Lab File: 10M44255.D
Acq: 23 May 2014 14:55

Tgt Ion:153 Resp: 108166

Ion	Ratio	Lower	Upper
153	100		
152	81.4	10.0	90.0
154	63.4	57.5	137.5

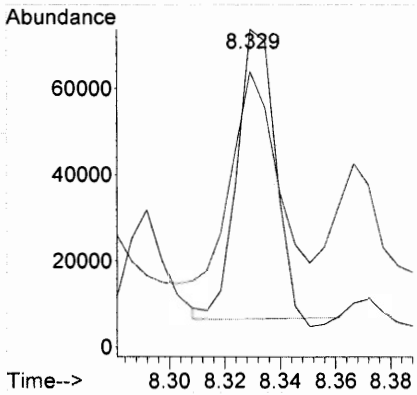


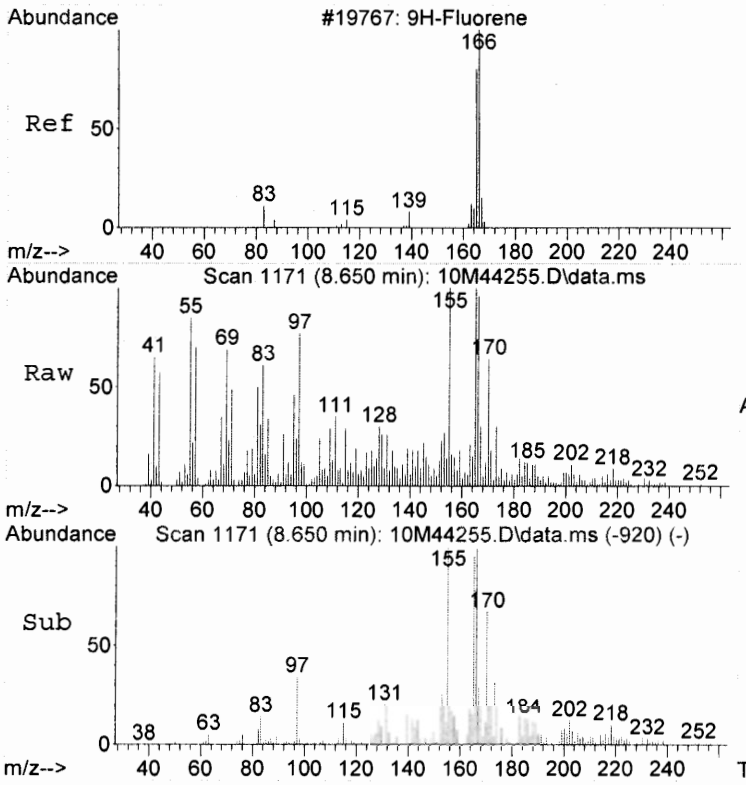


#65
Dibenzofuran
Concen: 7.22 ng
RT: 8.329 min Scan# 1111
Delta R.T. 0.011 min
Lab File: 10M44255.D
Acq: 23 May 2014 14:55

Tgt Ion:168 Resp: 63671

Ion	Ratio	Lower	Upper
168	100		
139	73.6	0.0	246.0

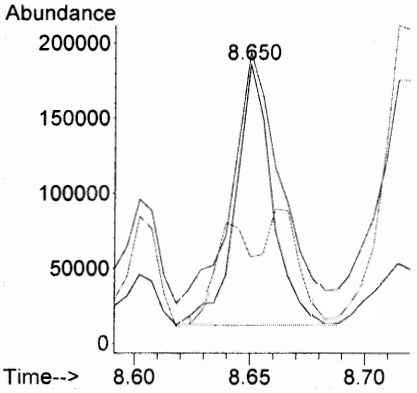


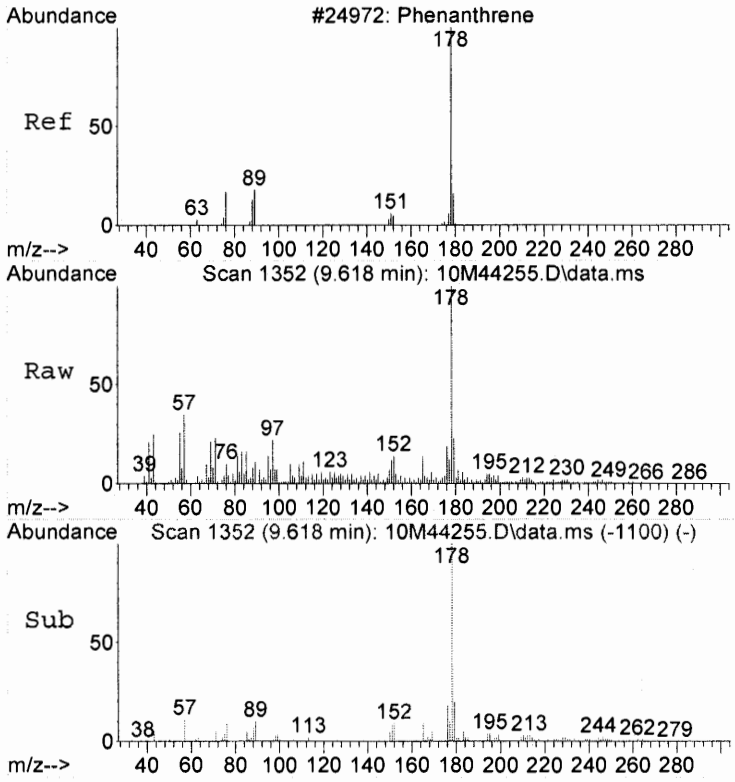


#69
Fluorene
Concen: 26.17 ng
RT: 8.650 min Scan# 1171
Delta R.T. 0.016 min
Lab File: 10M44255.D
Acq: 23 May 2014 14:55

Tgt Ion:166 Resp: 190200

Ion	Ratio	Lower	Upper
166	100		
165	92.1	0.0	292.6
167	26.2	0.0	213.2

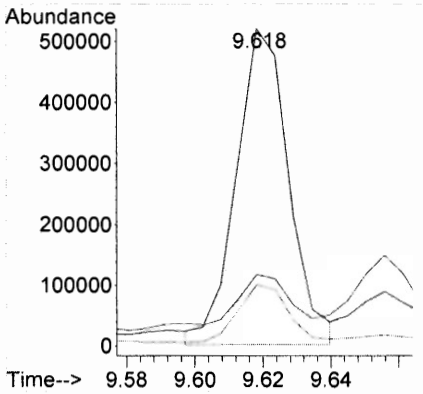


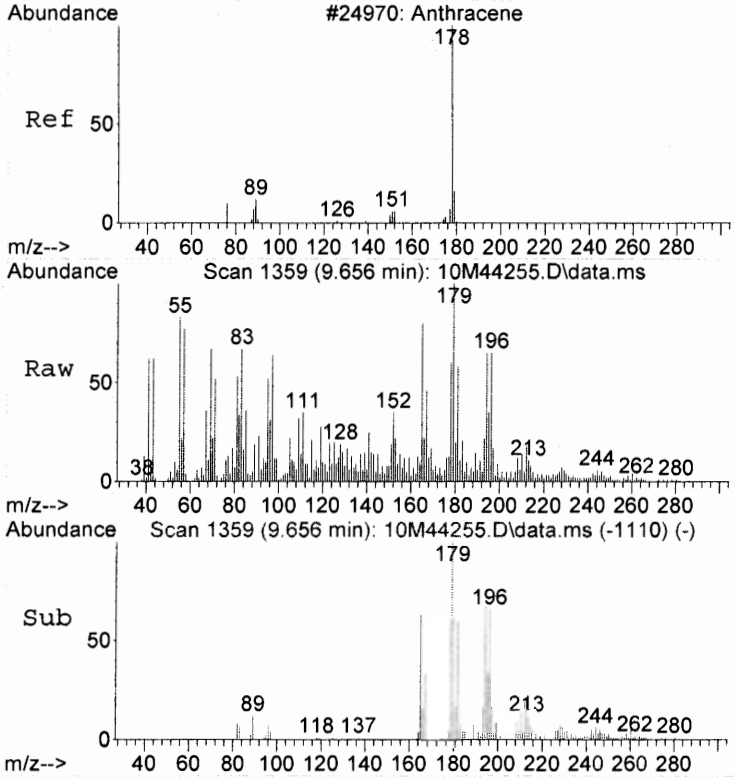


#83
Phenanthrene
Concen: 50.86 ng m
RT: 9.618 min Scan# 1352
Delta R.T. 0.021 min
Lab File: 10M44255.D
Acq: 23 May 2014 14:55

Tgt Ion:178 Resp: 555281

Ion	Ratio	Lower	Upper
178	100		
179	22.7	0.0	55.5
176	19.4	0.0	59.3

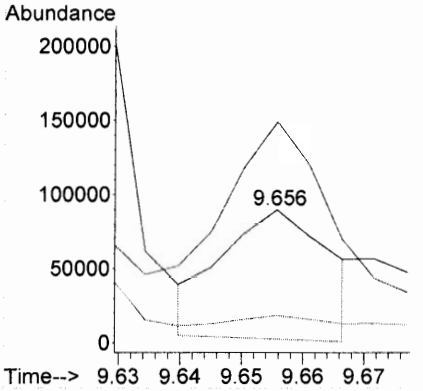


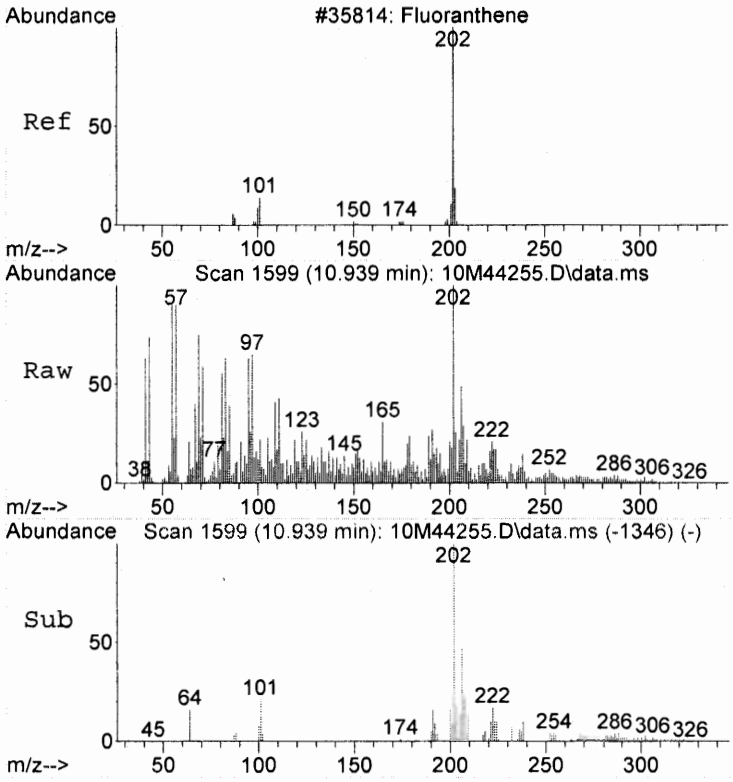


#84
Anthracene
Concen: 9.63 ng m
RT: 9.656 min Scan# 1359
Delta R.T. 0.005 min
Lab File: 10M44255.D
Acq: 23 May 2014 14:55

Tgt Ion:178 Resp: 105020

Ion	Ratio	Lower	Upper
178	100		
179	165.6	0.0	55.2#
176	20.6	0.0	58.1

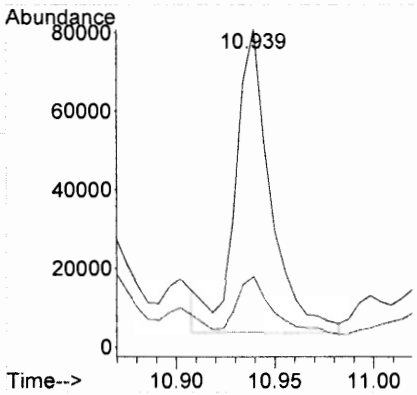


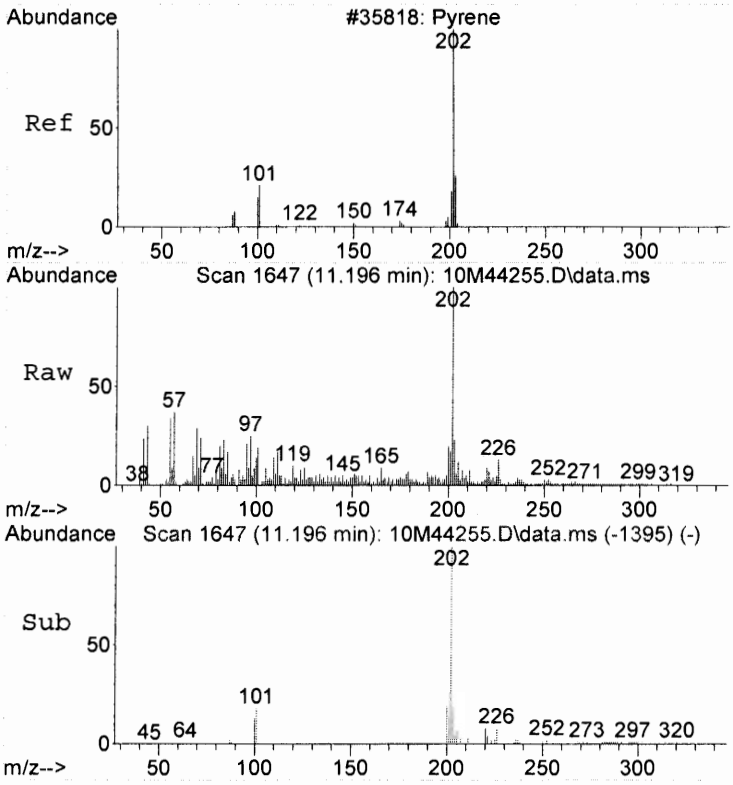


#87
Fluoranthene
Concen: 7.97 ng
RT: 10.939 min Scan# 1599
Delta R.T. 0.027 min
Lab File: 10M44255.D
Acq: 23 May 2014 14:55

Tgt Ion:202 Resp: 96033

Ion	Ratio	Lower	Upper
202	100		
101	19.4	0.0	57.6

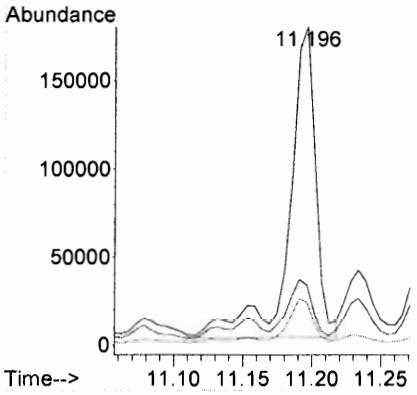


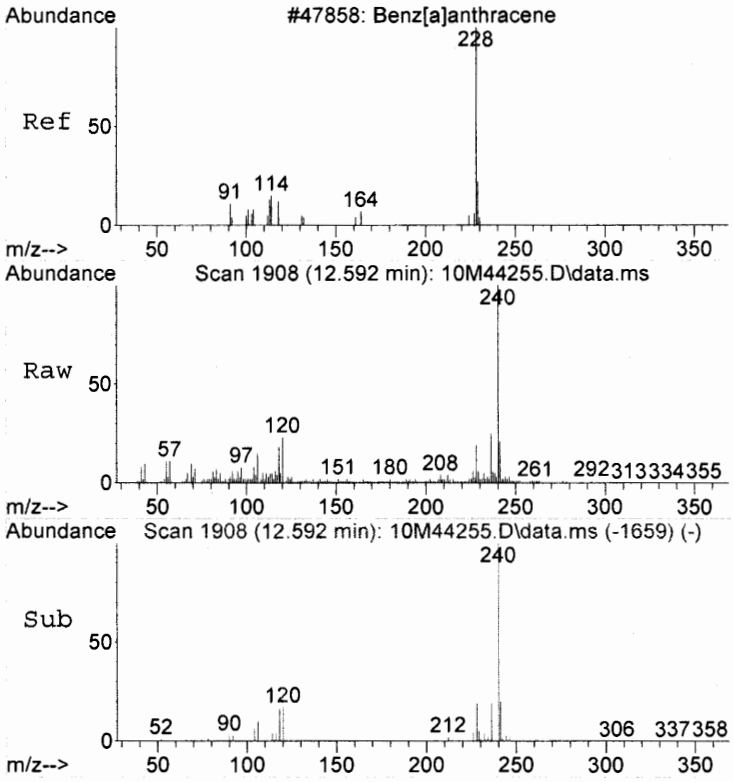


#89
Pyrene
Concen: 18.33 ng
RT: 11.196 min Scan# 1647
Delta R.T. 0.021 min
Lab File: 10M44255.D
Acq: 23 May 2014 14:55

Tgt Ion:202 Resp: 238588

Ion	Ratio	Lower	Upper
202	100		
101	17.5	0.0	62.2
100	13.1	0.0	57.8

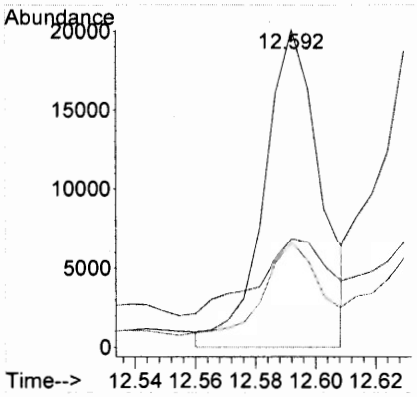


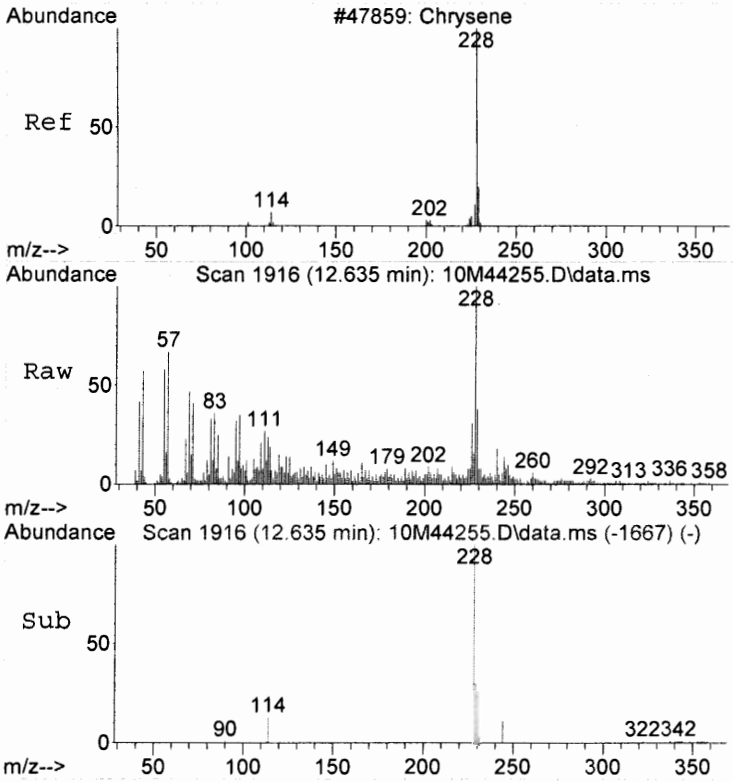


#97
Benzo[a]anthracene
Concen: 2.10 ng m
RT: 12.592 min Scan# 1908
Delta R.T. 0.005 min
Lab File: 10M44255.D
Acq: 23 May 2014 14:55

Tgt Ion:228 Resp: 26007

Ion	Ratio	Lower	Upper
228	100		
229	34.1	0.0	59.5
226	32.8	0.0	66.0

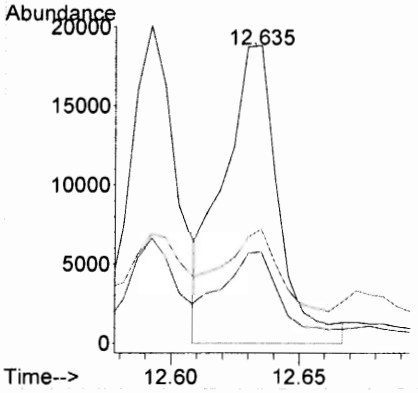


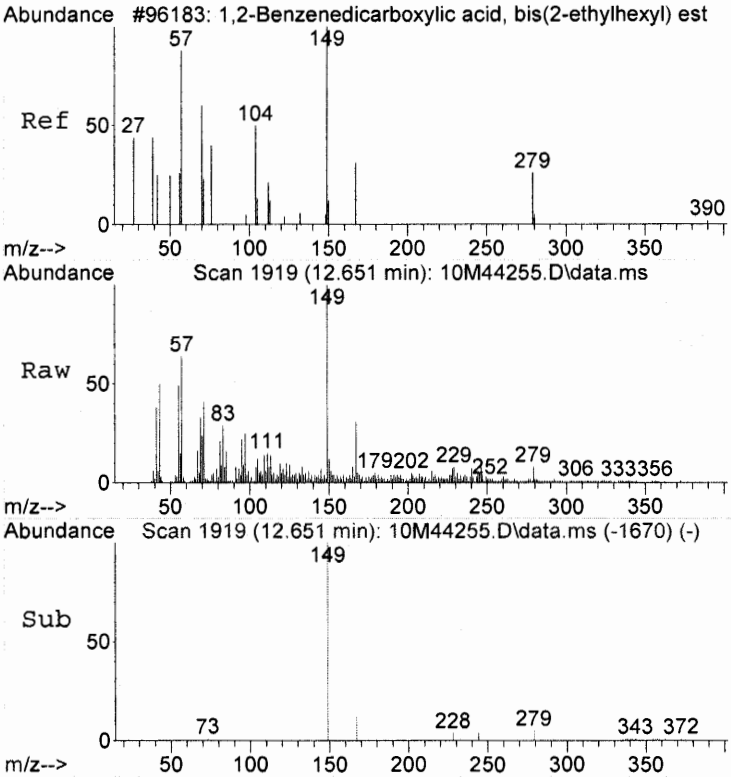


#98
Chrysene
Concen: 2.53 ng m
RT: 12.635 min Scan# 1916
Delta R.T. 0.005 min
Lab File: 10M44255.D
Acq: 23 May 2014 14:55

Tgt Ion:228 Resp: 28360

Ion	Ratio	Lower	Upper
228	100		
226	30.7	9.5	49.5
229	38.4	0.0	60.2

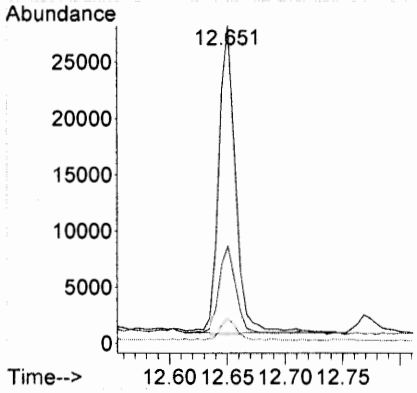




#99
bis(2-Ethylhexyl)phthalate
Concen: 3.83 ng
RT: 12.651 min Scan# 1919
Delta R.T. 0.006 min
Lab File: 10M44255.D
Acq: 23 May 2014 14:55

Tgt Ion:149 Resp: 27603

Ion	Ratio	Lower	Upper
149	100		
167	28.3	0.0	54.4
279	7.2	0.0	43.5



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-018
Client Id: EXT 3(27-29')
Data File: 10M44333.D
Analysis Date: 05/29/14 14:37
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.038	U	205-99-2	Benzo[b]fluoranthene	0.038	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.038	U	191-24-2	Benzo[g,h,i]perylene	0.038	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.038	U	207-08-9	Benzo[k]fluoranthene	0.038	U
95-95-4	2,4,5-Trichlorophenol	0.038	U	111-91-1	bis(2-Chloroethoxy)methan	0.038	U
88-06-2	2,4,6-Trichlorophenol	0.038	U	111-44-4	bis(2-Chloroethyl)ether	0.0096	U
120-83-2	2,4-Dichlorophenol	0.0096	U	108-60-1	bis(2-chloroisopropyl)ether	0.038	U
105-67-9	2,4-Dimethylphenol	0.0096	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.038**	**0.10**
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.038	U
121-14-2	2,4-Dinitrotoluene	0.038	U	105-60-2	Caprolactam	0.038	U
606-20-2	2,6-Dinitrotoluene	0.038	U	86-74-8	Carbazole	0.038	U
91-58-7	2-Chloronaphthalene	0.038	U	218-01-9	Chrysene	0.038	U
95-57-8	2-Chlorophenol	0.038	U	53-70-3	Dibenzo[a,h]anthracene	0.038	U
91-57-6	2-Methylnaphthalene	0.038	U	**132-64-9**	**Dibenzofuran**	**0.0096**	**0.016**
95-48-7	2-Methylphenol	0.0096	U	84-66-2	Diethylphthalate	0.038	U
88-74-4	2-Nitroaniline	0.038	U	131-11-3	Dimethylphthalate	0.038	U
88-75-5	2-Nitrophenol	0.038	U	84-74-2	Di-n-butylphthalate	0.019	U
106-44-5	3&4-Methylphenol	0.0096	U	117-84-0	Di-n-octylphthalate	0.038	U
91-94-1	3,3'-Dichlorobenzidine	0.038	U	**206-44-0**	**Fluoranthene**	**0.038**	**0.057**
99-09-2	3-Nitroaniline	0.038	U	**86-73-7**	**Fluorene**	**0.038**	**0.063**
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.038	U
101-55-3	4-Bromophenyl-phenylether	0.038	U	87-68-3	Hexachlorobutadiene	0.038	U
59-50-7	4-Chloro-3-methylphenol	0.038	U	77-47-4	Hexachlorocyclopentadiene	0.038	U
106-47-8	4-Chloroaniline	0.018	U	67-72-1	Hexachloroethane	0.038	U
7005-72-3	4-Chlorophenyl-phenylether	0.038	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.038	U
100-01-6	4-Nitroaniline	0.038	U	78-59-1	Isophorone	0.038	U
100-02-7	4-Nitrophenol	0.038	U	91-20-3	Naphthalene	0.0096	U
83-32-9	Acenaphthene	0.038	U	98-95-3	Nitrobenzene	0.038	U
208-96-8	Acenaphthylene	0.038	U	621-64-7	N-Nitroso-di-n-propylamine	0.0096	U
98-86-2	Acetophenone	0.038	U	86-30-6	n-Nitrosodiphenylamine	0.038	U
120-12-7	Anthracene	0.038	U	87-86-5	Pentachlorophenol	0.19	U
1912-24-9	Atrazine	0.038	U	**85-01-8**	**Phenanthrene**	**0.038**	**0.12**
100-52-7	Benzaldehyde	0.038	U	108-95-2	Phenol	0.038	U
56-55-3	Benzo[a]anthracene	0.038	U	**129-00-0**	**Pyrene**	**0.038**	**0.099**
50-32-8	Benzo[a]pyrene	0.038	U				

Worksheet #: 304385 ***Total Target Concentration*** 0.46 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

SampleID : AC78787-018 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44333.D Sam Mult : 1 Vial# : 4 Qt On : 05/29/14 14:56
Acq On : 05/29/14 14:37 Misc : S,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-29-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	88713	40.00	ng	0.00
29) Naphthalene-d8	6.724	136	309731	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	155796	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	292262	40.00	ng	0.00
88) Chrysene-d12	12.597	240	294726	40.00	ng	0.00
100) Perylene-d12	14.191	264	277496	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	219468	65.01	ng	0.00
Spiked Amount 100.000			Recovery = 65.01%			
15) Phenol-d5	5.403	99	336466	70.46	ng	0.00
Spiked Amount 100.000			Recovery = 70.46%			
30) Nitrobenzene-d5	6.168	128	56998	39.75	ng	0.00
Spiked Amount 50.000			Recovery = 79.50%			
52) 2-Fluorobiphenyl	7.559	172	220370	38.39	ng	0.00
Spiked Amount 50.000			Recovery = 76.78%			
77) 2,4,6-Tribromophenol	8.864	330	73379	72.98	ng	0.00
Spiked Amount 100.000			Recovery = 72.98%			
91) Terphenyl-d14	11.367	244	245851	38.69	ng	0.00
Spiked Amount 50.000			Recovery = 77.38%			
Target Compounds						Qvalue
65) Dibenzofuran	8.318	168	5681	0.8192	ng	91
69) Fluorene	8.634	166	18829	3.2921	ng	87
83) Phenanthrene	9.597	178	53295	6.3176	ng	92
87) Fluoranthene	10.929	202	27459	2.9511	ng	97
89) Pyrene	11.175	202	47021	5.1552	ng	99
99) bis(2-Ethylhexyl)phtha...	12.645	149	26537	5.2534	ng	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

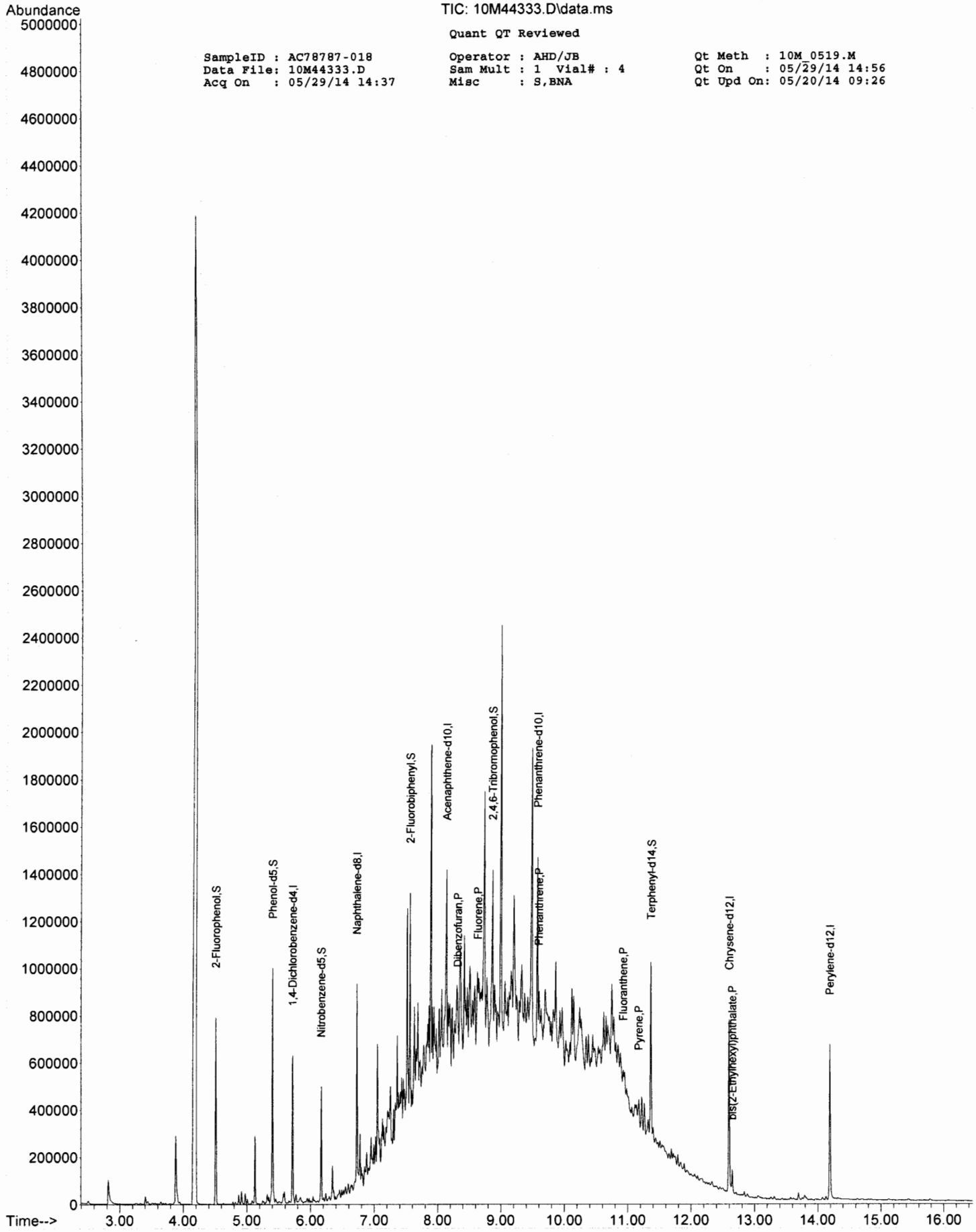
TIC: 10M44333.D\data.ms

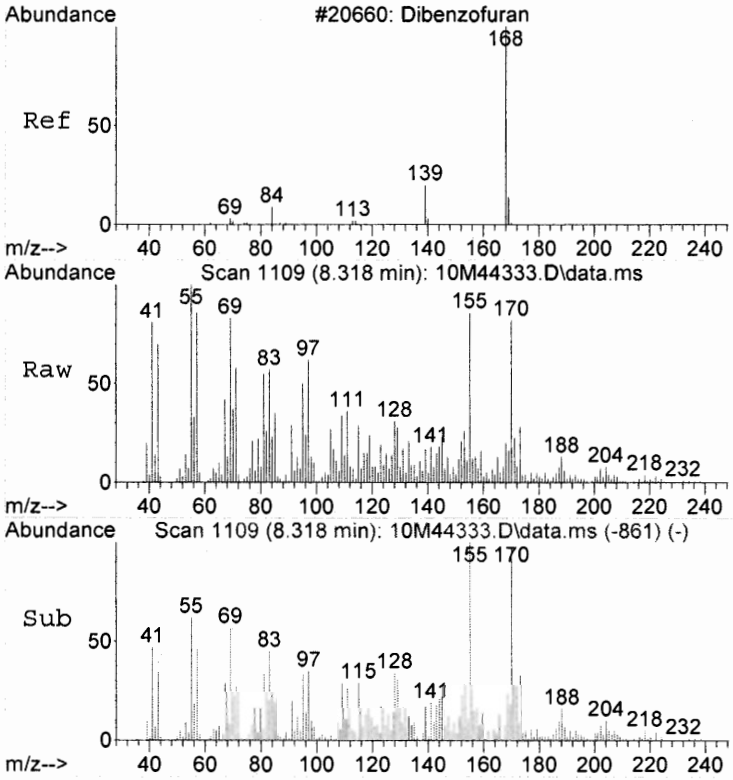
Quant QT Reviewed

SampleID : AC78787-018
Data File: 10M44333.D
Acq On : 05/29/14 14:37

Operator : AHD/JB
Sam Mult : 1 Vial# : 4
Misc : S,BNA

Qt Meth : 10M_0519.M
Qt On : 05/29/14 14:56
Qt Upd On: 05/20/14 09:26

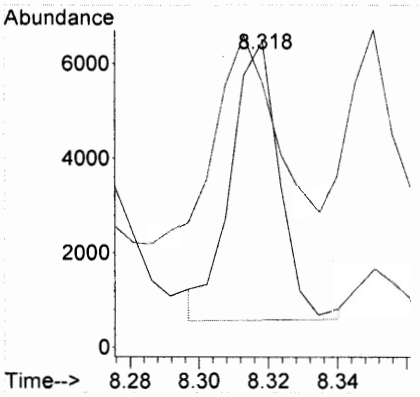


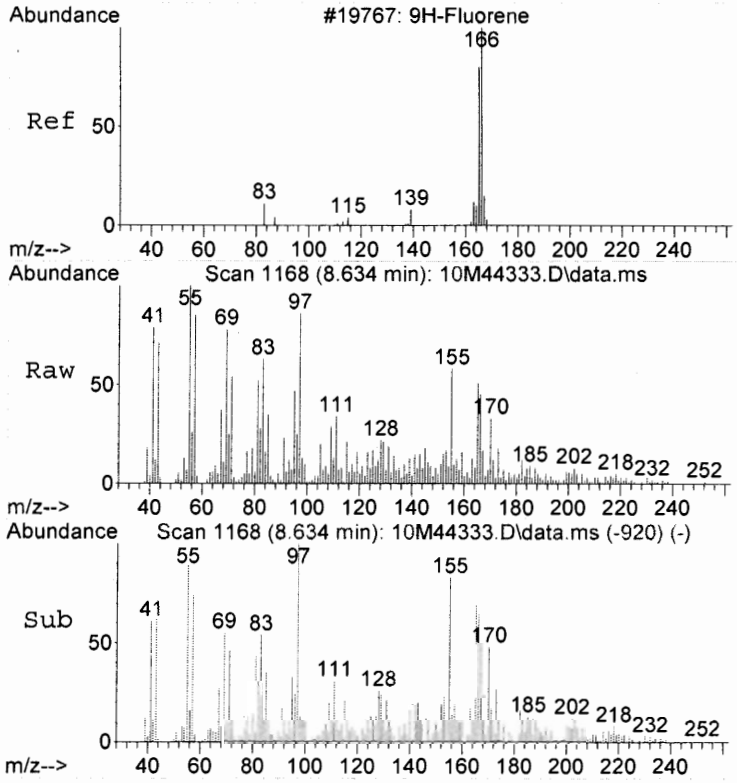


#65
Dibenzofuran
Concen: 0.82 ng
RT: 8.318 min Scan# 1109
Delta R.T. -0.000 min
Lab File: 10M44333.D
Acq: 29 May 2014 14:37

Tgt Ion:168 Resp: 5681

Ion	Ratio	Lower	Upper
168	100		
139	52.0	0.0	246.0

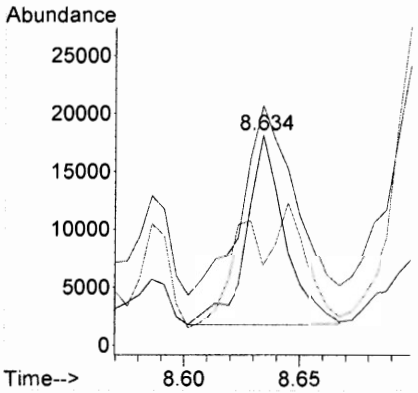


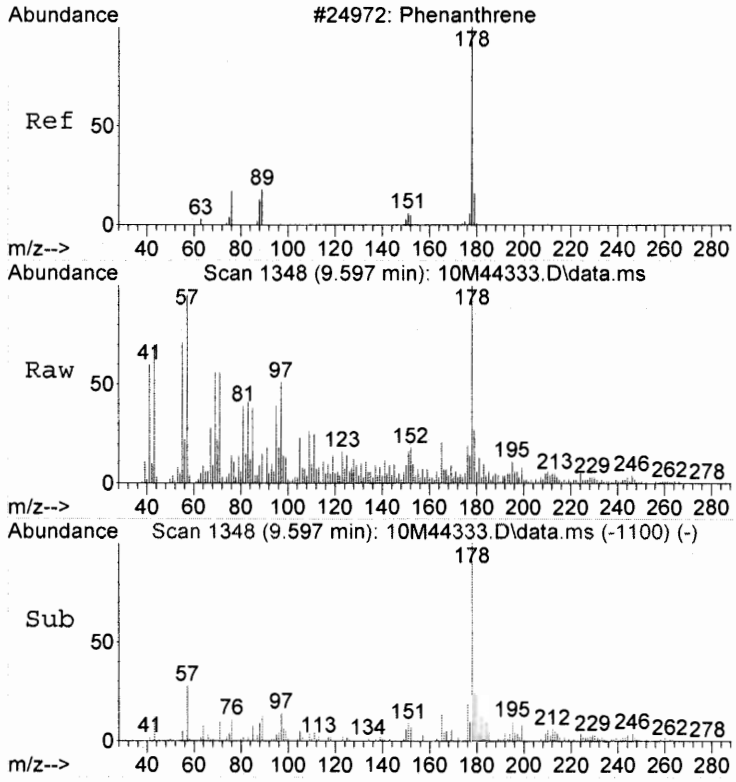


#69
Fluorene
Concen: 3.29 ng
RT: 8.634 min Scan# 1168
Delta R.T. -0.000 min
Lab File: 10M44333.D
Acq: 29 May 2014 14:37

Tgt Ion:166 Resp: 18829

Ion	Ratio	Lower	Upper
166	100		
165	100.0	0.0	292.6
167	32.9	0.0	213.2

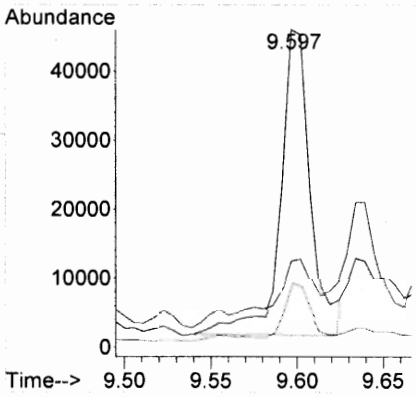


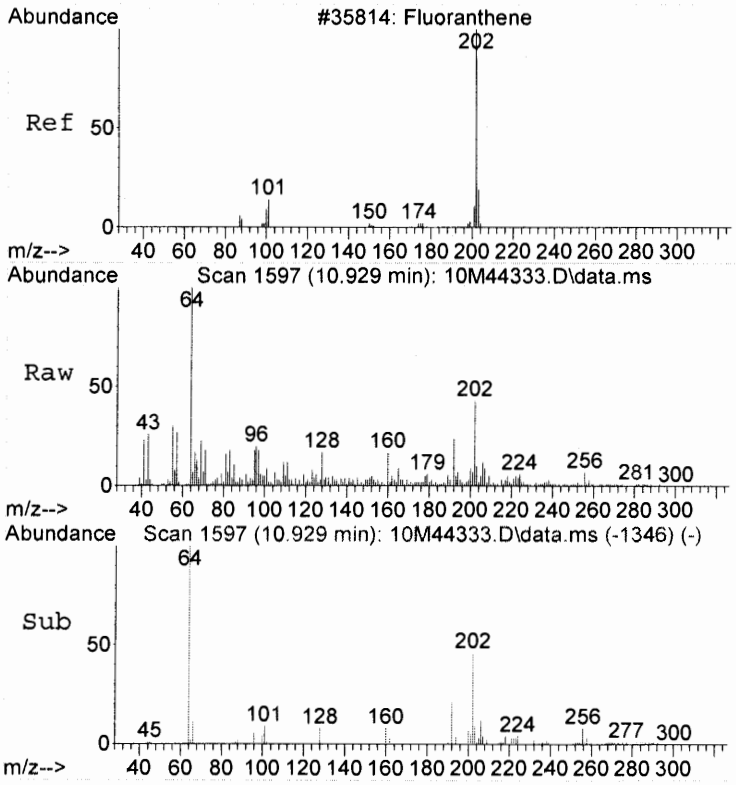


#83
Phenanthrene
Concen: 6.32 ng
RT: 9.597 min Scan# 1348
Delta R.T. -0.000 min
Lab File: 10M44333.D
Acq: 29 May 2014 14:37

Tgt Ion:178 Resp: 53295

Ion	Ratio	Lower	Upper
178	100		
179	22.4	0.0	55.5
176	18.4	0.0	59.3

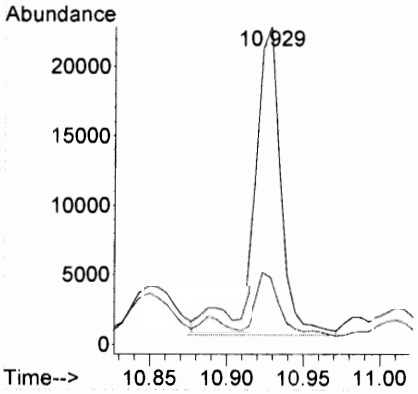


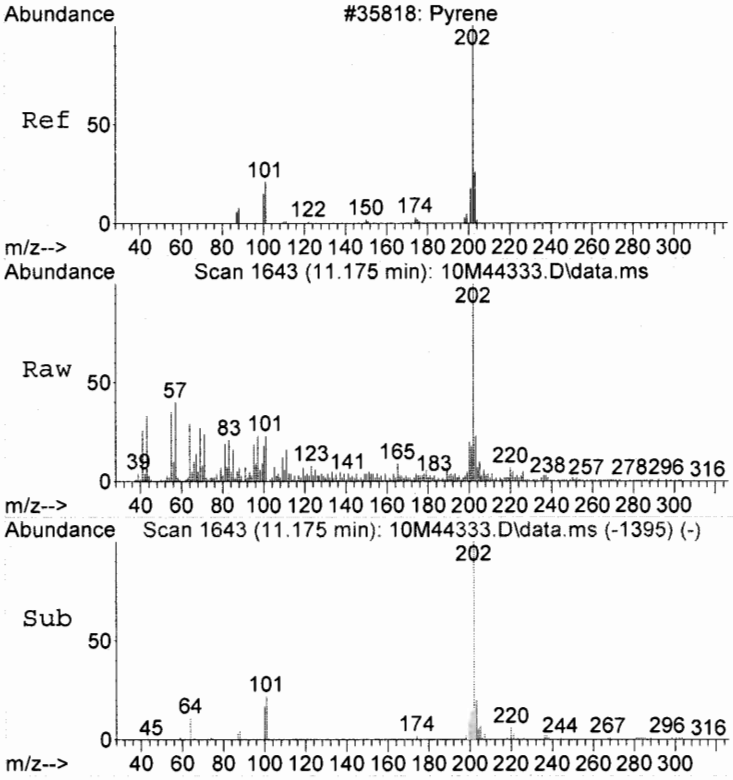


#87
Fluoranthene
Concen: 2.95 ng
RT: 10.929 min Scan# 1597
Delta R.T. 0.016 min
Lab File: 10M44333.D
Acq: 29 May 2014 14:37

Tgt Ion:202 Resp: 27459

Ion	Ratio	Lower	Upper
202	100		
101	19.1	0.0	57.6

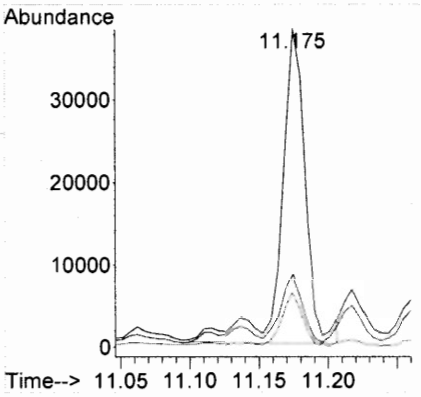


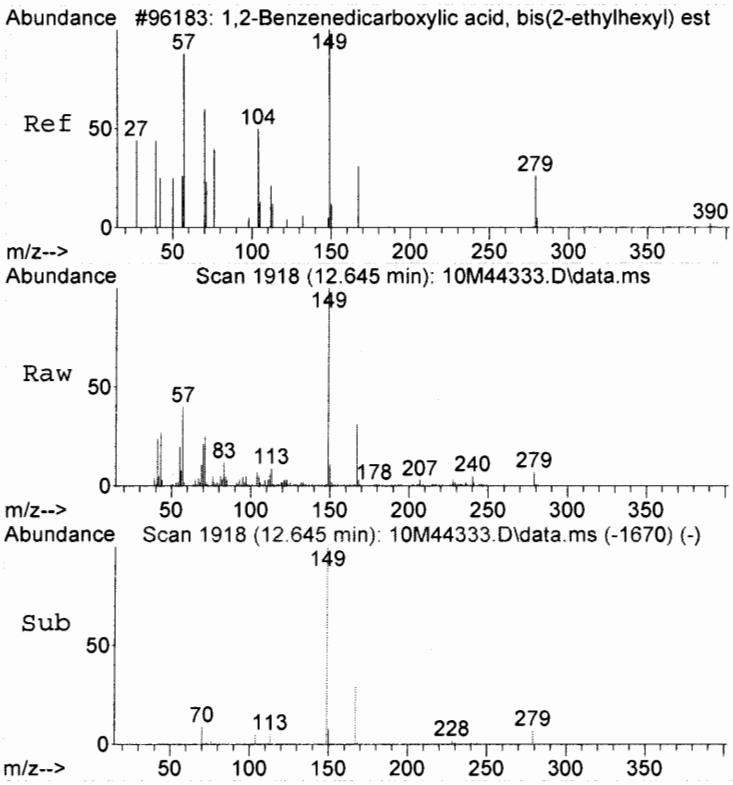


#89
Pyrene
Concen: 5.16 ng
RT: 11.175 min Scan# 1643
Delta R.T. -0.000 min
Lab File: 10M44333.D
Acq: 29 May 2014 14:37

Tgt Ion:202 Resp: 47021

Ion	Ratio	Lower	Upper
202	100		
101	22.1	0.0	62.2
100	17.0	0.0	57.8

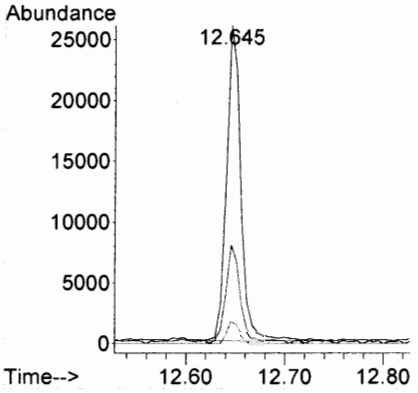




#99
bis(2-Ethylhexyl)phthalate
Concen: 5.25 ng
RT: 12.645 min Scan# 1918
Delta R.T. 0.000 min
Lab File: 10M44333.D
Acq: 29 May 2014 14:37

Tgt Ion:149 Resp: 26537

Ion	Ratio	Lower	Upper
149	100		
167	31.4	0.0	54.4
279	6.8	0.0	43.5



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-019
Client Id: SUMP1(0-2')
Data File: 10M44297.D
Analysis Date: 05/27/14 16:28
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.036	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.036**	**0.17**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.036	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.036**	**0.069**
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.036**	**0.055**
95-95-4	2,4,5-Trichlorophenol	0.036	U	111-91-1	bis(2-Chloroethoxy)methan	0.036	U
88-06-2	2,4,6-Trichlorophenol	0.036	U	111-44-4	bis(2-Chloroethyl)ether	0.0091	U
120-83-2	2,4-Dichlorophenol	0.0091	U	108-60-1	bis(2-chloroisopropyl)ether	0.036	U
105-67-9	2,4-Dimethylphenol	0.0091	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.036**	**0.21**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.036	U
121-14-2	2,4-Dinitrotoluene	0.036	U	105-60-2	Caprolactam	0.036	U
606-20-2	2,6-Dinitrotoluene	0.036	U	86-74-8	Carbazole	0.036	U
91-58-7	2-Chloronaphthalene	0.036	U	**218-01-9**	**Chrysene**	**0.036**	**0.14**
95-57-8	2-Chlorophenol	0.036	U	53-70-3	Dibenzo[a,h]anthracene	0.036	U
91-57-6	2-Methylnaphthalene	0.036	U	132-64-9	Dibenzofuran	0.0091	U
95-48-7	2-Methylphenol	0.0091	U	84-66-2	Diethylphthalate	0.036	U
88-74-4	2-Nitroaniline	0.036	U	131-11-3	Dimethylphthalate	0.036	U
88-75-5	2-Nitrophenol	0.036	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0091	U	117-84-0	Di-n-octylphthalate	0.036	U
91-94-1	3,3'-Dichlorobenzidine	0.036	U	**206-44-0**	**Fluoranthene**	**0.036**	**0.25**
99-09-2	3-Nitroaniline	0.036	U	86-73-7	Fluorene	0.036	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.036	U
101-55-3	4-Bromophenyl-phenylether	0.036	U	87-68-3	Hexachlorobutadiene	0.036	U
59-50-7	4-Chloro-3-methylphenol	0.036	U	77-47-4	Hexachlorocyclopentadiene	0.036	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.036	U
7005-72-3	4-Chlorophenyl-phenylether	0.036	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.036**	**0.059**
100-01-6	4-Nitroaniline	0.036	U	78-59-1	Isophorone	0.036	U
100-02-7	4-Nitrophenol	0.036	U	**91-20-3**	**Naphthalene**	**0.0091**	**0.011**
83-32-9	Acenaphthene	0.036	U	98-95-3	Nitrobenzene	0.036	U
208-96-8	Acenaphthylene	0.036	U	621-64-7	N-Nitroso-di-n-propylamine	0.0091	U
98-86-2	Acetophenone	0.036	U	86-30-6	n-Nitrosodiphenylamine	0.036	U
120-12-7	Anthracene	0.036	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.036	U	**85-01-8**	**Phenanthrene**	**0.036**	**0.16**
100-52-7	Benzaldehyde	0.036	U	108-95-2	Phenol	0.036	U
56-55-3	**Benzo[a]anthracene**	**0.036**	**0.16**	**129-00-0**	**Pyrene**	**0.036**	**0.25**
50-32-8	**Benzo[a]pyrene**	**0.036**	**0.13**				

Worksheet #: 304385 ***Total Target Concentration*** 1.7 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

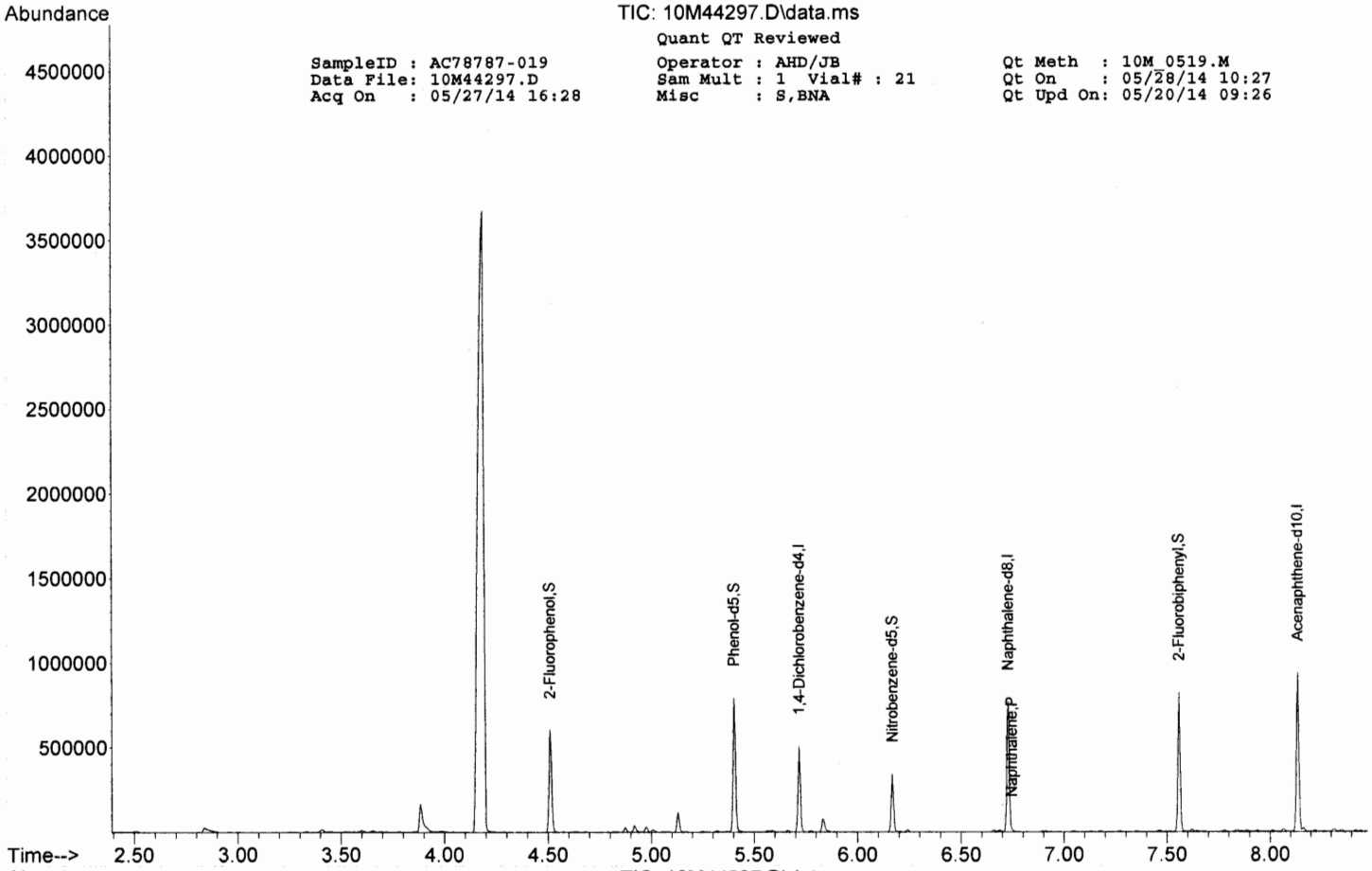
Quantitation Report (QT Reviewed)

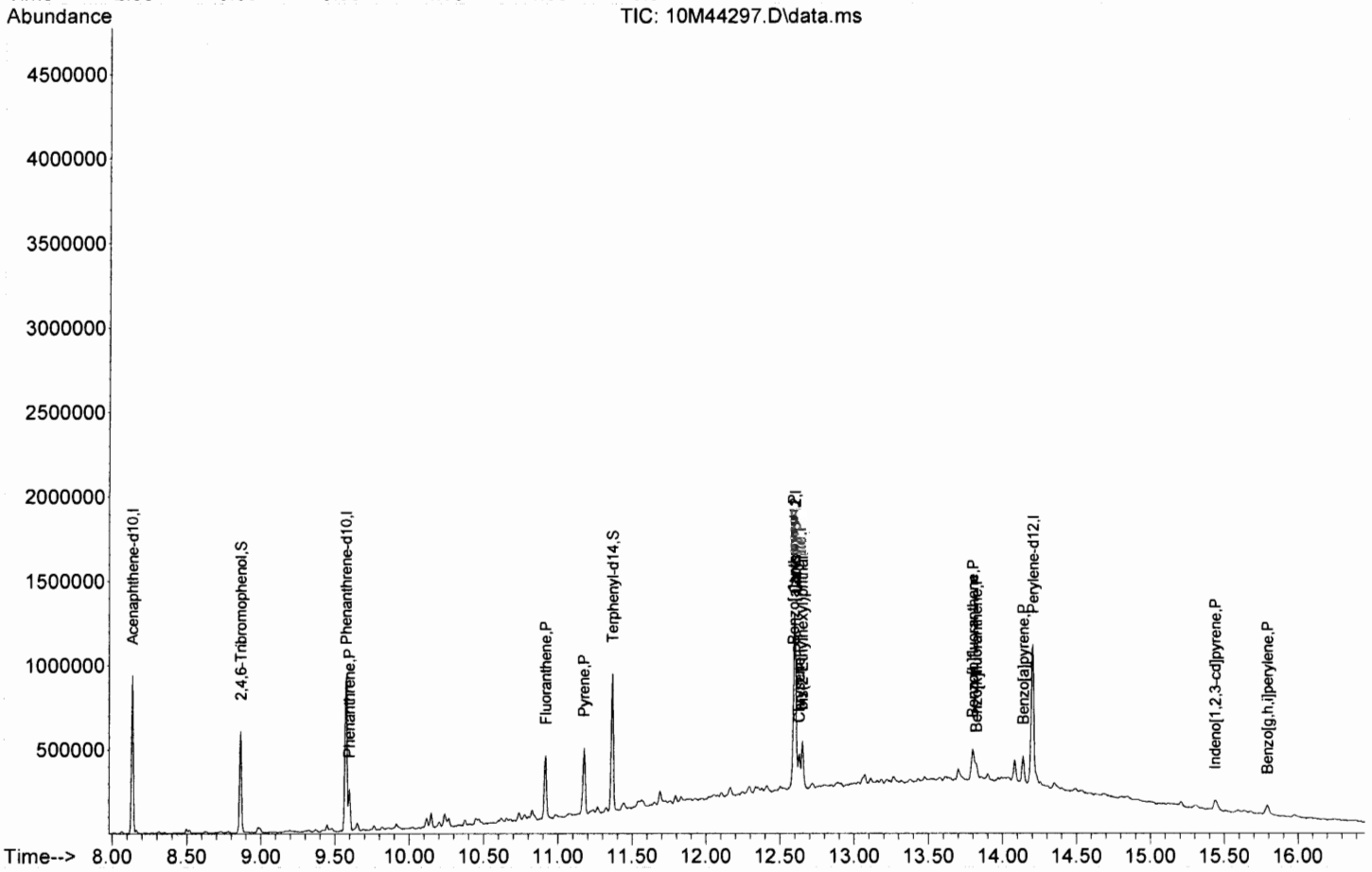
SampleID : AC78787-019 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44297.D Sam Mult : 1 Vial# : 21 Qt On : 05/28/14 10:27
Acq On : 05/27/14 16:28 Misc : S,BNA Qt Upd On: 05/20/14 09:26

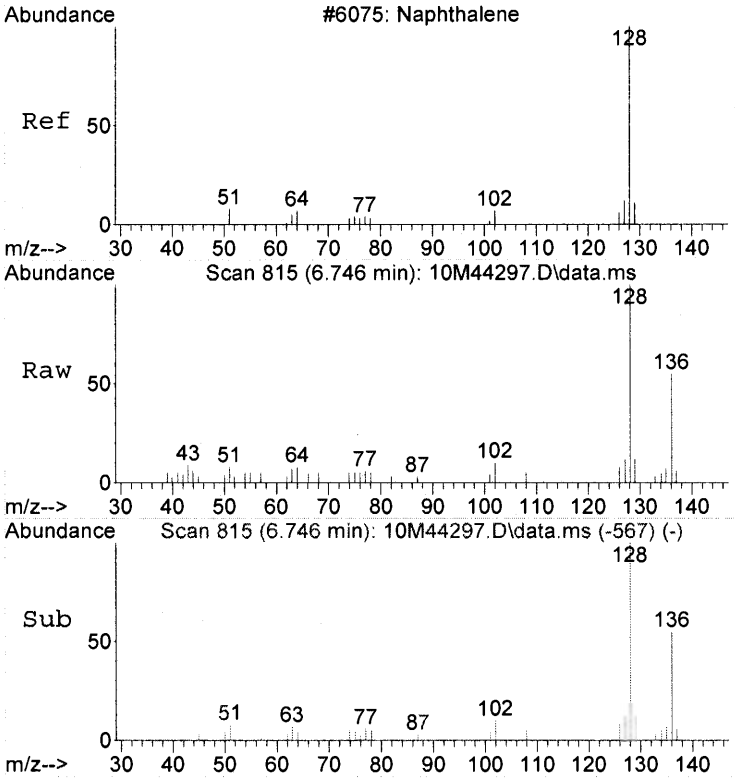
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	65194	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	291009	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	187530	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	358713	40.00	ng	0.00
88) Chrysene-d12	12.603	240	387443	40.00	ng	0.00
100) Perylene-d12	14.202	264	368314	40.00	ng	0.01
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	159601	64.33	ng	0.00
Spiked Amount 100.000			Recovery = 64.33%			
15) Phenol-d5	5.403	99	255865	72.91	ng	0.00
Spiked Amount 100.000			Recovery = 72.91%			
30) Nitrobenzene-d5	6.168	128	40362	29.96	ng	0.00
Spiked Amount 50.000			Recovery = 59.92%			
52) 2-Fluorobiphenyl	7.559	172	213748	30.94	ng	0.00
Spiked Amount 50.000			Recovery = 61.88%			
77) 2,4,6-Tribromophenol	8.864	330	75371	62.37	ng	0.00
Spiked Amount 100.000			Recovery = 62.37%			
91) Terphenyl-d14	11.367	244	268062	32.09	ng	0.00
Spiked Amount 50.000			Recovery = 64.18%			
Target Compounds						Qvalue
39) Naphthalene	6.746	128	5019	0.5958	ng	98
83) Phenanthrene	9.597	178	91752	8.8615	ng	99
87) Fluoranthene	10.918	202	159555	13.9711	ng	98
89) Pyrene	11.175	202	167922	14.0047	ng	98
97) Benzo[a]anthracene	12.592	228	103639	9.0910	ng	97
98) Chrysene	12.629	228	81257	7.8857	ng	99
99) bis(2-Ethylhexyl)phtha...	12.651	149	75705	11.3452	ng	91
102) Benzo[b]fluoranthene	13.795	252	101371m	9.2121	ng	
103) Benzo[k]fluoranthene	13.822	252	33191m	3.0153	ng	
104) Benzo[a]pyrene	14.138	252	74124	7.0432	ng	94
105) Indeno[1,2,3-cd]pyrene	15.437	276	39338	3.2602	ng	88
107) Benzo[g,h,i]perylene	15.790	276	38005	3.8124	ng	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44297.D\data.ms
Quant QT Reviewed
SampleID : AC78787-019
Data File: 10M44297.D
Acq On : 05/27/14 16:28
Operator : AHD/JB
Sam Mult : 1 Vial# : 21
Misc : S,BNA
Qt Meth : 10M_0519.M
Qt On : 05/28/14 10:27
Qt Upd On: 05/20/14 09:26
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->

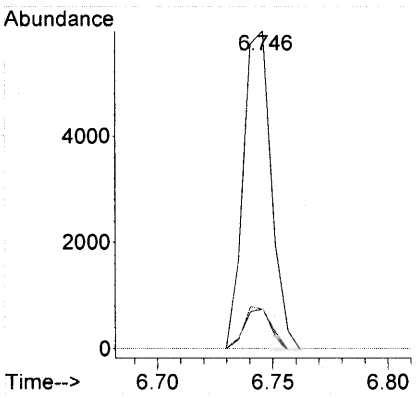

Abundance
TIC: 10M44297.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene,P
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

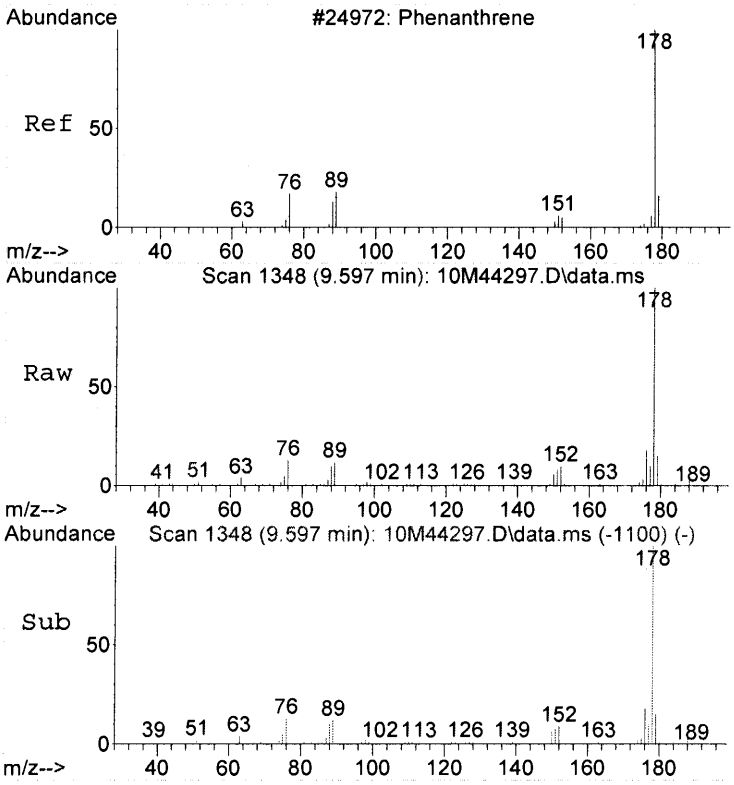


#39
Naphthalene
Concen: 0.60 ng
RT: 6.746 min Scan# 815
Delta R.T. -0.000 min
Lab File: 10M44297.D
Acq: 27 May 2014 16:28

Tgt Ion:128 Resp: 5019

Ion	Ratio	Lower	Upper
128	100		
129	12.4	0.0	50.9
127	12.4	0.0	52.4

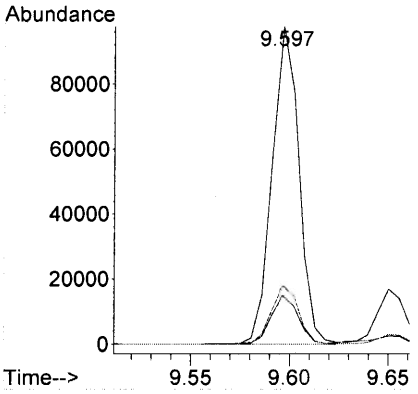


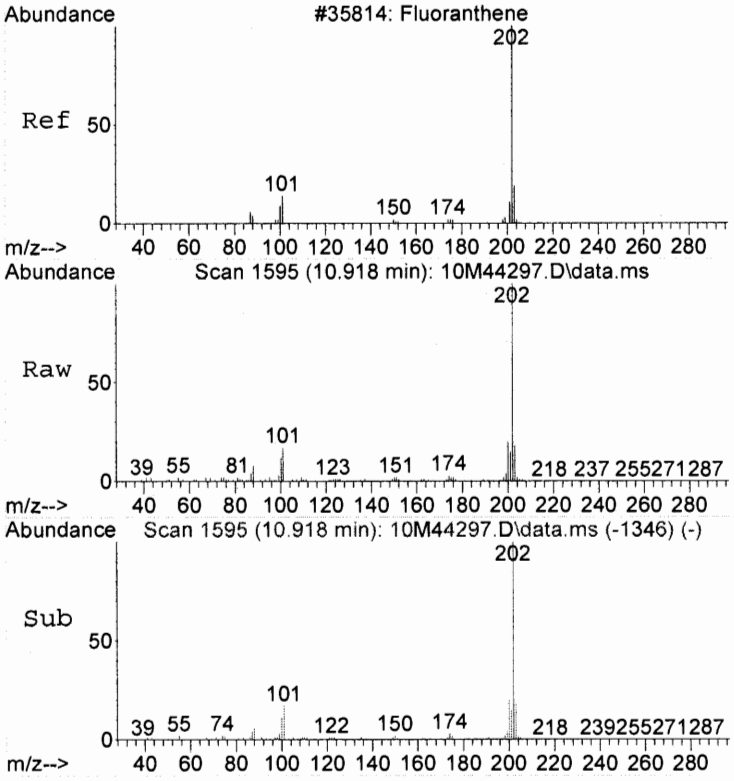


#83
Phenanthrene
Concen: 8.86 ng
RT: 9.597 min Scan# 1348
Delta R.T. -0.000 min
Lab File: 10M44297.D
Acq: 27 May 2014 16:28

Tgt Ion:178 Resp: 91752

Ion	Ratio	Lower	Upper
178	100		
179	15.4	0.0	55.5
176	18.4	0.0	59.3

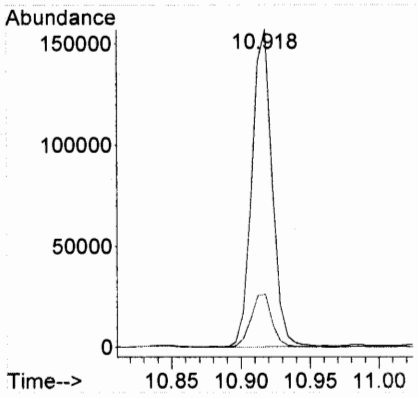


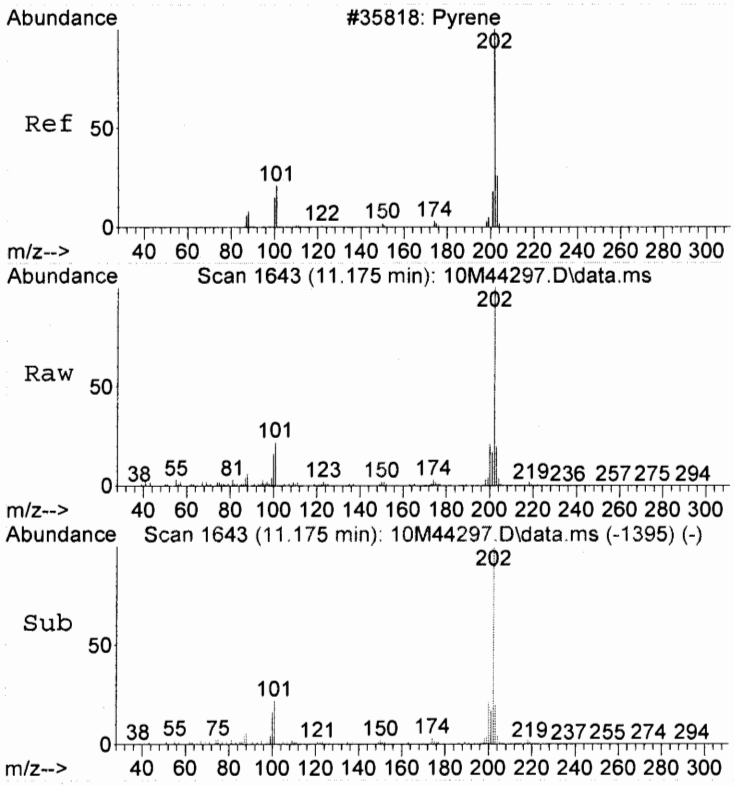


#87
Fluoranthene
Concen: 13.97 ng
RT: 10.918 min Scan# 1595
Delta R.T. 0.005 min
Lab File: 10M44297.D
Acq: 27 May 2014 16:28

Tgt Ion:202 Resp: 159555

Ion	Ratio	Lower	Upper
202	100		
101	16.5	0.0	57.6

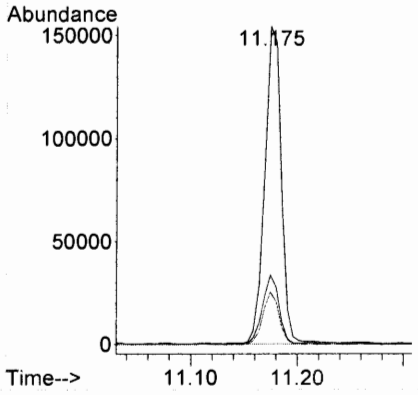


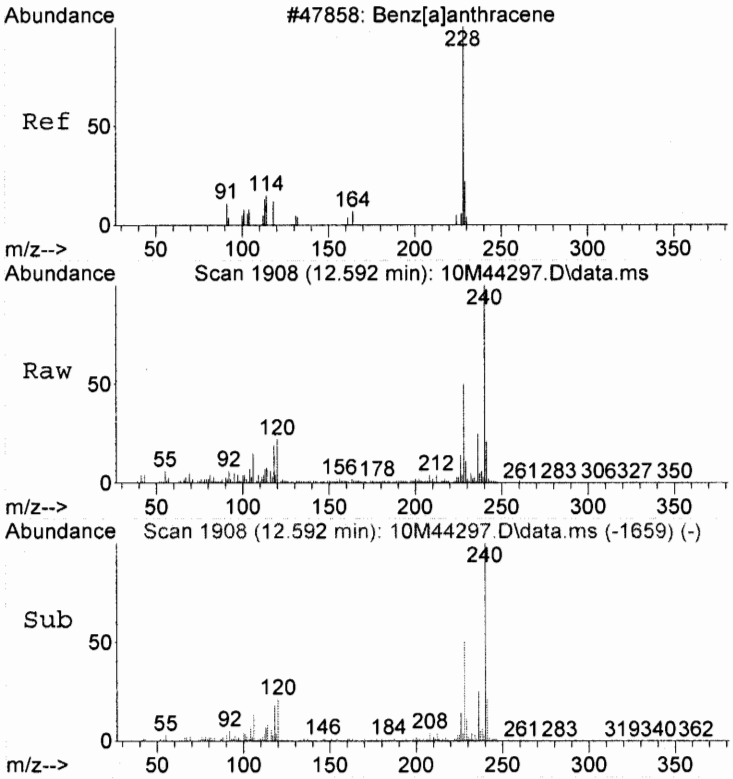


#89
Pyrene
Concen: 14.00 ng
RT: 11.175 min Scan# 1643
Delta R.T. -0.000 min
Lab File: 10M44297.D
Acq: 27 May 2014 16:28

Tgt Ion:202 Resp: 167922

Ion	Ratio	Lower	Upper
202	100		
101	21.8	0.0	62.2
100	16.5	0.0	57.8

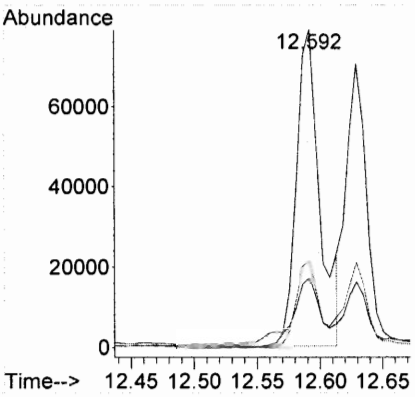


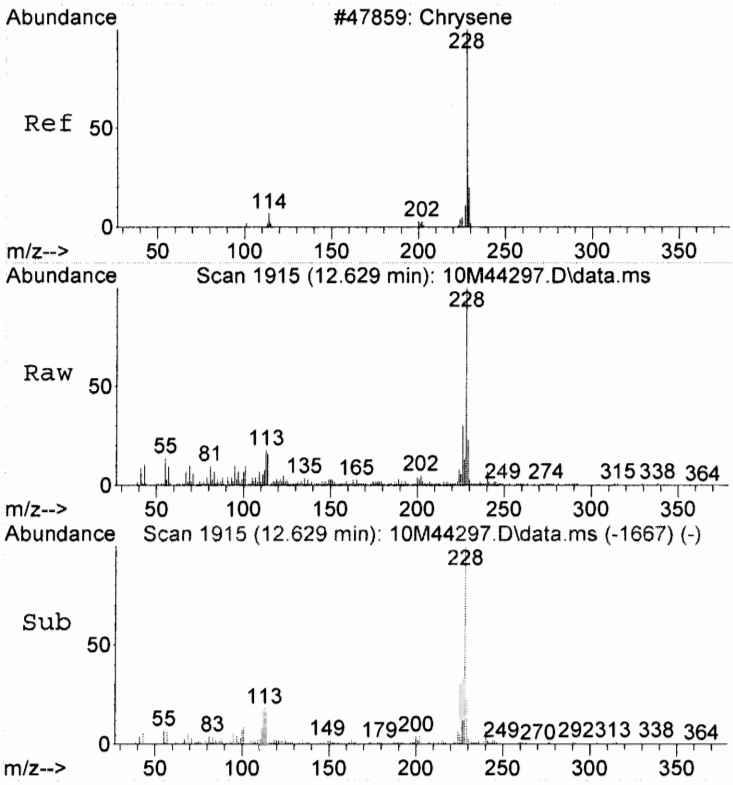


#97
Benzo[a]anthracene
Concen: 9.09 ng
RT: 12.592 min Scan# 1908
Delta R.T. 0.005 min
Lab File: 10M44297.D
Acq: 27 May 2014 16:28

Tgt Ion:228 Resp: 103639

Ion	Ratio	Lower	Upper
228	100		
229	21.2	0.0	59.5
226	27.3	0.0	66.0

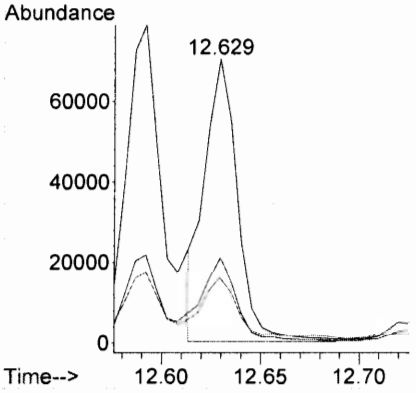


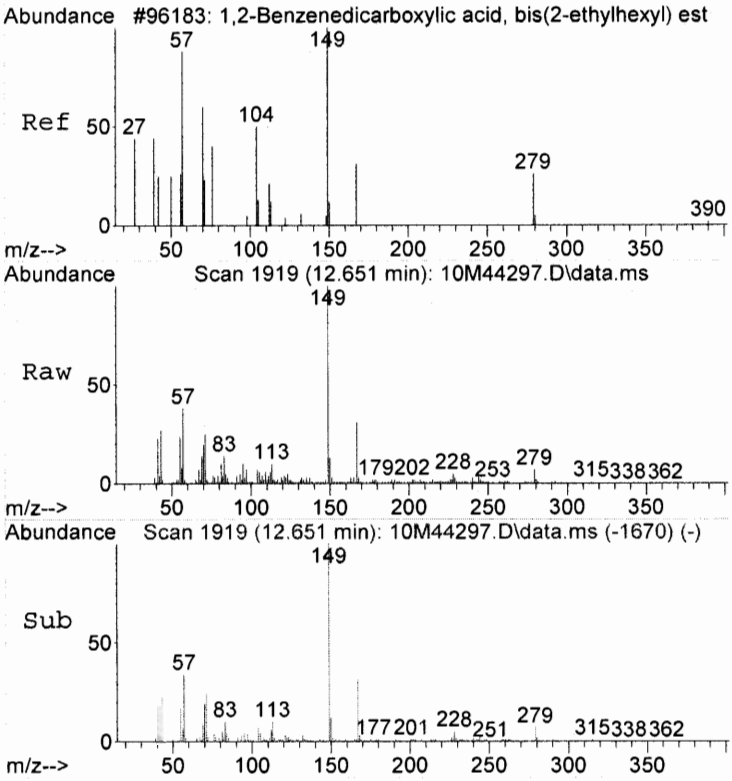


#98
Chrysene
Concen: 7.89 ng
RT: 12.629 min Scan# 1915
Delta R.T. -0.000 min
Lab File: 10M44297.D
Acq: 27 May 2014 16:28

Tgt Ion:228 Resp: 81257

Ion	Ratio	Lower	Upper
228	100		
226	29.5	9.5	49.5
229	21.5	0.0	60.2

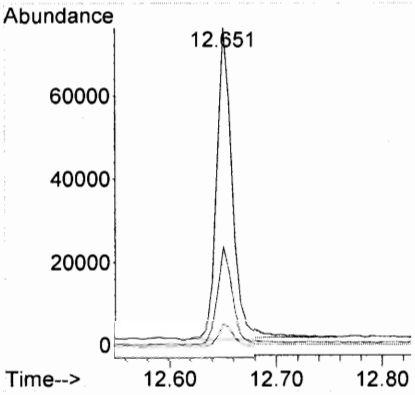


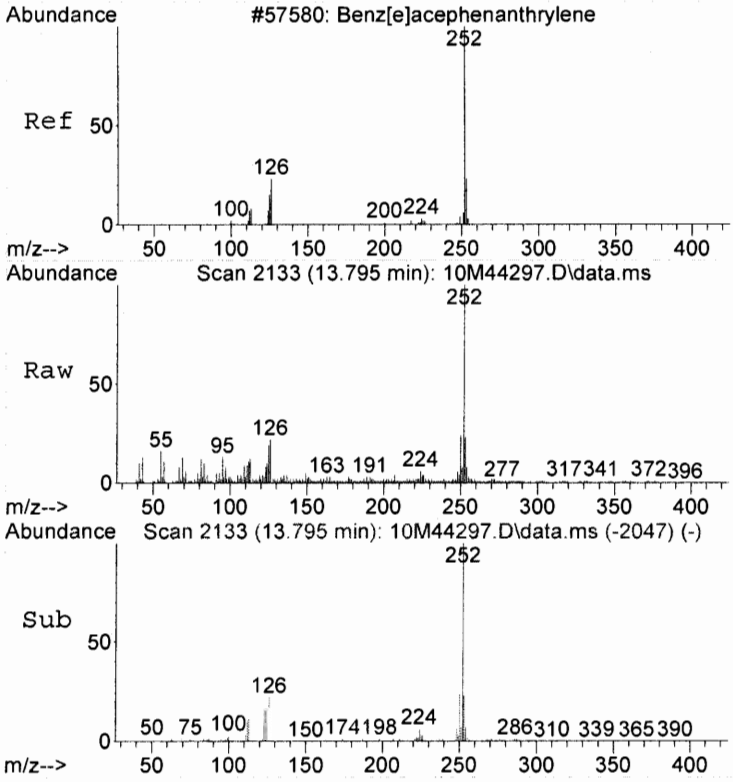


#99
bis(2-Ethylhexyl)phthalate
Concen: 11.35 ng
RT: 12.651 min Scan# 1919
Delta R.T. 0.006 min
Lab File: 10M44297.D
Acq: 27 May 2014 16:28

Tgt Ion:149 Resp: 75705

Ion	Ratio	Lower	Upper
149	100		
167	31.2	0.0	54.4
279	6.9	0.0	43.5

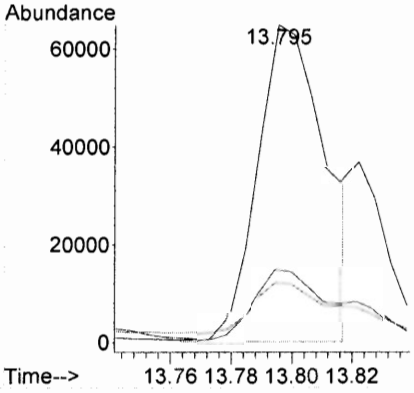


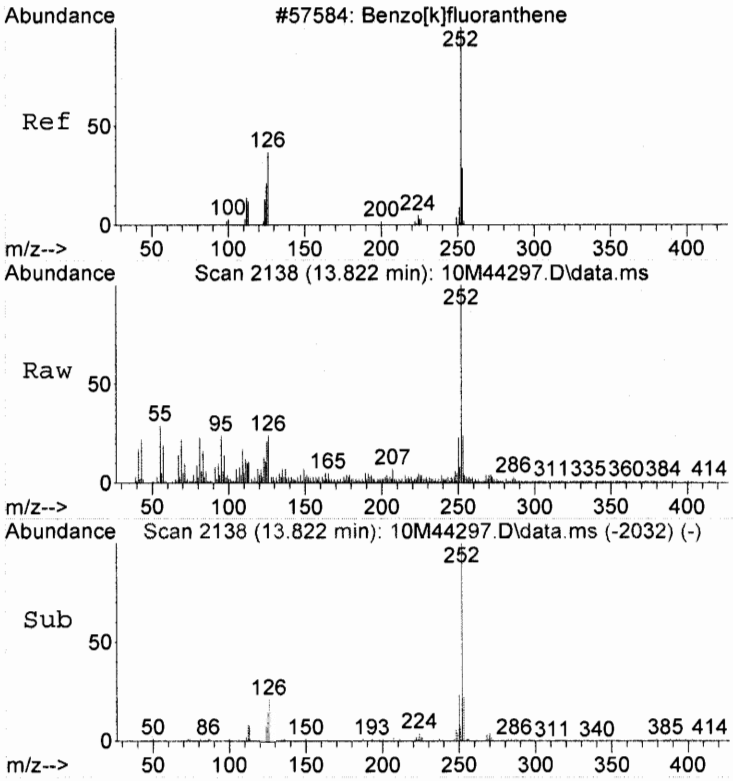


#102
Benzo[b]fluoranthene
Concen: 9.21 ng m
RT: 13.795 min Scan# 2133
Delta R.T. 0.005 min
Lab File: 10M44297.D
Acq: 27 May 2014 16:28

Tgt Ion:252 Resp: 101371

Ion	Ratio	Lower	Upper
252	100		
253	23.4	0.0	62.3
125	19.3	0.0	58.4

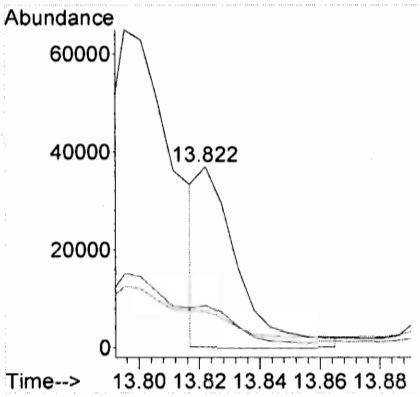


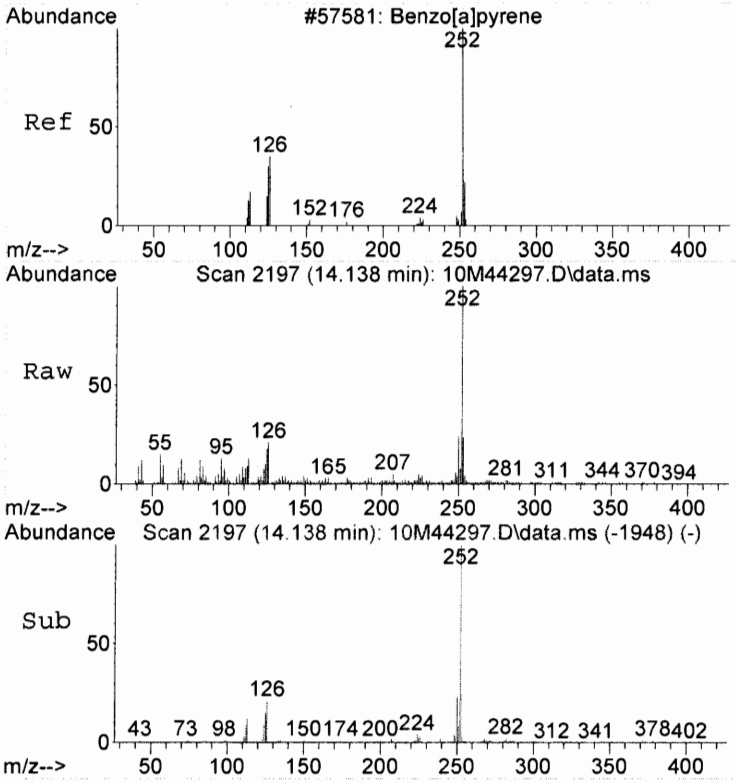


#103
Benzo[k]fluoranthene
Concen: 3.02 ng m
RT: 13.822 min Scan# 2138
Delta R.T. -0.000 min
Lab File: 10M44297.D
Acq: 27 May 2014 16:28

Tgt Ion:252 Resp: 33191

Ion	Ratio	Lower	Upper
252	100		
253	23.8	0.0	52.2
125	20.7	0.0	48.9

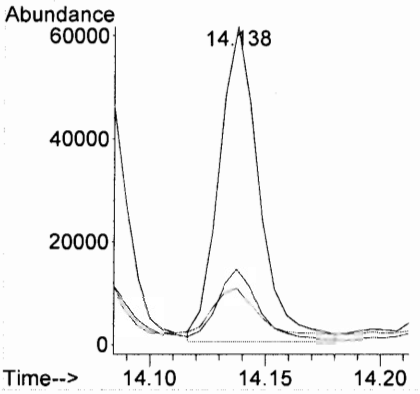


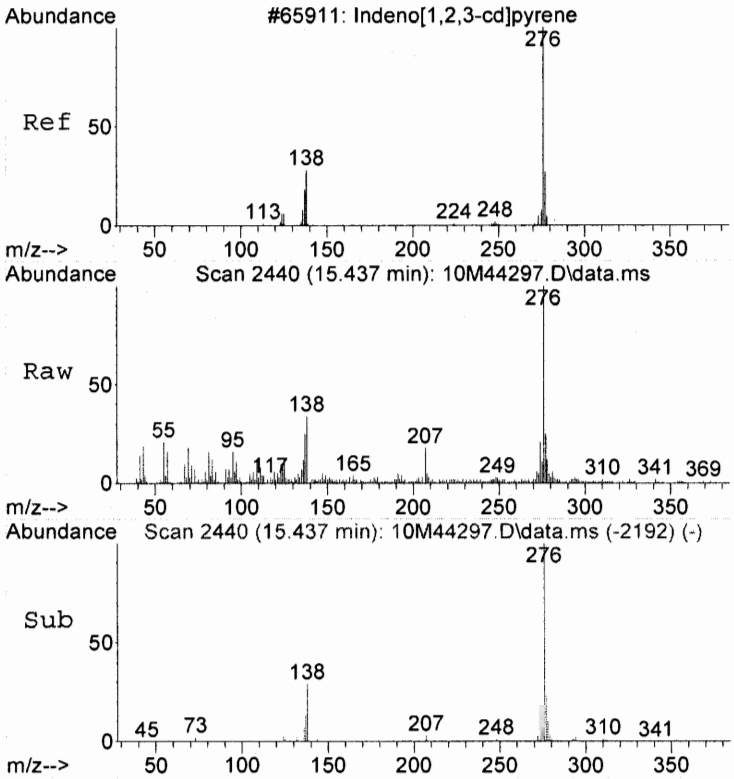


#104
Benzo[a]pyrene
Concen: 7.04 ng
RT: 14.138 min Scan# 2197
Delta R.T. 0.005 min
Lab File: 10M44297.D
Acq: 27 May 2014 16:28

Tgt Ion:252 Resp: 74124

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	62.4
125	14.9	0.0	60.9

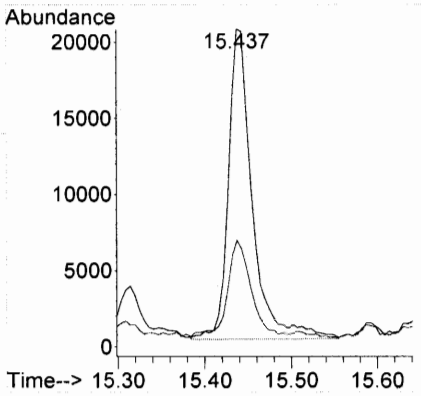


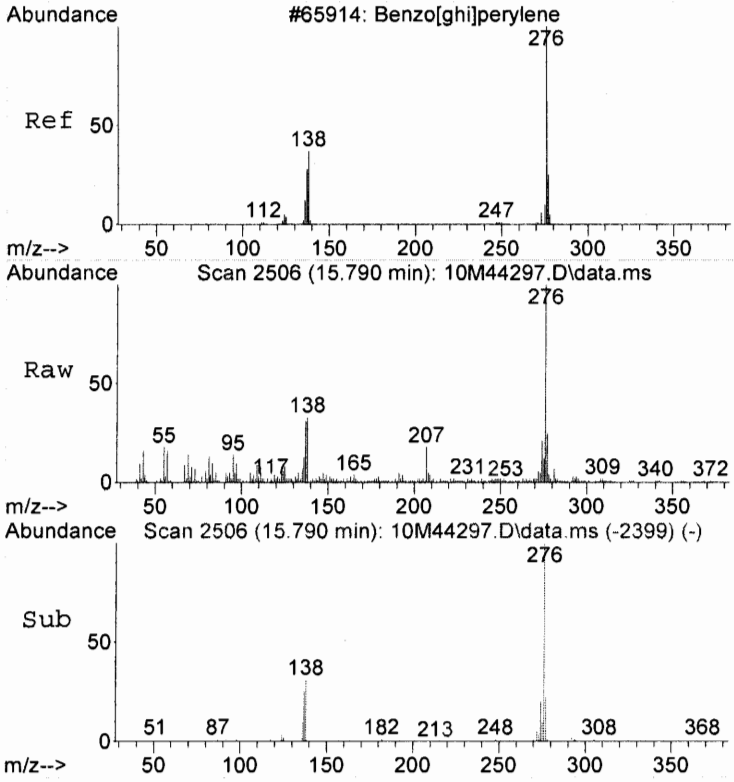


#105
Indeno[1,2,3-cd]pyrene
Concen: 3.26 ng
RT: 15.437 min Scan# 2440
Delta R.T. -0.000 min
Lab File: 10M44297.D
Acq: 27 May 2014 16:28

Tgt Ion:276 Resp: 39338

Ion	Ratio	Lower	Upper
276	100		
138	31.7	0.0	78.9

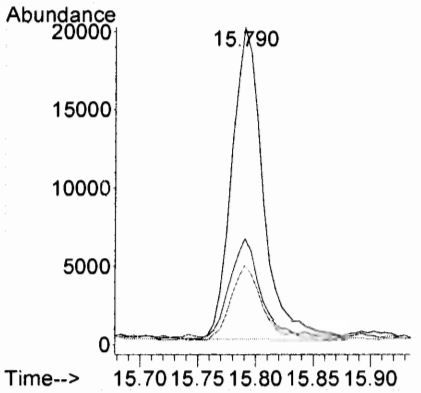




#107
Benzo[g,h,i]perylene
Concen: 3.81 ng
RT: 15.790 min Scan# 2506
Delta R.T. 0.005 min
Lab File: 10M44297.D
Acq: 27 May 2014 16:28

Tgt Ion:276 Resp: 38005

Ion	Ratio	Lower	Upper
276	100		
138	30.8	0.0	100.0
277	25.3	0.0	60.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-020
Client Id: SUMP1(3-5')
Data File: 10M44298.D
Analysis Date: 05/27/14 16:50
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 94

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.035	U	205-99-2	Benzo[b]fluoranthene	0.035	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	U	191-24-2	Benzo[g,h,i]perylene	0.035	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.035	U	207-08-9	Benzo[k]fluoranthene	0.035	U
95-95-4	2,4,5-Trichlorophenol	0.035	U	111-91-1	bis(2-Chloroethoxy)methan	0.035	U
88-06-2	2,4,6-Trichlorophenol	0.035	U	111-44-4	bis(2-Chloroethyl)ether	0.0089	U
120-83-2	2,4-Dichlorophenol	0.0089	U	108-60-1	bis(2-chloroisopropyl)ether	0.035	U
105-67-9	2,4-Dimethylphenol	0.0089	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.035**	**0.39**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.035	U
121-14-2	2,4-Dinitrotoluene	0.035	U	105-60-2	Caprolactam	0.035	U
606-20-2	2,6-Dinitrotoluene	0.035	U	86-74-8	Carbazole	0.035	U
91-58-7	2-Chloronaphthalene	0.035	U	218-01-9	Chrysene	0.035	U
95-57-8	2-Chlorophenol	0.035	U	53-70-3	Dibenzo[a,h]anthracene	0.035	U
91-57-6	2-Methylnaphthalene	0.035	U	132-64-9	Dibenzofuran	0.0089	U
95-48-7	2-Methylphenol	0.0089	U	84-66-2	Diethylphthalate	0.035	U
88-74-4	2-Nitroaniline	0.035	U	131-11-3	Dimethylphthalate	0.035	U
88-75-5	2-Nitrophenol	0.035	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0089	U	117-84-0	Di-n-octylphthalate	0.035	U
91-94-1	3,3'-Dichlorobenzidine	0.035	U	206-44-0	Fluoranthene	0.035	U
99-09-2	3-Nitroaniline	0.035	U	86-73-7	Fluorene	0.035	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.035	U
101-55-3	4-Bromophenyl-phenylether	0.035	U	87-68-3	Hexachlorobutadiene	0.035	U
59-50-7	4-Chloro-3-methylphenol	0.035	U	77-47-4	Hexachlorocyclopentadiene	0.035	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.035	U
7005-72-3	4-Chlorophenyl-phenylether	0.035	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.035	U
100-01-6	4-Nitroaniline	0.035	U	78-59-1	Isophorone	0.035	U
100-02-7	4-Nitrophenol	0.035	U	91-20-3	Naphthalene	0.0089	U
83-32-9	Acenaphthene	0.035	U	98-95-3	Nitrobenzene	0.035	U
208-96-8	Acenaphthylene	0.035	U	621-64-7	N-Nitroso-di-n-propylamine	0.0089	U
98-86-2	Acetophenone	0.035	U	86-30-6	n-Nitrosodiphenylamine	0.035	U
120-12-7	Anthracene	0.035	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.035	U	85-01-8	Phenanthrene	0.035	U
100-52-7	Benzaldehyde	0.035	U	108-95-2	Phenol	0.035	U
56-55-3	Benzo[a]anthracene	0.035	U	129-00-0	Pyrene	0.035	U
50-32-8	Benzo[a]pyrene	0.035	U				

Worksheet #: 304385

Total Target Concentration 0.39

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

SampleID : AC78787-020 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44298.D Sam Mult : 1 Vial# : 22 Qt On : 05/28/14 10:27
Acq On : 05/27/14 16:50 Misc : S,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	66402	40.00	ng	0.00
29) Naphthalene-d8	6.725	136	296640	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	191338	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	366409	40.00	ng	0.00
88) Chrysene-d12	12.597	240	412797	40.00	ng	0.00
100) Perylene-d12	14.197	264	391422	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	182399	72.18	ng	0.00
Spiked Amount 100.000			Recovery = 72.18%			
15) Phenol-d5	5.404	99	288536	80.72	ng	0.00
Spiked Amount 100.000			Recovery = 80.72%			
30) Nitrobenzene-d5	6.168	128	45945	33.45	ng	0.00
Spiked Amount 50.000			Recovery = 66.90%			
52) 2-Fluorobiphenyl	7.559	172	231083	32.78	ng	0.00
Spiked Amount 50.000			Recovery = 65.56%			
77) 2,4,6-Tribromophenol	8.864	330	73637	59.95	ng	0.00
Spiked Amount 100.000			Recovery = 59.95%			
91) Terphenyl-d14	11.367	244	326763	36.71	ng	0.00
Spiked Amount 50.000			Recovery = 73.42%			
Target Compounds						Qvalue
99) bis(2-Ethylhexyl)phtha...	12.651	149	158252	22.0709	ng	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

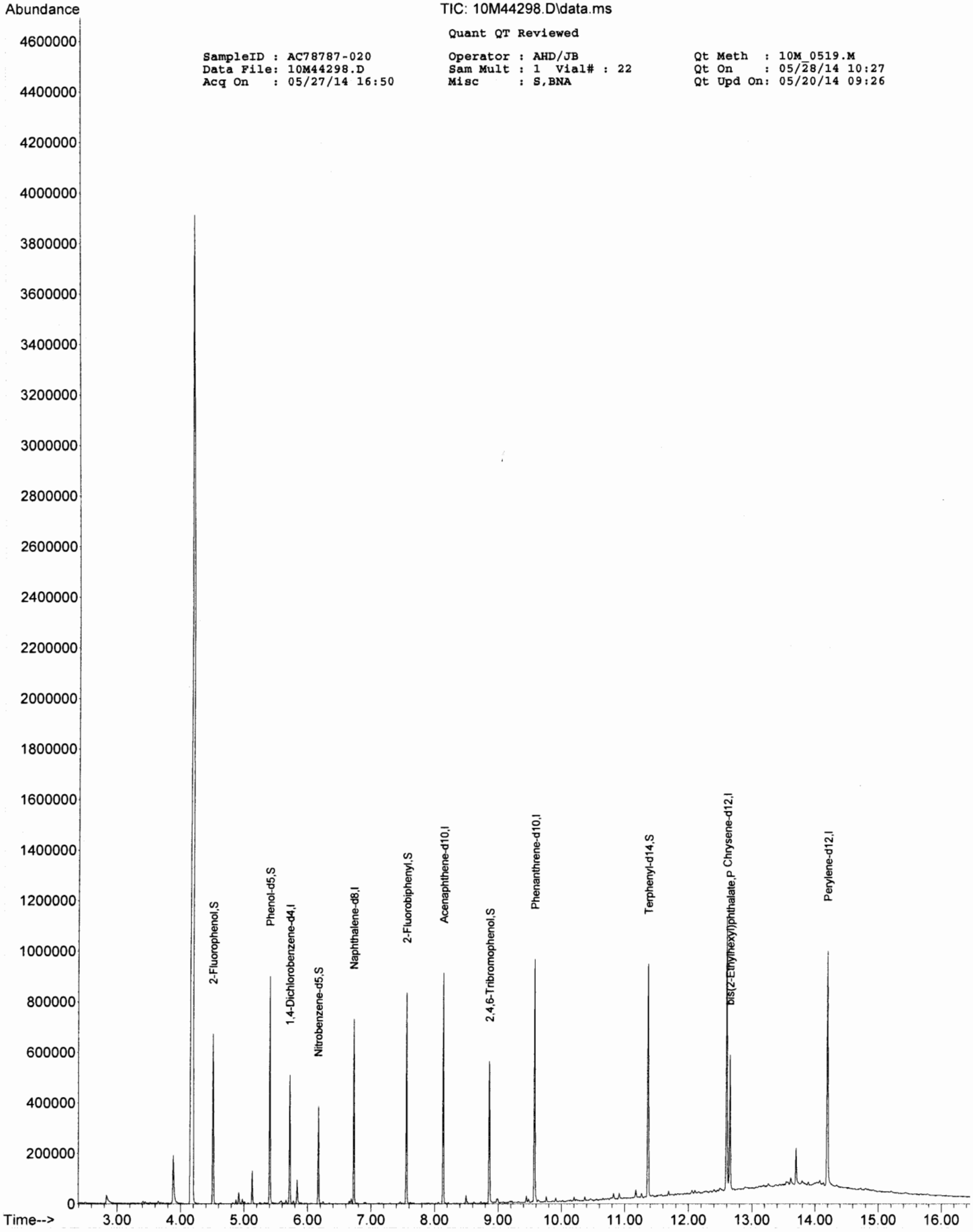
TIC: 10M44298.D\data.ms

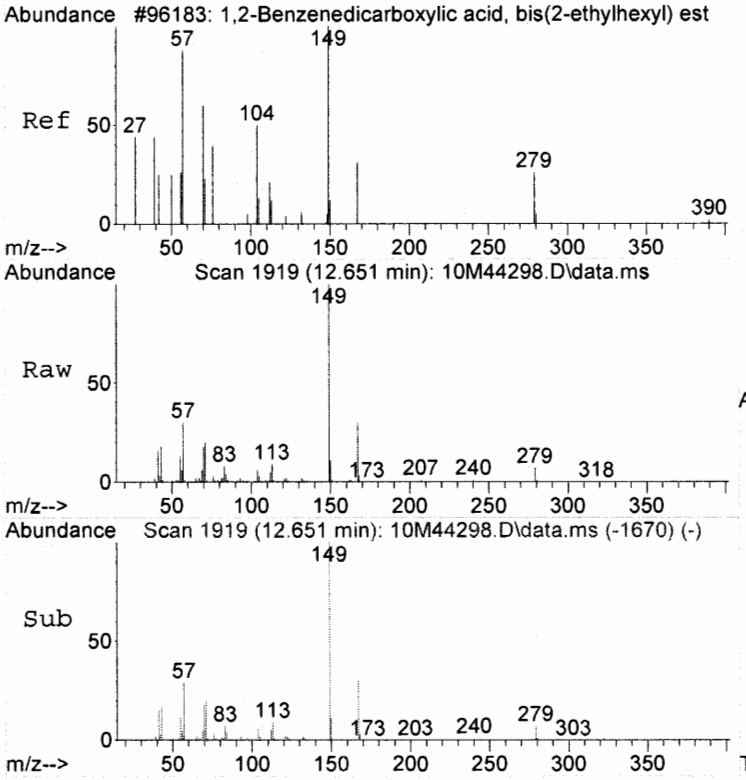
Quant QT Reviewed

SampleID : AC78787-020
Data File: 10M44298.D
Acq On : 05/27/14 16:50

Operator : AHD/JB
Sam Mult : 1 Vial# : 22
Misc : S,BNA

Qt Meth : 10M_0519.M
Qt On : 05/28/14 10:27
Qt Upd On: 05/20/14 09:26

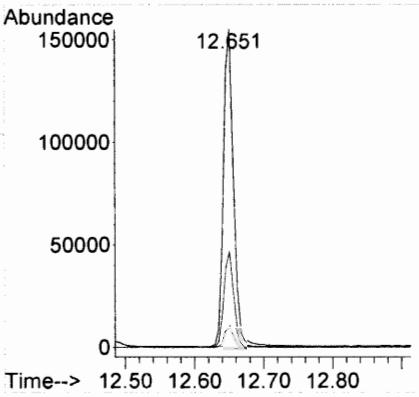




#99
bis(2-Ethylhexyl)phthalate
Concen: 22.07 ng
RT: 12.651 min Scan# 1919
Delta R.T. 0.006 min
Lab File: 10M44298.D
Acq: 27 May 2014 16:50

Tgt Ion:149 Resp: 158252

Ion	Ratio	Lower	Upper
149	100		
167	30.2	0.0	54.4
279	7.0	0.0	43.5



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-021
Client Id: BASE 1(0-2')
Data File: 9M57045.D
Analysis Date: 05/27/14 19:36
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	**1,1'-Biphenyl**	**0.037**	**0.056**	**205-99-2**	**Benzo[b]fluoranthene**	**0.037**	**0.21**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.037	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.037**	**0.17**
58-90-2	2,3,4,6-Tetrachlorophenol	0.037	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.037**	**0.071**
95-95-4	2,4,5-Trichlorophenol	0.037	U	111-91-1	bis(2-Chloroethoxy)methan	0.037	U
88-06-2	2,4,6-Trichlorophenol	0.037	U	111-44-4	bis(2-Chloroethyl)ether	0.0094	U
120-83-2	2,4-Dichlorophenol	0.0094	U	108-60-1	bis(2-chloroisopropyl)ether	0.037	U
105-67-9	2,4-Dimethylphenol	0.0094	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.037**	**0.61**
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.037	U
121-14-2	2,4-Dinitrotoluene	0.037	U	105-60-2	Caprolactam	0.037	U
606-20-2	2,6-Dinitrotoluene	0.037	U	86-74-8	Carbazole	0.037	U
91-58-7	2-Chloronaphthalene	0.037	U	**218-01-9**	**Chrysene**	**0.037**	**0.17**
95-57-8	2-Chlorophenol	0.037	U	53-70-3	Dibenzo[a,h]anthracene	0.037	U
91-57-6	**2-Methylnaphthalene**	**0.037**	**0.30**	**132-64-9**	**Dibenzofuran**	**0.0094**	**0.036**
95-48-7	2-Methylphenol	0.0094	U	84-66-2	Diethylphthalate	0.037	U
88-74-4	2-Nitroaniline	0.037	U	131-11-3	Dimethylphthalate	0.037	U
88-75-5	2-Nitrophenol	0.037	U	**84-74-2**	**Di-n-butylphthalate**	**0.019**	**0.044**
106-44-5	3&4-Methylphenol	0.0094	U	117-84-0	Di-n-octylphthalate	0.037	U
91-94-1	3,3'-Dichlorobenzidine	0.037	U	**206-44-0**	**Fluoranthene**	**0.037**	**0.32**
99-09-2	3-Nitroaniline	0.037	U	86-73-7	Fluorene	0.037	U
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.037	U
101-55-3	4-Bromophenyl-phenylether	0.037	U	87-68-3	Hexachlorobutadiene	0.037	U
59-50-7	4-Chloro-3-methylphenol	0.037	U	77-47-4	Hexachlorocyclopentadiene	0.037	U
106-47-8	4-Chloroaniline	0.018	U	67-72-1	Hexachloroethane	0.037	U
7005-72-3	4-Chlorophenyl-phenylether	0.037	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.037**	**0.13**
100-01-6	4-Nitroaniline	0.037	U	78-59-1	Isophorone	0.037	U
100-02-7	4-Nitrophenol	0.037	U	**91-20-3**	**Naphthalene**	**0.0094**	**0.11**
83-32-9	Acenaphthene	0.037	U	98-95-3	Nitrobenzene	0.037	U
208-96-8	Acenaphthylene	0.037	U	621-64-7	N-Nitroso-di-n-propylamine	0.0094	U
98-86-2	Acetophenone	0.037	U	86-30-6	n-Nitrosodiphenylamine	0.037	U
120-12-7	**Anthracene**	**0.037**	**0.051**	87-86-5	Pentachlorophenol	0.19	U
1912-24-9	Atrazine	0.037	U	**85-01-8**	**Phenanthrene**	**0.037**	**0.28**
100-52-7	Benzaldehyde	0.037	U	108-95-2	Phenol	0.037	U
56-55-3	**Benzo[a]anthracene**	**0.037**	**0.19**	**129-00-0**	**Pyrene**	**0.037**	**0.36**
50-32-8	**Benzo[a]pyrene**	**0.037**	**0.15**				

Worksheet #: 304385 ***Total Target Concentration*** 3.3 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

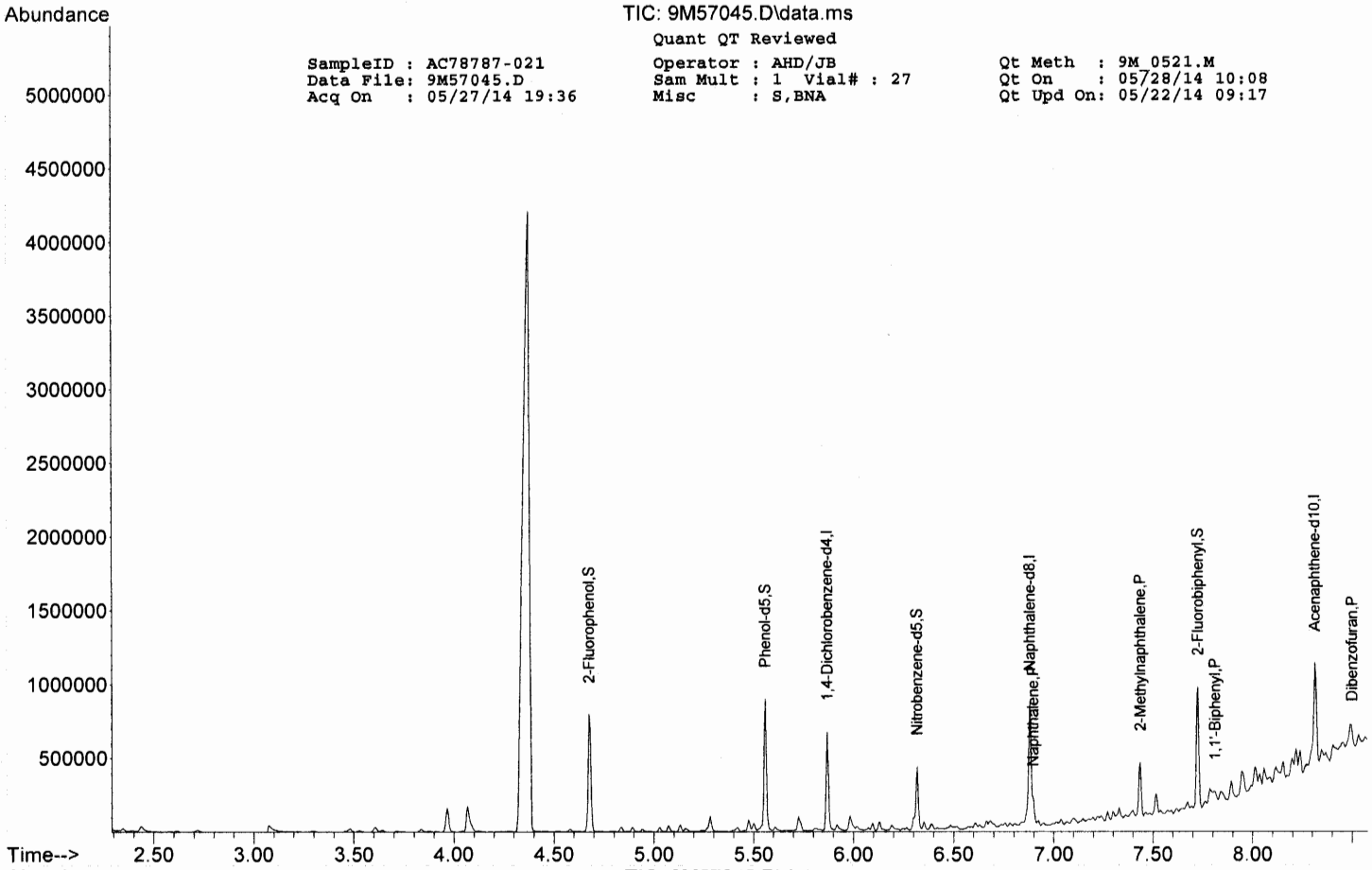
Quantitation Report (QT Reviewed)

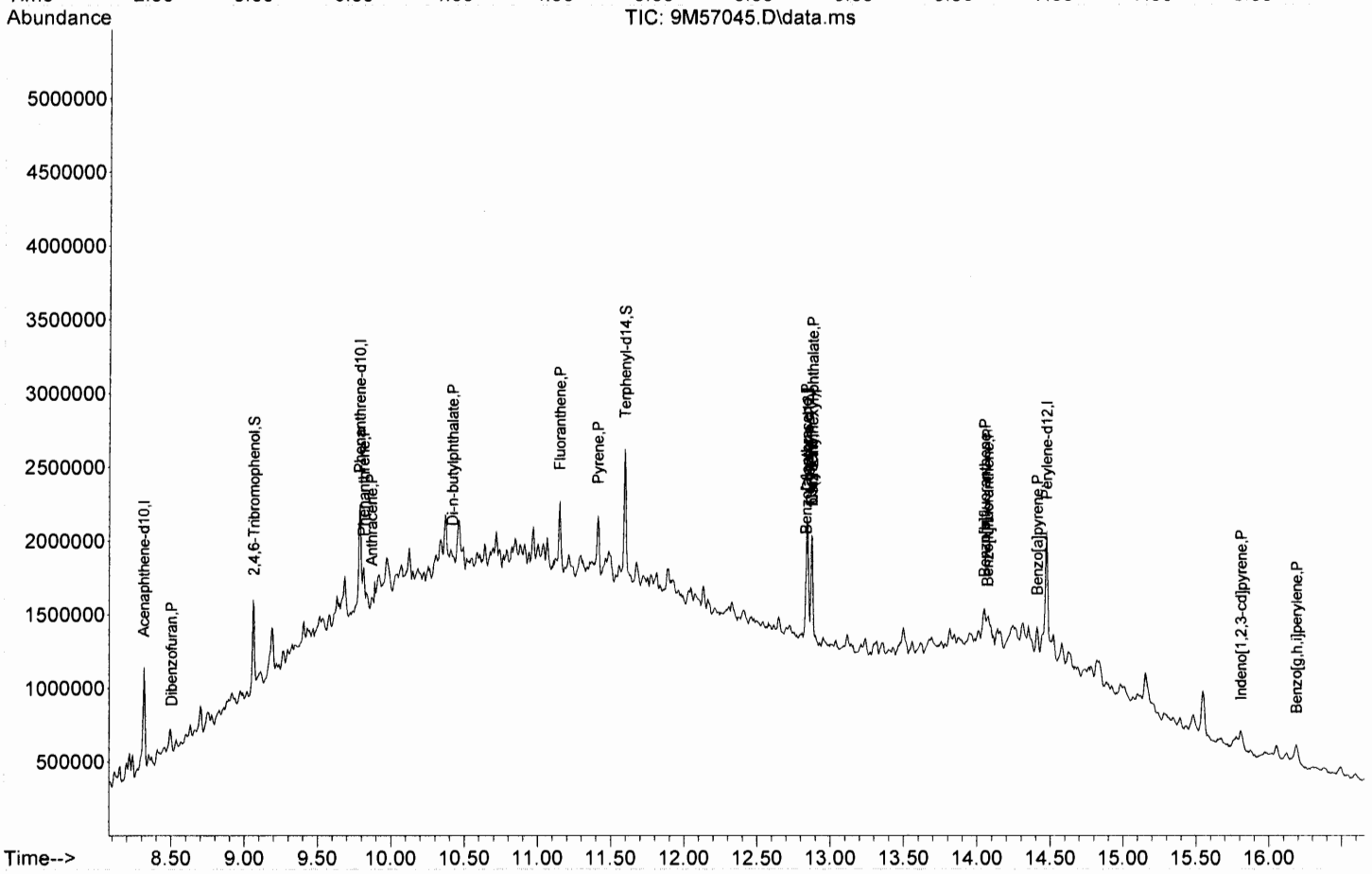
SampleID : AC78787-021 Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57045.D Sam Mult : 1 Vial# : 27 Qt On : 05/28/14 10:08
Acq On : 05/27/14 19:36 Misc : S,BNA Qt Upd On: 05/22/14 09:17

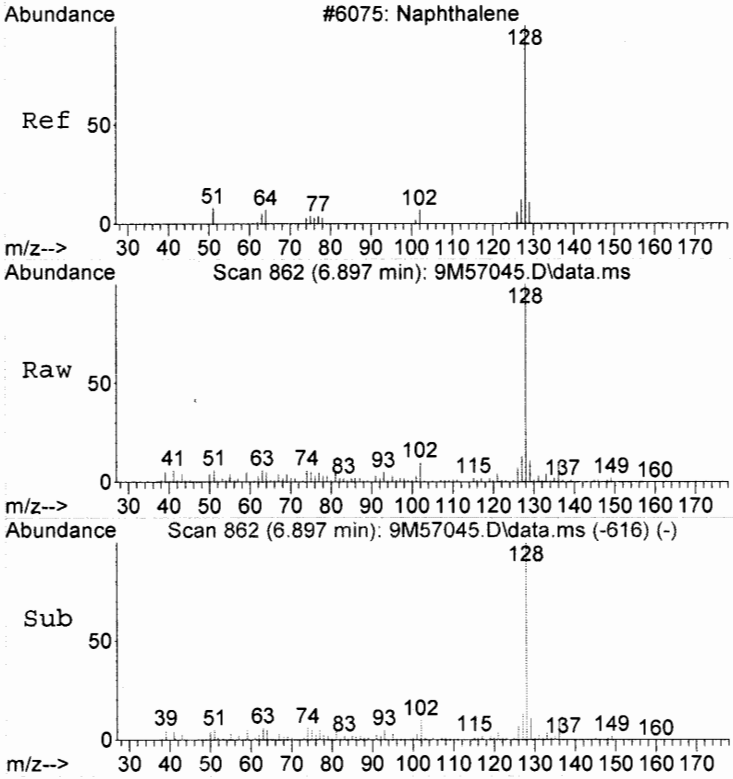
Data Path : G:\GcMsData\2014\GCMS_9\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
7) 1,4-Dichlorobenzene-d4	5.870	152	83050	40.00 ng	-0.01
29) Naphthalene-d8	6.881	136	297531	40.00 ng	-0.01
47) Acenaphthene-d10	8.315	164	144989	40.00 ng	-0.02
74) Phenanthrene-d10	9.786	188	251285	40.00 ng	-0.01
88) Chrysene-d12	12.845	240	304875	40.00 ng	0.00
100) Perylene-d12	14.471	264	319819	40.00 ng	0.00
System Monitoring Compounds					
10) 2-Fluorophenol	4.678	112	203724	69.18 ng	0.00
Spiked Amount 100.000			Recovery = 69.18%		
15) Phenol-d5	5.560	99	262717	68.68 ng	0.00
Spiked Amount 100.000			Recovery = 68.68%		
30) Nitrobenzene-d5	6.320	128	57930	41.00 ng	-0.01
Spiked Amount 50.000			Recovery = 82.00%		
52) 2-Fluorobiphenyl	7.726	172	238218	44.01 ng	-0.01
Spiked Amount 50.000			Recovery = 88.02%		
77) 2,4,6-Tribromophenol	9.063	330	64416	72.10 ng	-0.01
Spiked Amount 100.000			Recovery = 72.10%		
91) Terphenyl-d14	11.593	244	277273	40.72 ng	0.00
Spiked Amount 50.000			Recovery = 81.44%		
Target Compounds					Qvalue
39) Naphthalene	6.897	128	51733	5.8718 ng	98
44) 2-Methylnaphthalene	7.438	142	98426	16.0189 ng	97
46) 1,1'-Biphenyl	7.812	154	22857	2.9692 ng	93
65) Dibenzofuran	8.502	168	12794	1.9062 ng	86
83) Phenanthrene	9.812	178	111929	15.0111 ng	98
84) Anthracene	9.866	178	20496	2.7101 ng	83
86) Di-n-butylphthalate	10.417	149	21002	2.3427 ng	93
87) Fluoranthene	11.149	202	154418	17.0565 ng	88
89) Pyrene	11.412	202	185060	19.4675 ng	81
97) Benzo[a]anthracene	12.834	228	95519	10.1095 ng	96
98) Chrysene	12.872	228	80630	9.2082 ng	97
99) bis(2-Ethylhexyl)phtha...	12.877	149	199489	32.3583 ng	92
102) Benzo[b]fluoranthene	14.048	252	114827m	11.0085 ng	
103) Benzo[k]fluoranthene	14.070	252	37833m	3.7966 ng	
104) Benzo[a]pyrene	14.407	252	80232	8.2278 ng	89
105) Indeno[1,2,3-cd]pyrene	15.808	276	76217	6.9095 ng	70
107) Benzo[g,h,i]perylene	16.188	276	82268	9.0309 ng	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M57045.D\data.ms
Quant QT Reviewed
SampleID : AC78787-021
Data File: 9M57045.D
Acq On : 05/27/14 19:36
Operator : AHD/JB
Sam Mult : 1 Vial# : 27
Misc : S,BNA
Qt Meth : 9M_0521.M
Qt On : 05/28/14 10:08
Qt Upd On: 05/22/14 09:17
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Methylnaphthalene,P
2-Fluorobiphenyl,S
1,1'-Biphenyl,P
Acenaphthene-d10,I
Dibenzofuran,P
Time-->

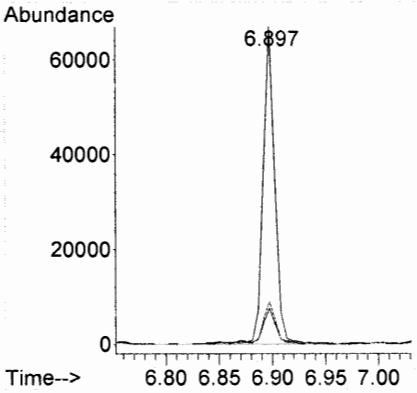

Abundance
TIC: 9M57045.D\data.ms
Acenaphthene-d10,I
Dibenzofuran,P
2,4,6-Tribromophenol,S
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

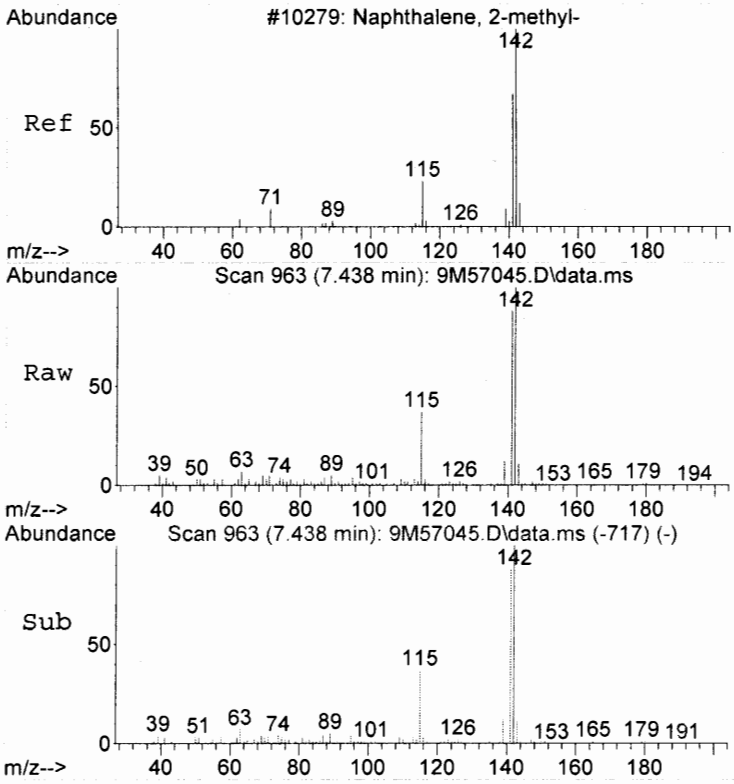


#39
Naphthalene
Concen: 5.87 ng
RT: 6.897 min Scan# 862
Delta R.T. -0.011 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:128 Resp: 51733

Ion	Ratio	Lower	Upper
128	100		
129	11.3	0.0	50.9
127	13.4	0.0	52.4

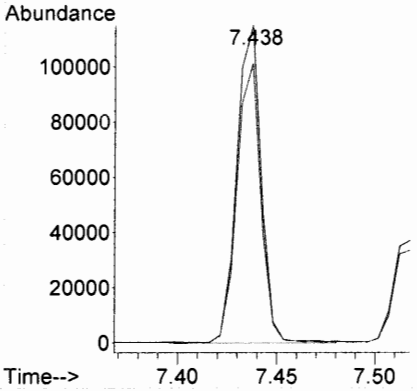


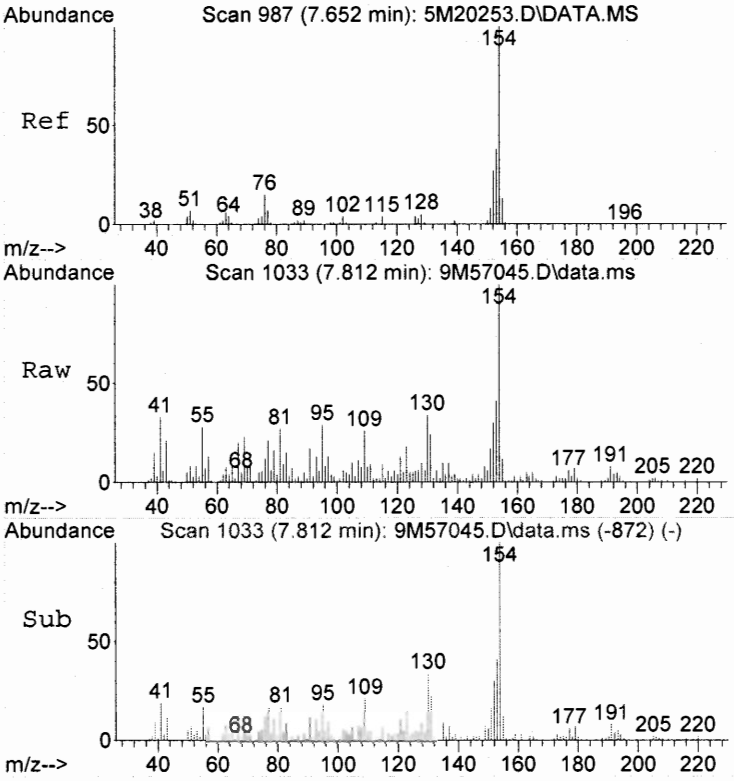


#44
2-Methylnaphthalene
Concen: 16.02 ng
RT: 7.438 min Scan# 963
Delta R.T. -0.011 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:142 Resp: 98426

Ion	Ratio	Lower	Upper
142	100		
141	87.8	44.6	124.6

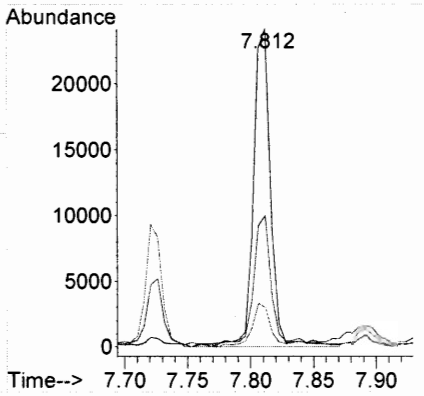


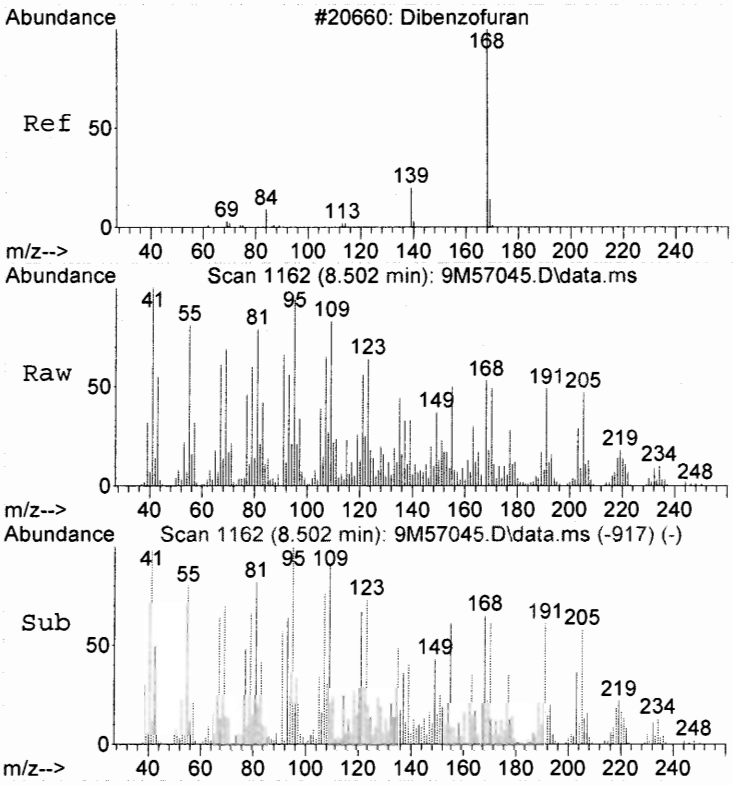


#46
1,1'-Biphenyl
Concen: 2.97 ng
RT: 7.812 min Scan# 1033
Delta R.T. -0.011 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:154 Resp: 22857

Ion	Ratio	Lower	Upper
154	100		
153	40.0	19.2	59.2
76	12.3	0.5	40.5

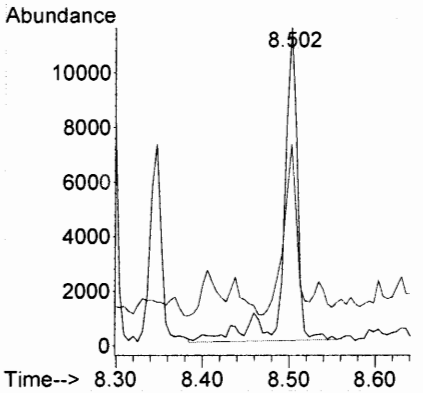


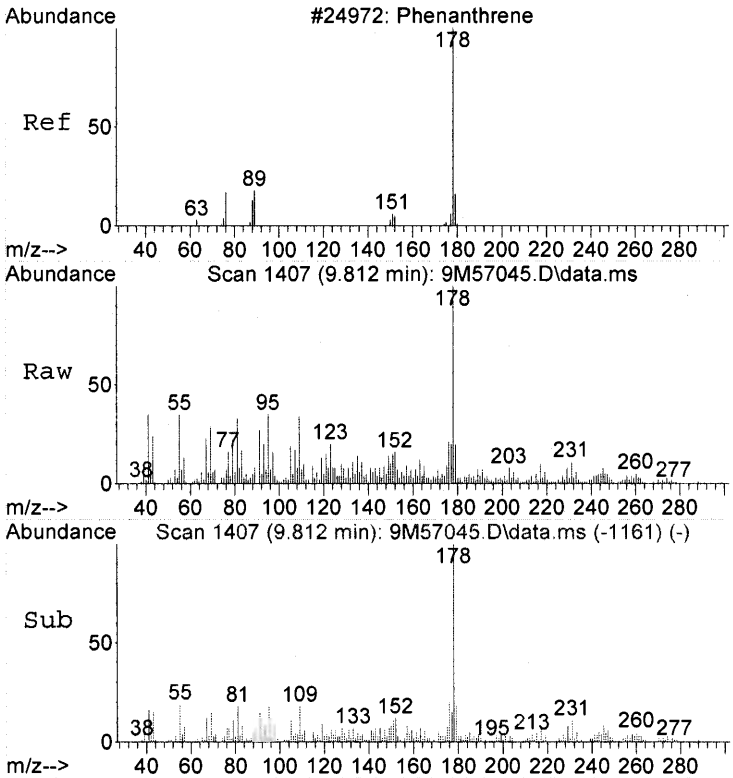


#65
Dibenzofuran
Concen: 1.91 ng
RT: 8.502 min Scan# 1162
Delta R.T. -0.016 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:168 Resp: 12794

Ion	Ratio	Lower	Upper
168	100		
139	55.0	0.0	246.0

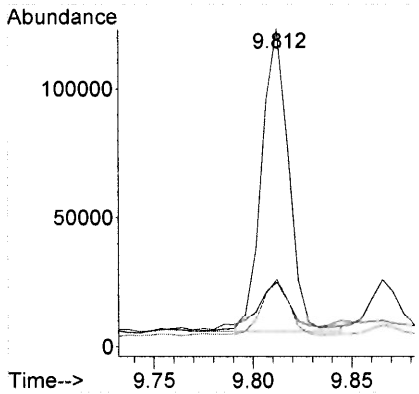


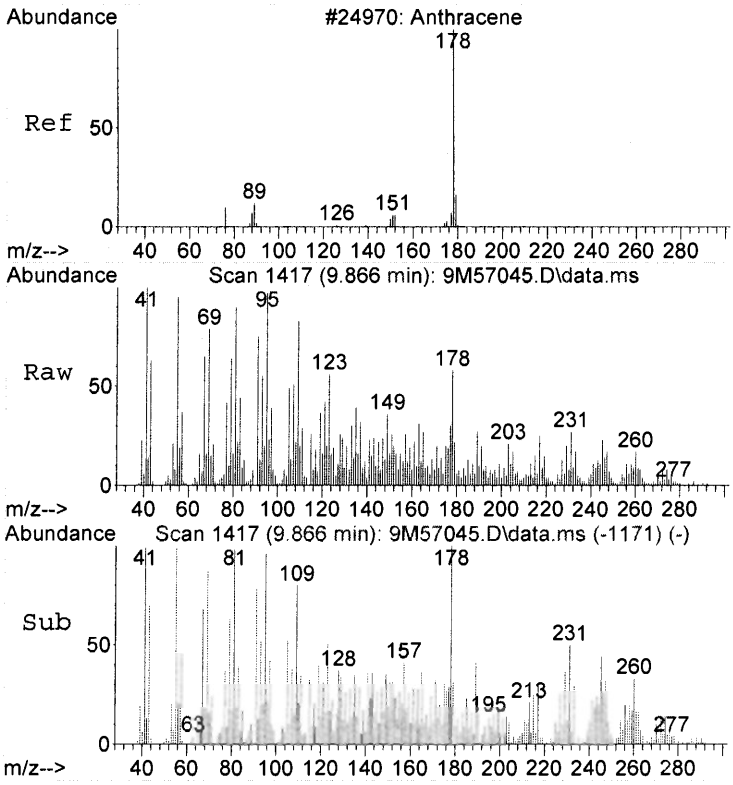


#83
Phenanthrene
Concen: 15.01 ng
RT: 9.812 min Scan# 1407
Delta R.T. -0.011 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:178 Resp: 111929

Ion	Ratio	Lower	Upper
178	100		
179	15.8	0.0	55.5
176	18.1	0.0	59.3

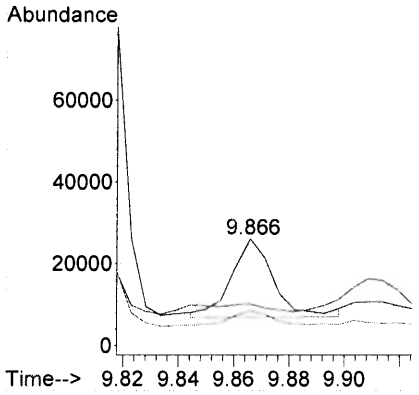


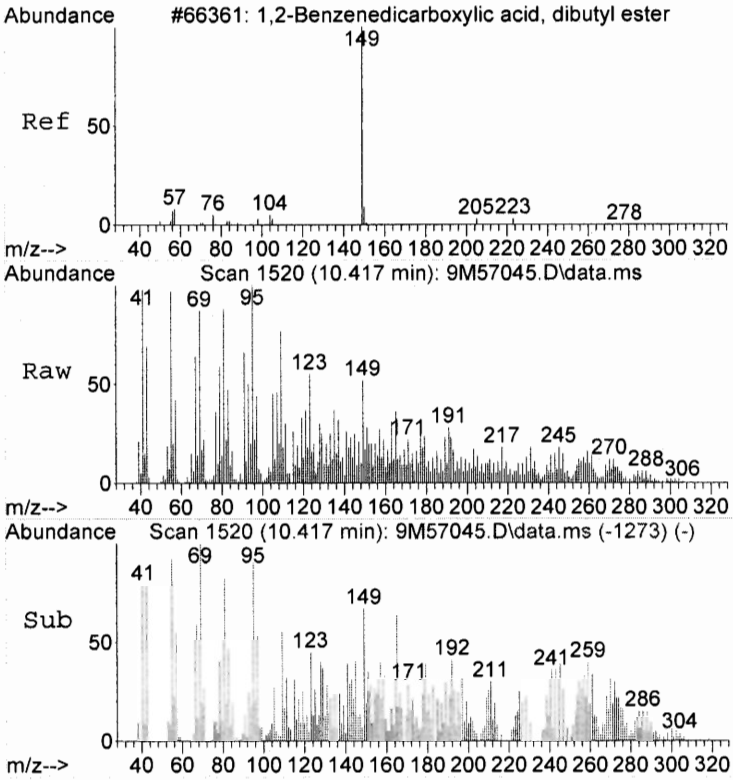


#84
Anthracene
Concen: 2.71 ng
RT: 9.866 min Scan# 1417
Delta R.T. -0.011 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:178 Resp: 20496

Ion	Ratio	Lower	Upper
178	100		
179	0.4	0.0	55.2
176	18.6	0.0	58.1

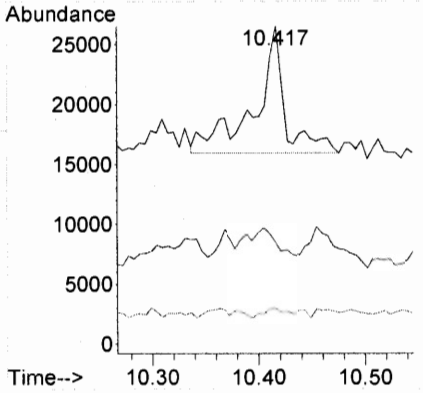


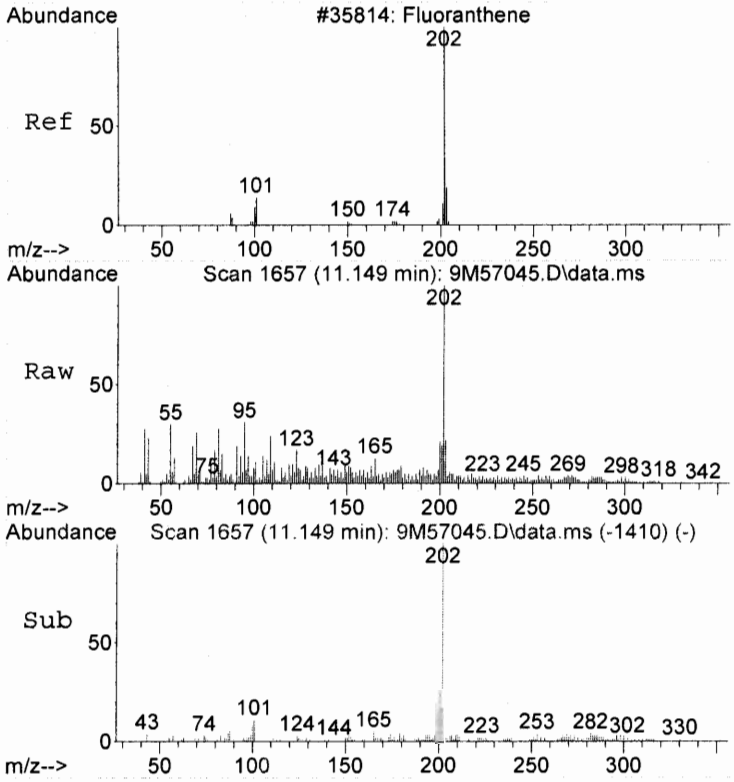


#86
Di-n-butylphthalate
Concen: 2.34 ng
RT: 10.417 min Scan# 1520
Delta R.T. -0.005 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:149 Resp: 21002

Ion	Ratio	Lower	Upper
149	100		
150	6.1	0.0	49.3
104	5.0	0.0	46.7

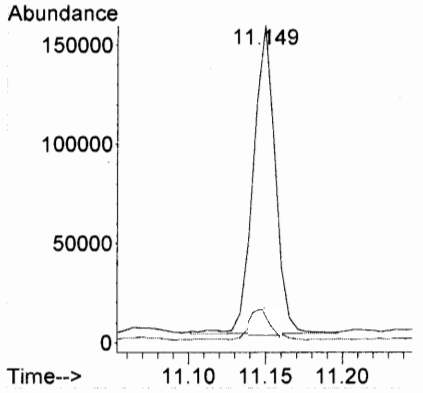


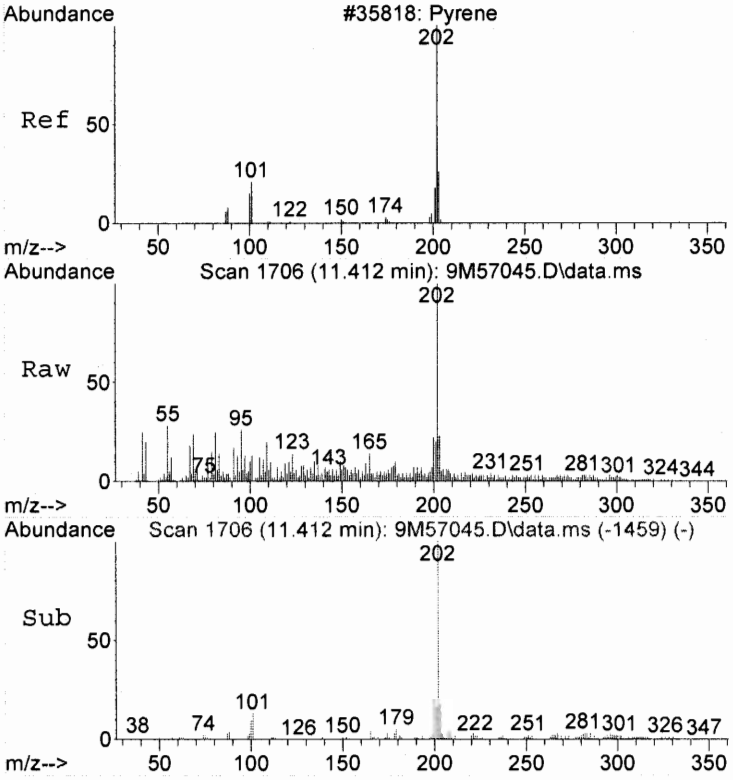


#87
Fluoranthene
Concen: 17.06 ng
RT: 11.149 min Scan# 1657
Delta R.T. -0.005 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:202 Resp: 154418

Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	57.6

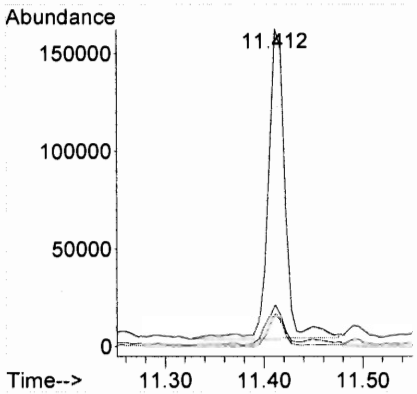


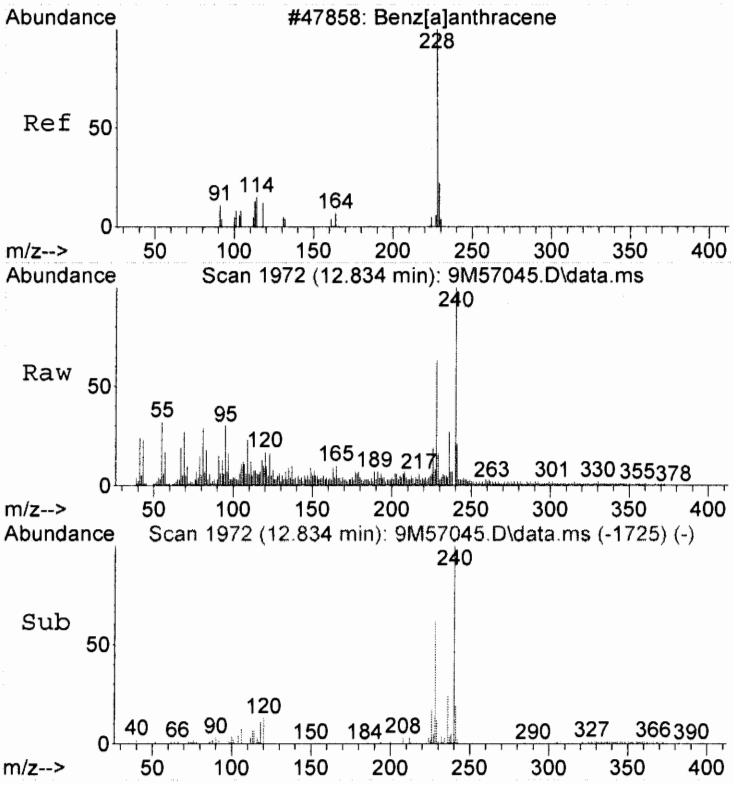


#89
Pyrene
Concen: 19.47 ng
RT: 11.412 min Scan# 1706
Delta R.T. -0.005 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:202 Resp: 185060

Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	62.2
100	10.2	0.0	57.8

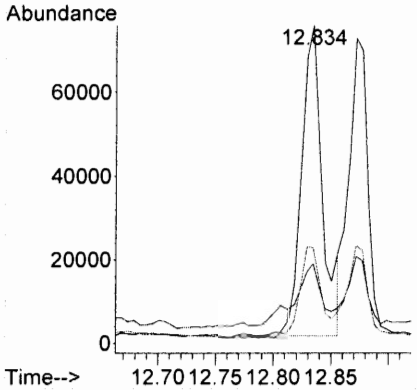


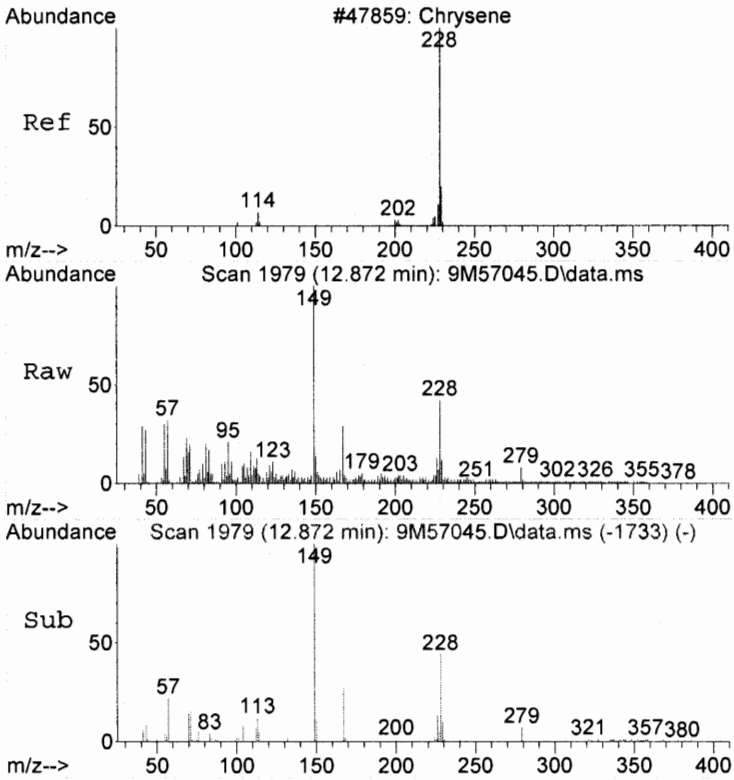


#97
Benzo[a]anthracene
Concen: 10.11 ng
RT: 12.834 min Scan# 1972
Delta R.T. -0.005 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:228 Resp: 95519

Ion	Ratio	Lower	Upper
228	100		
229	20.6	0.0	59.5
226	28.4	0.0	66.0

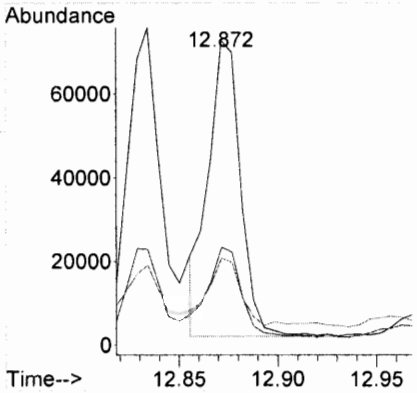


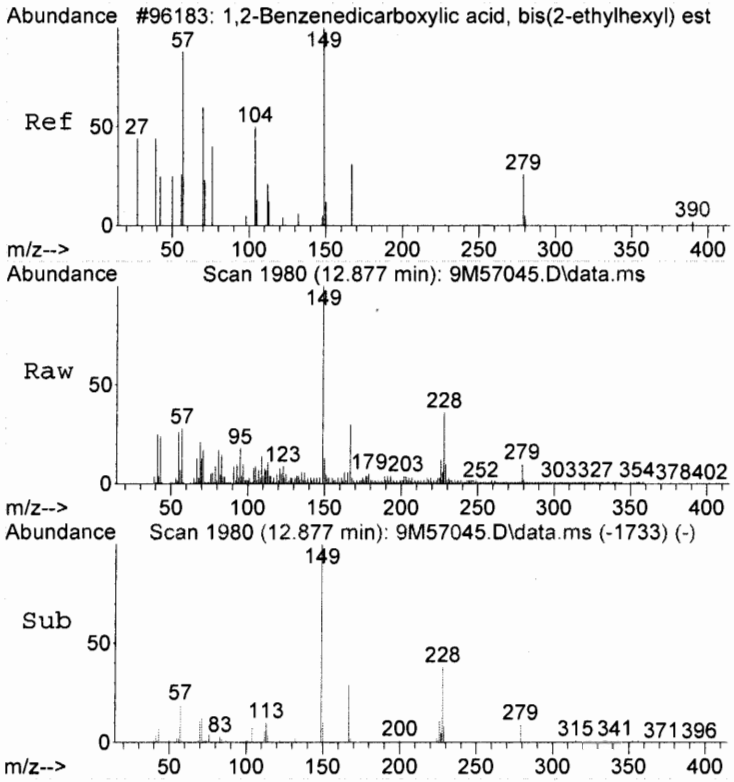


#98
Chrysene
Concen: 9.21 ng
RT: 12.872 min Scan# 1979
Delta R.T. -0.011 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:228 Resp: 80630

Ion	Ratio	Lower	Upper
228	100		
226	30.3	9.5	49.5
229	22.8	0.0	60.2

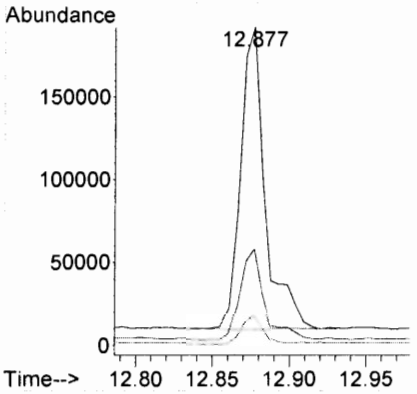


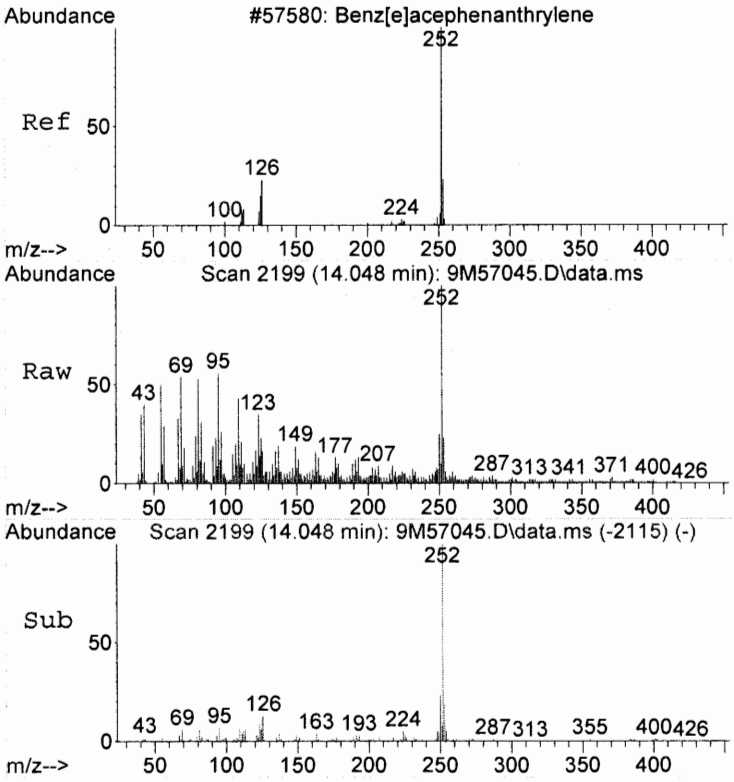


#99
bis(2-Ethylhexyl)phthalate
Concen: 32.36 ng
RT: 12.877 min Scan# 1980
Delta R.T. -0.005 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:149 Resp: 199489

Ion	Ratio	Lower	Upper
149	100		
167	29.8	0.0	54.4
279	9.4	0.0	43.5

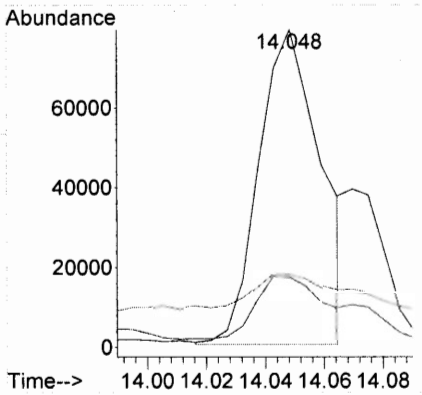


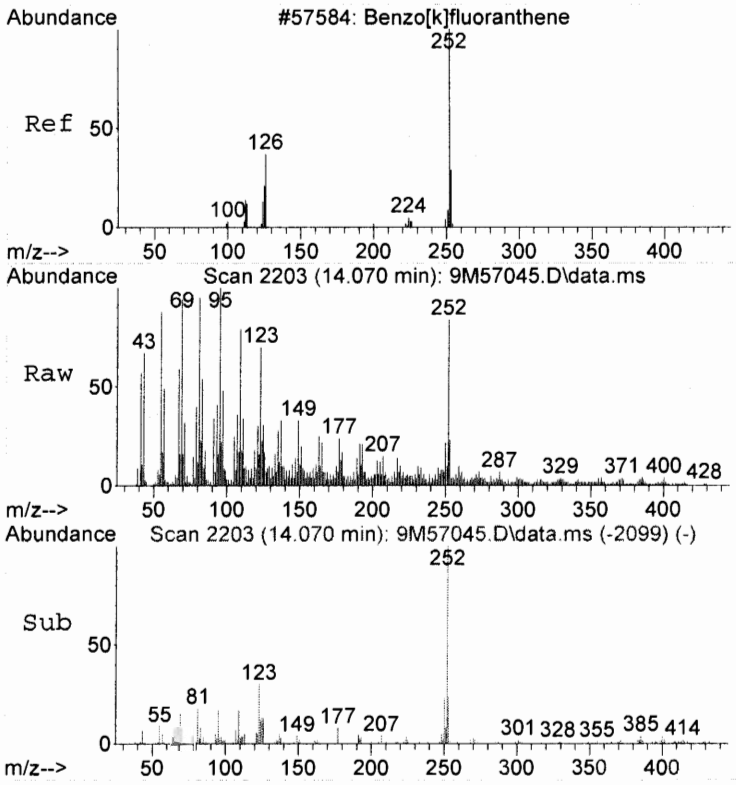


#102
Benzo[b]fluoranthene
Concen: 11.01 ng m
RT: 14.048 min Scan# 2199
Delta R.T. -0.005 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:252 Resp: 114827

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	62.3
125	23.4	0.0	58.4

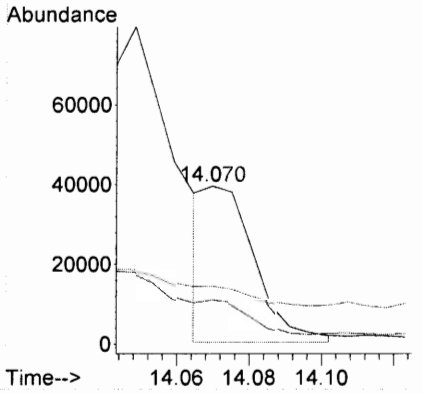


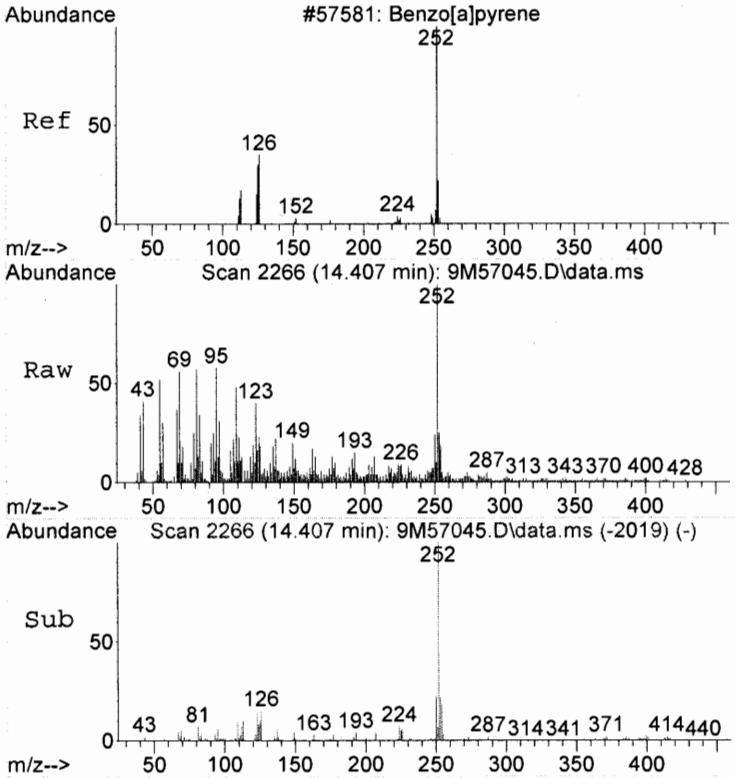


#103
Benzo[k]fluoranthene
Concen: 3.80 ng m
RT: 14.070 min Scan# 2203
Delta R.T. -0.011 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:252 Resp: 37833

Ion	Ratio	Lower	Upper
252	100		
253	28.0	0.0	52.2
125	36.7	0.0	48.9

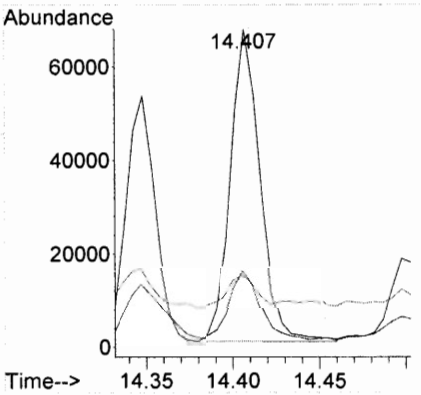


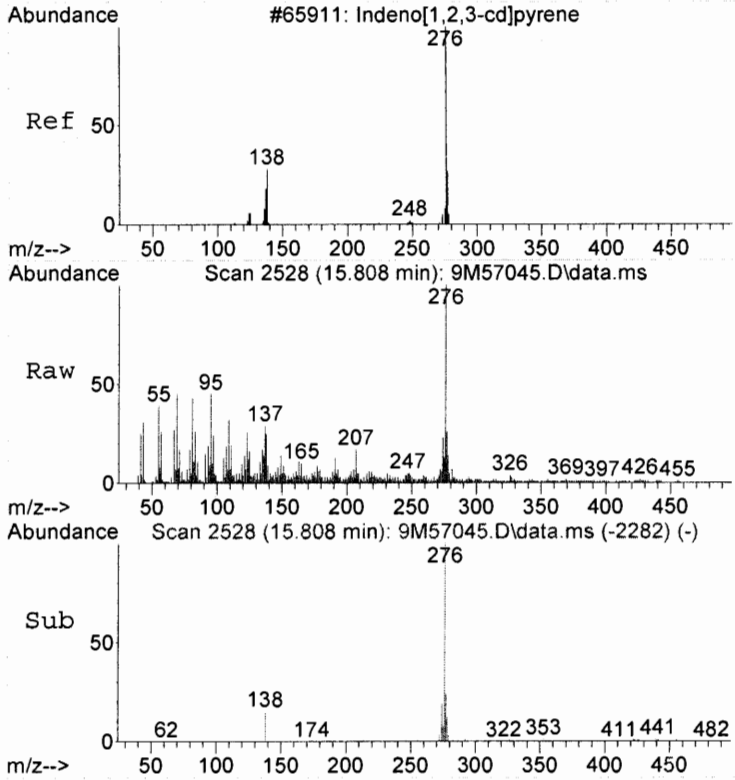


#104
Benzo[a]pyrene
Concen: 8.23 ng
RT: 14.407 min Scan# 2266
Delta R.T. -0.006 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:252 Resp: 80232

Ion	Ratio	Lower	Upper
252	100		
253	23.0	0.0	62.4
125	10.5	0.0	60.9

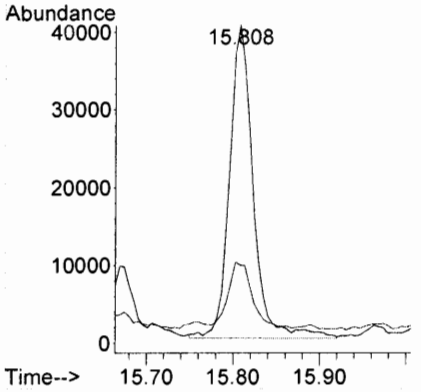


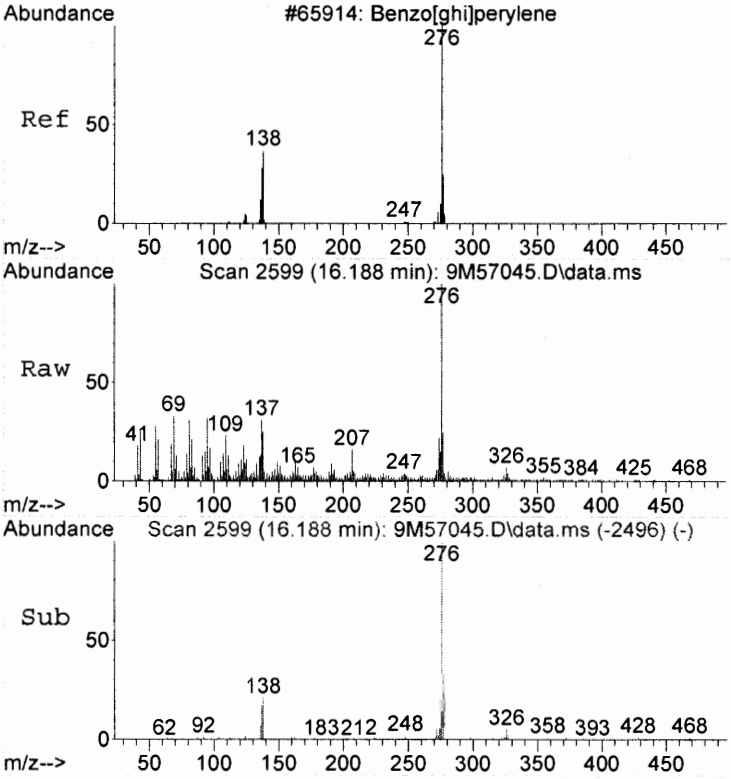


#105
Indeno[1,2,3-cd]pyrene
Concen: 6.91 ng
RT: 15.808 min Scan# 2528
Delta R.T. -0.011 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:276 Resp: 76217

Ion	Ratio	Lower	Upper
276	100		
138	20.5	0.0	78.9

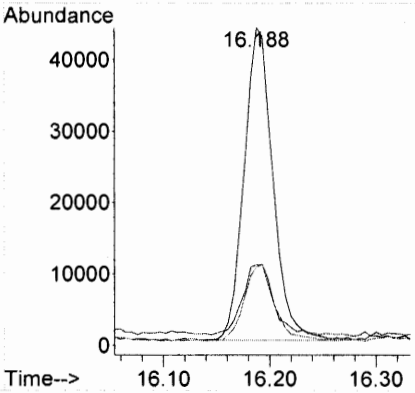




#107
Benzo[g,h,i]perylene
Concen: 9.03 ng
RT: 16.188 min Scan# 2599
Delta R.T. -0.016 min
Lab File: 9M57045.D
Acq: 27 May 2014 19:36

Tgt Ion:276 Resp: 82268

Ion	Ratio	Lower	Upper
276	100		
138	25.6	0.0	100.0
277	25.1	0.0	60.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-022
Client Id: BASE 1(3-5')
Data File: 9M57044.D
Analysis Date: 05/27/14 19:12
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.036	U	205-99-2	Benzo[b]fluoranthene	0.036	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.036	U	191-24-2	Benzo[g,h,i]perylene	0.036	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	207-08-9	Benzo[k]fluoranthene	0.036	U
95-95-4	2,4,5-Trichlorophenol	0.036	U	111-91-1	bis(2-Chloroethoxy)methan	0.036	U
88-06-2	2,4,6-Trichlorophenol	0.036	U	111-44-4	bis(2-Chloroethyl)ether	0.0090	U
120-83-2	2,4-Dichlorophenol	0.0090	U	108-60-1	bis(2-chloroisopropyl)ether	0.036	U
105-67-9	2,4-Dimethylphenol	0.0090	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.036**	**0.34**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.036	U
121-14-2	2,4-Dinitrotoluene	0.036	U	105-60-2	Caprolactam	0.036	U
606-20-2	2,6-Dinitrotoluene	0.036	U	86-74-8	Carbazole	0.036	U
91-58-7	2-Chloronaphthalene	0.036	U	218-01-9	Chrysene	0.036	U
95-57-8	2-Chlorophenol	0.036	U	53-70-3	Dibenzo[a,h]anthracene	0.036	U
91-57-6	2-Methylnaphthalene	0.036	U	132-64-9	Dibenzofuran	0.0090	U
95-48-7	2-Methylphenol	0.0090	U	84-66-2	Diethylphthalate	0.036	U
88-74-4	2-Nitroaniline	0.036	U	131-11-3	Dimethylphthalate	0.036	U
88-75-5	2-Nitrophenol	0.036	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0090	U	117-84-0	Di-n-octylphthalate	0.036	U
91-94-1	3,3'-Dichlorobenzidine	0.036	U	**206-44-0**	**Fluoranthene**	**0.036**	**0.039**
99-09-2	3-Nitroaniline	0.036	U	86-73-7	Fluorene	0.036	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.036	U
101-55-3	4-Bromophenyl-phenylether	0.036	U	87-68-3	Hexachlorobutadiene	0.036	U
59-50-7	4-Chloro-3-methylphenol	0.036	U	77-47-4	Hexachlorocyclopentadiene	0.036	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.036	U
7005-72-3	4-Chlorophenyl-phenylether	0.036	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U
100-01-6	4-Nitroaniline	0.036	U	78-59-1	Isophorone	0.036	U
100-02-7	4-Nitrophenol	0.036	U	91-20-3	Naphthalene	0.0090	U
83-32-9	Acenaphthene	0.036	U	98-95-3	Nitrobenzene	0.036	U
208-96-8	Acenaphthylene	0.036	U	621-64-7	N-Nitroso-di-n-propylamine	0.0090	U
98-86-2	Acetophenone	0.036	U	86-30-6	n-Nitrosodiphenylamine	0.036	U
120-12-7	Anthracene	0.036	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.036	U	85-01-8	Phenanthrene	0.036	U
100-52-7	Benzaldehyde	0.036	U	108-95-2	Phenol	0.036	U
56-55-3	Benzo[a]anthracene	0.036	U	**129-00-0**	**Pyrene**	**0.036**	**0.048**
50-32-8	Benzo[a]pyrene	0.036	U				

Worksheet #: 304385

Total Target Concentration 0.43

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

SampleID : AC78787-022 Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57044.D Sam Mult : 1 Vial# : 26 Qt On : 05/28/14 10:08
Acq On : 05/27/14 19:12 Misc : S,BNA Qt Upd On: 05/22/14 09:17

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.870	152	82360	40.00	ng	-0.01
29) Naphthalene-d8	6.881	136	300400	40.00	ng	-0.01
47) Acenaphthene-d10	8.315	164	155920	40.00	ng	-0.02
74) Phenanthrene-d10	9.780	188	242772	40.00	ng	-0.02
88) Chrysene-d12	12.834	240	268539	40.00	ng	-0.02
100) Perylene-d12	14.460	264	272613	40.00	ng	-0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.677	112	181046	62.00	ng	0.00
Spiked Amount 100.000			Recovery = 62.00%			
15) Phenol-d5	5.560	99	236886	62.45	ng	0.00
Spiked Amount 100.000			Recovery = 62.45%			
30) Nitrobenzene-d5	6.320	128	51028	35.77	ng	-0.01
Spiked Amount 50.000			Recovery = 71.54%			
52) 2-Fluorobiphenyl	7.726	172	231036	39.69	ng	-0.01
Spiked Amount 50.000			Recovery = 79.38%			
77) 2,4,6-Tribromophenol	9.058	330	63717	73.82	ng	-0.02
Spiked Amount 100.000			Recovery = 73.82%			
91) Terphenyl-d14	11.588	244	225521	37.60	ng	-0.01
Spiked Amount 50.000			Recovery = 75.20%			
Target Compounds						Qvalue
87) Fluoranthene	11.139	202	18983	2.1703	ng	96
89) Pyrene	11.401	202	22378	2.6726	ng	83
99) bis(2-Ethylhexyl)phtha...	12.866	149	103468	19.0540	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

16

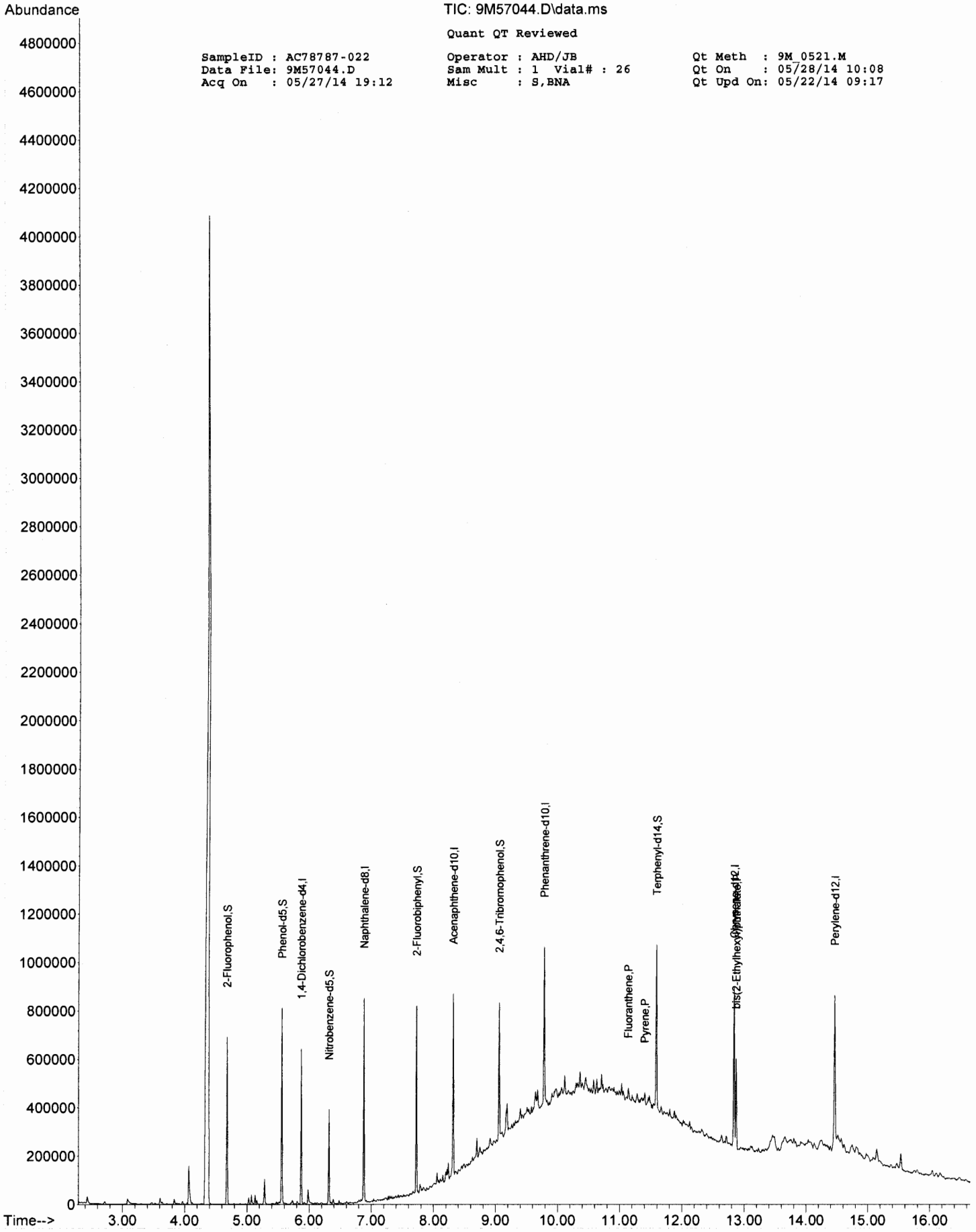
TIC: 9M57044.D\data.ms

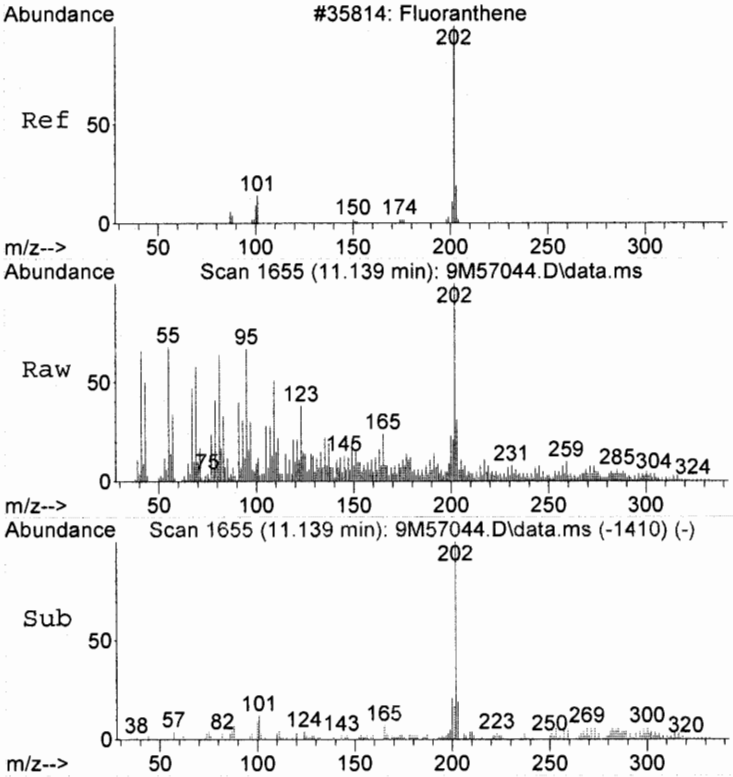
Quant QT Reviewed

SampleID : AC78787-022
Data File: 9M57044.D
Acq On : 05/27/14 19:12

Operator : AHD/JB
Sam Mult : 1 Vial# : 26
Misc : S,BNA

Qt Meth : 9M_0521.M
Qt On : 05/28/14 10:08
Qt Upd On: 05/22/14 09:17

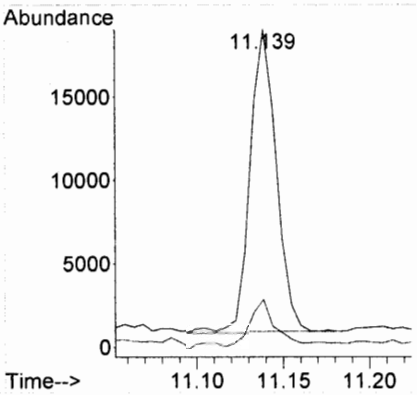


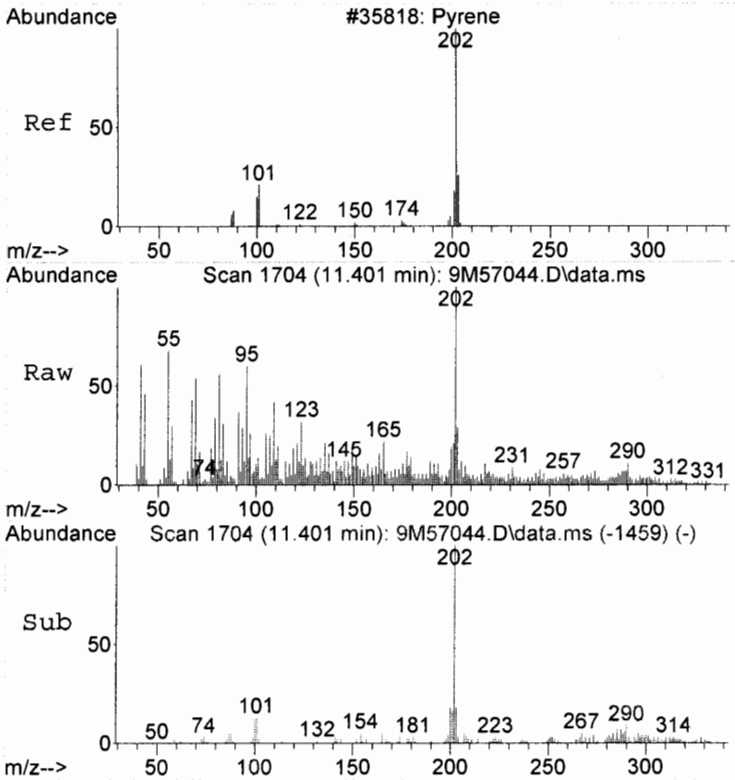


#87
Fluoranthene
Concen: 2.17 ng
RT: 11.139 min Scan# 1655
Delta R.T. -0.016 min
Lab File: 9M57044.D
Acq: 27 May 2014 19:12

Tgt Ion:202 Resp: 18983

Ion	Ratio	Lower	Upper
202	100		
101	15.8	0.0	57.6

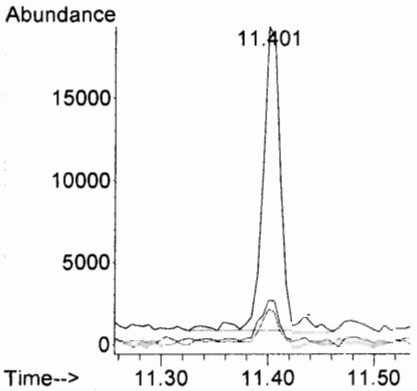


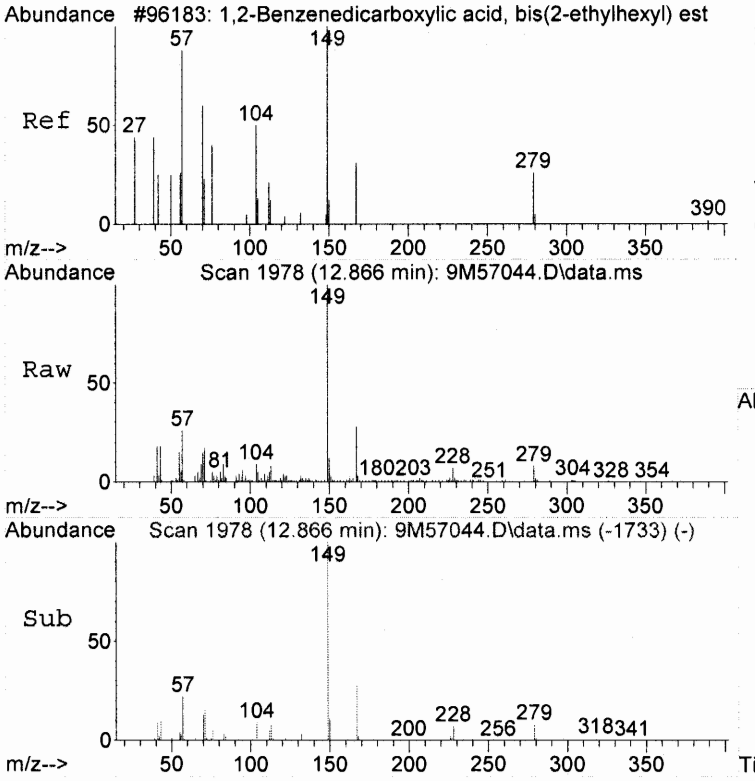


#89
Pyrene
Concen: 2.67 ng
RT: 11.401 min Scan# 1704
Delta R.T. -0.016 min
Lab File: 9M57044.D
Acq: 27 May 2014 19:12

Tgt Ion:202 Resp: 22378

Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	62.2
100	11.6	0.0	57.8

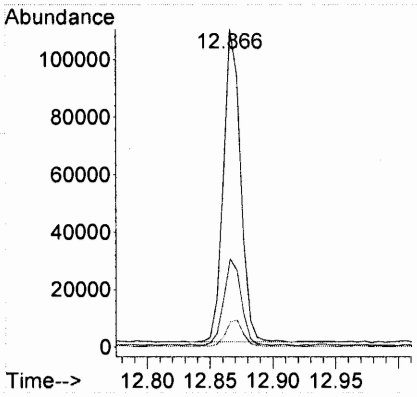




#99
bis(2-Ethylhexyl)phthalate
Concen: 19.05 ng
RT: 12.866 min Scan# 1978
Delta R.T. -0.016 min
Lab File: 9M57044.D
Acq: 27 May 2014 19:12

Tgt Ion:149 Resp: 103468

Ion	Ratio	Lower	Upper
149	100		
167	27.5	0.0	54.4
279	7.9	0.0	43.5



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-023
Client Id: BASE 2 (0-2')
Data File: 10M44301.D
Analysis Date: 05/27/14 17:57
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.036	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.036**	**0.050**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.036	U	191-24-2	Benzo[g,h,i]perylene	0.036	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	207-08-9	Benzo[k]fluoranthene	0.036	U
95-95-4	2,4,5-Trichlorophenol	0.036	U	111-91-1	bis(2-Chloroethoxy)methan	0.036	U
88-06-2	2,4,6-Trichlorophenol	0.036	U	111-44-4	bis(2-Chloroethyl)ether	0.0090	U
120-83-2	2,4-Dichlorophenol	0.0090	U	108-60-1	bis(2-chloroisopropyl)ether	0.036	U
105-67-9	2,4-Dimethylphenol	0.0090	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.036**	**0.18**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.036	U
121-14-2	2,4-Dinitrotoluene	0.036	U	105-60-2	Caprolactam	0.036	U
606-20-2	2,6-Dinitrotoluene	0.036	U	86-74-8	Carbazole	0.036	U
91-58-7	2-Chloronaphthalene	0.036	U	**218-01-9**	**Chrysene**	**0.036**	**0.044**
95-57-8	2-Chlorophenol	0.036	U	53-70-3	Dibenzo[a,h]anthracene	0.036	U
91-57-6	2-Methylnaphthalene	0.036	U	132-64-9	Dibenzofuran	0.0090	U
95-48-7	2-Methylphenol	0.0090	U	84-66-2	Diethylphthalate	0.036	U
88-74-4	2-Nitroaniline	0.036	U	131-11-3	Dimethylphthalate	0.036	U
88-75-5	2-Nitrophenol	0.036	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0090	U	117-84-0	Di-n-octylphthalate	0.036	U
91-94-1	3,3'-Dichlorobenzidine	0.036	U	**206-44-0**	**Fluoranthene**	**0.036**	**0.081**
99-09-2	3-Nitroaniline	0.036	U	86-73-7	Fluorene	0.036	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.036	U
101-55-3	4-Bromophenyl-phenylether	0.036	U	87-68-3	Hexachlorobutadiene	0.036	U
59-50-7	4-Chloro-3-methylphenol	0.036	U	77-47-4	Hexachlorocyclopentadiene	0.036	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.036	U
7005-72-3	4-Chlorophenyl-phenylether	0.036	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U
100-01-6	4-Nitroaniline	0.036	U	78-59-1	Isophorone	0.036	U
100-02-7	4-Nitrophenol	0.036	U	91-20-3	Naphthalene	0.0090	U
83-32-9	Acenaphthene	0.036	U	98-95-3	Nitrobenzene	0.036	U
208-96-8	Acenaphthylene	0.036	U	621-64-7	N-Nitroso-di-n-propylamine	0.0090	U
98-86-2	Acetophenone	0.036	U	86-30-6	n-Nitrosodiphenylamine	0.036	U
120-12-7	Anthracene	0.036	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.036	U	**85-01-8**	**Phenanthrene**	**0.036**	**0.057**
100-52-7	Benzaldehyde	0.036	U	108-95-2	Phenol	0.036	U
56-55-3	**Benzo[a]anthracene**	**0.036**	**0.046**	**129-00-0**	**Pyrene**	**0.036**	**0.080**
50-32-8	**Benzo[a]pyrene**	**0.036**	**0.040**				

Worksheet #: 304385

Total Target Concentration 0.58

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

SampleID : AC78787-023 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44301.D Sam Mult : 1 Vial# : 25 Qt On : 05/28/14 10:27
Acq On : 05/27/14 17:57 Misc : S,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	69169	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	306325	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	199437	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	380835	40.00	ng	0.00
88) Chrysene-d12	12.597	240	421373	40.00	ng	0.00
100) Perylene-d12	14.197	264	403016	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	200099	76.02	ng	0.00
Spiked Amount 100.000			Recovery = 76.02%			
15) Phenol-d5	5.404	99	327071	87.84	ng	0.00
Spiked Amount 100.000			Recovery = 87.84%			
30) Nitrobenzene-d5	6.168	128	53886	38.00	ng	0.00
Spiked Amount 50.000			Recovery = 76.00%			
52) 2-Fluorobiphenyl	7.559	172	261133	35.54	ng	0.00
Spiked Amount 50.000			Recovery = 71.08%			
77) 2,4,6-Tribromophenol	8.864	330	39620	32.82	ng	0.00
Spiked Amount 100.000			Recovery = 32.82%			
91) Terphenyl-d14	11.367	244	356733	39.26	ng	0.00
Spiked Amount 50.000			Recovery = 78.52%			
Target Compounds						Qvalue
83) Phenanthrene	9.597	178	35092	3.1923	ng	99
87) Fluoranthene	10.913	202	54703	4.5117	ng	98
89) Pyrene	11.175	202	58066	4.4527	ng	98
97) Benzo[a]anthracene	12.587	228	31901	2.5730	ng	100
98) Chrysene	12.630	228	27816	2.4821	ng	98
99) bis(2-Ethylhexyl)phtha...	12.651	149	73915	10.1943	ng	92
102) Benzo[b]fluoranthene	13.796	252	33442m	2.7774	ng	
104) Benzo[a]pyrene	14.133	252	25854	2.2451	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

16

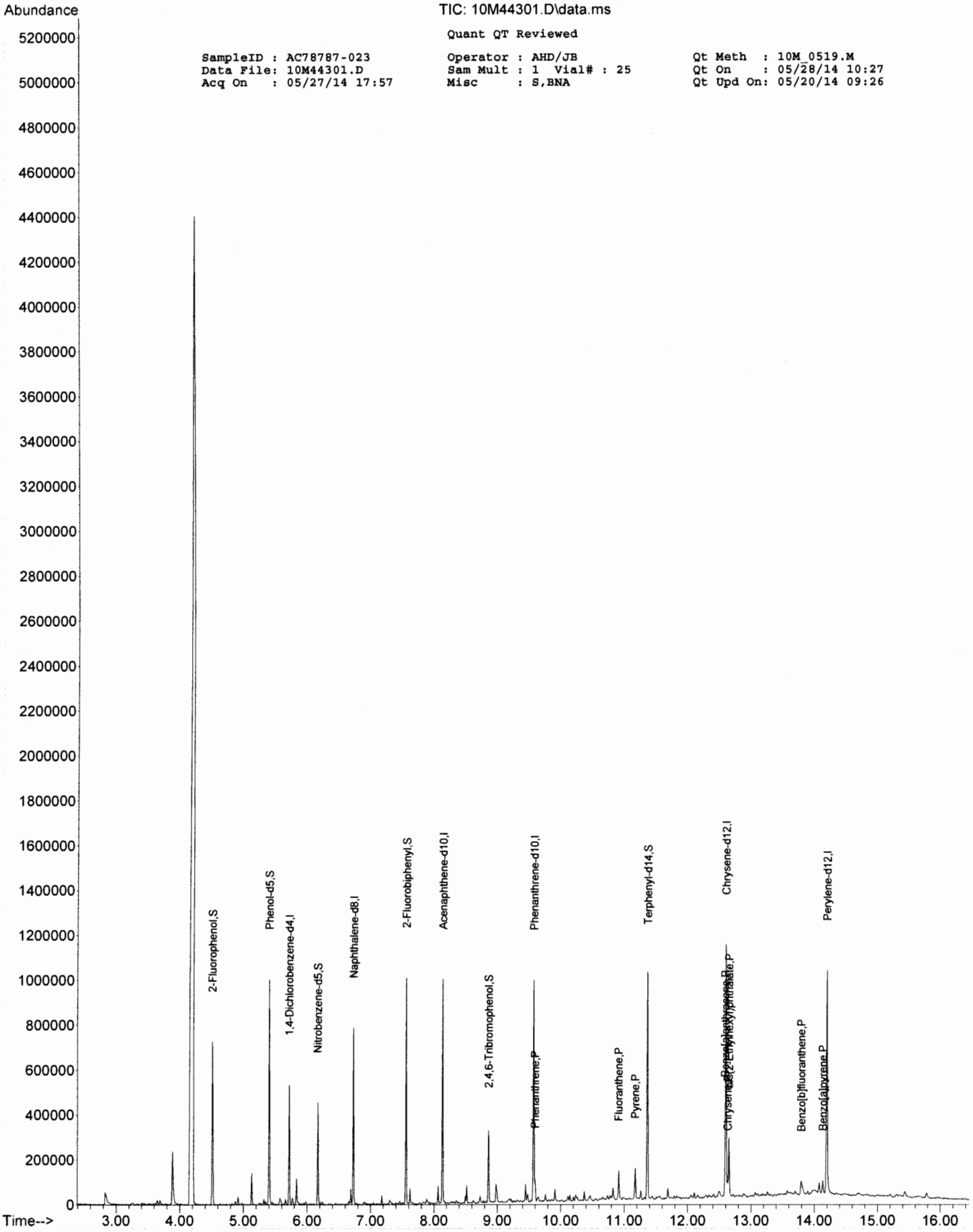
TIC: 10M44301.D\data.ms

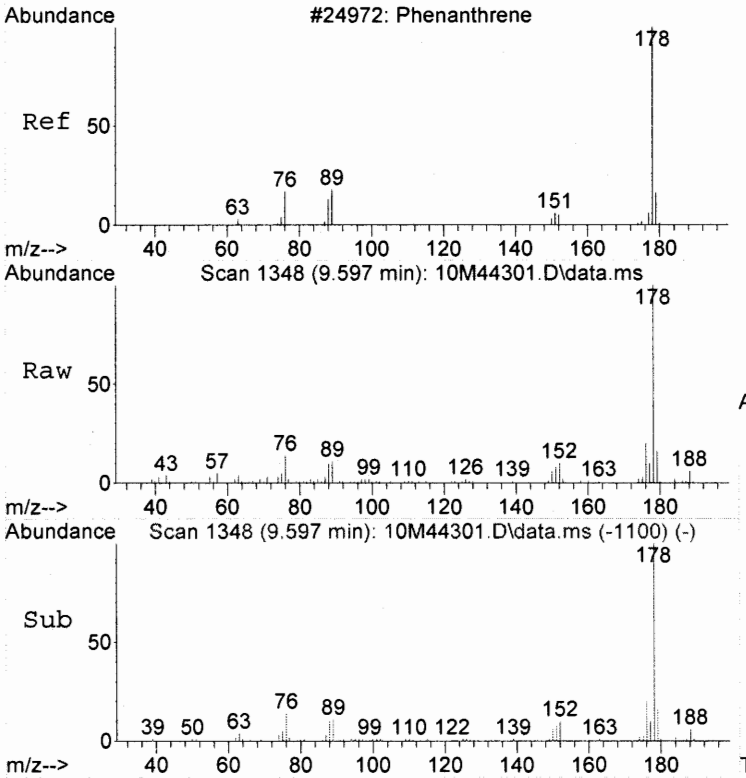
Quant QT Reviewed

SampleID : AC78787-023
Data File: 10M44301.D
Acq On : 05/27/14 17:57

Operator : AHD/JB
Sam Mult : 1 Vial# : 25
Misc : S,BNA

Qt Meth : 10M_0519.M
Qt On : 05/28/14 10:27
Qt Upd On: 05/20/14 09:26

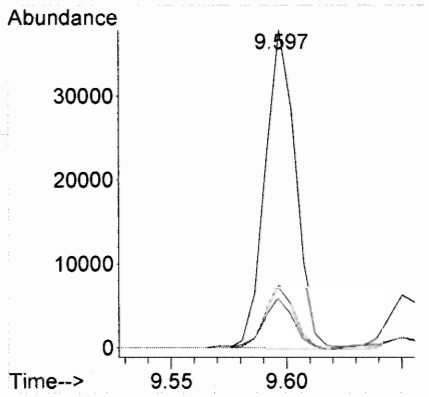


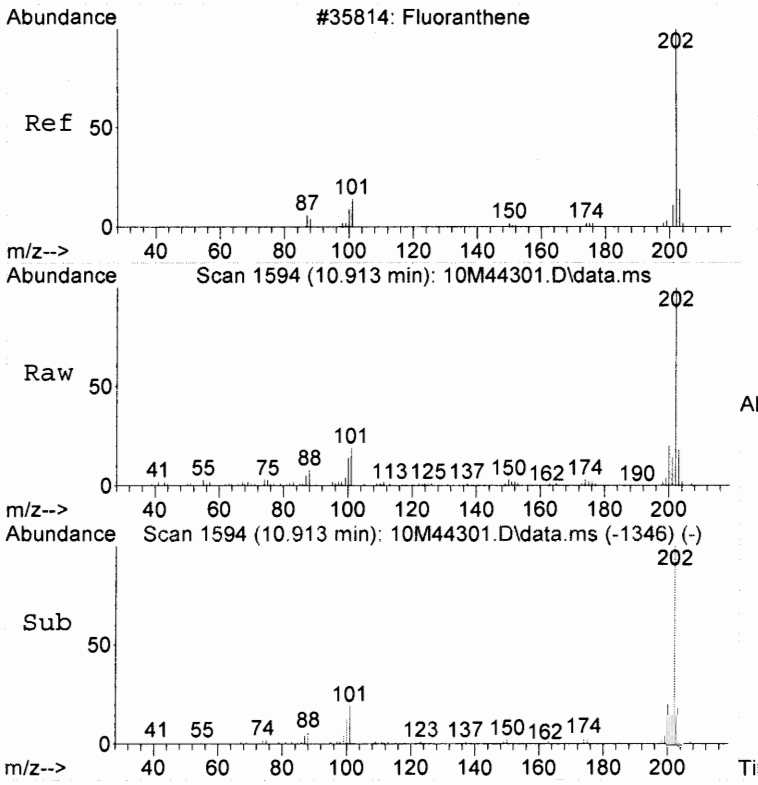


#83
Phenanthrene
Concen: 3.19 ng
RT: 9.597 min Scan# 1348
Delta R.T. 0.000 min
Lab File: 10M44301.D
Acq: 27 May 2014 17:57

Tgt Ion:178 Resp: 35092

Ion	Ratio	Lower	Upper
178	100		
179	16.0	0.0	55.5
176	19.8	0.0	59.3

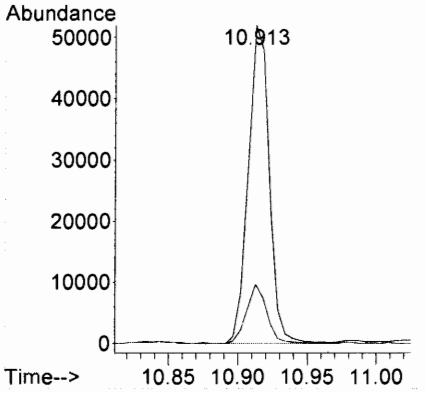


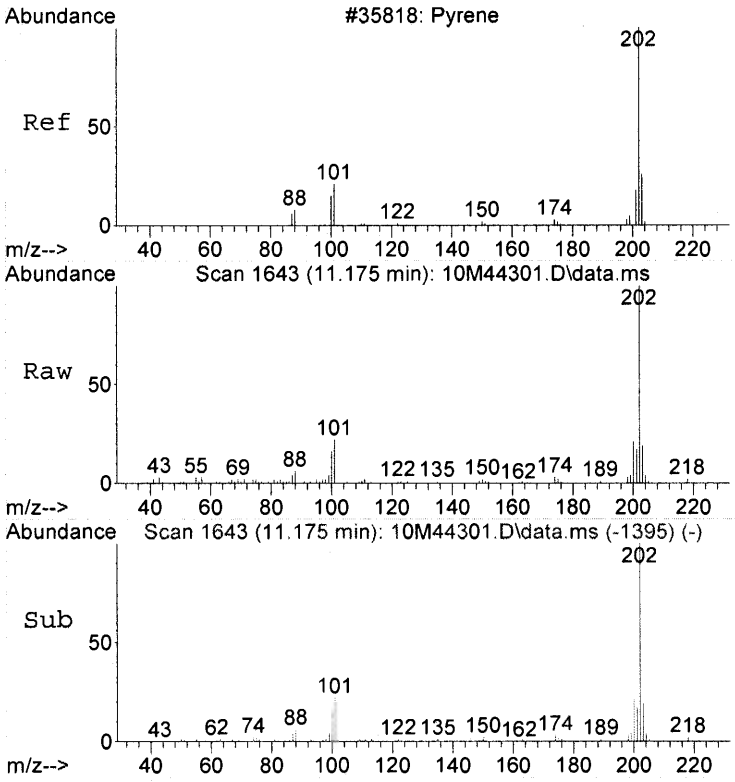


#87
Fluoranthene
Concen: 4.51 ng
RT: 10.913 min Scan# 1594
Delta R.T. 0.000 min
Lab File: 10M44301.D
Acq: 27 May 2014 17:57

Tgt Ion:202 Resp: 54703

Ion	Ratio	Lower	Upper
202	100		
101	18.7	0.0	57.6

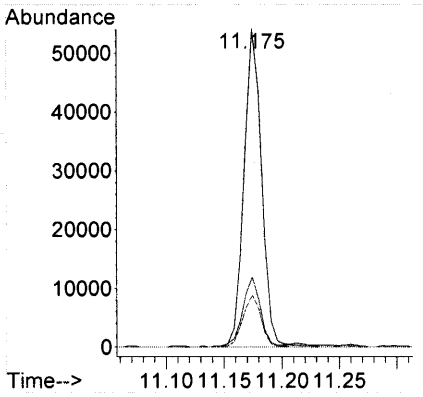


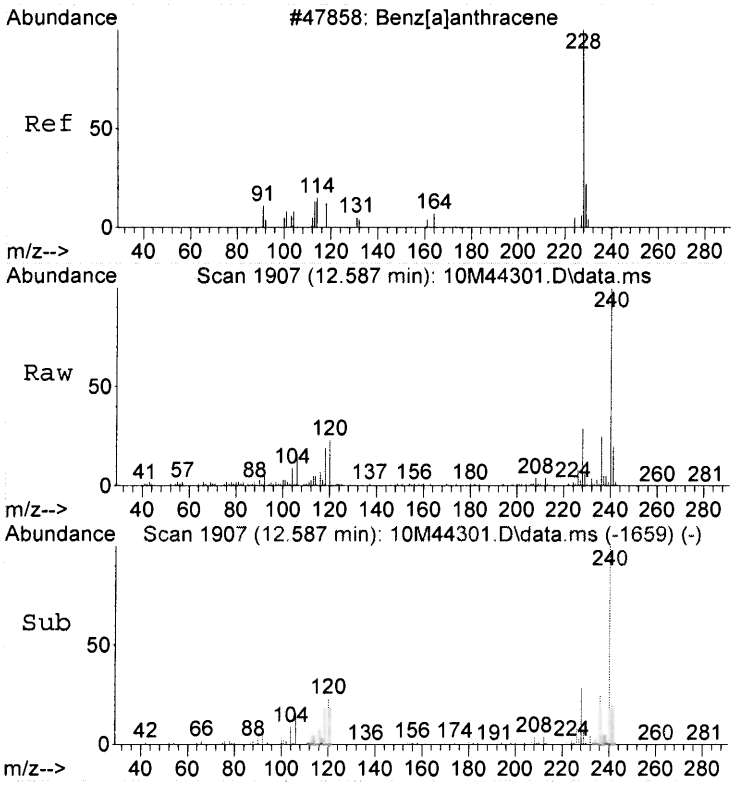


#89
Pyrene
Concen: 4.45 ng
RT: 11.175 min Scan# 1643
Delta R.T. 0.000 min
Lab File: 10M44301.D
Acq: 27 May 2014 17:57

Tgt Ion:202 Resp: 58066

Ion	Ratio	Lower	Upper
202	100		
101	22.1	0.0	62.2
100	16.3	0.0	57.8

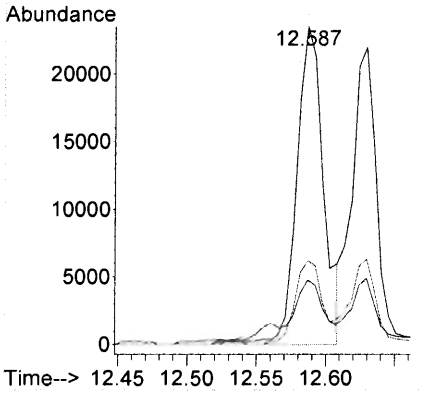


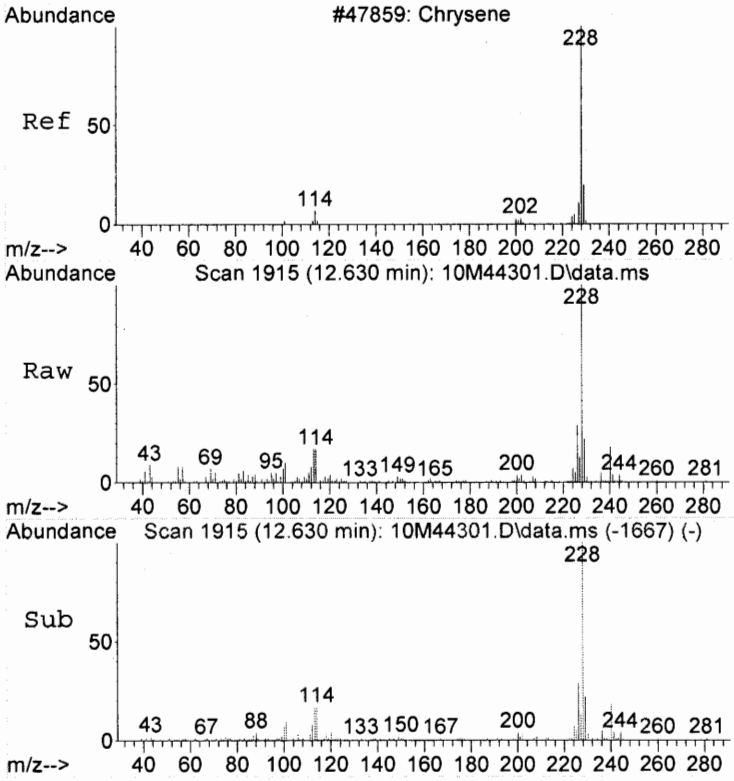


#97
Benzo[a]anthracene
Concen: 2.57 ng
RT: 12.587 min Scan# 1907
Delta R.T. 0.000 min
Lab File: 10M44301.D
Acq: 27 May 2014 17:57

Tgt Ion:228 Resp: 31901

Ion	Ratio	Lower	Upper
228	100		
229	19.4	0.0	59.5
226	26.4	0.0	66.0

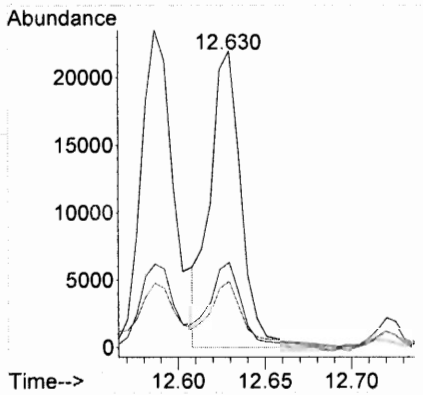


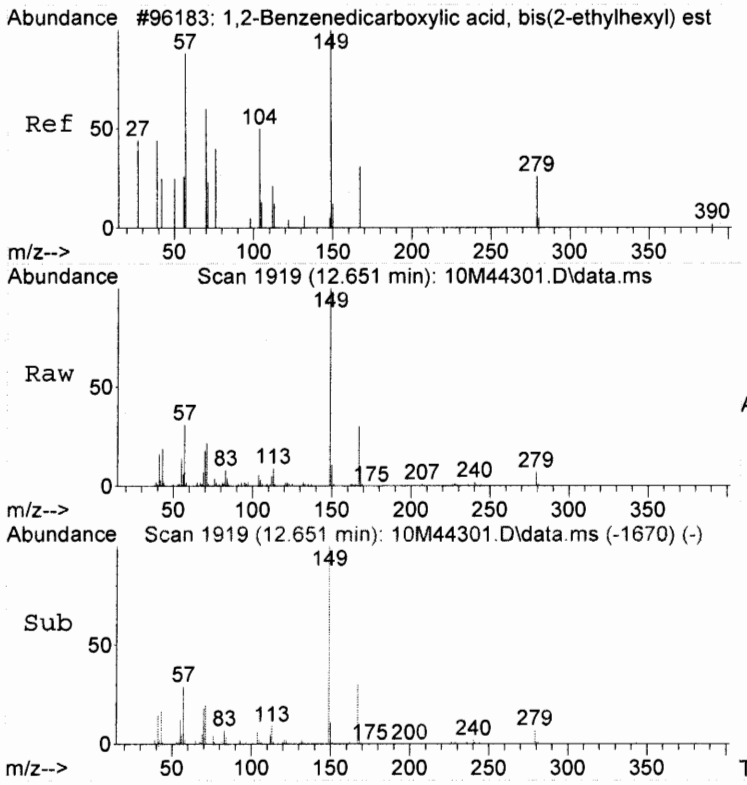


#98
Chrysene
Concen: 2.48 ng
RT: 12.630 min Scan# 1915
Delta R.T. 0.000 min
Lab File: 10M44301.D
Acq: 27 May 2014 17:57

Tgt Ion:228 Resp: 27816

Ion	Ratio	Lower	Upper
228	100		
226	28.4	9.5	49.5
229	21.3	0.0	60.2

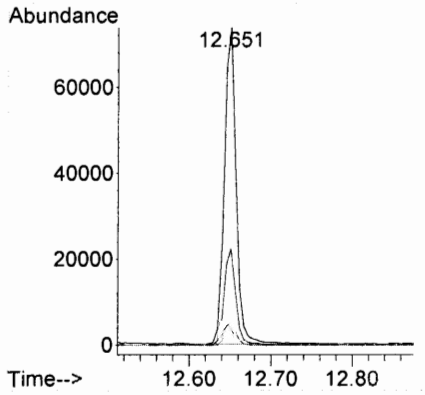


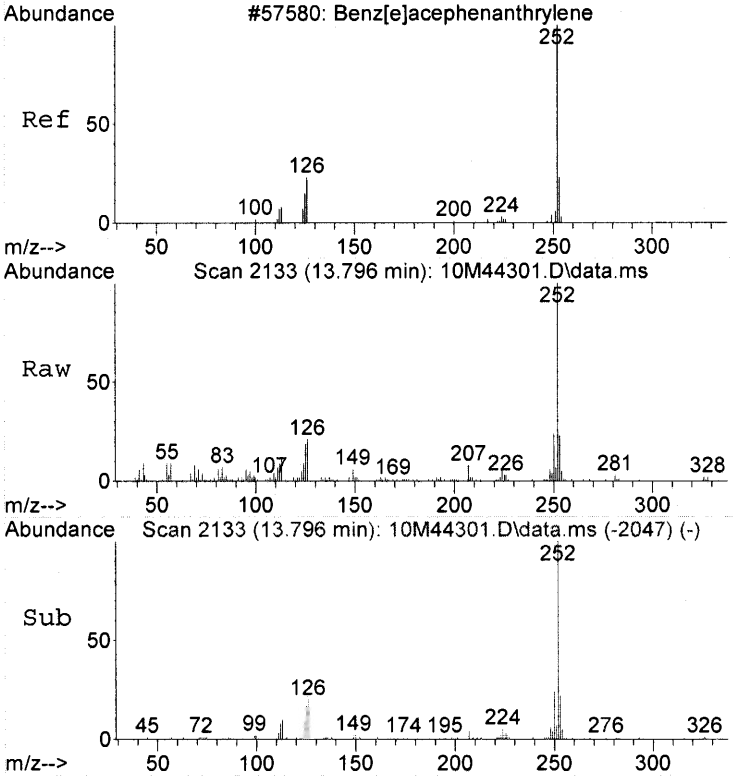


#99
bis(2-Ethylhexyl)phthalate
Concen: 10.19 ng
RT: 12.651 min Scan# 1919
Delta R.T. 0.006 min
Lab File: 10M44301.D
Acq: 27 May 2014 17:57

Tgt Ion:149 Resp: 73915

Ion	Ratio	Lower	Upper
149	100		
167	30.5	0.0	54.4
279	7.2	0.0	43.5

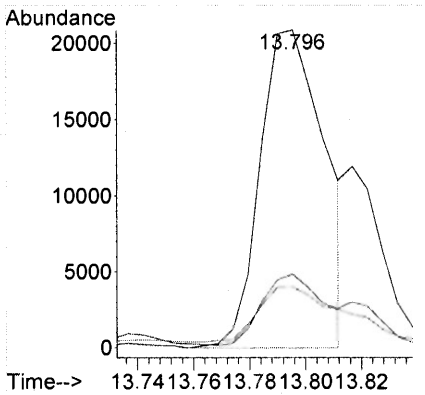


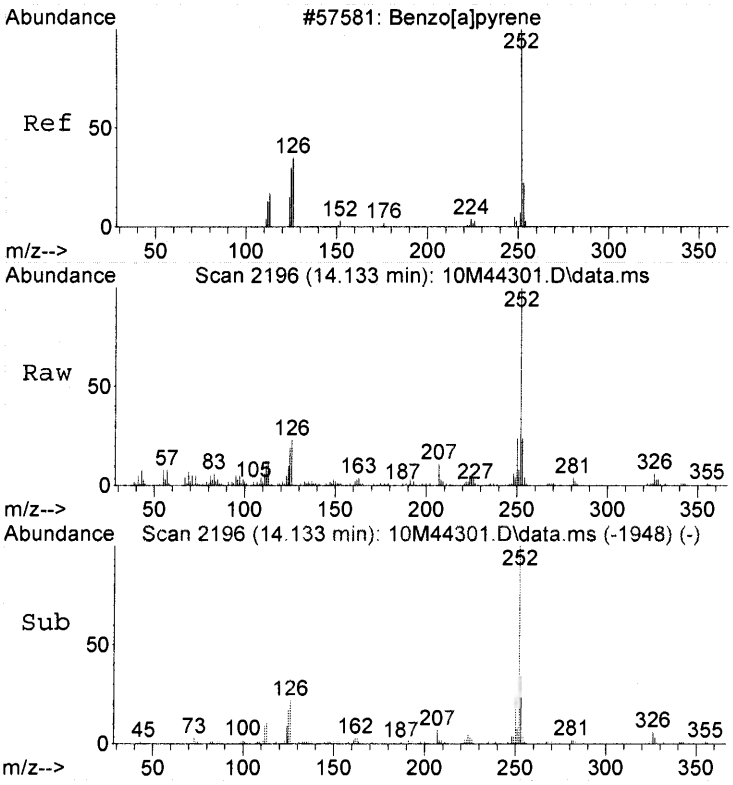


#102
Benzo[b]fluoranthene
Concen: 2.78 ng m
RT: 13.796 min Scan# 2133
Delta R.T. 0.005 min
Lab File: 10M44301.D
Acq: 27 May 2014 17:57

Tgt Ion:252 Resp: 33442

Ion	Ratio	Lower	Upper
252	100		
253	23.1	0.0	62.3
125	19.3	0.0	58.4

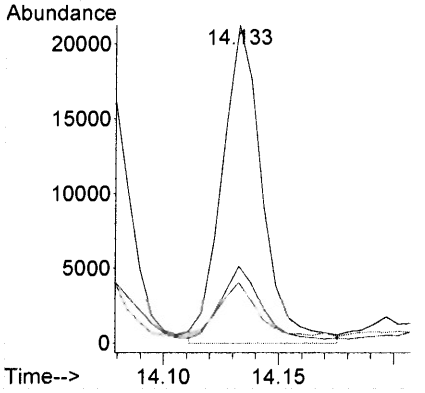




#104
Benzo[a]pyrene
Concen: 2.25 ng
RT: 14.133 min Scan# 2196
Delta R.T. 0.000 min
Lab File: 10M44301.D
Acq: 27 May 2014 17:57

Tgt Ion:252 Resp: 25854

Ion	Ratio	Lower	Upper
252	100		
253	23.1	0.0	62.4
125	17.4	0.0	60.9



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-024
Client Id: BASE 2 (3-5')
Data File: 10M44302.D
Analysis Date: 05/27/14 18:19
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.035	U	205-99-2	Benzo[b]fluoranthene	0.035	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	U	191-24-2	Benzo[g,h,i]perylene	0.035	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.035	U	207-08-9	Benzo[k]fluoranthene	0.035	U
95-95-4	2,4,5-Trichlorophenol	0.035	U	111-91-1	bis(2-Chloroethoxy)methan	0.035	U
88-06-2	2,4,6-Trichlorophenol	0.035	U	111-44-4	bis(2-Chloroethyl)ether	0.0088	U
120-83-2	2,4-Dichlorophenol	0.0088	U	108-60-1	bis(2-chloroisopropyl)ether	0.035	U
105-67-9	2,4-Dimethylphenol	0.0088	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.035**	**0.38**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.035	U
121-14-2	2,4-Dinitrotoluene	0.035	U	105-60-2	Caprolactam	0.035	U
606-20-2	2,6-Dinitrotoluene	0.035	U	86-74-8	Carbazole	0.035	U
91-58-7	2-Chloronaphthalene	0.035	U	218-01-9	Chrysene	0.035	U
95-57-8	2-Chlorophenol	0.035	U	53-70-3	Dibenzo[a,h]anthracene	0.035	U
91-57-6	2-Methylnaphthalene	0.035	U	132-64-9	Dibenzofuran	0.0088	U
95-48-7	2-Methylphenol	0.0088	U	84-66-2	Diethylphthalate	0.035	U
88-74-4	2-Nitroaniline	0.035	U	131-11-3	Dimethylphthalate	0.035	U
88-75-5	2-Nitrophenol	0.035	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0088	U	117-84-0	Di-n-octylphthalate	0.035	U
91-94-1	3,3'-Dichlorobenzidine	0.035	U	206-44-0	Fluoranthene	0.035	U
99-09-2	3-Nitroaniline	0.035	U	86-73-7	Fluorene	0.035	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.035	U
101-55-3	4-Bromophenyl-phenylether	0.035	U	87-68-3	Hexachlorobutadiene	0.035	U
59-50-7	4-Chloro-3-methylphenol	0.035	U	77-47-4	Hexachlorocyclopentadiene	0.035	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.035	U
7005-72-3	4-Chlorophenyl-phenylether	0.035	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.035	U
100-01-6	4-Nitroaniline	0.035	U	78-59-1	Isophorone	0.035	U
100-02-7	4-Nitrophenol	0.035	U	91-20-3	Naphthalene	0.0088	U
83-32-9	Acenaphthene	0.035	U	98-95-3	Nitrobenzene	0.035	U
208-96-8	Acenaphthylene	0.035	U	621-64-7	N-Nitroso-di-n-propylamine	0.0088	U
98-86-2	Acetophenone	0.035	U	86-30-6	n-Nitrosodiphenylamine	0.035	U
120-12-7	Anthracene	0.035	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.035	U	85-01-8	Phenanthrene	0.035	U
100-52-7	Benzaldehyde	0.035	U	108-95-2	Phenol	0.035	U
56-55-3	Benzo[a]anthracene	0.035	U	129-00-0	Pyrene	0.035	U
50-32-8	Benzo[a]pyrene	0.035	U				

Worksheet #: 304385

Total Target Concentration 0.38

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

SampleID : AC78787-024 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44302.D Sam Mult : 1 Vial# : 26 Qt On : 05/28/14 10:27
Acq On : 05/27/14 18:19 Misc : S,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	75312	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	332041	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	208748	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	402442	40.00	ng	0.00
88) Chrysene-d12	12.597	240	447037	40.00	ng	0.00
100) Perylene-d12	14.197	264	413887	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.516	112	211883	73.93	ng	0.00
Spiked Amount 100.000			Recovery = 73.93%			
15) Phenol-d5	5.403	99	346991	85.59	ng	0.00
Spiked Amount 100.000			Recovery = 85.59%			
30) Nitrobenzene-d5	6.168	128	56912	37.02	ng	0.00
Spiked Amount 50.000			Recovery = 74.04%			
52) 2-Fluorobiphenyl	7.559	172	272895	35.48	ng	0.00
Spiked Amount 50.000			Recovery = 70.96%			
77) 2,4,6-Tribromophenol	8.864	330	40503	31.82	ng	0.00
Spiked Amount 100.000			Recovery = 31.82%			
91) Terphenyl-d14	11.367	244	366606	38.03	ng	0.00
Spiked Amount 50.000			Recovery = 76.06%			
Target Compounds						Qvalue
99) bis(2-Ethylhexyl)phtha...	12.651	149	168296	21.6806	ng	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

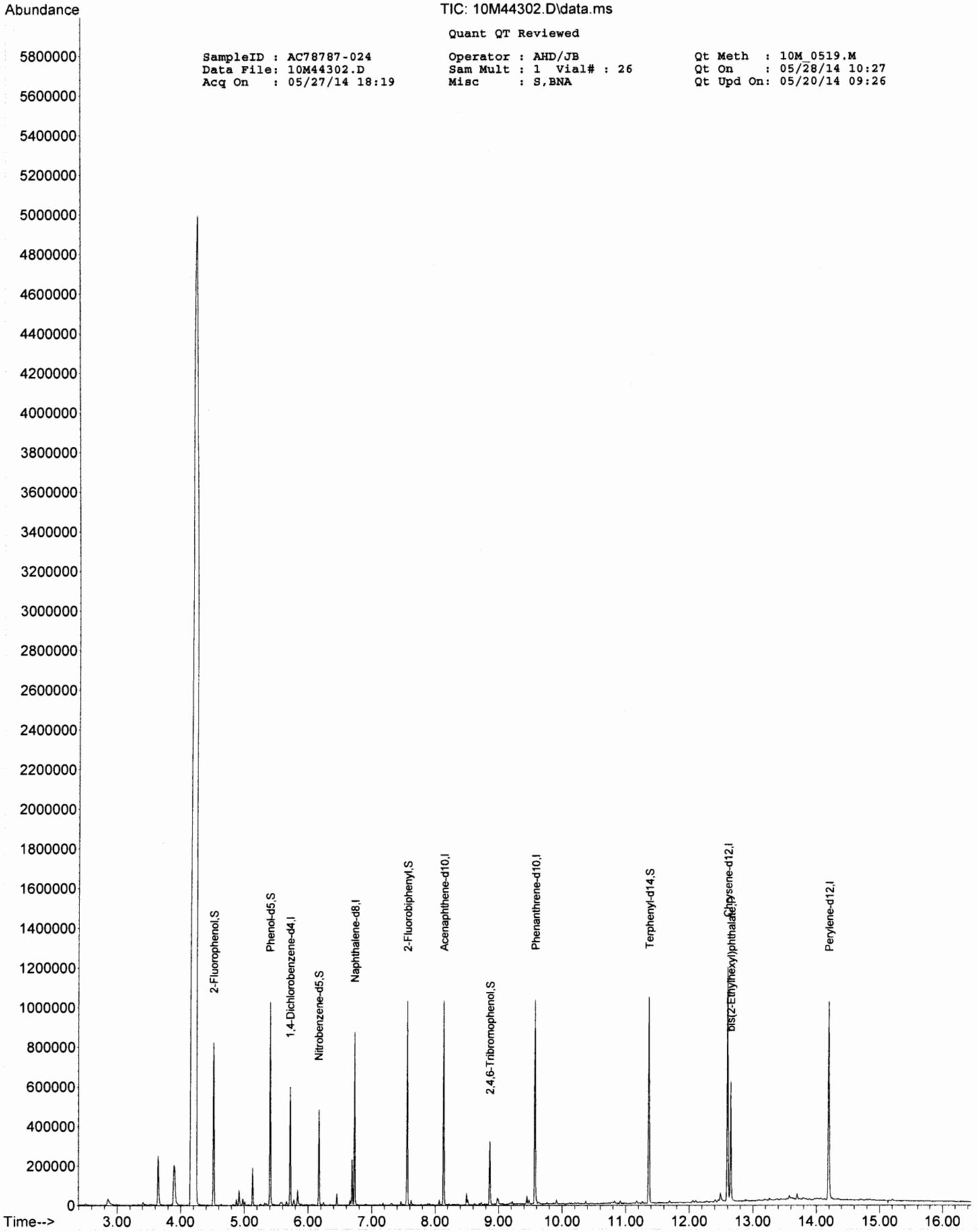
TIC: 10M44302.D\data.ms

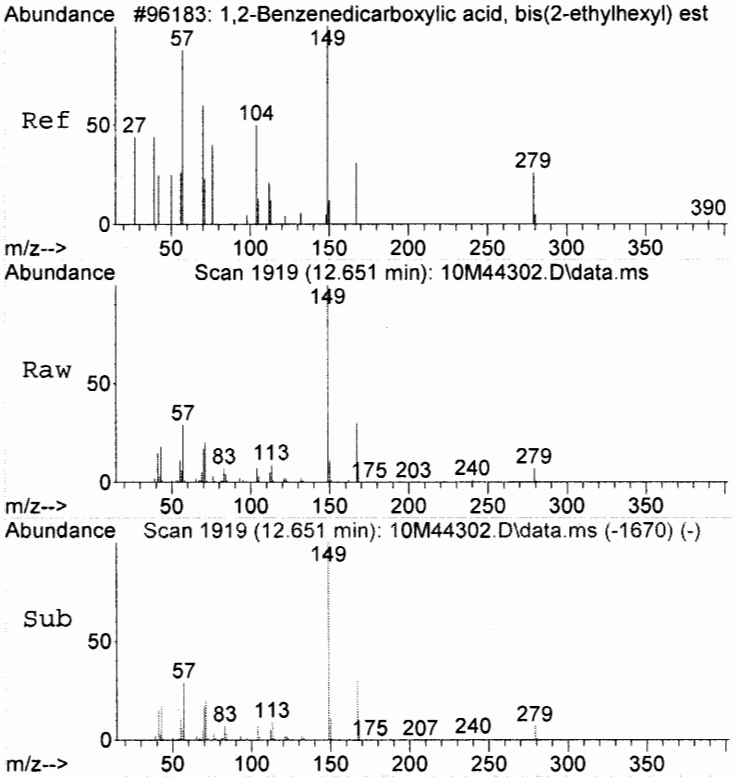
Quant QT Reviewed

SampleID : AC78787-024
Data File: 10M44302.D
Acq On : 05/27/14 18:19

Operator : AHD/JB
Sam Mult : 1 Vial# : 26
Misc : S,BNA

Qt Meth : 10M_0519.M
Qt On : 05/28/14 10:27
Qt Upd On: 05/20/14 09:26

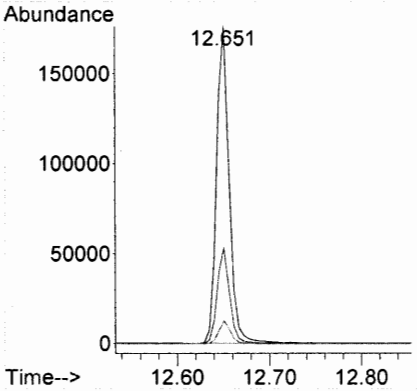




#99
bis(2-Ethylhexyl)phthalate
Concen: 21.68 ng
RT: 12.651 min Scan# 1919
Delta R.T. 0.006 min
Lab File: 10M44302.D
Acq: 27 May 2014 18:19

Tgt Ion:149 Resp: 168296

Ion	Ratio	Lower	Upper
149	100		
167	30.3	0.0	54.4
279	7.2	0.0	43.5



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-025
Client Id: BASE 3 (0-2')
Data File: 10M44303.D
Analysis Date: 05/27/14 18:41
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.036	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.036**	**0.086**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.036	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.036**	**0.039**
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	207-08-9	Benzo[k]fluoranthene	0.036	U
95-95-4	2,4,5-Trichlorophenol	0.036	U	111-91-1	bis(2-Chloroethoxy)methan	0.036	U
88-06-2	2,4,6-Trichlorophenol	0.036	U	111-44-4	bis(2-Chloroethyl)ether	0.0091	U
120-83-2	2,4-Dichlorophenol	0.0091	U	108-60-1	bis(2-chloroisopropyl)ether	0.036	U
105-67-9	2,4-Dimethylphenol	0.0091	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.036**	**0.12**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.036	U
121-14-2	2,4-Dinitrotoluene	0.036	U	105-60-2	Caprolactam	0.036	U
606-20-2	2,6-Dinitrotoluene	0.036	U	86-74-8	Carbazole	0.036	U
91-58-7	2-Chloronaphthalene	0.036	U	**218-01-9**	**Chrysene**	**0.036**	**0.076**
95-57-8	2-Chlorophenol	0.036	U	53-70-3	Dibenzo[a,h]anthracene	0.036	U
91-57-6	2-Methylnaphthalene	0.036	U	132-64-9	Dibenzofuran	0.0091	U
95-48-7	2-Methylphenol	0.0091	U	84-66-2	Diethylphthalate	0.036	U
88-74-4	2-Nitroaniline	0.036	U	131-11-3	Dimethylphthalate	0.036	U
88-75-5	2-Nitrophenol	0.036	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0091	U	117-84-0	Di-n-octylphthalate	0.036	U
91-94-1	3,3'-Dichlorobenzidine	0.036	U	**206-44-0**	**Fluoranthene**	**0.036**	**0.16**
99-09-2	3-Nitroaniline	0.036	U	86-73-7	Fluorene	0.036	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.036	U
101-55-3	4-Bromophenyl-phenylether	0.036	U	87-68-3	Hexachlorobutadiene	0.036	U
59-50-7	4-Chloro-3-methylphenol	0.036	U	77-47-4	Hexachlorocyclopentadiene	0.036	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.036	U
7005-72-3	4-Chlorophenyl-phenylether	0.036	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U
100-01-6	4-Nitroaniline	0.036	U	78-59-1	Isophorone	0.036	U
100-02-7	4-Nitrophenol	0.036	U	**91-20-3**	**Naphthalene**	**0.0091**	**0.010**
83-32-9	Acenaphthene	0.036	U	98-95-3	Nitrobenzene	0.036	U
208-96-8	Acenaphthylene	0.036	U	621-64-7	N-Nitroso-di-n-propylamine	0.0091	U
98-86-2	Acetophenone	0.036	U	86-30-6	n-Nitrosodiphenylamine	0.036	U
120-12-7	Anthracene	0.036	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.036	U	**85-01-8**	**Phenanthrene**	**0.036**	**0.11**
100-52-7	Benzaldehyde	0.036	U	**108-95-2**	**Phenol**	**0.036**	**0.049**
56-55-3	**Benzo[a]anthracene**	**0.036**	**0.077**	**129-00-0**	**Pyrene**	**0.036**	**0.14**
50-32-8	**Benzo[a]pyrene**	**0.036**	**0.061**				

Worksheet #: 304409

Total Target Concentration 0.93

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

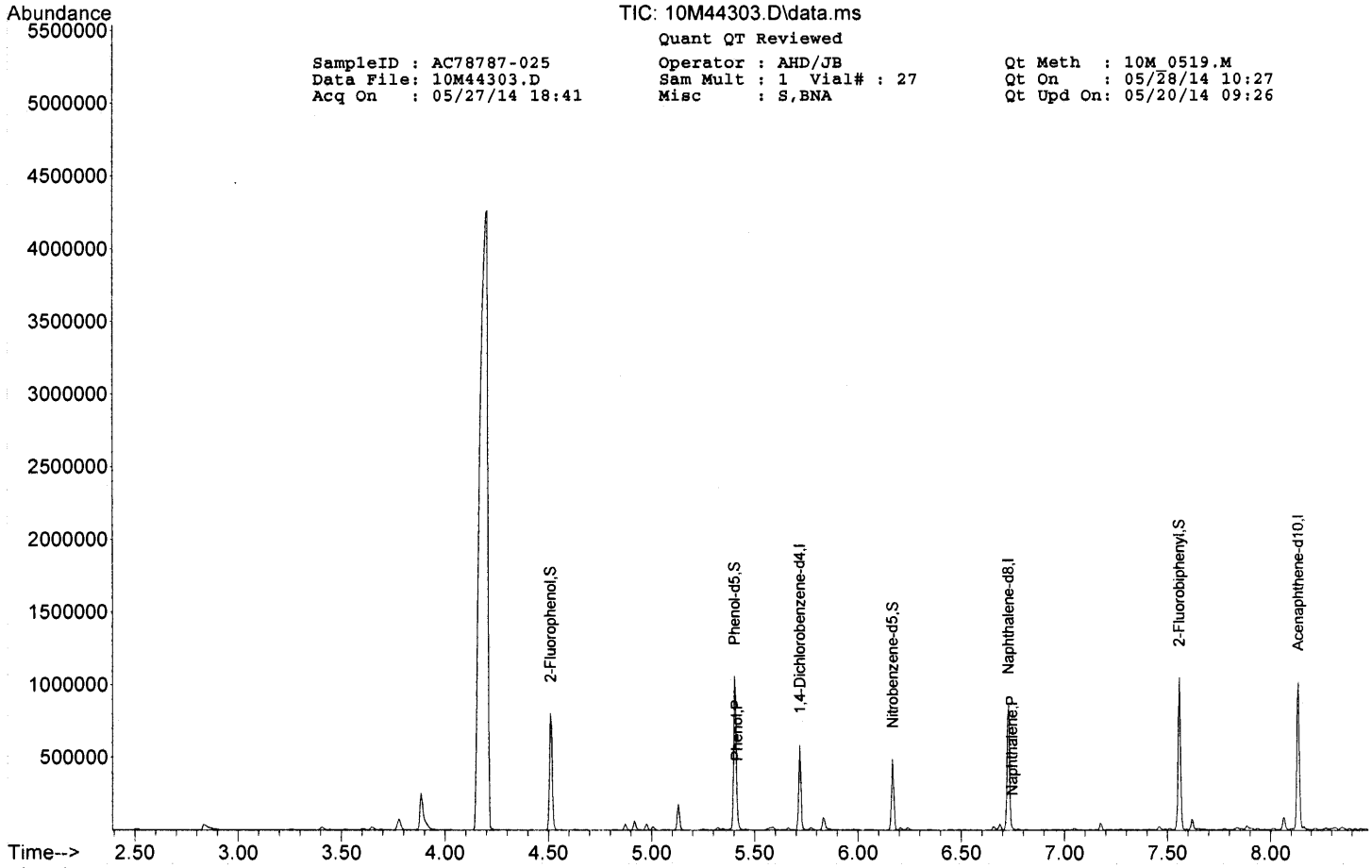
Quantitation Report (QT Reviewed)

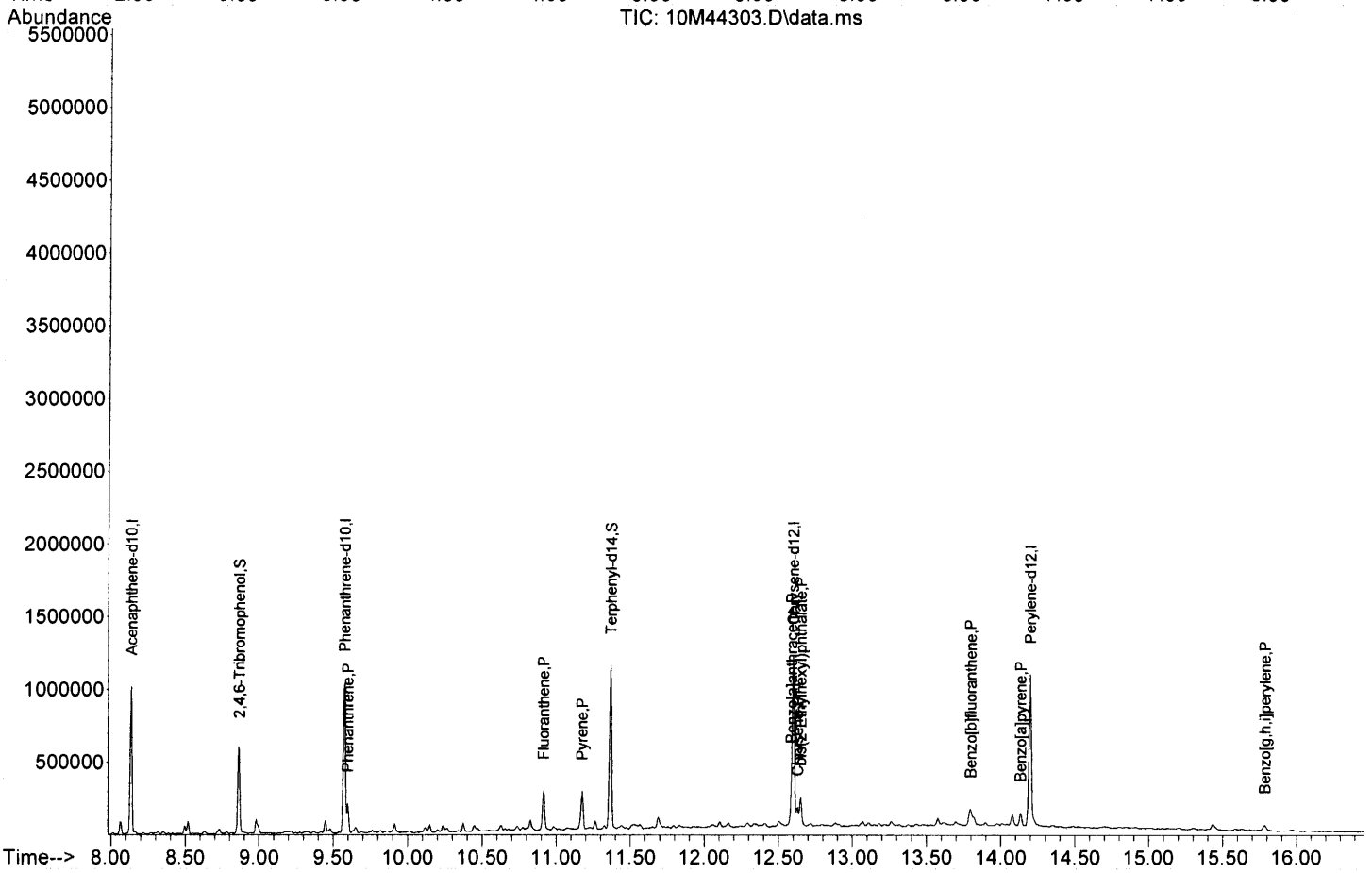
SampleID : AC78787-025 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44303.D Sam Mult : 1 Vial# : 27 Qt On : 05/28/14 10:27
Acq On : 05/27/14 18:41 Misc : S,BNA Qt Upd On: 05/20/14 09:26

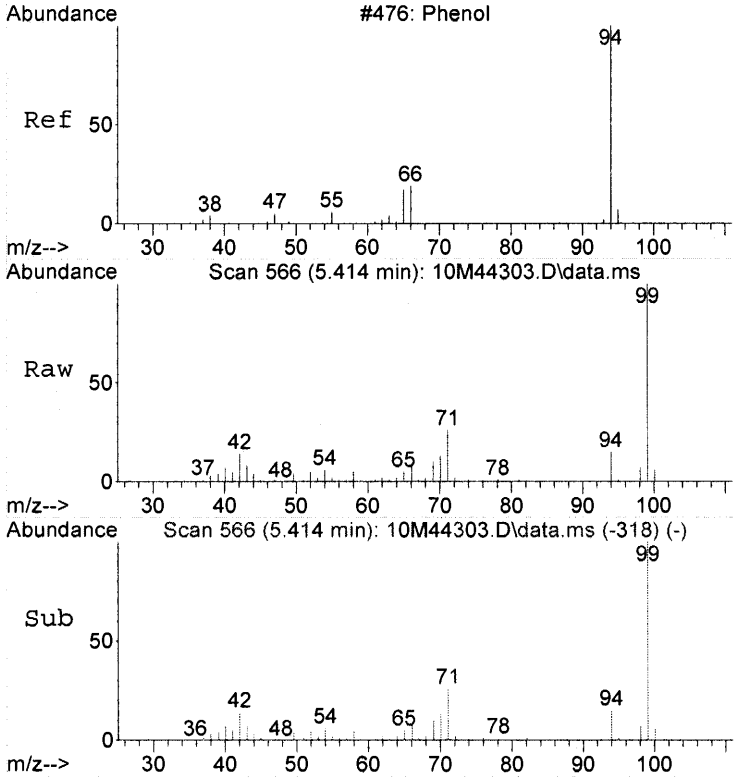
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	73675	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	326300	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	210572	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	401825	40.00	ng	0.00
88) Chrysene-d12	12.597	240	444882	40.00	ng	0.00
100) Perylene-d12	14.197	264	409279	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	221821	79.12	ng	0.00
Spiked Amount 100.000			Recovery = 79.12%			
15) Phenol-d5	5.403	99	352558	88.90	ng	0.00
Spiked Amount 100.000			Recovery = 88.90%			
30) Nitrobenzene-d5	6.168	128	57664	38.17	ng	0.00
Spiked Amount 50.000			Recovery = 76.34%			
52) 2-Fluorobiphenyl	7.559	172	280491	36.16	ng	0.00
Spiked Amount 50.000			Recovery = 72.32%			
77) 2,4,6-Tribromophenol	8.864	330	76850	57.35	ng	0.00
Spiked Amount 100.000			Recovery = 57.35%			
91) Terphenyl-d14	11.367	244	392856	40.95	ng	0.00
Spiked Amount 50.000			Recovery = 81.90%			
Target Compounds						Qvalue
16) Phenol	5.414	94	11602	2.7267	ng	86
39) Naphthalene	6.746	128	5268	0.5577	ng	98
83) Phenanthrene	9.597	178	73151	6.3070	ng	100
87) Fluoranthene	10.913	202	112211	8.7714	ng	98
89) Pyrene	11.175	202	107132	7.7812	ng	97
97) Benzo[a]anthracene	12.587	228	55476	4.2380	ng	96
98) Chrysene	12.629	228	49705	4.2009	ng	98
99) bis(2-Ethylhexyl)phtha...	12.651	149	51258	6.7145	ng	90
102) Benzo[b]fluoranthene	13.795	252	58075m	4.7493	ng	
104) Benzo[a]pyrene	14.132	252	39208	3.3526	ng	94
107) Benzo[g,h,i]perylene	15.785	276	23747	2.1437	ng	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44303.D\data.ms
Quant QT Reviewed
SampleID : AC78787-025
Data File: 10M44303.D
Acq On : 05/27/14 18:41
Operator : AHD/JB
Sam Mult : 1 Vial# : 27
Misc : S,BNA
Qt Meth : 10M_0519.M
Qt On : 05/28/14 10:27
Qt Upd On: 05/20/14 09:26
2-Fluorophenol,S
Phenol-d5,S
Phenol,P
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->

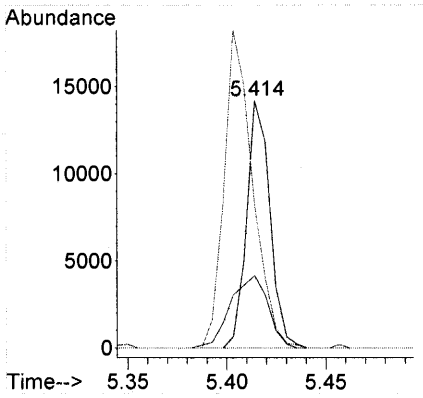

Abundance
TIC: 10M44303.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Phenanthrene,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Benzo[b]fluoranthene,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

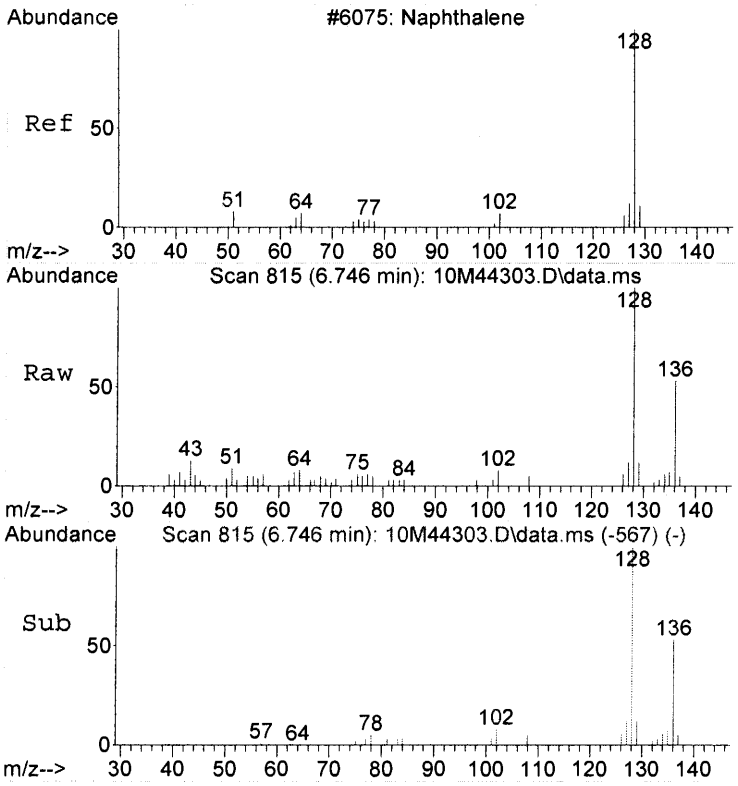


#16
Phenol
Concen: 2.73 ng
RT: 5.414 min Scan# 566
Delta R.T. -0.000 min
Lab File: 10M44303.D
Acq: 27 May 2014 18:41

Tgt Ion: 94 Resp: 11602

Ion	Ratio	Lower	Upper
94	100		
65	29.3	0.0	104.1
66	57.6	0.0	154.0

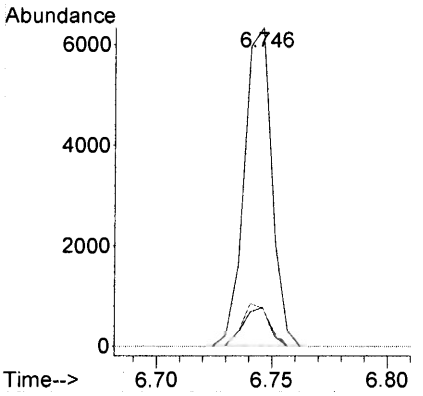


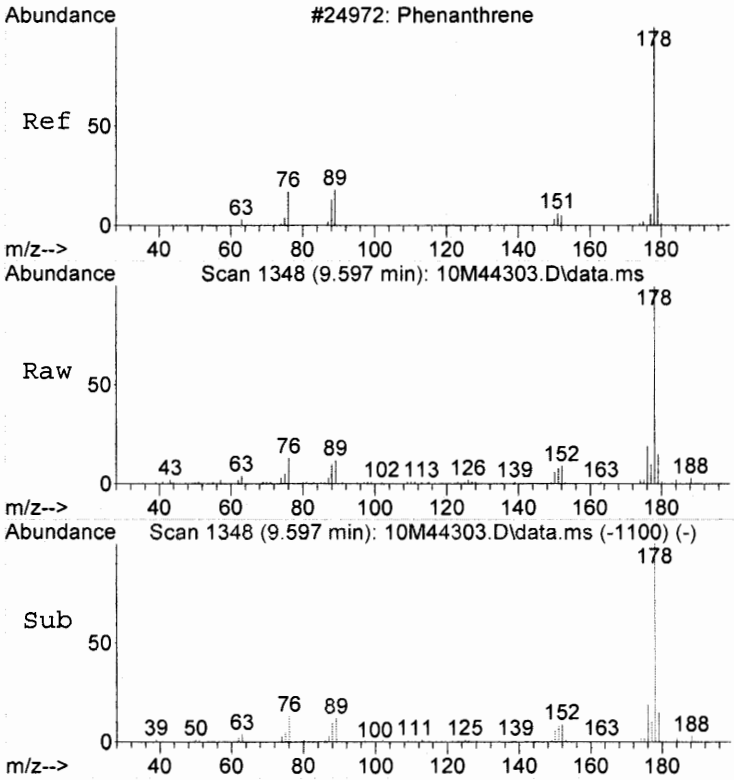


#39
Naphthalene
Concen: 0.56 ng
RT: 6.746 min Scan# 815
Delta R.T. -0.000 min
Lab File: 10M44303.D
Acq: 27 May 2014 18:41

Tgt Ion:128 Resp: 5268

Ion	Ratio	Lower	Upper
128	100		
129	12.2	0.0	50.9
127	12.0	0.0	52.4

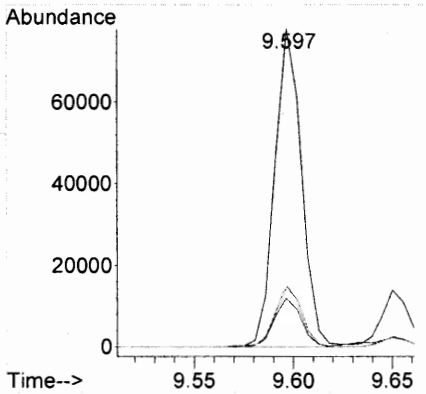


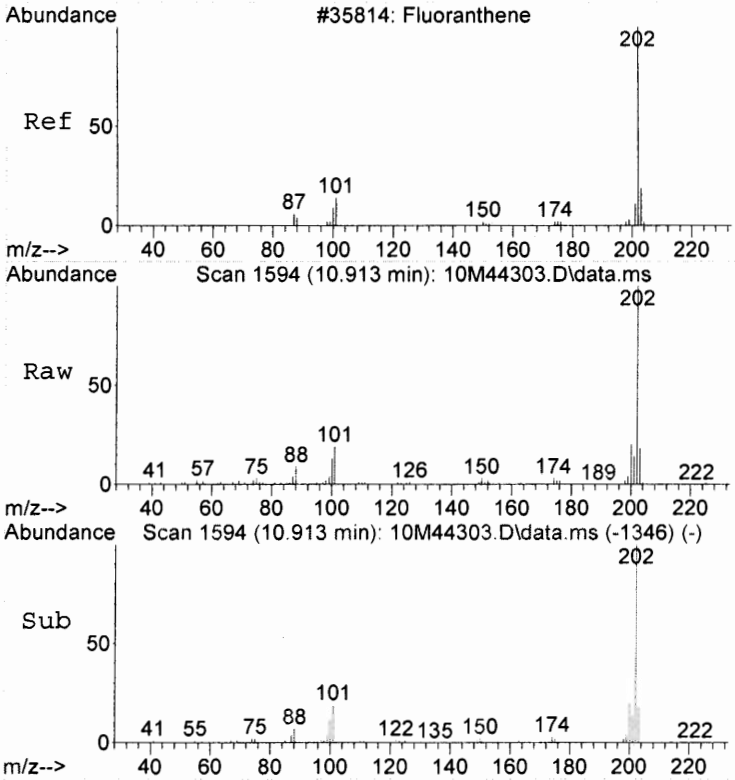


#83
Phenanthrene
Concen: 6.31 ng
RT: 9.597 min Scan# 1348
Delta R.T. -0.000 min
Lab File: 10M44303.D
Acq: 27 May 2014 18:41

Tgt Ion:178 Resp: 73151

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	55.5
176	19.0	0.0	59.3

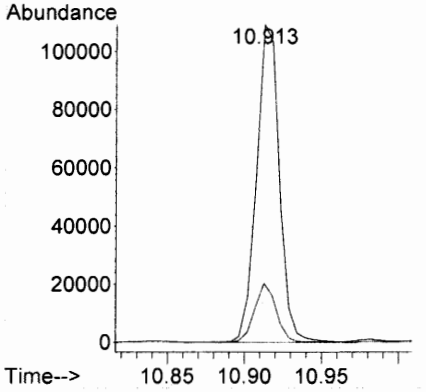


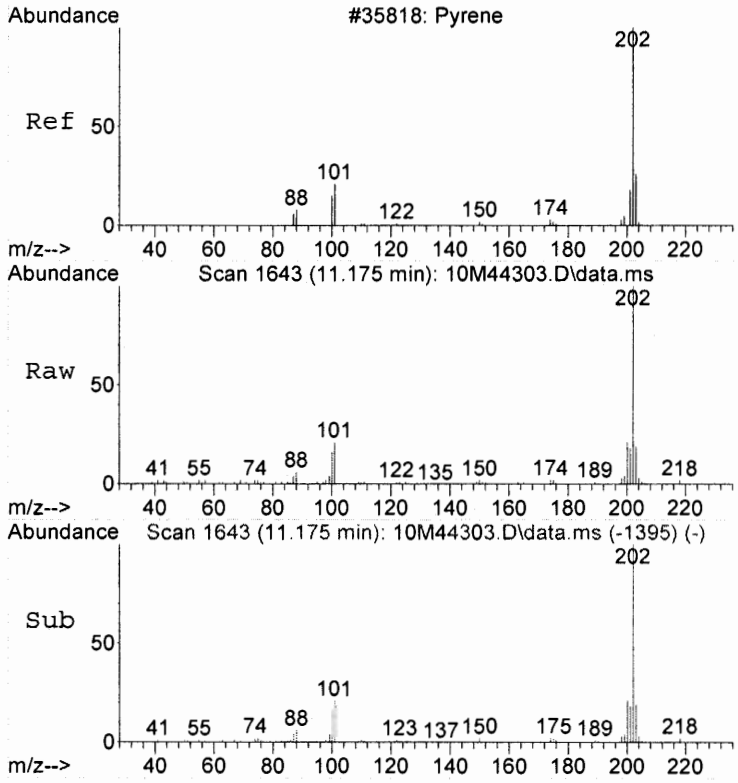


#87
Fluoranthene
Concen: 8.77 ng
RT: 10.913 min Scan# 1594
Delta R.T. -0.000 min
Lab File: 10M44303.D
Acq: 27 May 2014 18:41

Tgt Ion:202 Resp: 112211

Ion	Ratio	Lower	Upper
202	100		
101	18.6	0.0	57.6

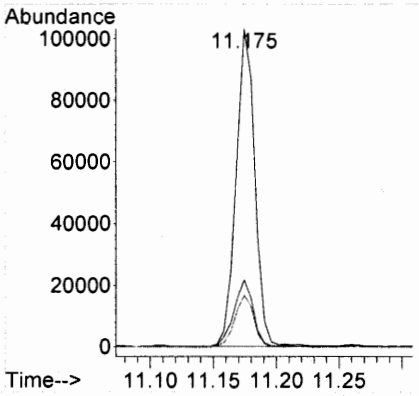


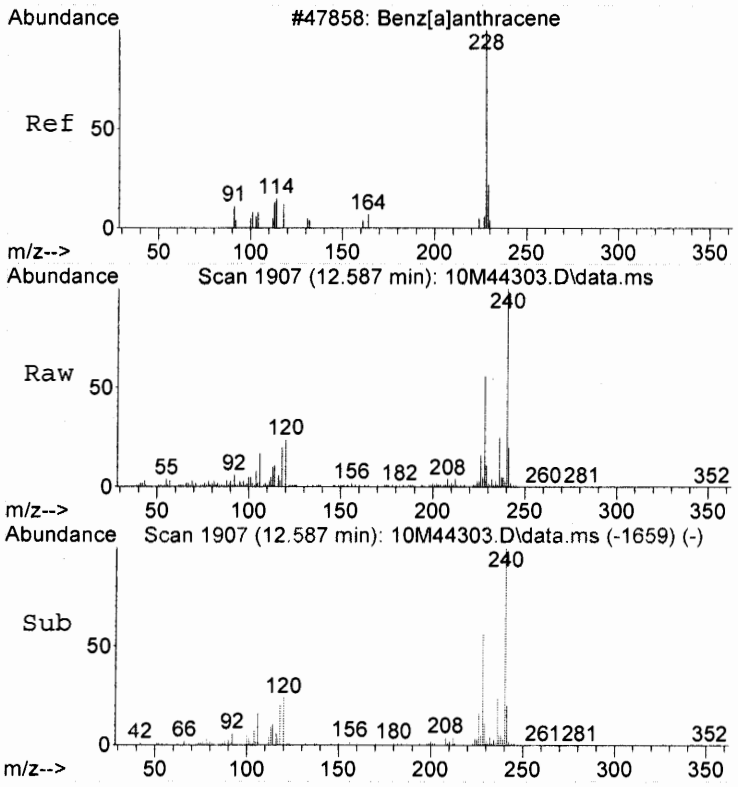


#89
Pyrene
Concen: 7.78 ng
RT: 11.175 min Scan# 1643
Delta R.T. -0.000 min
Lab File: 10M44303.D
Acq: 27 May 2014 18:41

Tgt Ion:202 Resp: 107132

Ion	Ratio	Lower	Upper
202	100		
101	21.0	0.0	62.2
100	16.3	0.0	57.8

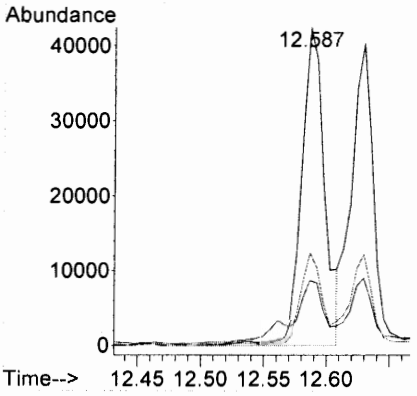


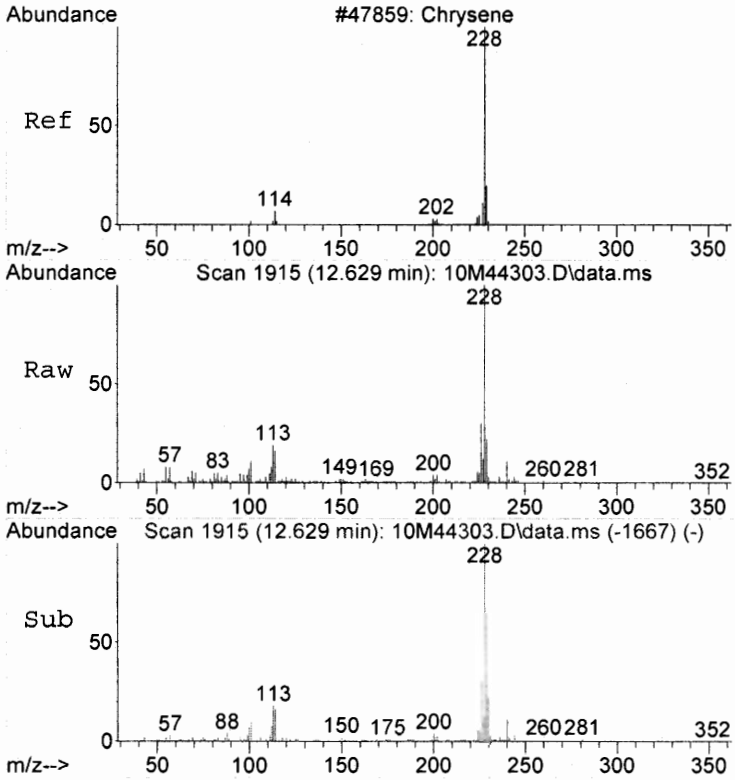


#97
Benzo[a]anthracene
Concen: 4.24 ng
RT: 12.587 min Scan# 1907
Delta R.T. -0.000 min
Lab File: 10M44303.D
Acq: 27 May 2014 18:41

Tgt Ion:228 Resp: 55476

Ion	Ratio	Lower	Upper
228	100		
229	19.9	0.0	59.5
226	29.2	0.0	66.0

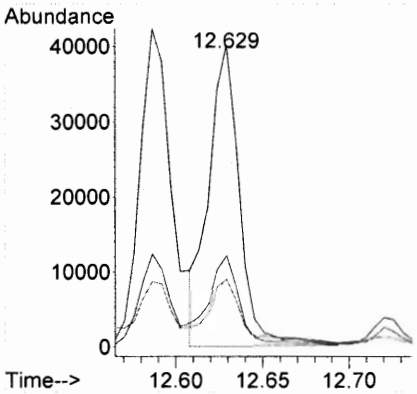


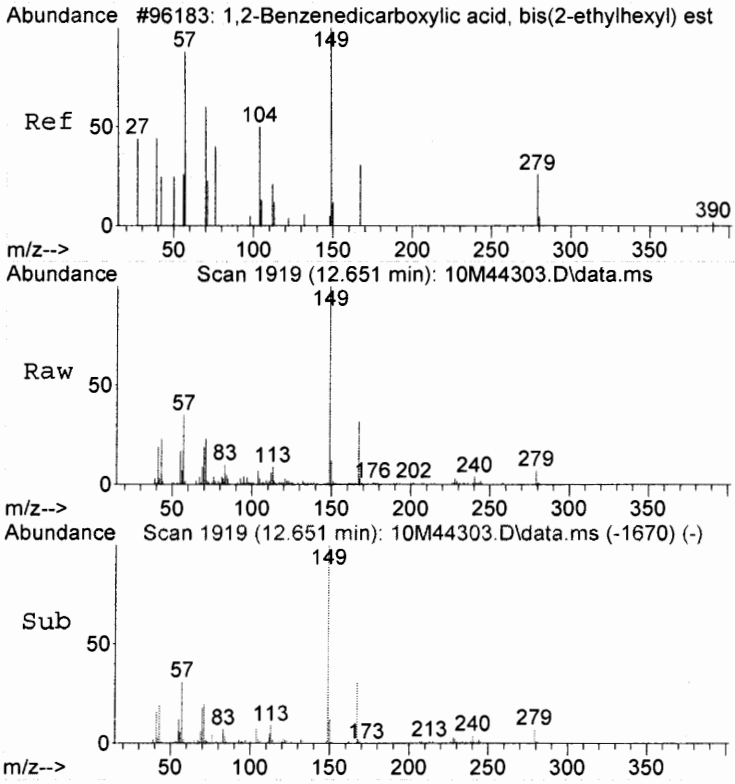


#98
Chrysene
Concen: 4.20 ng
RT: 12.629 min Scan# 1915
Delta R.T. -0.000 min
Lab File: 10M44303.D
Acq: 27 May 2014 18:41

Tgt Ion:228 Resp: 49705

Ion	Ratio	Lower	Upper
228	100		
226	30.0	9.5	49.5
229	21.5	0.0	60.2

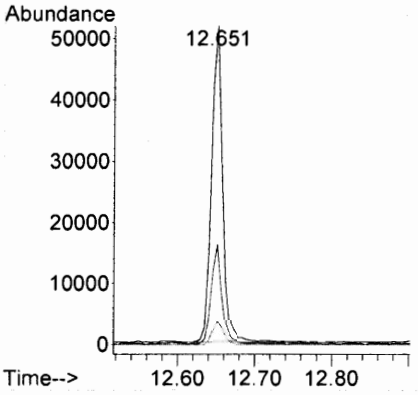


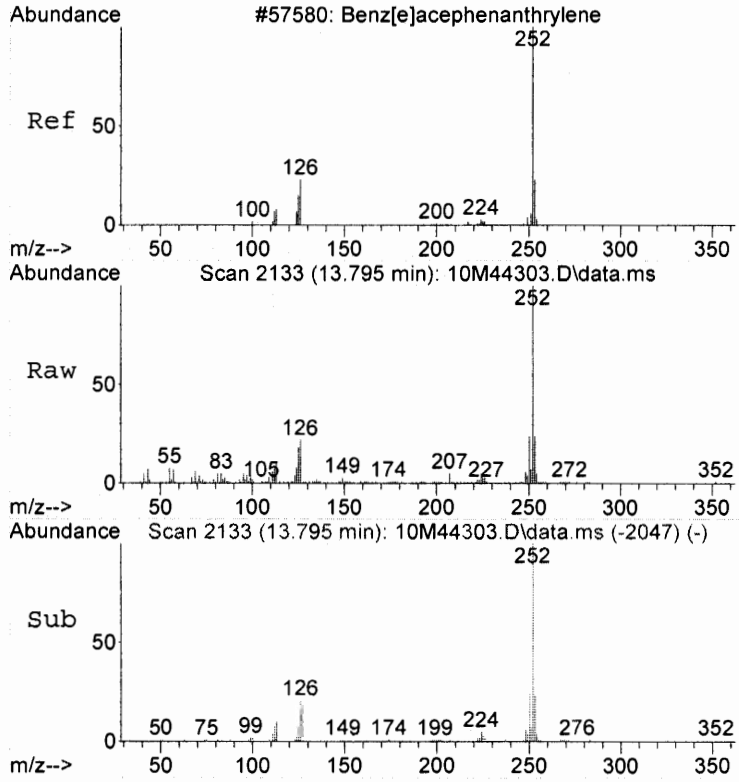


#99
bis(2-Ethylhexyl)phthalate
Concen: 6.71 ng
RT: 12.651 min Scan# 1919
Delta R.T. 0.006 min
Lab File: 10M44303.D
Acq: 27 May 2014 18:41

Tgt Ion:149 Resp: 51258

Ion	Ratio	Lower	Upper
149	100		
167	31.4	0.0	54.4
279	6.9	0.0	43.5

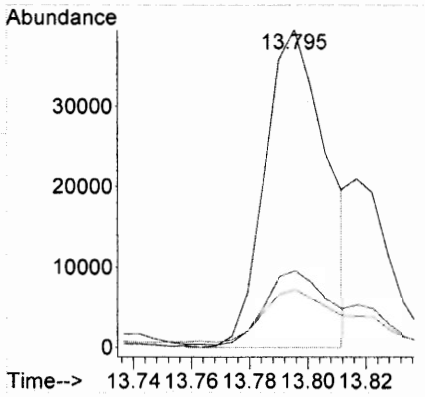


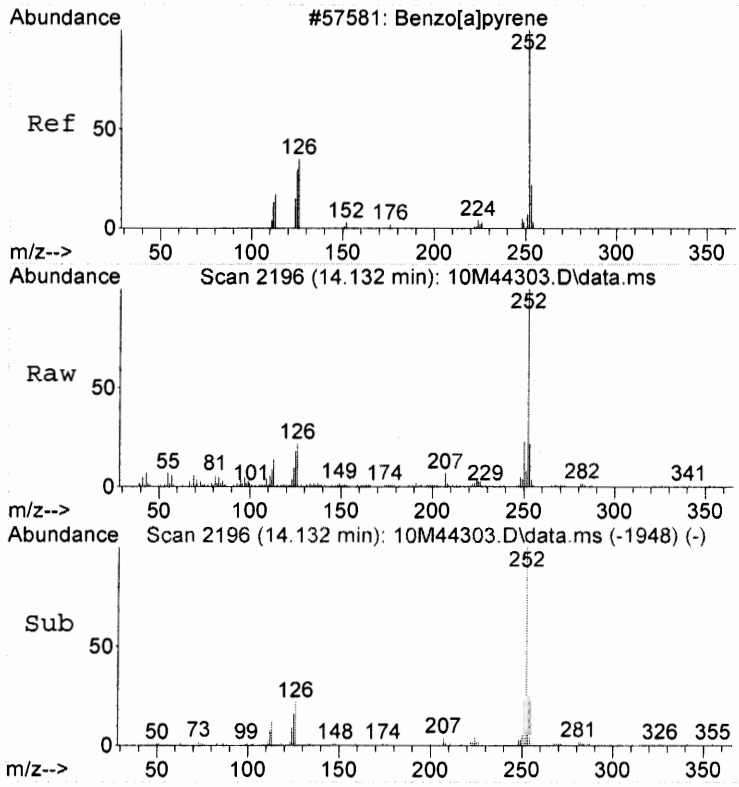


#102
Benzo[b]fluoranthene
Concen: 4.75 ng m
RT: 13.795 min Scan# 2133
Delta R.T. 0.005 min
Lab File: 10M44303.D
Acq: 27 May 2014 18:41

Tgt Ion:252 Resp: 58075

Ion	Ratio	Lower	Upper
252	100		
253	23.7	0.0	62.3
125	17.9	0.0	58.4

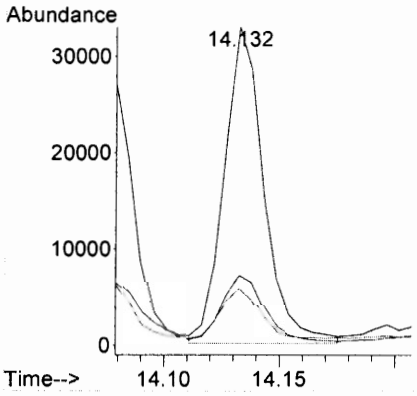


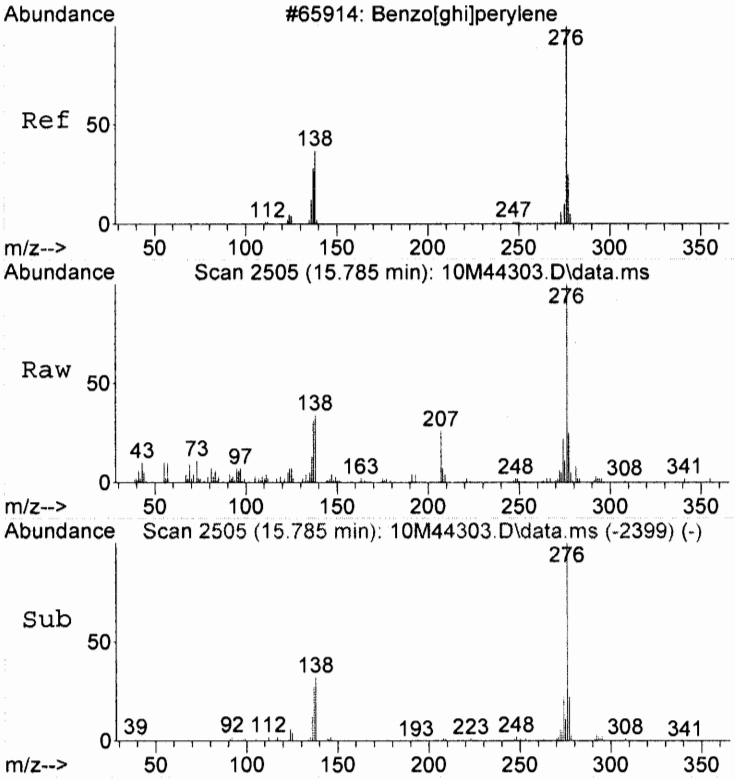


#104
Benzo[a]pyrene
Concen: 3.35 ng
RT: 14.132 min Scan# 2196
Delta R.T. -0.000 min
Lab File: 10M44303.D
Acq: 27 May 2014 18:41

Tgt Ion:252 Resp: 39208

Ion	Ratio	Lower	Upper
252	100		
253	21.3	0.0	62.4
125	16.1	0.0	60.9

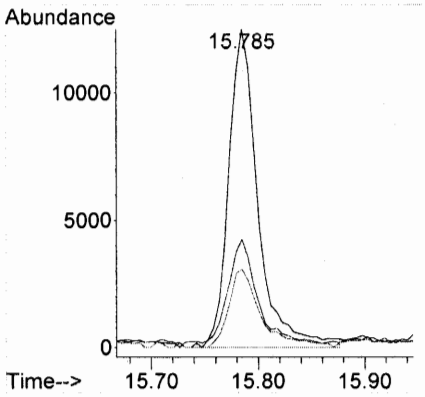




#107
Benzo[g,h,i]perylene
Concen: 2.14 ng
RT: 15.785 min Scan# 2505
Delta R.T. -0.000 min
Lab File: 10M44303.D
Acq: 27 May 2014 18:41

Tgt Ion:276 Resp: 23747

Ion	Ratio	Lower	Upper
276	100		
138	38.3	0.0	100.0
277	26.9	0.0	60.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC78787-026
Client Id: BASE 3 (3-5')
Data File: 10M44304.D
Analysis Date: 05/27/14 19:04
Date Rec/Extracted: 05/20/14-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.036	U	205-99-2	Benzo[b]fluoranthene	0.036	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.036	U	191-24-2	Benzo[g,h,i]perylene	0.036	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	207-08-9	Benzo[k]fluoranthene	0.036	U
95-95-4	2,4,5-Trichlorophenol	0.036	U	111-91-1	bis(2-Chloroethoxy)methan	0.036	U
88-06-2	2,4,6-Trichlorophenol	0.036	U	111-44-4	bis(2-Chloroethyl)ether	0.0090	U
120-83-2	2,4-Dichlorophenol	0.0090	U	108-60-1	bis(2-chloroisopropyl)ether	0.036	U
105-67-9	2,4-Dimethylphenol	0.0090	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.036**	**0.59**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.036	U
121-14-2	2,4-Dinitrotoluene	0.036	U	105-60-2	Caprolactam	0.036	U
606-20-2	2,6-Dinitrotoluene	0.036	U	86-74-8	Carbazole	0.036	U
91-58-7	2-Chloronaphthalene	0.036	U	218-01-9	Chrysene	0.036	U
95-57-8	2-Chlorophenol	0.036	U	53-70-3	Dibenzo[a,h]anthracene	0.036	U
91-57-6	2-Methylnaphthalene	0.036	U	132-64-9	Dibenzofuran	0.0090	U
95-48-7	2-Methylphenol	0.0090	U	84-66-2	Diethylphthalate	0.036	U
88-74-4	2-Nitroaniline	0.036	U	131-11-3	Dimethylphthalate	0.036	U
88-75-5	2-Nitrophenol	0.036	U	84-74-2	Di-n-butylphthalate	0.018	U
106-44-5	3&4-Methylphenol	0.0090	U	117-84-0	Di-n-octylphthalate	0.036	U
91-94-1	3,3'-Dichlorobenzidine	0.036	U	206-44-0	Fluoranthene	0.036	U
99-09-2	3-Nitroaniline	0.036	U	86-73-7	Fluorene	0.036	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.036	U
101-55-3	4-Bromophenyl-phenylether	0.036	U	87-68-3	Hexachlorobutadiene	0.036	U
59-50-7	4-Chloro-3-methylphenol	0.036	U	77-47-4	Hexachlorocyclopentadiene	0.036	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.036	U
7005-72-3	4-Chlorophenyl-phenylether	0.036	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U
100-01-6	4-Nitroaniline	0.036	U	78-59-1	Isophorone	0.036	U
100-02-7	4-Nitrophenol	0.036	U	91-20-3	Naphthalene	0.0090	U
83-32-9	Acenaphthene	0.036	U	98-95-3	Nitrobenzene	0.036	U
208-96-8	Acenaphthylene	0.036	U	621-64-7	N-Nitroso-di-n-propylamine	0.0090	U
98-86-2	Acetophenone	0.036	U	86-30-6	n-Nitrosodiphenylamine	0.036	U
120-12-7	Anthracene	0.036	U	87-86-5	Pentachlorophenol	0.18	U
1912-24-9	Atrazine	0.036	U	85-01-8	Phenanthrene	0.036	U
100-52-7	Benzaldehyde	0.036	U	**108-95-2**	**Phenol**	**0.036**	**0.051**
56-55-3	Benzo[a]anthracene	0.036	U	129-00-0	Pyrene	0.036	U
50-32-8	Benzo[a]pyrene	0.036	U				

Worksheet #: 304385 ***Total Target Concentration*** 0.64 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

SampleID : AC78787-026 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44304.D Sam Mult : 1 Vial# : 28 Qt On : 05/28/14 10:28
Acq On : 05/27/14 19:04 Misc : S,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	71509	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	320344	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	206128	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	393972	40.00	ng	0.00
88) Chrysene-d12	12.597	240	429049	40.00	ng	0.00
100) Perylene-d12	14.197	264	393851	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	202657	74.47	ng	0.00
Spiked Amount 100.000			Recovery = 74.47%			
15) Phenol-d5	5.403	99	322643	83.82	ng	0.00
Spiked Amount 100.000			Recovery = 83.82%			
30) Nitrobenzene-d5	6.168	128	51215	34.53	ng	0.00
Spiked Amount 50.000			Recovery = 69.06%			
52) 2-Fluorobiphenyl	7.559	172	251857	33.16	ng	0.00
Spiked Amount 50.000			Recovery = 66.32%			
77) 2,4,6-Tribromophenol	8.864	330	58110	45.33	ng	0.00
Spiked Amount 100.000			Recovery = 45.33%			
91) Terphenyl-d14	11.367	244	344348	37.22	ng	0.00
Spiked Amount 50.000			Recovery = 74.44%			
Target Compounds						Qvalue
16) Phenol	5.414	94	11705	2.8343	ng	94
99) bis(2-Ethylhexyl)phtha...	12.651	149	249303	33.1626	ng	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

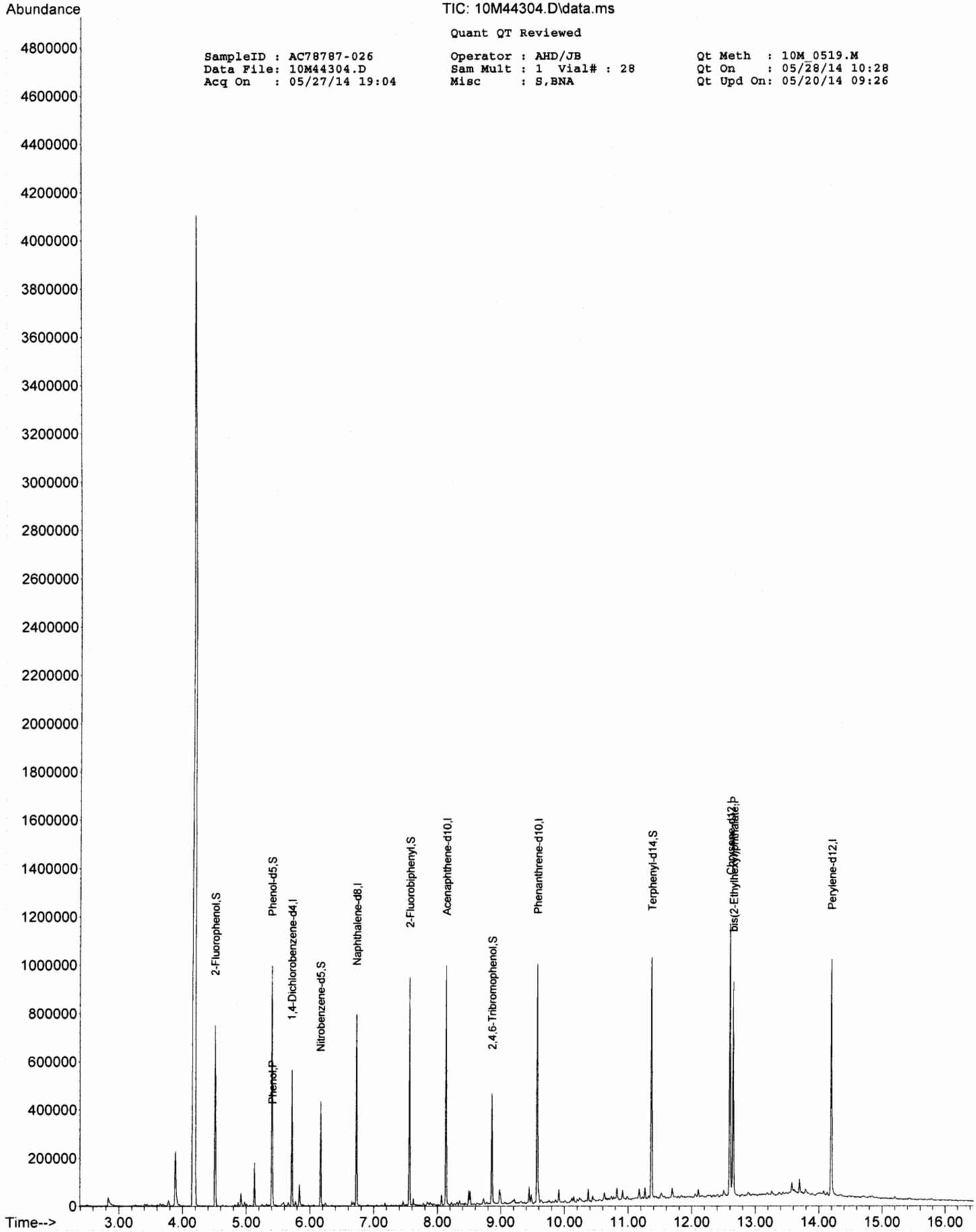
TIC: 10M44304.D\data.ms

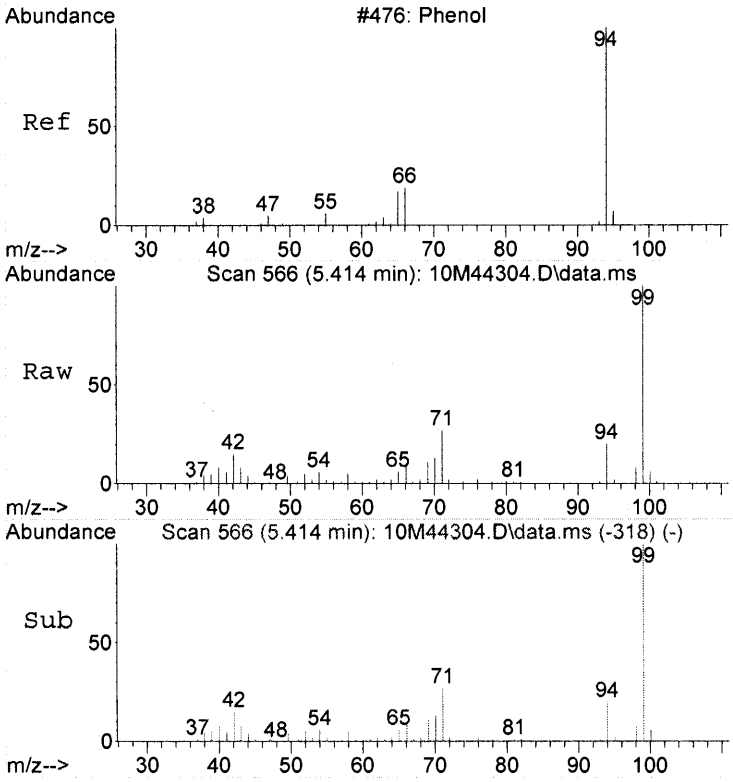
Quant QT Reviewed

SampleID : AC78787-026
Data File: 10M44304.D
Acq On : 05/27/14 19:04

Operator : AHD/JB
Sam Mult : 1 Vial# : 28
Misc : S,BNA

Qt Meth : 10M_0519.M
Qt On : 05/28/14 10:28
Qt Upd On: 05/20/14 09:26

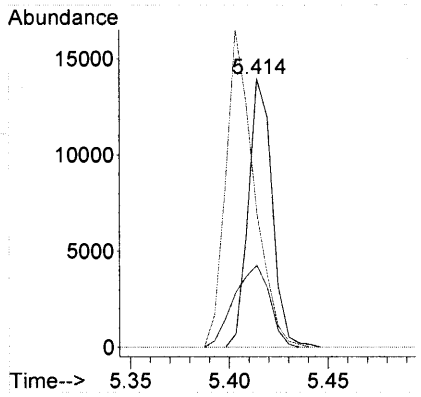


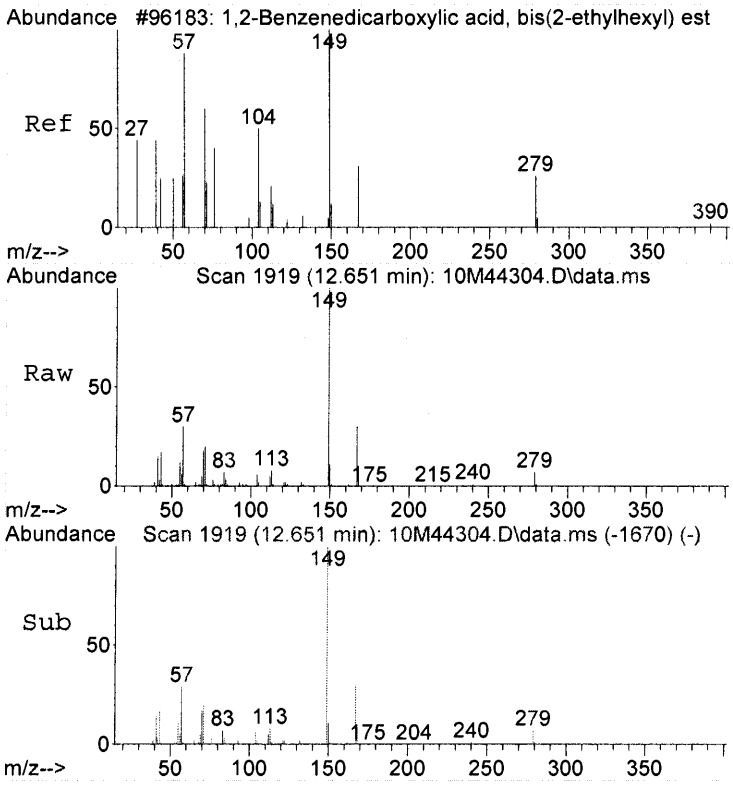


#16
Phenol
Concen: 2.83 ng
RT: 5.414 min Scan# 566
Delta R.T. -0.000 min
Lab File: 10M44304.D
Acq: 27 May 2014 19:04

Tgt Ion: 94 Resp: 11705

Ion	Ratio	Lower	Upper
94	100		
65	30.5	0.0	104.1
66	50.0	0.0	154.0

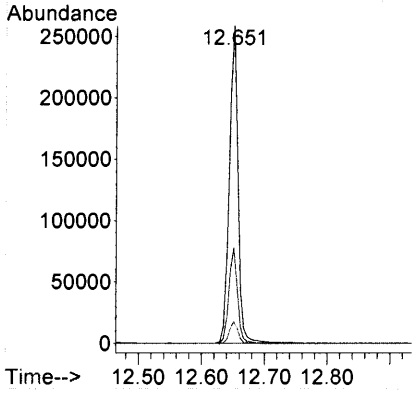




#99
bis(2-Ethylhexyl)phthalate
Concen: 33.16 ng
RT: 12.651 min Scan# 1919
Delta R.T. 0.006 min
Lab File: 10M44304.D
Acq: 27 May 2014 19:04

Tgt Ion:149 Resp: 249303

Ion	Ratio	Lower	Upper
149	100		
167	30.1	0.0	54.4
279	7.0	0.0	43.5



GC/MS Semi-Volatile Data
Standards Data

4052101 0732

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M44114.	CAL BNA@50PPM	05/19/14 13:13	2	10M44112.	CAL BNA@2PPM	05/19/14 12:28
3	10M44111.	CAL BNA@10PPM	05/19/14 12:01	4	10M44110.	CAL BNA@20PPM	05/19/14 11:39
5	10M44109.	CAL BNA@80PPM	05/19/14 11:13	6	10M44108.	CAL BNA@120PPM	05/19/14 10:49
7	10M44107.	CAL BNA@160PPM	05/19/14 10:26	8	10M44105.	CAL BNA@196PPM	05/19/14 09:38
9	10M44113.	CAL BNA@.5PPM	05/19/14 12:50				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd			Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Pyridine	1	0	Avg	2.0156	1.8811	1.7088	1.8401	2.0008	1.9796	1.9510	2.2262	-----	1.95	2.92	0.996	0.998	7.7			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.1717	1.1149	0.9991	1.0741	1.1820	1.2063	1.2113	1.4167	-----	1.17	2.85	0.988	0.996	10			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	1.5247	1.4213	1.2964	1.3856	1.5435	1.5775	1.5889	1.8393	-----	1.52	4.51	0.993	0.998	11			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.1326	1.2286	1.1112	1.1652	1.1246	1.1236	1.0625	1.3855	-----	1.17	5.34	0.986	0.991	8.6	0.01		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Qua	2.5659	2.1158	2.0494	2.2069	2.4775	2.4077	2.3624	2.6033	1.5548	2.26	5.44	0.998	0.998	14			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.5851	0.6307	0.5344	0.5560	0.5699	0.5696	0.5562	0.6264	-----	0.579	5.48	0.994	0.996	5.9	0.05		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	1.6537	1.9033	1.6042	1.6372	1.5764	1.5309	1.5335	1.6976	1.3987	1.62	5.49	0.995	0.997	8.6	0.70		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.2043	2.1201	1.9509	2.0728	2.1848	2.1656	2.1200	2.4069	-----	2.15	5.40	0.993	0.996	6.0			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	2.3777	2.4913	2.1520	2.2613	2.2989	2.2448	2.1863	2.4681	-----	2.31	5.41	0.993	0.996	5.4	0.80		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	1.6054	1.6613	1.4850	1.5403	1.5659	1.5511	1.5404	1.7503	-----	1.59	5.54	0.992	0.996	5.3	0.80		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.7579	2.0489	1.6819	1.7011	1.6427	1.5912	1.5153	1.6491	-----	1.70	5.59	0.996	0.996	9.4	0.05		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.3-Dichlorobenzene	1	0	Avg	1.6874	1.9279	1.5806	1.6347	1.6405	1.6327	1.5914	1.7851	-----	1.69	5.67	0.994	0.996	6.9			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.4-Dichlorobenzene	1	0	Avg	1.6930	1.9707	1.6095	1.6255	1.6361	1.6188	1.5841	1.7975	-----	1.69	5.74	0.993	0.996	7.7			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2-Dichlorobenzene	1	0	Avg	1.6151	1.8485	1.5279	1.5576	1.5503	1.5412	1.4968	1.6843	-----	1.60	5.86	0.994	0.996	7.2			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	1.0973	1.0518	0.9734	1.0574	1.1024	1.0974	1.0848	1.2292	-----	1.09	5.84	0.993	0.996	6.6			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)et	1	0	Avg	2.3160	2.7231	2.2595	2.3014	2.1732	2.1143	2.0296	2.2897	-----	2.28	5.95	0.993	0.995	9.1	0.01		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.5288	1.6039	1.3841	1.4552	1.4966	1.4846	1.4579	1.6498	1.0451	1.46	5.93	0.997	0.998	12	0.70		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	2.2687	2.5070	2.1281	2.2219	2.1237	1.9981	1.8885	2.1022	-----	2.15	6.05	0.997	0.997	8.6	0.01		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.6289	0.6843	0.5791	0.5979	0.6246	0.6253	0.6157	0.6818	-----	0.630	6.14	0.995	0.998	5.9	0.30		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propylar	1	0	Avg	1.2031	1.2482	1.1630	1.2174	1.1131	1.0400	0.9919	1.0980	0.8921	1.11	6.05	0.996	0.997	11	0.50		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.5941	1.6538	1.4923	1.5727	1.4918	1.3899	1.3122	1.4425	1.1227	1.45	6.05	0.995	0.995	11			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1864	0.1665	0.1636	0.1738	0.1910	0.1889	0.1922	0.2188	-----	0.185	6.17	0.991	0.997	9.5			25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.4372	0.4407	0.4011	0.4148	0.4246	0.4099	0.4053	0.4576	-----	0.424	6.18	0.993	0.996	4.7	0.20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.8072	0.7606	0.6996	0.7564	0.7908	0.7611	0.7583	0.8445	-----	0.772	6.38	0.994	0.996	5.5	0.40		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Qua	0.2093	0.1538	0.1648	0.1912	0.2169	0.2173	0.2164	0.2473	-----	0.202	6.44	0.992	0.996	15	0.10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dimethylphenol	1	0	Avg	0.4165	0.4101	0.3729	0.4017	0.4047	0.3916	0.3850	0.4290	0.2887	0.389	6.46	0.998	0.998	11	0.20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1923	-----	0.0199	0.0975	0.2688	0.2946	0.3133	0.3127	-----	0.214	6.54	0.993	0.997	54			50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)met	1	0	Avg	0.5201	0.5608	0.4812	0.5022	0.5007	0.4811	0.4703	0.5242	-----	0.505	6.54	0.995	0.996	5.8	0.30		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dichlorophenol	1	0	Avg	0.3318	0.2936	0.2840	0.3105	0.3268	0.3205	0.3161	0.3549	0.1882	0.303	6.62	0.997	0.998	16	0.20	a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1.2.4-Trichlorobenzene	1	0	Avg	0.3539	0.3876	0.3164	0.3308	0.3427	0.3370	0.3335	0.3778	-----	0.348	6.69	0.993	0.996	7.0			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.1994	1.3896	1.1273	1.1525	1.1362	1.0810	1.0433	1.1644	1.1265	1.16	6.75	0.997	0.997	8.5	0.70		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Qua	0.4896	0.4120	0.3834	0.4119	0.4574	0.4124	0.3918	0.3483	0.2995	0.401	6.78	0.982	0.999	14	0.01		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1853	0.1959	0.1663	0.1727	0.1845	0.1825	0.1849	0.2097	-----	0.185	6.84	0.992	0.997	7.2	0.01		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Qua	0.1481	0.1004	0.1168	0.1381	0.1487	0.1563	0.1592	0.1719	-----	0.142	7.05	0.996	1.00	16	0.01		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphen	1	0	Avg	0.3604	0.3182	0.3106	0.3386	0.3589	0.3477	0.3471	0.3747	-----	0.345	7.14	0.997	0.998	6.3	0.20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.8066	0.8733	0.7417	0.7655	0.7711	0.7270	0.6906	0.7601	-----	0.767	7.28	0.995	0.995	7.1	0.40		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	1.6117	1.7483	1.4920	1.5297	1.5273	1.4416	1.3816	1.5097	-----	1.53	7.28	0.996	0.996	7.2			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.1'-Biphenyl	1	0	Avg	0.9763	1.1026	0.9253	0.9427	0.9256	0.8674	0.8496	0.9093	-----	0.937	7.64	0.997	0.997	8.3	0.01		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2.4.5-Tetrachloroben:	1	0	Avg	0.6387	0.7272	0.5860	0.6120	0.6213	0.6114	0.5986	0.6917	-----	0.636	7.40	0.991	0.995	7.7	0.01		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorocyclopentac	1	0	Qua	0.3291	0.2334	0.2500	0.2912	0.3493	0.3612	0.3589	0.4165	-----	0.324	7.40	0.992	0.998	19	0.05		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4.6-Trichlorophenol	1	0	Avg	0.3946	0.3103	0.3370	0.3687	0.4002	0.4344	0.4075	0.4744	-----	0.391	7.49	0.990	0.995	13	0.20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

4052101 0733

Form 6
Initial Calibration

Method: EPA 8270D

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M44114.	CAL BNA@50PPM	05/19/14 13:13	2	10M44112.	CAL BNA@2PPM	05/19/14 12:28
3	10M44111.	CAL BNA@10PPM	05/19/14 12:01	4	10M44110.	CAL BNA@20PPM	05/19/14 11:39
5	10M44109.	CAL BNA@80PPM	05/19/14 11:13	6	10M44108.	CAL BNA@120PPM	05/19/14 10:49
7	10M44107.	CAL BNA@160PPM	05/19/14 10:26	8	10M44105.	CAL BNA@196PPM	05/19/14 09:38
9	10M44113.	CAL BNA@.5PPM	05/19/14 12:50				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
2.4.5-Trichlorophenol	1	0	Avg	0.4002	0.3101	0.3259	0.3717	0.4148	0.4136	0.4171	0.4639	-----	0.390	7.52	0.994	0.998	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4831	1.6699	1.3882	1.4175	1.4462	1.4103	1.3896	1.5841	-----	1.47	7.56	0.996	0.997	6.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2325	1.4337	1.1932	1.2140	1.1867	1.1611	1.1293	1.2769	-----	1.23	7.67	0.993	0.995	7.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.4-Dimethylnaphthalei	1	0	Avg	1.0220	1.1831	0.9836	1.0023	0.9548	0.9104	0.8602	0.9674	-----	0.986	7.94	0.997	0.997	9.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0220	1.1831	0.9836	1.0023	0.9548	0.9104	0.8602	0.9674	-----	0.986	7.94	0.997	0.997	9.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.9584	1.1163	0.9047	0.9290	0.9186	0.8964	0.8613	0.9789	-----	0.945	7.73	0.993	0.995	8.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4734	0.4300	0.4189	0.4547	0.4565	0.4400	0.4290	0.4839	-----	0.448	7.74	0.997	0.997	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.5681	0.6007	0.5247	0.5487	0.5464	0.5381	0.5145	0.5843	-----	0.553	7.92	0.993	0.995	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.9979	2.1821	1.8945	1.9508	1.8856	1.8390	1.7645	1.9901	-----	1.94	8.01	0.997	0.997	6.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.4313	1.5757	1.3349	1.4000	1.3838	1.3598	1.3286	1.5012	-----	1.41	7.89	0.993	0.996	6.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.6-Dinitrotoluene	1	0	Avg	0.3293	0.2656	0.2938	0.3172	0.3136	0.2980	0.2857	0.3178	-----	0.303	7.94	0.997	0.997	6.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.3171	1.4825	1.2365	1.2664	1.2400	1.1966	1.1412	1.2965	-----	1.27	8.16	0.993	0.994	8.0	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3910	0.3381	0.3346	0.3581	0.3680	0.3413	0.3229	0.3700	-----	0.353	8.08	0.995	0.996	6.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dinitrophenol	1	0	Qua	0.1591	-----	0.0629	0.1114	0.1872	0.1968	0.2064	0.2253	-----	0.164	8.17	0.995	0.999	35	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.8264	2.0855	1.7273	1.7680	1.7300	1.6858	1.6236	1.8227	1.7545	1.78	8.32	0.998	0.998	7.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2.4-Dinitrotoluene	1	0	Qua	0.4386	0.3026	0.3576	0.4058	0.4382	0.4351	0.4421	0.5048	-----	0.416	8.29	0.995	0.998	15	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2996	0.1514	0.2258	0.2595	0.2797	0.2763	0.2777	0.3132	-----	0.260	8.21	0.996	0.997	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.3.4.6-Tetrachlorophe	1	0	Avg	0.3549	0.2292	0.2945	0.3297	0.3599	0.3528	0.3591	0.4046	-----	0.336	8.42	0.996	0.998	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.5324	1.6954	1.4444	1.5001	1.4315	1.3667	1.3095	1.4673	-----	1.47	8.63	0.994	0.995	7.9	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7217	0.7517	0.6513	0.6736	0.6986	0.6982	0.6839	0.7674	-----	0.706	8.62	0.994	0.997	5.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.4165	1.4598	1.3055	1.3610	1.3924	1.3568	1.3329	1.5126	-----	1.39	8.51	0.993	0.996	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.4262	0.3172	0.3644	0.4007	0.4100	0.4001	0.3981	0.4640	-----	0.398	8.64	0.989	0.994	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3838	0.3053	0.3186	0.3552	0.3811	0.3778	0.3858	0.4437	-----	0.369	9.26	0.993	0.998	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4.6-Dinitro-2-methylphe	1	0	Qua	0.1239	-----	0.0726	0.0999	0.1354	0.1410	0.1471	0.1641	-----	0.126	8.67	0.994	0.999	25	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamine	1	0	Avg	0.7137	0.7553	0.6658	0.6765	0.6801	0.6639	0.6439	0.7072	-----	0.688	8.74	0.998	0.998	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4.6-Tribromophenol	1	0	Qua	0.1367	0.0879	0.1095	0.1214	0.1439	0.1494	0.1553	0.1739	-----	0.135	8.86	0.992	0.999	20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2-Diphenylhydrazine	1	0	Avg	0.9125	1.0335	0.8565	0.9651	0.9489	0.9163	0.8965	0.9656	-----	0.937	8.78	0.999	0.999	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2328	0.2375	0.2050	0.2150	0.2349	0.2416	0.2405	0.2690	-----	0.235	9.10	0.994	0.998	8.1	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2779	0.3027	0.2510	0.2521	0.2735	0.2765	0.2816	0.3153	-----	0.279	9.17	0.993	0.999	7.9	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.6136	0.5630	0.5498	0.5851	0.5752	0.5491	0.5127	0.5481	-----	0.562	9.45	0.997	0.998	5.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1579	-----	0.0863	0.1231	0.1744	0.1825	0.1896	0.2099	-----	0.161	9.37	0.995	0.999	27	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1845	1.3602	1.1087	1.1301	1.1233	1.0877	1.0568	1.1850	-----	1.15	9.60	0.994	0.995	8.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.2152	1.2367	1.1070	1.1500	1.1453	1.1059	1.0694	1.1921	-----	1.15	9.65	0.995	0.996	5.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.2062	1.2155	1.0970	1.1446	1.1434	1.1061	1.0868	1.2323	-----	1.15	9.82	0.993	0.995	5.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.4055	1.0512	1.1481	1.2699	1.3828	1.3570	1.3360	1.4797	0.6393	1.23	10.20	0.998	0.998	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.3364	1.2491	1.1661	1.2400	1.2873	1.2482	1.2375	1.4230	-----	1.27	10.91	0.991	0.995	6.1	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2873	1.2743	1.1737	1.2080	1.2395	1.2244	1.1999	1.2959	-----	1.24	11.17	0.997	0.998	3.6	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.5904	0.1879	0.2886	0.3852	0.5878	0.5743	0.5224	0.5907	-----	0.466	11.07	0.993	0.993	34		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.8619	0.8828	0.7787	0.7913	0.8575	0.8661	0.8813	0.9801	-----	0.862	11.36	0.996	0.999	7.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	
4.4'-DDE	1	0	Avg	0.2673	0.2578	0.2291	0.2355	0.2730	0.2808	0.2879	0.3105	-----	0.268	11.30	0.996	0.999	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4.4'-DDD	1	0	Avg	0.4295	0.3318	0.3487	0.3767	0.4395	0.4523	0.4599	0.5043	-----	0.418	11.69	0.995	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form 6
Initial Calibration

Method: EPA 8270D

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M44114.	CAL BNA@50PPM	05/19/14 13:13	2	10M44112.	CAL BNA@2PPM	05/19/14 12:28
3	10M44111.	CAL BNA@10PPM	05/19/14 12:01	4	10M44110.	CAL BNA@20PPM	05/19/14 11:39
5	10M44109.	CAL BNA@80PPM	05/19/14 11:13	6	10M44108.	CAL BNA@120PPM	05/19/14 10:49
7	10M44107.	CAL BNA@160PPM	05/19/14 10:26	8	10M44105.	CAL BNA@196PPM	05/19/14 09:38
9	10M44113.	CAL BNA@.5PPM	05/19/14 12:50				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Butylbenzylphthalate	1	0	Qua	0.5778	0.3765	0.4470	0.5164	0.6060	0.6062	0.6128	0.6556	-----	0.550	11.95	0.997	0.999	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4076	-----	0.3075	0.3345	0.4269	0.4332	0.4364	0.4753	-----	0.403	12.05	0.998	0.999	15		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4135	0.2730	0.3071	0.3280	0.3985	0.3902	0.3752	0.3814	-----	0.358	12.56	0.999	0.999	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2026	1.2543	1.0828	1.1101	1.1675	1.1640	1.1560	1.2780	-----	1.18	12.59	0.995	0.998	5.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.0755	1.1867	1.0047	1.0020	1.0349	1.0386	1.0185	1.1493	-----	1.06	12.63	0.993	0.996	6.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.7403	0.4896	0.5932	0.6637	0.7534	0.7518	0.7450	0.7996	-----	0.692	12.65	0.998	0.999	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.3693	0.9083	1.0394	1.2150	1.4699	1.4747	1.4896	1.5292	-----	1.31	13.39	0.998	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.2342	1.1312	1.0243	1.1464	1.1911	1.2251	1.2717	1.3363	-----	1.20	13.79	0.998	1.00	8.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.2510	1.2659	1.1103	1.1004	1.1685	1.1890	1.1541	1.3240	-----	1.20	13.82	0.992	0.995	6.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1951	1.0485	0.9739	1.0658	1.1709	1.1866	1.1688	1.3338	-----	1.14	14.13	0.992	0.996	9.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyrene	1	0	Avg	1.3562	1.3162	1.1560	1.1699	1.3079	1.3556	1.3511	1.4701	-----	1.31	15.44	0.997	0.999	7.9	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracene	1	0	Avg	1.1306	1.1161	0.9542	0.9845	1.0806	1.1119	1.1030	1.2025	-----	1.09	15.45	0.996	0.998	7.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.1173	1.1418	0.9835	0.9696	1.0679	1.1113	1.1054	1.1640	-----	1.08	15.79	0.998	0.999	6.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

4052101 0734

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM
Data File: 10M44114.D
Acq On : 05/19/14 13:13

Operator : AHD/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA

Qt Meth : 10M_0519.M
Qt On : 05/19/14 13:33
Qt Upd On: 05/19/14 10:00

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	79619	40.00	ng	-0.02
29) Naphthalene-d8	6.730	136	301565	40.00	ng	-0.02
47) Acenaphthene-d10	8.137	164	171973	40.00	ng	-0.02
74) Phenanthrene-d10	9.570	188	308784	40.00	ng	-0.03
88) Chrysene-d12	12.597	240	322327	40.00	ng	-0.03
100) Perylene-d12	14.191	264	306172	40.00	ng	-0.03
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	151746	50.78	ng	-0.02
Spiked Amount 100.000			Recovery = 50.78%			
15) Phenol-d5	5.404	99	219383	44.29	ng	-0.02
Spiked Amount 100.000			Recovery = 44.29%			
30) Nitrobenzene-d5	6.168	128	35138	26.77	ng	-0.02
Spiked Amount 50.000			Recovery = 53.54%			
52) 2-Fluorobiphenyl	7.559	172	159413	28.29	ng	-0.02
Spiked Amount 50.000			Recovery = 56.58%			
77) 2,4,6-Tribromophenol	8.864	330	52765	54.85	ng	-0.02
Spiked Amount 100.000			Recovery = 54.85%			
91) Terphenyl-d14	11.362	244	173638	28.12	ng	-0.03
Spiked Amount 50.000			Recovery = 56.24%			
Target Compounds						Qvalue
8) Pyridine	2.916	79	200606	54.6166	ng	71
9) N-Nitrosodimethylamine	2.852	74	116618	52.1139	ng	74
11) Benzaldehyde	5.339	77	112730	65.6217	ng	80
12) Aniline	5.436	93	255375	49.1528	ng	68
13) Pentachloroethane	5.478	117	58232	54.5336	ng	88
14) bis(2-Chloroethyl)ether	5.494	93	164590	44.1335	ng	84
16) Phenol	5.414	94	236644	44.8537	ng	81
17) 2-Chlorophenol	5.537	128	159776	47.0707	ng	83
18) N-Decane	5.591	57	174961	58.4335	ng	85
19) 1,3-Dichlorobenzene	5.671	146	167941	51.9361	ng	97
20) 1,4-Dichlorobenzene	5.735	146	168500	51.0841	ng	98
21) 1,2-Dichlorobenzene	5.858	146	160742	50.4810	ng	98
22) Benzyl alcohol	5.837	108	109210	42.7667	ng	69
23) bis(2-chloroisopropyl)...	5.949	45	230501	45.1725	ng	93
24) 2-Methylphenol	5.928	108	152159	41.9841	ng	96
25) Acetophenone	6.051	105	225795	44.5322	ng	75
26) Hexachloroethane	6.136	117	62593	51.4871	ng	82
27) N-Nitroso-di-n-propyla...	6.051	70	119741	40.6135	ng	70
28) 3&4-Methylphenol	6.051	108	158660	40.6283	ng	99
31) Nitrobenzene	6.184	77	164834	53.1147	ng	84
32) Isophorone	6.377	82	304307	48.8657	ng	85
33) 2-Nitrophenol	6.436	139	78910	53.3920	ng	84
34) 2,4-Dimethylphenol	6.463	107	157036	49.3568	ng	91
35) Benzoic Acid	6.543	105	72495	31.9449	ng	88
36) bis(2-Chloroethoxy)met...	6.537	93	196058	51.8240	ng	96
37) 2,4-Dichlorophenol	6.618	162	125103	50.5572	ng	89
38) 1,2,4-Trichlorobenzene	6.687	180	133424	55.8310	ng	97
39) Naphthalene	6.746	128	452156m	49.0184	ng	
40) 4-Chloroaniline	6.778	127	184560m	50.7572	ng	
41) Hexachlorobutadiene	6.837	225	69872	57.8560	ng	97
42) Caprolactam	7.051	113	55829	42.0000	ng	69
43) 4-Chloro-3-methylphenol	7.142	107	135876	45.9709	ng	81
44) 2-Methylnaphthalene	7.276	142	304061	50.5216	ng	100
45) Methylnaphthalenes (To...	7.276	142	607559m	53.4194	ng	
46) 1,1'-Biphenyl	7.645	154	368021	47.9215	ng	96
48) 1,2,4,5-Tetrachloroben...	7.404	216	137310	58.9188	ng	99
49) Hexachlorocyclopentadiene	7.399	237	70764	63.2118	ng	99
50) 2,4,6-Trichlorophenol	7.489	196	84836	51.9765	ng	99
51) 2,4,5-Trichlorophenol	7.522	196	86033	53.5367	ng	99
53) 2-Chloronaphthalene	7.666	162	264964	54.4619	ng	92
54) 1,4-Dimethylnaphthalene	7.939	156	219700	54.2213	ng	88
55) Dimethylnaphthalenes (...	7.939	156	219700	54.2213	ng	88
56) Diphenyl Ether	7.730	170	206034	56.2851	ng	74
57) 2-Nitroaniline	7.741	65	101775	51.2493	ng	56
58) Coumarin	7.923	146	122134	48.5949	ng	84
59) Acenaphthylene	8.014	152	429486	53.2260	ng	99
60) Dimethylphthalate	7.885	163	307698	50.5522	ng	98
61) 2,6-Dinitrotoluene	7.939	165	70789	52.5772	ng	64
62) Acenaphthene	8.163	153	283138	52.8868	ng	97
63) 3-Nitroaniline	8.083	138	84067	49.6537	ng	82
64) 2,4-Dinitrophenol	8.174	184	34208	46.7827	ng	48
65) Dibenzofuran	8.319	168	392627	49.2134	ng	84

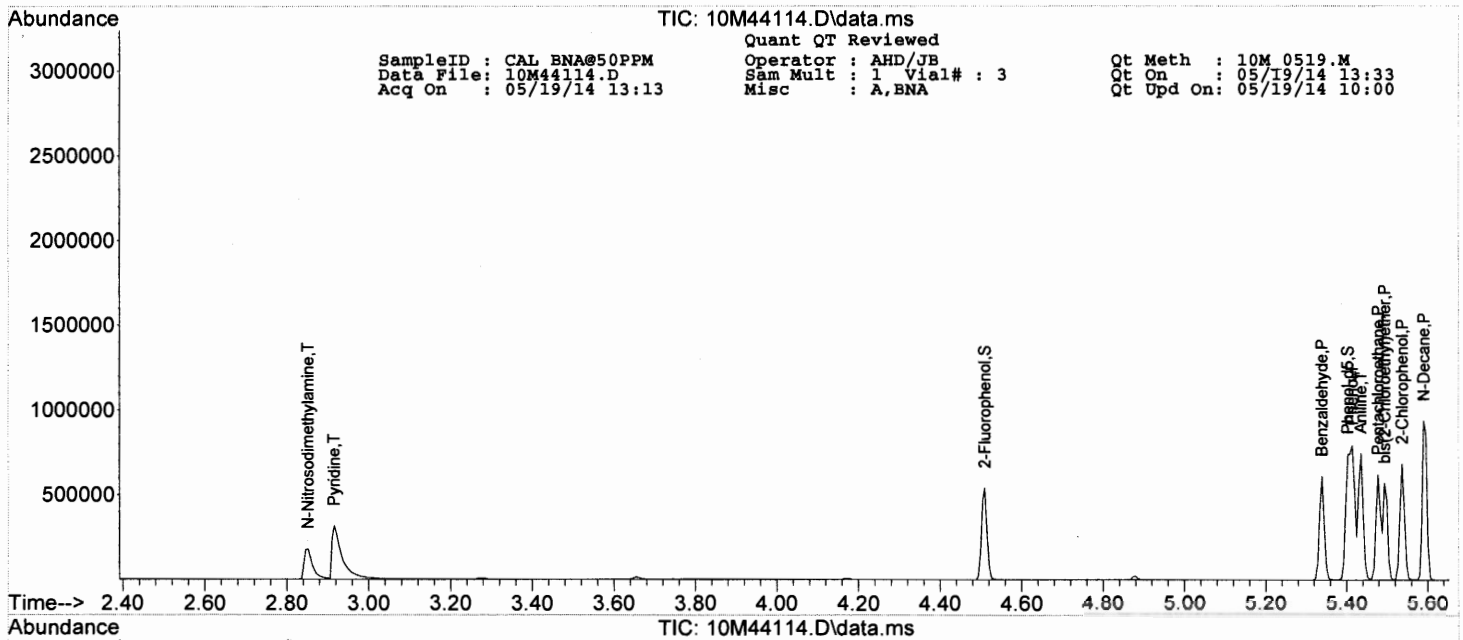
Quantitation Report (QT Reviewed)

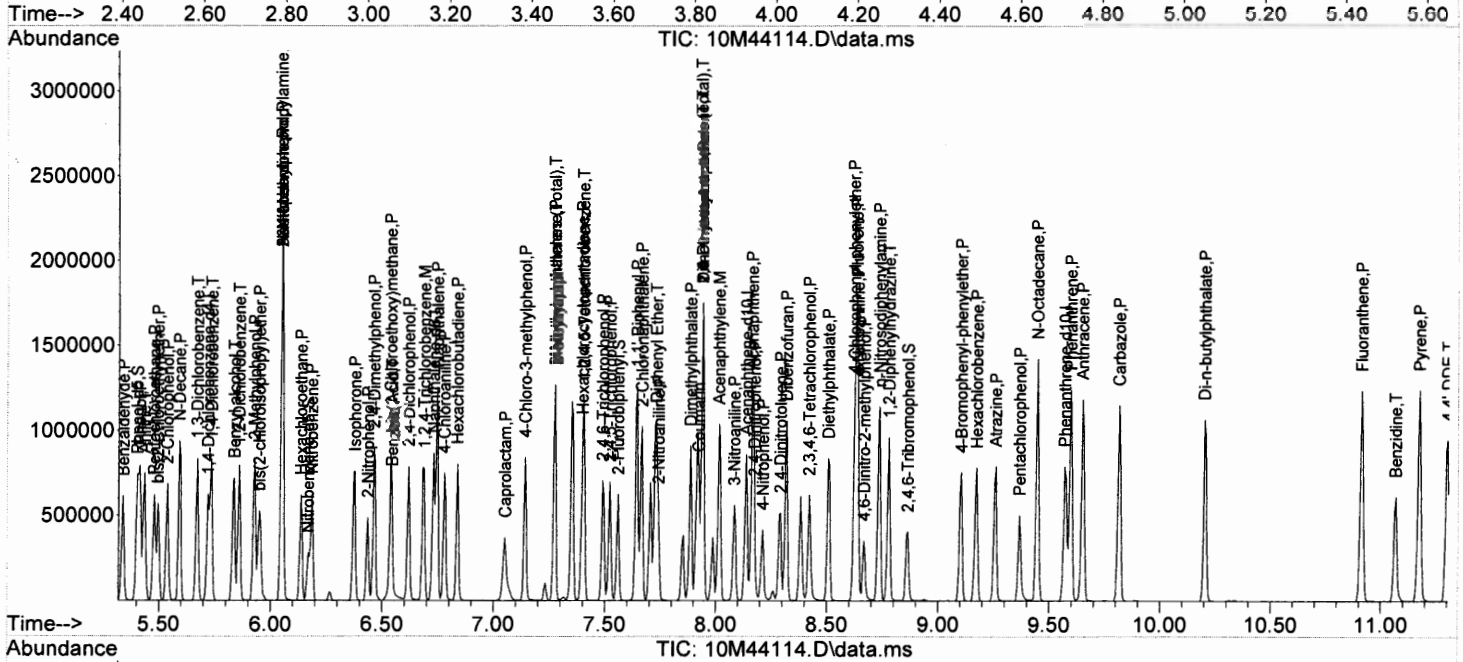
SampleID : CAL BNA@50PPM
Data File: 10M44114.D
Acq On : 05/19/14 13:13
Operator : AHD/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 10M_0519.M
Qt On : 05/19/14 13:33
Qt Upd On: 05/19/14 10:00

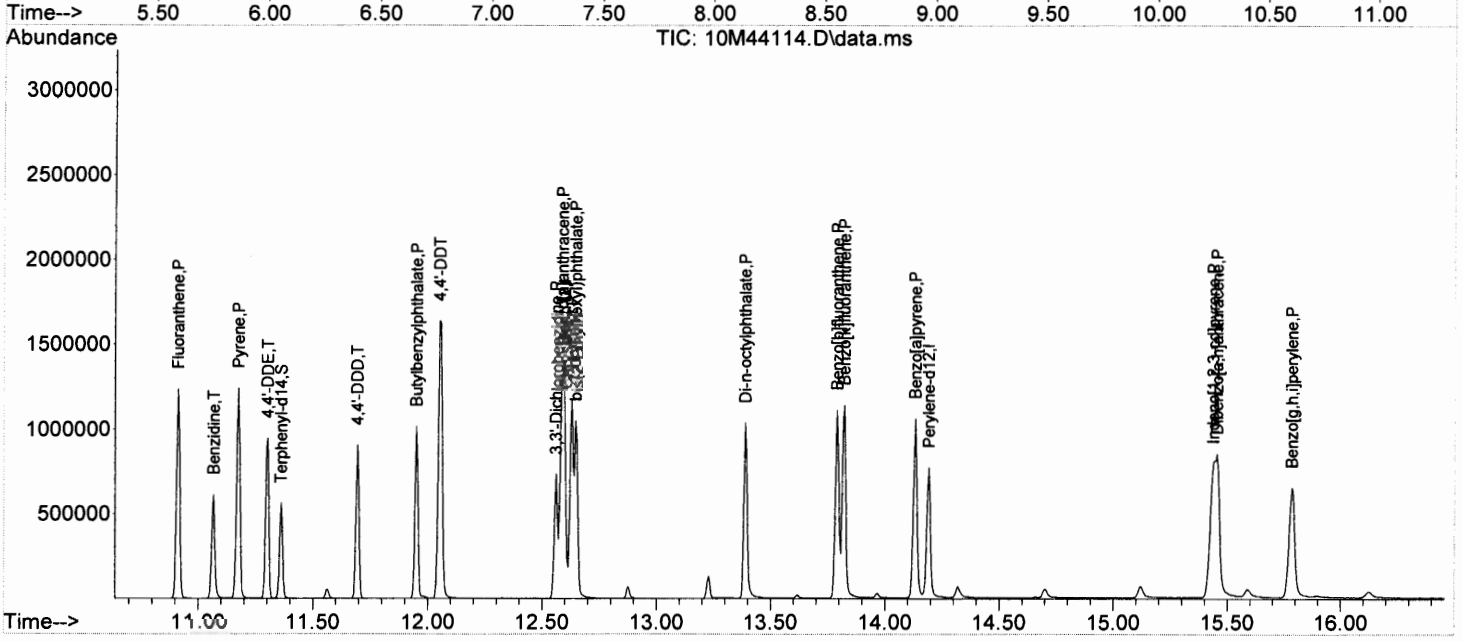
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.292	165	94301	49.9858	ng	62
67)	4-Nitrophenol	8.212	65	64417	47.9382	ng	99
68)	2,3,4,6-Tetrachlorophenol	8.420	232	76305	50.2936	ng	80
69)	Fluorene	8.634	166	329428	50.8275	ng	99
70)	4-Chlorophenyl-phenyle...	8.623	204	155142	51.5802	ng	84
71)	Diethylphthalate	8.506	149	304510	48.3260	ng	97
72)	4-Nitroaniline	8.639	138	91630	47.2014	ng	67
73)	Atrazine	9.260	200	82510	48.6561	ng	94
75)	4,6-Dinitro-2-methylph...	8.666	198	47852	52.2990	ng	59
76)	n-Nitrosodiphenylamine	8.736	169	275489	55.8971	ng	100
78)	1,2-Diphenylhydrazine	8.778	77	352215	56.0503	ng	85
79)	4-Bromophenyl-phenylether	9.105	248	89878	55.2431	ng	83
80)	Hexachlorobenzene	9.174	284	107279	55.1999	ng	58
81)	N-Octadecane	9.447	57	236857	58.2959	ng	78
82)	Pentachlorophenol	9.367	266	60948	48.1683	ng	97
83)	Phenanthrene	9.597	178	457197	53.2550	ng	99
84)	Anthracene	9.650	178	469068	54.2776	ng	99
85)	Carbazole	9.816	167	465584	51.7262	ng	98
86)	Di-n-butylphthalate	10.201	149	542507	51.4707	ng	97
87)	Fluoranthene	10.913	202	515832	51.0547	ng	99
89)	Pyrene	11.175	202	518672	57.6124	ng	97
90)	Benzidine	11.068	184	237883	77.1668	ng	92
92)	4,4'-DDE	11.303	246	107705	56.9431	ng	85
93)	4,4'-DDD	11.693	235	173059	54.9871	ng	95
94)	Butylbenzylphthalate	11.950	149	232803	53.7594	ng	77
95)	4,4'-DDT	12.052	235	164251	58.0646	ng	99
96)	3,3'-Dichlorobenzidine	12.560	252	166641	52.3859	ng	97
97)	Benzo[a]anthracene	12.587	228	484569	53.1322	ng	99
98)	Chrysene	12.630	228	433345	53.8584	ng	99
99)	bis(2-Ethylhexyl)phtha...	12.646	149	298302	53.7399	ng	92
101)	Di-n-octylphthalate	13.389	149	524054	53.5927	ng	100
102)	Benzo[b]fluoranthene	13.790	252	472347	53.5571	ng	96
103)	Benzo[k]fluoranthene	13.822	252	478802	57.2965	ng	95
104)	Benzo[a]pyrene	14.132	252	457389	55.0401	ng	95
105)	Indeno[1,2,3-cd]pyrene	15.438	276	519066	49.5970	ng	100
106)	Dibenzo[a,h]anthracene	15.454	278	432728	50.3028	ng	91
107)	Benzo[g,h,i]perylene	15.785	276	427629	49.1311	ng	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44114.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 10M44114.D
Acq On : 05/19/14 13:13
Operator : AHD/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/19/14 13:33
Qt Upd On: 05/19/14 10:00
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44114.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Hexachlorobutadiene,P
Hexachloroethane,P
Acenaphthylene,M
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M44114.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM
Data File: 10M44112.D
Acq On : 05/19/14 12:28

Operator : AHD/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA

Qt Meth : 10M_0519.M
Qt On : 05/19/14 13:33
Qt Upd On: 05/19/14 10:00

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
7) 1,4-Dichlorobenzene-d4	5.719	152	82823	40.00 ng	-0.02
29) Naphthalene-d8	6.730	136	322108	40.00 ng	-0.02
47) Acenaphthene-d10	8.137	164	182808	40.00 ng	-0.02
74) Phenanthrene-d10	9.570	188	327657	40.00 ng	-0.03
88) Chrysene-d12	12.597	240	340314	40.00 ng	-0.03
100) Perylene-d12	14.191	264	321761	40.00 ng	-0.03
System Monitoring Compounds					
10) 2-Fluorophenol	4.510	112	5886m	1.89 ng	-0.02
Spiked Amount 100.000			Recovery	= 1.89%	
15) Phenol-d5	5.398	99	8780	1.70 ng	-0.02
Spiked Amount 100.000			Recovery	= 1.70%	
30) Nitrobenzene-d5	6.168	128	1341	0.96 ng	-0.02
Spiked Amount 50.000			Recovery	= 1.92%	
52) 2-Fluorobiphenyl	7.559	172	7632	1.27 ng	-0.02
Spiked Amount 50.000			Recovery	= 2.54%	
77) 2,4,6-Tribromophenol	8.864	330	1441	1.41 ng	-0.02
Spiked Amount 100.000			Recovery	= 1.41%	
91) Terphenyl-d14	11.362	244	7511	1.15 ng	-0.03
Spiked Amount 50.000			Recovery	= 2.30%	
Target Compounds					Qvalue
8) Pyridine	2.975	79	7790	2.0388 ng	68
9) N-Nitrosodimethylamine	2.879	74	4617	1.9834 ng	61
11) Benzaldehyde	5.339	77	5088	2.8472 ng	81
12) Aniline	5.435	93	8762	1.6212 ng	76
13) Pentachloroethane	5.478	117	2612	2.3515 ng	85
14) bis(2-Chloroethyl)ether	5.494	93	7882	2.0317 ng	85
16) Phenol	5.414	94	10317	1.8798 ng	81
17) 2-Chlorophenol	5.537	128	6880	1.9485 ng	81
18) N-Decane	5.591	57	8485	2.7242 ng	87
19) 1,3-Dichlorobenzene	5.671	146	7984	2.3736 ng	99
20) 1,4-Dichlorobenzene	5.735	146	8161	2.3785 ng	99
21) 1,2-Dichlorobenzene	5.858	146	7655	2.3111 ng	99
22) Benzyl alcohol	5.831	108	4356	1.6398 ng	81
23) bis(2-chloroisopropyl)...	5.949	45	11277	2.1245 ng	92
24) 2-Methylphenol	5.922	108	6642	1.7618 ng	96
25) Acetophenone	6.045	105	10382	1.9684 ng	77
26) Hexachloroethane	6.136	117	2834	2.2410 ng	85
27) N-Nitroso-di-n-propyla...	6.051	70	5169	1.6854 ng	76
28) 3&4-Methylphenol	6.051	108	6849	1.6860 ng	97
31) Nitrobenzene	6.184	77	7099	2.1416 ng	83
32) Isophorone	6.371	82	12250	1.8417 ng	84
33) 2-Nitrophenol	6.436	139	2477	1.5691 ng	85
34) 2,4-Dimethylphenol	6.462	107	6605	1.9436 ng	92
35) Benzoic Acid	0.000		0	N.D.	
36) bis(2-Chloroethoxy)met...	6.537	93	9033	2.2354 ng	97
37) 2,4-Dichlorophenol	6.617	162	4729	1.7892 ng	90
38) 1,2,4-Trichlorobenzene	6.682	180	6243	2.4458 ng	96
39) Naphthalene	6.746	128	22380m	2.2715 ng	
40) 4-Chloroaniline	6.778	127	6636	1.7086 ng	92
41) Hexachlorobutadiene	6.837	225	3155	2.4458 ng	97
42) Caprolactam	7.024	113	1618	1.1396 ng	73
43) 4-Chloro-3-methylphenol	7.136	107	5126	1.6237 ng	85
44) 2-Methylnaphthalene	7.275	142	14066	2.1881 ng	98
45) Methylnaphthalenes (To...	7.275	142	28157m	2.3178 ng	
46) 1,1'-Biphenyl	7.644	154	17758	2.1649 ng	95
48) 1,2,4,5-Tetrachloroben...	7.404	216	6647	2.6831 ng	95
49) Hexachlorocyclopentadiene	7.398	237	2134	1.7933 ng	96
50) 2,4,6-Trichlorophenol	7.495	196	2837	1.6351 ng	94
51) 2,4,5-Trichlorophenol	7.521	196	2835	1.6596 ng	96
53) 2-Chloronaphthalene	7.666	162	13105	2.5340 ng	92
54) 1,4-Dimethylnaphthalene	7.939	156	10814	2.5107 ng	89
55) Dimethylnaphthalenes (...	7.939	156	10814	2.5107 ng	89
56) Diphenyl Ether	7.725	170	10204	2.6223 ng	79
57) 2-Nitroaniline	7.735	65	3931	1.8622 ng	78
58) Coumarin	7.917	146	5491	2.0553 ng	79
59) Acenaphthylene	8.014	152	19946	2.3254 ng	99
60) Dimethylphthalate	7.880	163	14403	2.2260 ng	98
61) 2,6-Dinitrotoluene	7.933	165	2428	1.6965 ng	78
62) Acenaphthene	8.163	153	13551	2.3811 ng	99
63) 3-Nitroaniline	8.083	138	3091	1.7175 ng	73
64) 2,4-Dinitrophenol	0.000		0	N.D.	
65) Dibenzofuran	8.313	168	19063	2.2478 ng	87

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM
Data File: 10M44112.D
Acq On : 05/19/14 12:28

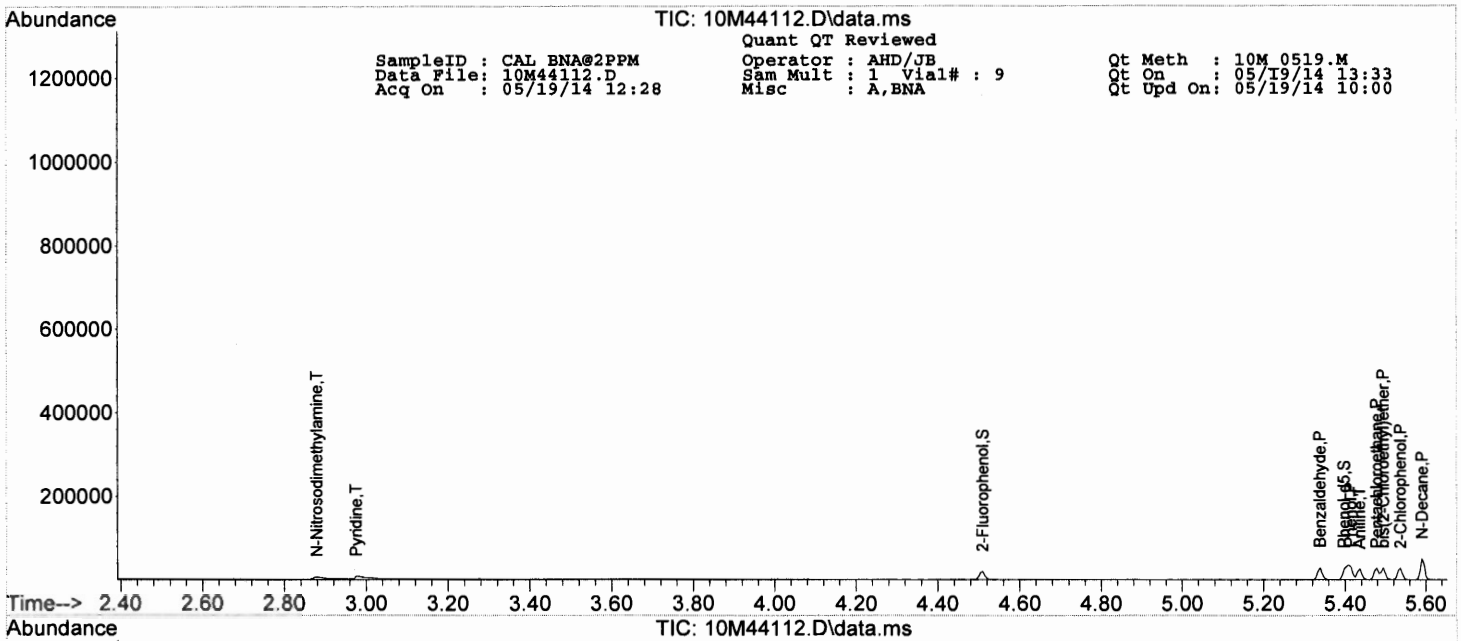
Operator : AHD/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA

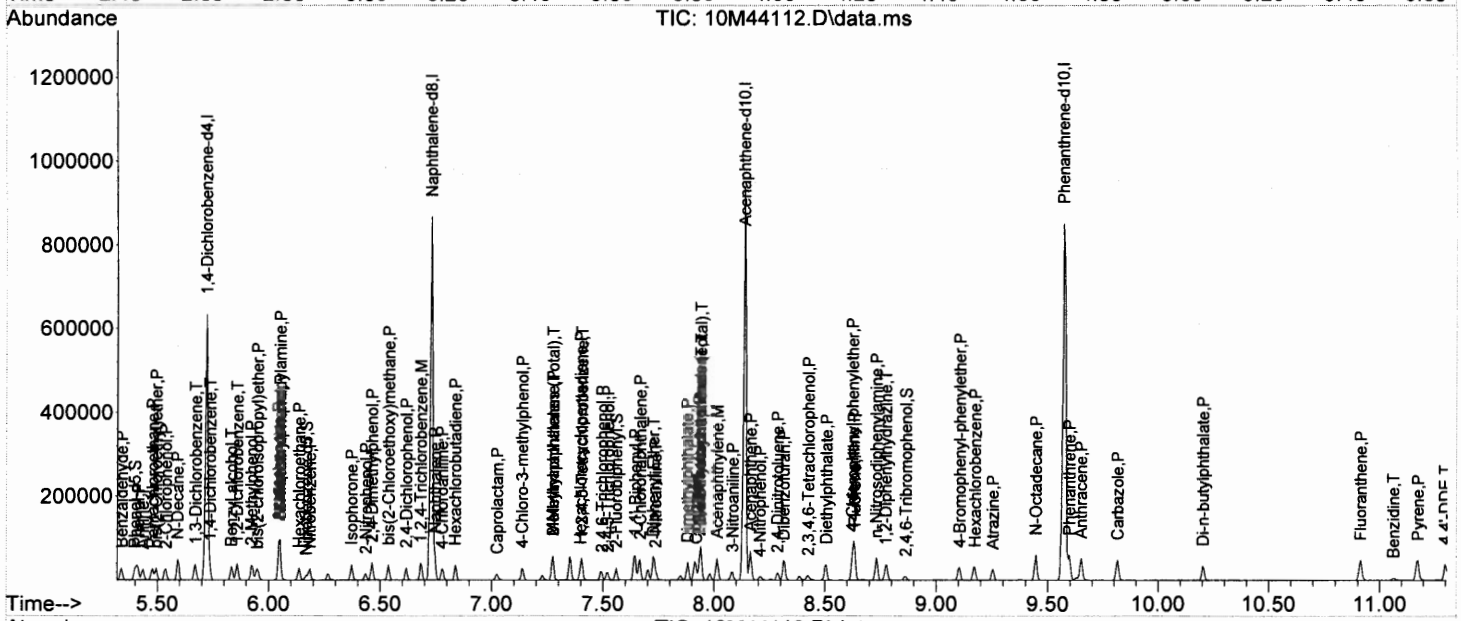
Qt Meth : 10M_0519.M
Qt On : 05/19/14 13:33
Qt Upd On: 05/19/14 10:00

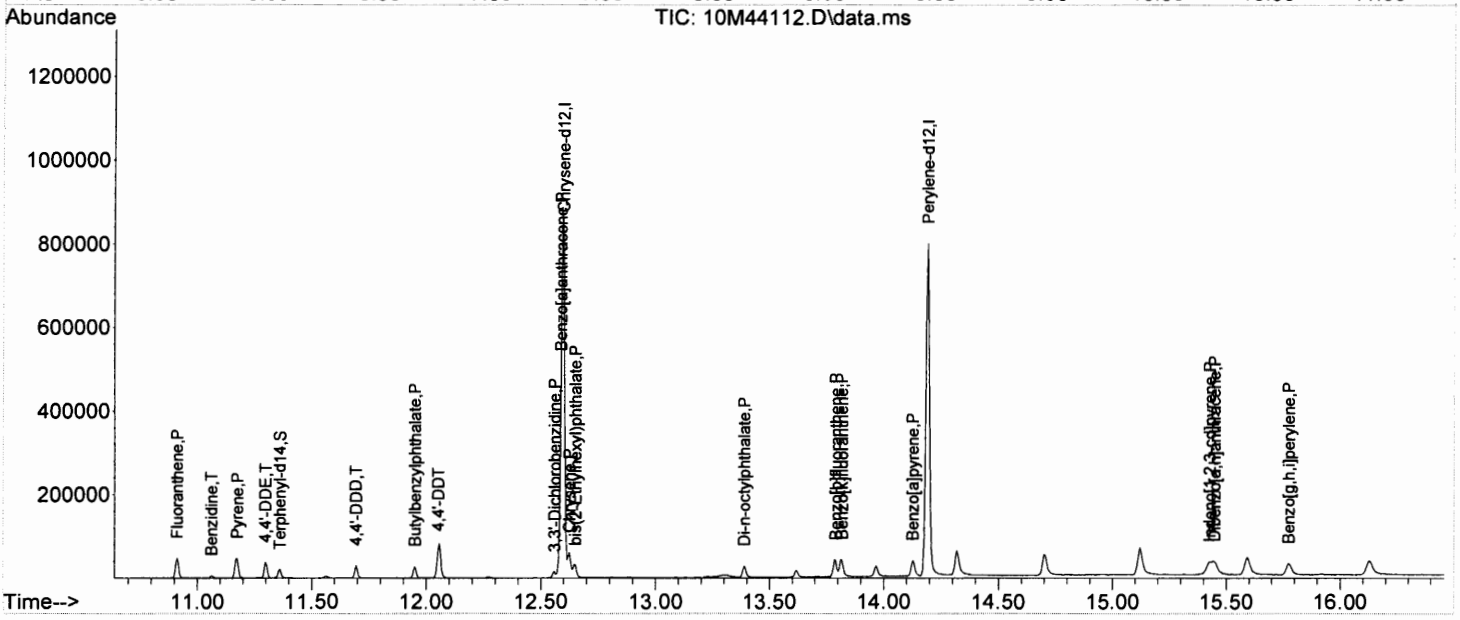
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.286	165	2766	1.3793	ng	74
67)	4-Nitrophenol	8.206	65	1384	0.9689	ng	83
68)	2,3,4,6-Tetrachlorophenol	8.425	232	2095	1.2990	ng	86
69)	Fluorene	8.634	166	15497	2.2493	ng	97
70)	4-Chlorophenyl-phenyle...	8.623	204	6871	2.1490	ng	84
71)	Diethylphthalate	8.506	149	13344	1.9922	ng	96
72)	4-Nitroaniline	8.629	138	2900	1.4053	ng	75
73)	Atrazine	9.254	200	2791	1.5483	ng	95
75)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
76)	n-Nitrosodiphenylamine	8.730	169	12374	2.3661	ng	99
78)	1,2-Diphenylhydrazine	8.773	77	16933	2.5394	ng	92
79)	4-Bromophenyl-phenylether	9.105	248	3891	2.2538	ng	78
80)	Hexachlorobenzene	9.174	284	4960	2.4051	ng	59
81)	N-Octadecane	9.447	57	9225	2.1397	ng	81
82)	Pentachlorophenol	0.000		0	N.D. d		
83)	Phenanthrene	9.597	178	22284	2.4462	ng	100
84)	Anthracene	9.650	178	20262	2.2095	ng	99
85)	Carbazole	9.816	167	19914	2.0850	ng	96
86)	Di-n-butylphthalate	10.201	149	17223	1.5399	ng	97
87)	Fluoranthene	10.912	202	20464	1.9088	ng	99
89)	Pyrene	11.175	202	21684	2.2813	ng	94
90)	Benzidine	11.062	184	3198	0.9826	ng	93
92)	4,4'-DDE	11.298	246	4387	2.1968	ng	89
93)	4,4'-DDD	11.693	235	5647	1.6994	ng	95
94)	Butylbenzylphthalate	11.950	149	6408	1.4015	ng	77
95)	4,4'-DDT	12.052	235	4304	1.4411	ng	95
96)	3,3'-Dichlorobenzidine	12.560	252	4646	1.3833	ng	93
97)	Benzo[a]anthracene	12.587	228	21343	2.2165	ng	99
98)	Chrysene	12.624	228	20193	2.3770	ng	97
99)	bis(2-Ethylhexyl)phtha...	12.651	149	8331	1.4215	ng	91
101)	Di-n-octylphthalate	13.389	149	14613	1.4220	ng	97
102)	Benzo[b]fluoranthene	13.790	252	18200m	1.9636	ng	
103)	Benzo[k]fluoranthene	13.817	252	20366m	2.3190	ng	
104)	Benzo[a]pyrene	14.127	252	16869	1.9316	ng	94
105)	Indeno[1,2,3-cd]pyrene	15.427	276	21176	1.9253	ng	100
106)	Dibenzo[a,h]anthracene	15.448	278	17956	1.9862	ng	88
107)	Benzo[g,h,i]perylene	15.774	276	18370	2.0083	ng	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44112.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@2PPM
Data File: 10M44112.D
Acq On : 05/19/14 12:28
Operator : AHD/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 10M_0519.M
Qt On : 05/19/14 13:33
Qt Upd On: 05/19/14 10:00
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44112.D\data.ms
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
3-Nitroaniline,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M44112.D\data.ms
Perylene-d12,I
Chrysene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM
Data File: 10M44111.D
Acq On : 05/19/14 12:01

Operator : AHD/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA

Qt Meth : 10M_0519.M
Qt On : 05/19/14 12:32
Qt Upd On: 05/19/14 10:00

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	87942	40.00	ng	-0.02
29) Naphthalene-d8	6.730	136	343360	40.00	ng	-0.02
47) Acenaphthene-d10	8.136	164	193423	40.00	ng	-0.02
74) Phenanthrene-d10	9.570	188	346475	40.00	ng	-0.03
88) Chrysene-d12	12.592	240	363735	40.00	ng	-0.03
100) Perylene-d12	14.191	264	345573	40.00	ng	-0.03
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	28504	8.64	ng	-0.02
Spiked Amount 100.000			Recovery = 8.64%			
15) Phenol-d5	5.403	99	42892	7.84	ng	-0.02
Spiked Amount 100.000			Recovery = 7.84%			
30) Nitrobenzene-d5	6.168	128	7022	4.70	ng	-0.02
Spiked Amount 50.000			Recovery = 9.40%			
52) 2-Fluorobiphenyl	7.559	172	33566	5.30	ng	-0.02
Spiked Amount 50.000			Recovery = 10.60%			
77) 2,4,6-Tribromophenol	8.859	330	9485	8.79	ng	-0.03
Spiked Amount 100.000			Recovery = 8.79%			
91) Terphenyl-d14	11.362	244	35406	5.08	ng	-0.03
Spiked Amount 50.000			Recovery = 10.16%			
Target Compounds						Qvalue
8) Pyridine	2.938	79	37569	9.2604	ng	73
9) N-Nitrosodimethylamine	2.857	74	21966	8.8871	ng	73
11) Benzaldehyde	5.339	77	24432	12.8762	ng	79
12) Aniline	5.435	93	45059	7.8519	ng	73
13) Pentachloroethane	5.478	117	11749	9.9615	ng	85
14) bis(2-Chloroethyl)ether	5.494	93	35271	8.5626	ng	83
16) Phenol	5.414	94	47313	8.1190	ng	80
17) 2-Chlorophenol	5.537	128	32649	8.7082	ng	82
18) N-Decane	5.591	57	36979	11.1814	ng	86
19) 1,3-Dichlorobenzene	5.671	146	34751	9.7297	ng	98
20) 1,4-Dichlorobenzene	5.735	146	35386	9.7126	ng	98
21) 1,2-Dichlorobenzene	5.858	146	33592	9.5511	ng	97
22) Benzyl alcohol	5.831	108	21402	7.5878	ng	76
23) bis(2-chloroisopropyl)...	5.949	45	49677	8.8141	ng	92
24) 2-Methylphenol	5.928	108	30431	7.6019	ng	96
25) Acetophenone	6.045	105	46788	8.3544	ng	79
26) Hexachloroethane	6.136	117	12732	9.4818	ng	85
27) N-Nitroso-di-n-propyla...	6.051	70	25571	7.8523	ng	72
28) 3&4-Methylphenol	6.051	108	32809	7.6063	ng	100
31) Nitrobenzene	6.184	77	34438	9.7462	ng	82
32) Isophorone	6.371	82	60060	8.4705	ng	89
33) 2-Nitrophenol	6.436	139	14150	8.4087	ng	86
34) 2,4-Dimethylphenol	6.462	107	32013	8.8370	ng	92
35) Benzoic Acid	6.516	105	1713	0.6630	ng	83
36) bis(2-Chloroethoxy)met...	6.537	93	41306	9.5894	ng	98
37) 2,4-Dichlorophenol	6.617	162	24385	8.6550	ng	89
38) 1,2,4-Trichlorobenzene	6.682	180	27164	9.9831	ng	98
39) Naphthalene	6.746	128	96775m	9.2144	ng	
40) 4-Chloroaniline	6.778	127	32918	7.9511	ng	92
41) Hexachlorobutadiene	6.837	225	14276	10.3820	ng	97
42) Caprolactam	7.024	113	10031	6.6277	ng	67
43) 4-Chloro-3-methylphenol	7.136	107	26670	7.9249	ng	87
44) 2-Methylnaphthalene	7.275	142	63669	9.2913	ng	99
45) Methylnaphthalenes (To...	7.275	142	128080m	9.8906	ng	
46) 1,1'-Biphenyl	7.639	154	79428	9.0837	ng	99
48) 1,2,4,5-Tetrachloroben...	7.404	216	28338	10.8112	ng	99
49) Hexachlorocyclopentadiene	7.398	237	12093	9.6044	ng	96
50) 2,4,6-Trichlorophenol	7.489	196	16298	8.8780	ng	98
51) 2,4,5-Trichlorophenol	7.521	196	15761	8.7201	ng	98
53) 2-Chloronaphthalene	7.666	162	57698	10.5443	ng	91
54) 1,4-Dimethylnaphthalene	7.939	156	47565	10.4371	ng	86
55) Dimethylnaphthalenes (...	7.939	156	47565	10.4371	ng	86
56) Diphenyl Ether	7.725	170	43749	10.6261	ng	79
57) 2-Nitroaniline	7.735	65	20258	9.0698	ng	63
58) Coumarin	7.917	146	25375	8.9766	ng	82
59) Acenaphthylene	8.013	152	91611	10.0943	ng	100
60) Dimethylphthalate	7.880	163	64551	9.4291	ng	99
61) 2,6-Dinitrotoluene	7.933	165	14209	9.3831	ng	70
62) Acenaphthene	8.163	153	59795	9.9304	ng	97
63) 3-Nitroaniline	8.078	138	16180	8.4968	ng	84
64) 2,4-Dinitrophenol	8.174	184	3044	3.7013	ng	48
65) Dibenzofuran	8.313	168	83528	9.3087	ng	85

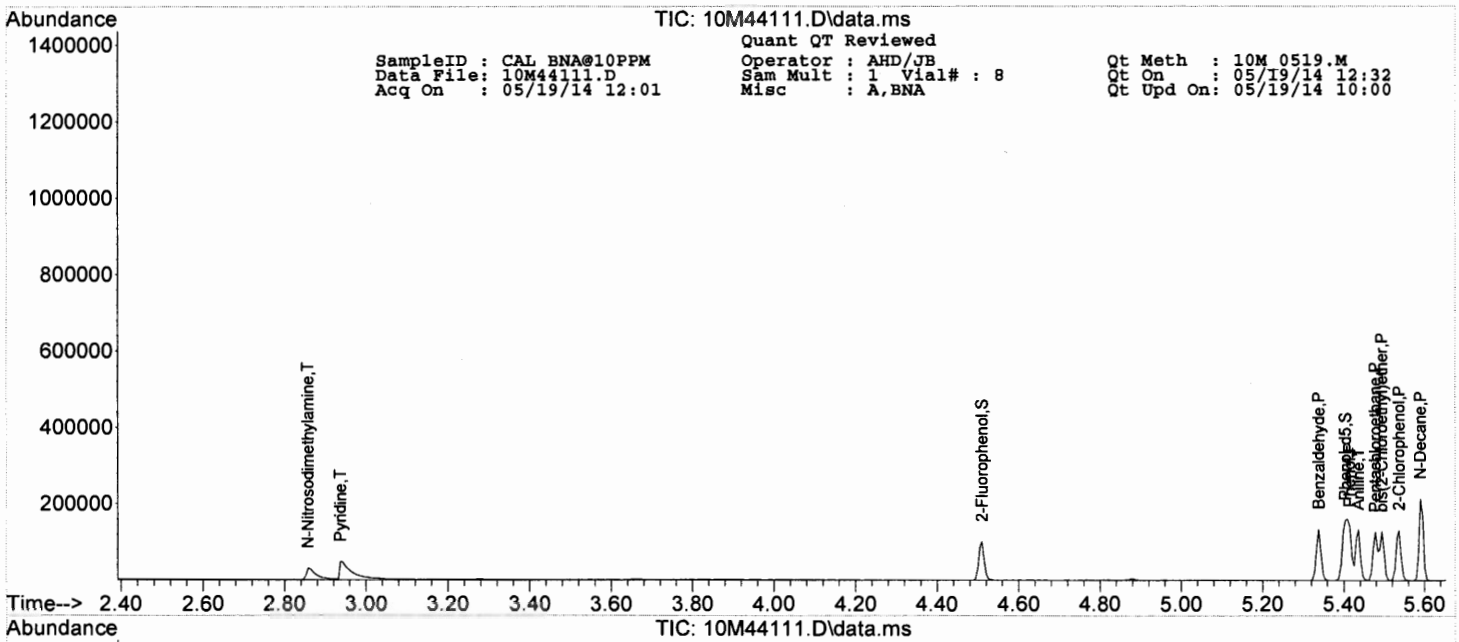
Quantitation Report (QT Reviewed)

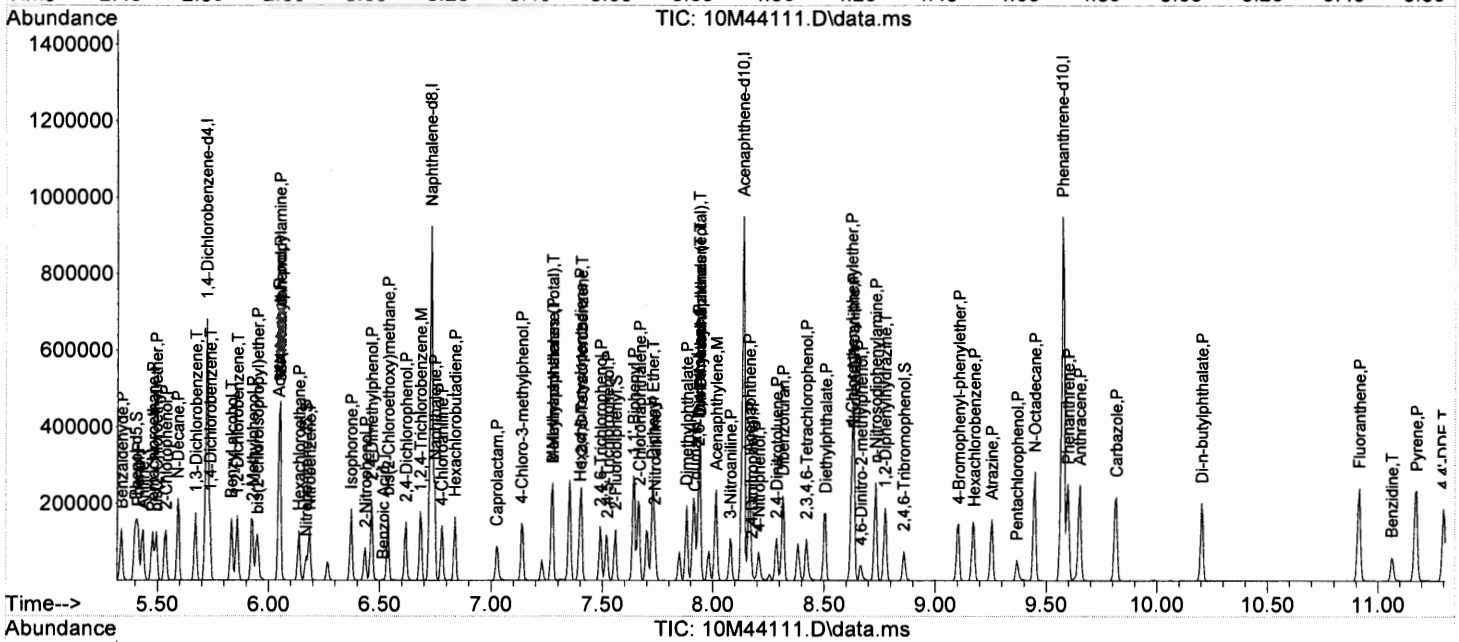
SampleID : CAL BNA@10PPM
Data File: 10M44111.D
Acq On : 05/19/14 12:01
Operator : AHD/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 10M_0519.M
Qt On : 05/19/14 12:32
Qt Upd On: 05/19/14 10:00

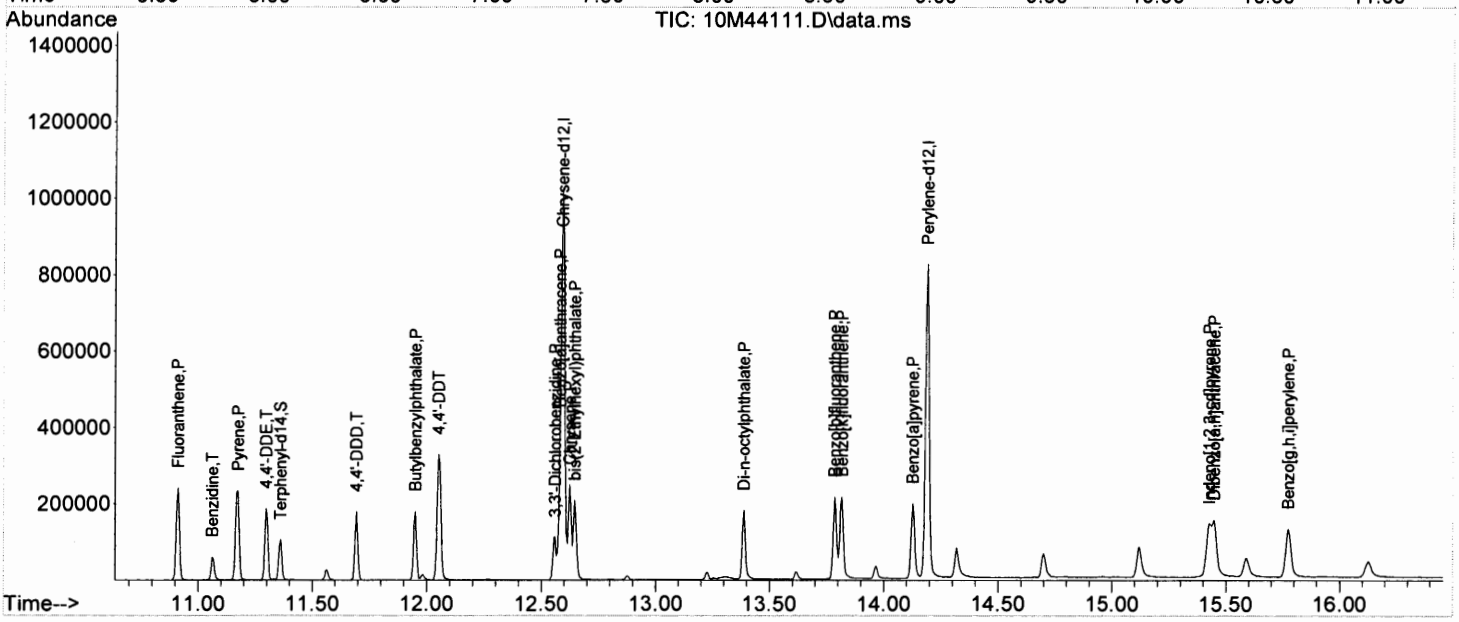
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.286	165	17294	8.1504	ng	68
67)	4-Nitrophenol	8.206	65	10922m	7.2266	ng	
68)	2,3,4,6-Tetrachlorophenol	8.420	232	14242	8.3461	ng	84
69)	Fluorene	8.634	166	69846	9.5815	ng	98
70)	4-Chlorophenyl-phenyle...	8.623	204	31496	9.3102	ng	83
71)	Diethylphthalate	8.506	149	63131	8.9079	ng	96
72)	4-Nitroaniline	8.629	138	17621	8.0705	ng	70
73)	Atrazine	9.254	200	15408	8.0785	ng	94
75)	4,6-Dinitro-2-methylph...	8.666	198	6289	6.1257	ng	68
76)	n-Nitrosodiphenylamine	8.730	169	57675	10.4293	ng	100
78)	1,2-Diphenylhydrazine	8.773	77	74193	10.5224	ng	91
79)	4-Bromophenyl-phenylether	9.105	248	17760	9.7286	ng	82
80)	Hexachlorobenzene	9.174	284	21748	9.9730	ng	56
81)	N-Octadecane	9.447	57	47627	10.4469	ng	80
82)	Pentachlorophenol	9.367	266	7481	5.2692	ng	98
83)	Phenanthrene	9.597	178	96040	9.9699	ng	98
84)	Anthracene	9.650	178	95887	9.8884	ng	99
85)	Carbazole	9.816	167	95022	9.4085	ng	97
86)	Di-n-butylphthalate	10.201	149	99447	8.4087	ng	97
87)	Fluoranthene	10.912	202	101006	8.9096	ng	99
89)	Pyrene	11.175	202	106730	10.5056	ng	95
90)	Benzidine	11.062	184	26252	7.5464	ng	95
92)	4,4'-DDE	11.298	246	20837	9.7623	ng	87
93)	4,4'-DDD	11.693	235	31714	8.9295	ng	95
94)	Butylbenzylphthalate	11.950	149	40651	8.3186	ng	77
95)	4,4'-DDT	12.052	235	27968	8.7615	ng	97
96)	3,3'-Dichlorobenzidine	12.560	252	27933	7.7815	ng	96
97)	Benzo[a]anthracene	12.581	228	98465	9.5674	ng	99
98)	Chrysene	12.624	228	91366	10.0627	ng	99
99)	bis(2-Ethylhexyl)phtha...	12.645	149	53950	8.6128	ng	94
101)	Di-n-octylphthalate	13.389	149	89801	8.1365	ng	100
102)	Benzo[b]fluoranthene	13.785	252	88499m	8.8904	ng	
103)	Benzo[k]fluoranthene	13.817	252	95929m	10.1706	ng	
104)	Benzo[a]pyrene	14.127	252	84140	8.9706	ng	94
105)	Indeno[1,2,3-cd]pyrene	15.427	276	99873	8.4549	ng	83
106)	Dibenzo[a,h]anthracene	15.448	278	82441	8.4908	ng	91
107)	Benzo[g,h,i]perylene	15.774	276	84968	8.6491	ng	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44111.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 10M44111.D
Acq On : 05/19/14 12:01
Operator : AHD/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/19/14 12:32
Qt Upd On: 05/19/14 10:00
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44111.D\data.ms
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Hexachlorobutadiene,P
Isophorone,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M44111.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Chrysene-d12,I
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM
Data File: 10M44110.D
Acq On : 05/19/14 11:39

Operator : AHD/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA

Qt Meth : 10M_0519.M
Qt On : 05/19/14 11:57
Qt Upd On: 05/19/14 10:00

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	85954	40.00	ng	-0.02
29) Naphthalene-d8	6.730	136	333789	40.00	ng	-0.02
47) Acenaphthene-d10	8.137	164	189585	40.00	ng	-0.02
74) Phenanthrene-d10	9.570	188	344870	40.00	ng	-0.03
88) Chrysene-d12	12.597	240	368450	40.00	ng	-0.03
100) Perylene-d12	14.191	264	348723	40.00	ng	-0.03
System Monitoring Compounds						
10) 2-Fluorophenol	4.505	112	59549	18.46	ng	-0.02
Spiked Amount 100.000			Recovery = 18.46%			
15) Phenol-d5	5.403	99	89084	16.66	ng	-0.02
Spiked Amount 100.000			Recovery = 16.66%			
30) Nitrobenzene-d5	6.168	128	14503	9.98	ng	-0.02
Spiked Amount 50.000			Recovery = 19.96%			
52) 2-Fluorobiphenyl	7.559	172	67185	10.81	ng	-0.02
Spiked Amount 50.000			Recovery = 21.62%			
77) 2,4,6-Tribromophenol	8.864	330	20935	19.49	ng	-0.02
Spiked Amount 100.000			Recovery = 19.49%			
91) Terphenyl-d14	11.362	244	72890	10.33	ng	-0.03
Spiked Amount 50.000			Recovery = 20.66%			
Target Compounds						Qvalue
8) Pyridine	2.927	79	79083	19.9441	ng	71
9) N-Nitrosodimethylamine	2.852	74	46163	19.1088	ng	71
11) Benzaldehyde	5.339	77	50080	27.0037	ng	78
12) Aniline	5.436	93	94849	16.9104	ng	71
13) Pentachloroethane	5.478	117	23896	20.7290	ng	86
14) bis(2-Chloroethyl)ether	5.494	93	70366	17.4775	ng	83
16) Phenol	5.414	94	97185	17.0629	ng	80
17) 2-Chlorophenol	5.537	128	66198	18.0649	ng	83
18) N-Decane	5.591	57	73112	22.6183	ng	86
19) 1,3-Dichlorobenzene	5.671	146	70257	20.1258	ng	97
20) 1,4-Dichlorobenzene	5.735	146	69861	19.6187	ng	98
21) 1,2-Dichlorobenzene	5.858	146	66943	19.4740	ng	97
22) Benzyl alcohol	5.831	108	45444	16.4843	ng	73
23) bis(2-chloroisopropyl)...	5.949	45	98909	17.9551	ng	93
24) 2-Methylphenol	5.928	108	62544	15.9854	ng	97
25) Acetophenone	6.051	105	95494	17.4456	ng	76
26) Hexachloroethane	6.136	117	25696	19.5789	ng	82
27) N-Nitroso-di-n-propyla...	6.051	70	52324	16.4391	ng	70
28) 3&4-Methylphenol	6.051	108	67594	16.0332	ng	99
31) Nitrobenzene	6.184	77	69242	20.1579	ng	82
32) Isophorone	6.372	82	126252	18.3164	ng	91
33) 2-Nitrophenol	6.436	139	31916	19.5102	ng	85
34) 2,4-Dimethylphenol	6.462	107	67056	19.0412	ng	92
35) Benzoic Acid	6.521	105	16286	6.4836	ng	88
36) bis(2-Chloroethoxy)met...	6.537	93	83818	20.0167	ng	97
37) 2,4-Dichlorophenol	6.618	162	51836	18.9259	ng	88
38) 1,2,4-Trichlorobenzene	6.687	180	55223	20.8771	ng	98
39) Naphthalene	6.746	128	192359m	18.8405	ng	
40) 4-Chloroaniline	6.778	127	68758m	17.0841	ng	
41) Hexachlorobutadiene	6.837	225	28835	21.5712	ng	97
42) Caprolactam	7.035	113	23056	15.6705	ng	68
43) 4-Chloro-3-methylphenol	7.142	107	56514	17.2745	ng	80
44) 2-Methylnaphthalene	7.275	142	127757	19.1783	ng	100
45) Methylnaphthalenes (To...	7.275	142	255301m	20.2802	ng	
46) 1,1'-Biphenyl	7.644	154	157331	18.5089	ng	96
48) 1,2,4,5-Tetrachloroben...	7.404	216	58013	22.5805	ng	96
49) Hexachlorocyclopentadiene	7.398	237	27607	22.3698	ng	99
50) 2,4,6-Trichlorophenol	7.495	196	34959	19.4286	ng	100
51) 2,4,5-Trichlorophenol	7.521	196	35241	19.8926	ng	99
53) 2-Chloronaphthalene	7.666	162	115082	21.4570	ng	91
54) 1,4-Dimethylnaphthalene	7.939	156	95012	21.2703	ng	87
55) Dimethylnaphthalenes (...	7.939	156	95012	21.2703	ng	87
56) Diphenyl Ether	7.730	170	88064	21.8227	ng	75
57) 2-Nitroaniline	7.735	65	43102	19.6880	ng	73
58) Coumarin	7.917	146	52015	18.7732	ng	83
59) Acenaphthylene	8.014	152	184928	20.7890	ng	99
60) Dimethylphthalate	7.885	163	132715	19.7784	ng	98
61) 2,6-Dinitrotoluene	7.939	165	30077	20.2639	ng	62
62) Acenaphthene	8.163	153	120054	20.3414	ng	97
63) 3-Nitroaniline	8.083	138	33953	18.1912	ng	80
64) 2,4-Dinitrophenol	8.174	184	10564	13.1052	ng	51
65) Dibenzofuran	8.318	168	167594	19.0554	ng	83

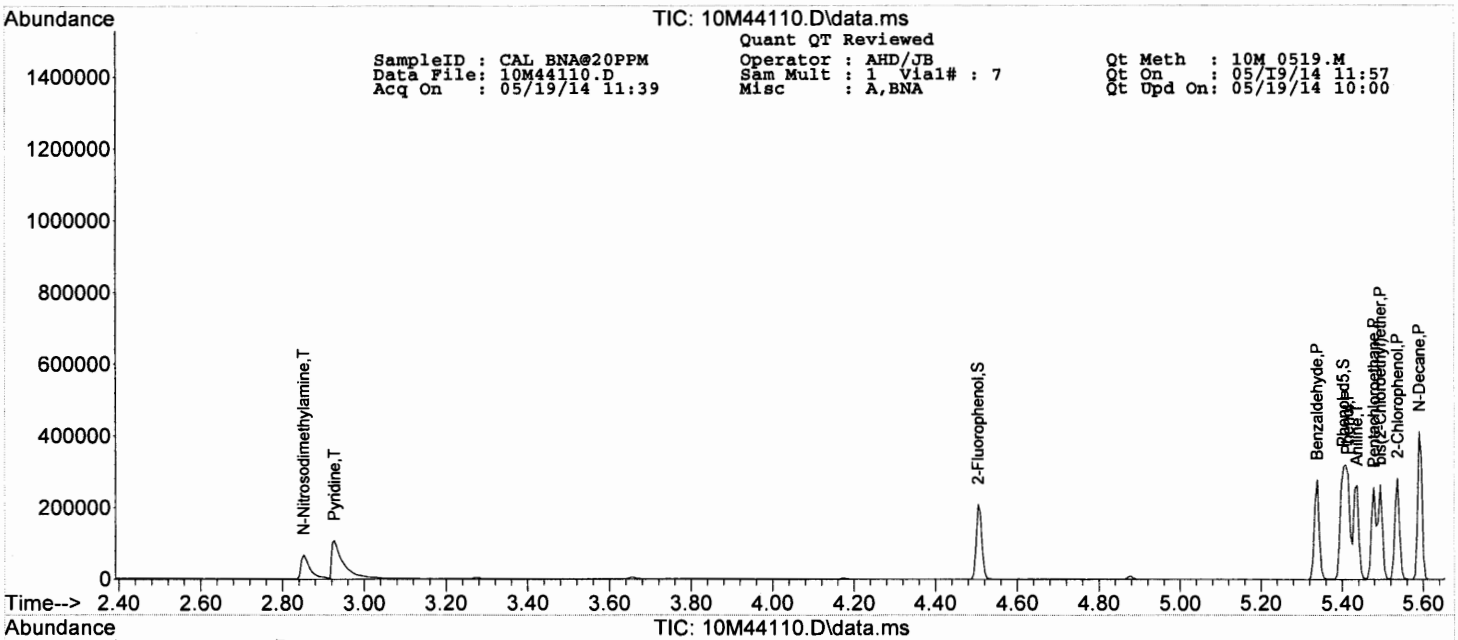
Quantitation Report (QT Reviewed)

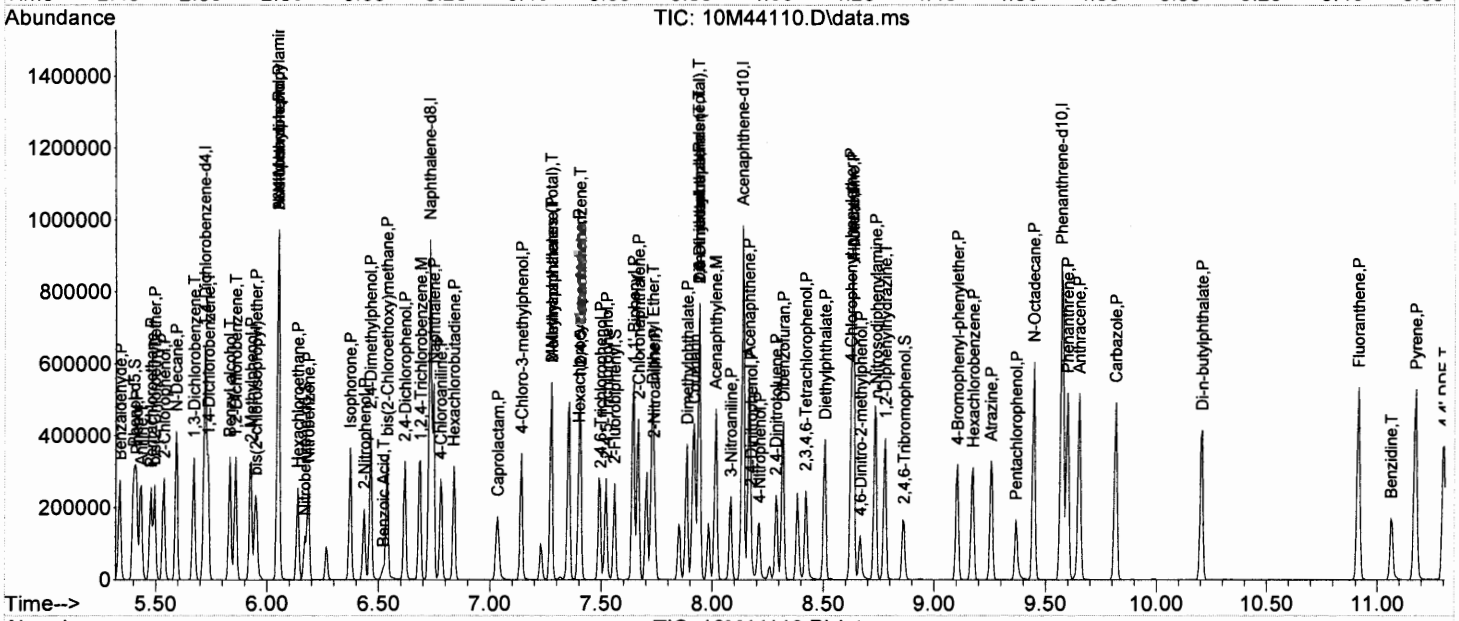
SampleID : CAL BNA@20PPM
Data File: 10M44110.D
Acq On : 05/19/14 11:39
Operator : AHD/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 10M_0519.M
Qt On : 05/19/14 11:57
Qt Upd On: 05/19/14 10:00

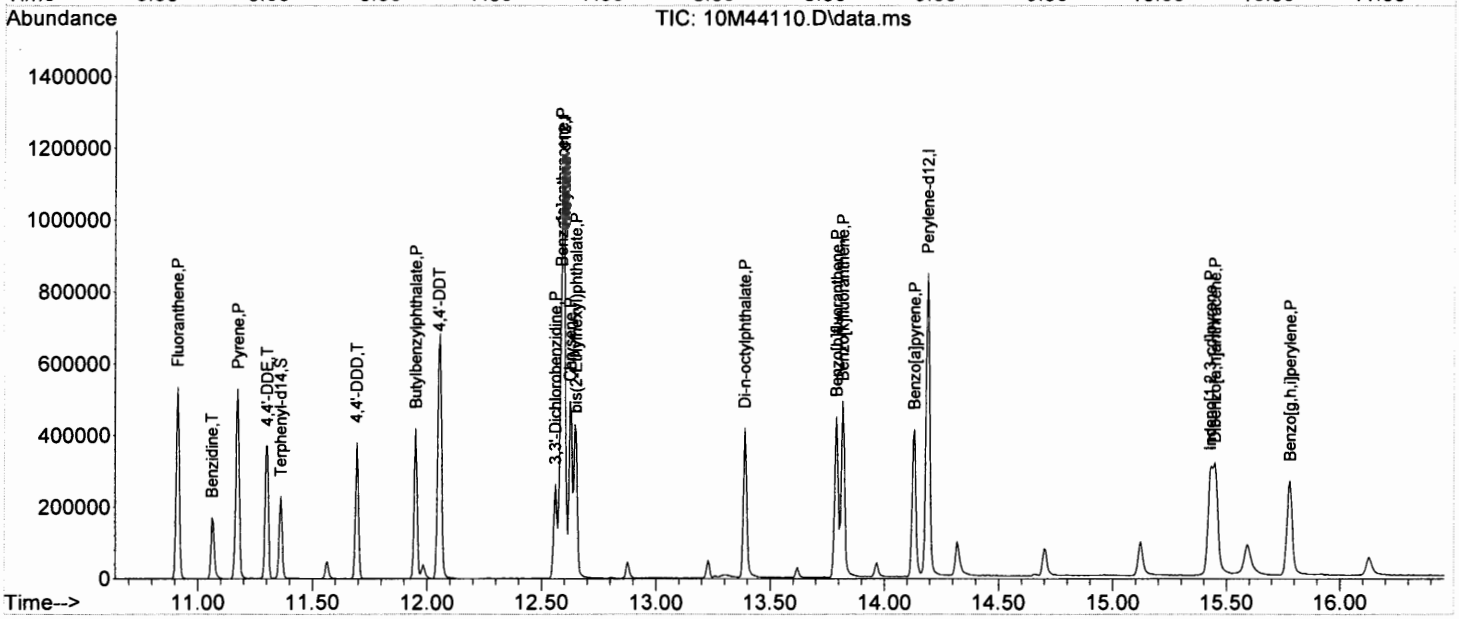
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.286	165	38470	18.4973	ng	70
67)	4-Nitrophenol	8.211	65	24603m	16.6083	ng	
68)	2,3,4,6-Tetrachlorophenol	8.420	232	31262	18.6910	ng	79
69)	Fluorene	8.634	166	142206	19.9027	ng	98
70)	4-Chlorophenyl-phenyle...	8.623	204	63855	19.2577	ng	85
71)	Diethylphthalate	8.506	149	129013	18.5724	ng	97
72)	4-Nitroaniline	8.634	138	37988	17.7509	ng	69
73)	Atrazine	9.254	200	33675	18.0134	ng	97
75)	4,6-Dinitro-2-methylph...	8.666	198	17232	16.8627	ng	66
76)	n-Nitrosodiphenylamine	8.736	169	116655	21.1928	ng	100
78)	1,2-Diphenylhydrazine	8.778	77	166420	23.7124	ng	84
79)	4-Bromophenyl-phenylether	9.105	248	37075	20.4035	ng	82
80)	Hexachlorobenzene	9.174	284	43478	20.0305	ng	60
81)	N-Octadecane	9.447	57	100892	22.2335	ng	79
82)	Pentachlorophenol	9.367	266	21241	15.0306	ng	99
83)	Phenanthrene	9.597	178	194881	20.3248	ng	100
84)	Anthracene	9.650	178	198300	20.5450	ng	99
85)	Carbazole	9.816	167	197379	19.6342	ng	98
86)	Di-n-butylphthalate	10.207	149	218988	18.6026	ng	97
87)	Fluoranthene	10.913	202	213825	18.9490	ng	99
89)	Pyrene	11.175	202	222551	21.6257	ng	95
90)	Benzidine	11.062	184	70976	20.1417	ng	95
92)	4,4'-DDE	11.303	246	43385	20.0661	ng	86
93)	4,4'-DDD	11.693	235	69397	19.2897	ng	95
94)	Butylbenzylphthalate	11.950	149	95136	19.2189	ng	78
95)	4,4'-DDT	12.052	235	61631	19.0599	ng	99
96)	3,3'-Dichlorobenzidine	12.560	252	60428	16.6184	ng	96
97)	Benzo[a]anthracene	12.587	228	204519	19.6180	ng	98
98)	Chrysene	12.624	228	184597	20.0707	ng	99
99)	bis(2-Ethylhexyl)phtha...	12.651	149	122283	19.2719	ng	92
101)	Di-n-octylphthalate	13.389	149	211861	19.0224	ng	100
102)	Benzo[b]fluoranthene	13.790	252	199901	19.9001	ng	94
103)	Benzo[k]fluoranthene	13.817	252	191867	20.1584	ng	96
104)	Benzo[a]pyrene	14.132	252	185843	19.6347	ng	94
105)	Indeno[1,2,3-cd]pyrene	15.427	276	203992	17.1132	ng	85
106)	Dibenzo[a,h]anthracene	15.448	278	171659	17.5198	ng	92
107)	Benzo[g,h,i]perylene	15.780	276	169074	17.0550	ng	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44110.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 10M44110.D
Acq On : 05/19/14 11:39
Operator : AHD/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/19/14 11:57
Qt Upd On: 05/19/14 10:00
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44110.D\data.ms
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Hexachlorobutadiene,P
Benzoic Acid,T
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene,P
2,4-Dinitrophenol,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4,6-Dinitro-2-methylphenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M44110.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM
Data File: 10M44109.D
Acq On : 05/19/14 11:13

Operator : AHD/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA

Qt Meth : 10M_0519.M
Qt On : 05/19/14 11:30
Qt Upd On: 05/19/14 10:00

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	85347	40.00	ng	-0.02
29) Naphthalene-d8	6.730	136	326051	40.00	ng	-0.02
47) Acenaphthene-d10	8.137	164	185337	40.00	ng	-0.02
74) Phenanthrene-d10	9.575	188	331539	40.00	ng	-0.02
88) Chrysene-d12	12.603	240	340386	40.00	ng	-0.02
100) Perylene-d12	14.191	264	313112	40.00	ng	-0.03
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	263473	82.25	ng	-0.02
Spiked Amount 100.000			Recovery = 82.25%			
15) Phenol-d5	5.409	99	372943	70.24	ng	-0.01
Spiked Amount 100.000			Recovery = 70.24%			
30) Nitrobenzene-d5	6.174	128	62297	43.90	ng	-0.02
Spiked Amount 50.000			Recovery = 87.80%			
52) 2-Fluorobiphenyl	7.559	172	268041	44.14	ng	-0.02
Spiked Amount 50.000			Recovery = 88.28%			
77) 2,4,6-Tribromophenol	8.864	330	95478	92.45	ng	-0.02
Spiked Amount 100.000			Recovery = 92.45%			
91) Terphenyl-d14	11.362	244	291904	44.77	ng	-0.03
Spiked Amount 50.000			Recovery = 89.54%			
Target Compounds						Qvalue
8) Pyridine	2.911	79	341540	86.7463	ng	72
9) N-Nitrosodimethylamine	2.852	74	201769	84.1146	ng	71
11) Benzaldehyde	5.339	77	191973	104.2501	ng	79
12) Aniline	5.436	93	422909	75.9356	ng	68
13) Pentachloroethane	5.478	117	97291	84.9969	ng	86
14) bis(2-Chloroethyl)ether	5.500	93	269083	67.3101	ng	81
16) Phenol	5.420	94	392421	69.3879	ng	80
17) 2-Chlorophenol	5.537	128	267292	73.4605	ng	85
18) N-Decane	5.596	57	280413	87.3670	ng	81
19) 1,3-Dichlorobenzene	5.671	146	280030	80.7877	ng	97
20) 1,4-Dichlorobenzene	5.735	146	279281	78.9870	ng	98
21) 1,2-Dichlorobenzene	5.858	146	264642	77.5329	ng	98
22) Benzyl alcohol	5.837	108	188178	68.7450	ng	70
23) bis(2-chloroisopropyl)...	5.949	45	370965	67.8207	ng	93
24) 2-Methylphenol	5.928	108	255460	65.7564	ng	96
25) Acetophenone	6.051	105	362515	66.6983	ng	73
26) Hexachloroethane	6.136	117	106630	81.8240	ng	83
27) N-Nitroso-di-n-propyla...	6.056	70	190007	60.1209	ng	67
28) 3&4-Methylphenol	6.056	108	254642	60.8302	ng	98
31) Nitrobenzene	6.190	77	276892	82.5227	ng	78
32) Isophorone	6.377	82	515708	76.5934	ng	87
33) 2-Nitrophenol	6.436	139	141439	88.5133	ng	87
34) 2,4-Dimethylphenol	6.468	107	263966	76.7346	ng	89
35) Benzoic Acid	6.564	105	175329	71.4566	ng	87
36) bis(2-Chloroethoxy)met...	6.543	93	326527	79.8290	ng	96
37) 2,4-Dichlorophenol	6.623	162	213166	79.6762	ng	86
38) 1,2,4-Trichlorobenzene	6.687	180	223514	86.5051	ng	98
39) Naphthalene	6.746	128	740932m	74.2924	ng	
40) 4-Chloroaniline	6.783	127	298270m	75.8691	ng	
41) Hexachlorobutadiene	6.837	225	120338	92.1601	ng	97
42) Caprolactam	7.067	113	96965	67.4683	ng	69
43) 4-Chloro-3-methylphenol	7.147	107	234084	73.2500	ng	79
44) 2-Methylnaphthalene	7.276	142	502877	77.2811	ng	99
45) Methylnaphthalenes (To...	7.276	142	996002m	80.9965	ng	
46) 1,1'-Biphenyl	7.645	154	603625	72.6977	ng	97
48) 1,2,4,5-Tetrachloroben...	7.409	216	230333	91.7077	ng	98
49) Hexachlorocyclopentadiene	7.399	237	129490	107.3298	ng	98
50) 2,4,6-Trichlorophenol	7.495	196	148370	84.3473	ng	99
51) 2,4,5-Trichlorophenol	7.527	196	153766	88.7860	ng	100
53) 2-Chloronaphthalene	7.666	162	439895	83.8983	ng	93
54) 1,4-Dimethylnaphthalene	7.944	156	353937	81.0520	ng	89
55) Dimethylnaphthalenes (...	7.944	156	353937	81.0520	ng	89
56) Diphenyl Ether	7.730	170	340531	86.3195	ng	77
57) 2-Nitroaniline	7.741	65	169221	79.0677	ng	61
58) Coumarin	7.928	146	202553	74.7809	ng	86
59) Acenaphthylene	8.019	152	698942	80.3737	ng	99
60) Dimethylphthalate	7.891	163	512944	78.1958	ng	98
61) 2,6-Dinitrotoluene	7.944	165	116253	80.1187	ng	61
62) Acenaphthene	8.169	153	459651	79.6664	ng	98
63) 3-Nitroaniline	8.089	138	136443	74.7782	ng	79
64) 2,4-Dinitrophenol	8.179	184	69402	88.0700	ng	38
65) Dibenzofuran	8.319	168	641287	74.5854	ng	87

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM
Data File: 10M44109.D
Acq On : 05/19/14 11:13

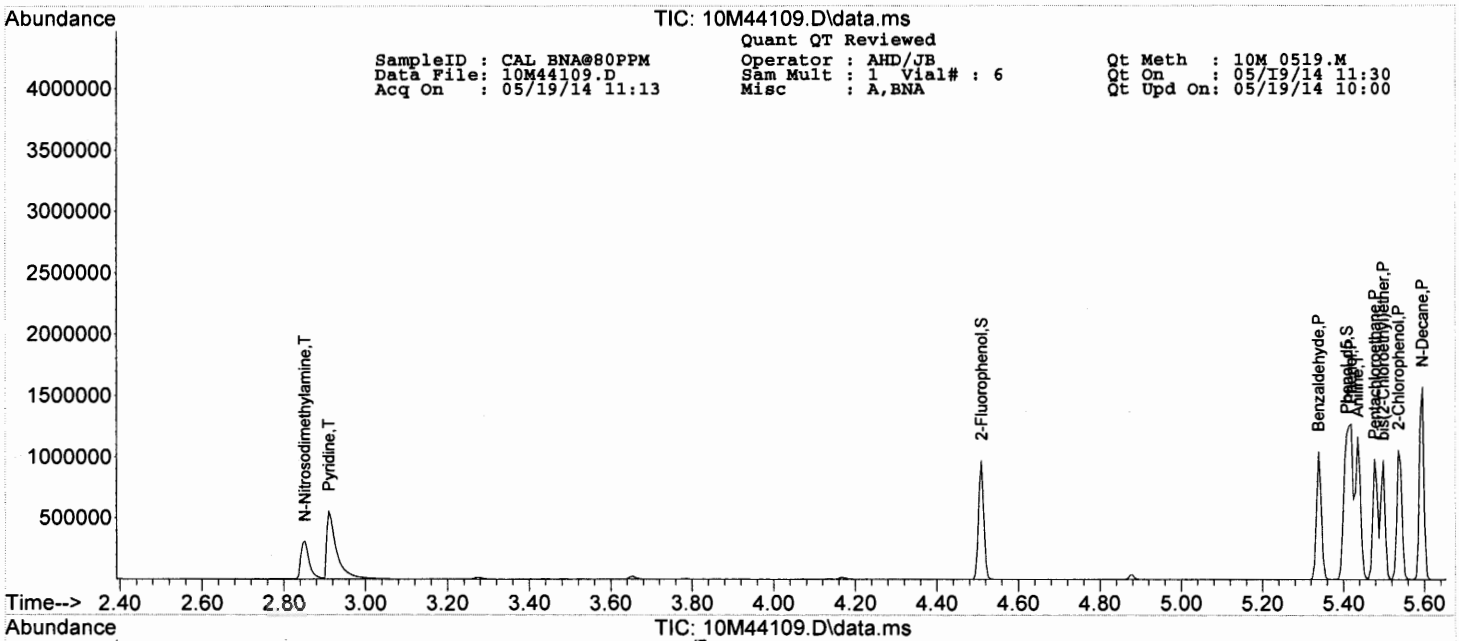
Operator : AHD/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA

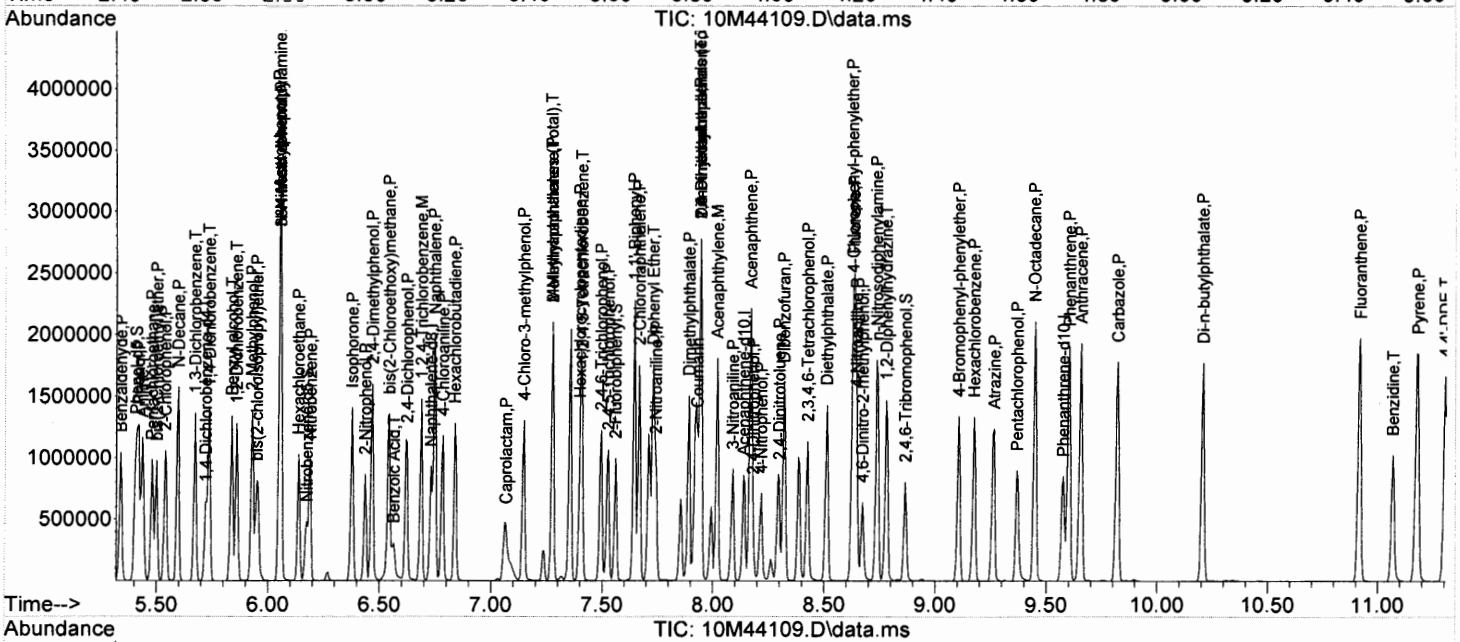
Qt Meth : 10M_0519.M
Qt On : 05/19/14 11:30
Qt Upd On: 05/19/14 10:00

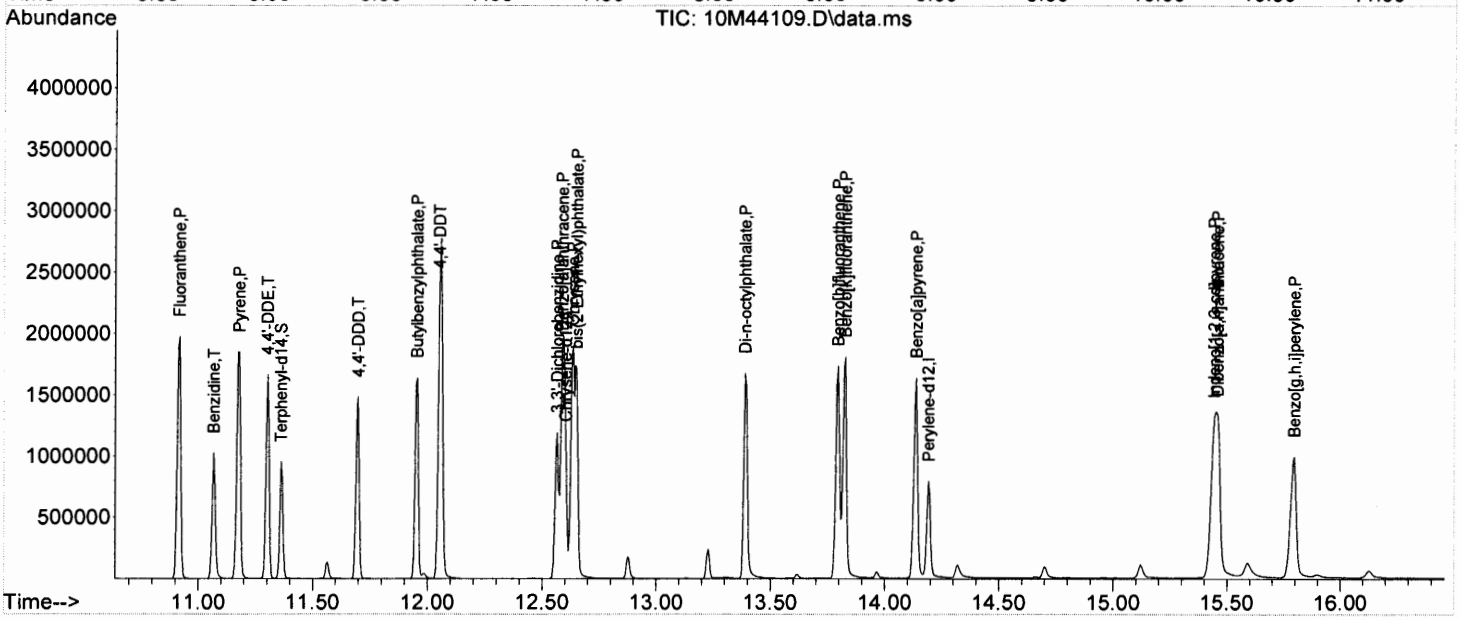
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.297	165	162454	79.9022	ng	60
67)	4-Nitrophenol	8.217	65	103684m	71.5965	ng	
68)	2,3,4,6-Tetrachlorophenol	8.426	232	133429	81.6034	ng	81
69)	Fluorene	8.634	166	530623	75.9665	ng	99
70)	4-Chlorophenyl-phenyle...	8.629	204	258970	79.8916	ng	80
71)	Diethylphthalate	8.511	149	516145	76.0062	ng	96
72)	4-Nitroaniline	8.645	138	152004	72.6558	ng	68
73)	Atrazine	9.265	200	141291	77.3114	ng	95
75)	4,6-Dinitro-2-methylph...	8.672	198	89821	91.4305	ng	62
76)	n-Nitrosodiphenylamine	8.736	169	450984	85.2248	ng	100
78)	1,2-Diphenylhydrazine	8.779	77	629216	93.2588	ng	87
79)	4-Bromophenyl-phenylether	9.105	248	155791	89.1840	ng	85
80)	Hexachlorobenzene	9.174	284	181406	86.9352	ng	63
81)	N-Octadecane	9.447	57	381434	87.4363	ng	77
82)	Pentachlorophenol	9.367	266	115699	85.1632	ng	98
83)	Phenanthrene	9.602	178	744860	80.8076	ng	99
84)	Anthracene	9.656	178	759425	81.8445	ng	98
85)	Carbazole	9.822	167	758166	78.4507	ng	98
86)	Di-n-butylphthalate	10.207	149	916921	81.0228	ng	97
87)	Fluoranthene	10.918	202	853595	78.6864	ng	99
89)	Pyrene	11.180	202	843819	88.7560	ng	94
90)	Benzidine	11.068	184	400204	122.9344	ng	93
92)	4,4'-DDE	11.303	246	185887	93.0634	ng	85
93)	4,4'-DDD	11.699	235	299200	90.0230	ng	96
94)	Butylbenzylphthalate	11.956	149	412601	90.2238	ng	72
95)	4,4'-DDT	12.052	235	290667	97.3026	ng	99
96)	3,3'-Dichlorobenzidine	12.565	252	271349	80.7766	ng	96
97)	Benzo[a]anthracene	12.587	228	794856	82.5307	ng	98
98)	Chrysene	12.635	228	704574	82.9222	ng	100
99)	bis(2-Ethylhexyl)phtha...	12.651	149	512911	87.4999	ng	90
101)	Di-n-octylphthalate	13.389	149	920495	92.0486	ng	99
102)	Benzo[b]fluoranthene	13.796	252	745919	82.7015	ng	95
103)	Benzo[k]fluoranthene	13.828	252	731793	85.6300	ng	94
104)	Benzo[a]pyrene	14.138	252	733302	86.2864	ng	94
105)	Indeno[1,2,3-cd]pyrene	15.443	276	819050	76.5260	ng	97
106)	Dibenzo[a,h]anthracene	15.459	278	676728	76.9232	ng	92
107)	Benzo[g,h,i]perylene	15.796	276	668744	75.1302	ng	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44109.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@80PPM
Data File: 10M44109.D
Acq On : 05/19/14 11:13
Operator : AHD/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/19/14 11:30
Qt Upd On: 05/19/14 10:00
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44109.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
Benzoic Acid,T
2,4-Dichlorophenol,P
Naphthalene,P
4-Chloroaniline,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M44109.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

4052101 0750

SampleID : CAL BNA@120PPM
Data File: 10M44108.D
Acq On : 05/19/14 10:49

Operator : AHD/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA

Qt Meth : 10M_0519.M
Qt On : 05/19/14 11:11
Qt Upd On: 05/19/14 10:00

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	80736	40.00	ng	-0.02
29) Naphthalene-d8	6.730	136	310608	40.00	ng	-0.02
47) Acenaphthene-d10	8.142	164	173257	40.00	ng	-0.02
74) Phenanthrene-d10	9.575	188	308198	40.00	ng	-0.02
88) Chrysene-d12	12.603	240	308478	40.00	ng	-0.02
100) Perylene-d12	14.191	264	288946	40.00	ng	-0.03
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	382103	126.10	ng	-0.02
Spiked Amount 100.000			Recovery = 126.10%			
15) Phenol-d5	5.409	99	524529	104.43	ng	-0.01
Spiked Amount 100.000			Recovery = 104.43%			
30) Nitrobenzene-d5	6.174	128	88052	65.13	ng	-0.02
Spiked Amount 50.000			Recovery = 130.26%			
52) 2-Fluorobiphenyl	7.564	172	366535	64.56	ng	-0.01
Spiked Amount 50.000			Recovery = 129.12%			
77) 2,4,6-Tribromophenol	8.869	330	138158	143.90	ng	-0.02
Spiked Amount 100.000			Recovery = 143.90%			
91) Terphenyl-d14	11.367	244	400789	67.83	ng	-0.02
Spiked Amount 50.000			Recovery = 135.66%			
Target Compounds						Qvalue
8) Pyridine	2.911	79	479483	128.7371	ng	71
9) N-Nitrosodimethylamine	2.852	74	292184	128.7639	ng	72
11) Benzaldehyde	5.339	77	272163	156.2379	ng	80
12) Aniline	5.441	93	583164	110.6905	ng	68
13) Pentachloroethane	5.478	117	137976	127.4252	ng	86
14) bis(2-Chloroethyl)ether	5.500	93	370802	98.0521	ng	82
16) Phenol	5.420	94	543719	101.6312	ng	82
17) 2-Chlorophenol	5.543	128	375707	109.1536	ng	81
18) N-Decane	5.596	57	385416	126.9404	ng	80
19) 1,3-Dichlorobenzene	5.671	146	395452	120.6023	ng	98
20) 1,4-Dichlorobenzene	5.735	146	392099	117.2279	ng	98
21) 1,2-Dichlorobenzene	5.863	146	373306	115.6148	ng	99
22) Benzyl alcohol	5.837	108	265798	102.6467	ng	71
23) bis(2-chloroisopropyl)...	5.954	45	512100	98.9704	ng	93
24) 2-Methylphenol	5.933	108	359589	97.8459	ng	96
25) Acetophenone	6.056	105	483962	94.1284	ng	74
26) Hexachloroethane	6.136	117	151468	122.8692	ng	82
27) N-Nitroso-di-n-propyla...	6.061	70	251915	84.2618	ng	66
28) 3&4-Methylphenol	6.056	108	336644	85.0122	ng	99
31) Nitrobenzene	6.190	77	382032	119.5186	ng	79
32) Isophorone	6.382	82	709227	110.5721	ng	85
33) 2-Nitrophenol	6.436	139	202537	133.0505	ng	88
34) 2,4-Dimethylphenol	6.468	107	364898	111.3493	ng	91
35) Benzoic Acid	6.580	105	274516	117.4436	ng	86
36) bis(2-Chloroethoxy)met...	6.543	93	448330	115.0569	ng	96
37) 2,4-Dichlorophenol	6.623	162	298683	117.1909	ng	88
38) 1,2,4-Trichlorobenzene	6.687	180	314112	127.6129	ng	98
39) Naphthalene	6.751	128	1007372m	106.0300	ng	
40) 4-Chloroaniline	6.783	127	384343m	102.6236	ng	
41) Hexachlorobutadiene	6.842	225	170146	136.7839	ng	98
42) Caprolactam	7.072	113	145647	106.3798	ng	69
43) 4-Chloro-3-methylphenol	7.147	107	324021	106.4344	ng	84
44) 2-Methylnaphthalene	7.276	142	677493	109.2922	ng	99
45) Methylnaphthalenes (To...	7.356	142	1343378m	114.6772	ng	
46) 1,1'-Biphenyl	7.645	154	808333	102.1920	ng	97
48) 1,2,4,5-Tetrachloroben...	7.409	216	317801	135.3556	ng	99
49) Hexachlorocyclopentadiene	7.404	237	187739	166.4600	ng	97
50) 2,4,6-Trichlorophenol	7.495	196	225811	137.3224	ng	99
51) 2,4,5-Trichlorophenol	7.527	196	214980	132.7864	ng	99
53) 2-Chloronaphthalene	7.666	162	603530	123.1329	ng	94
54) 1,4-Dimethylnaphthalene	7.944	156	473227	115.9254	ng	90
55) Dimethylnaphthalenes (...	7.944	156	473227	115.9254	ng	90
56) Diphenyl Ether	7.730	170	465944	126.3449	ng	78
57) 2-Nitroaniline	7.746	65	228739	114.3290	ng	52
58) Coumarin	7.933	146	279718	110.4698	ng	86
59) Acenaphthylene	8.019	152	955858	117.5811	ng	98
60) Dimethylphthalate	7.896	163	706813	115.2628	ng	98
61) 2,6-Dinitrotoluene	7.944	165	154903	114.1986	ng	65
62) Acenaphthene	8.169	153	621998	115.3207	ng	98
63) 3-Nitroaniline	8.094	138	177429	104.0207	ng	75
64) 2,4-Dinitrophenol	8.179	184	102310	138.8818	ng	45
65) Dibenzofuran	8.324	168	876241	109.0175	ng	85

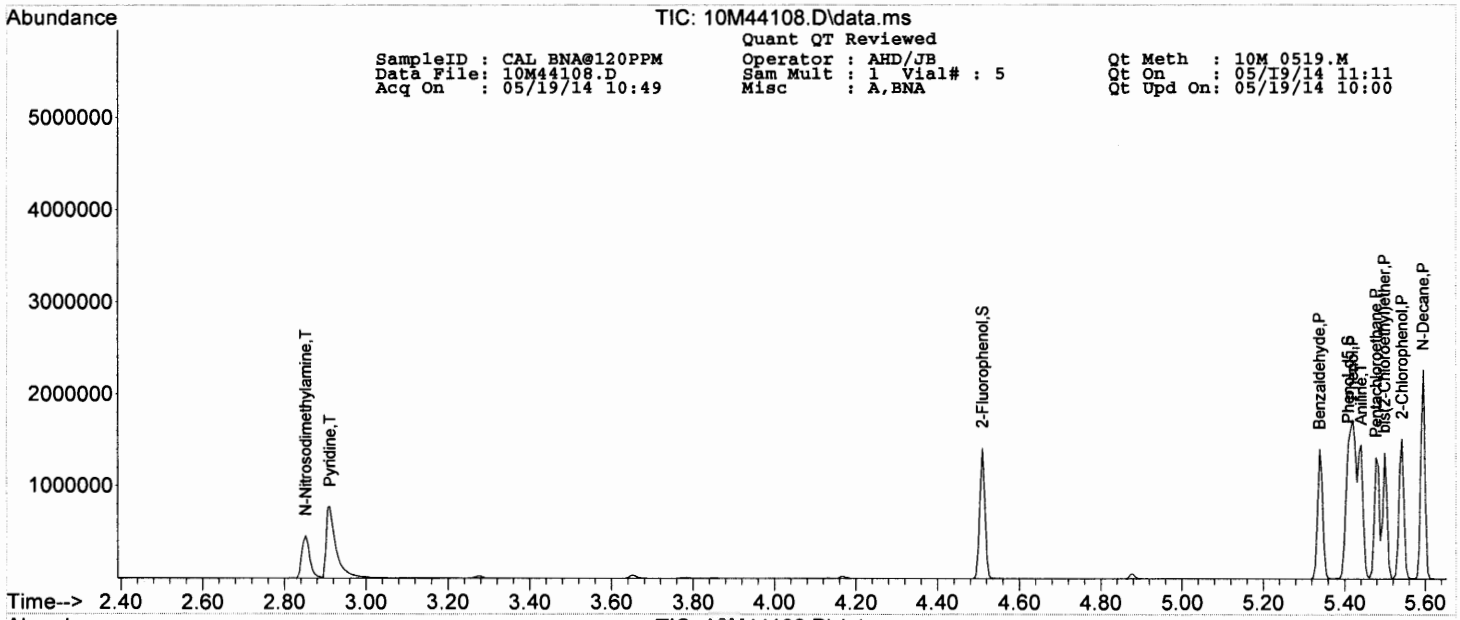
Quantitation Report (QT Reviewed)

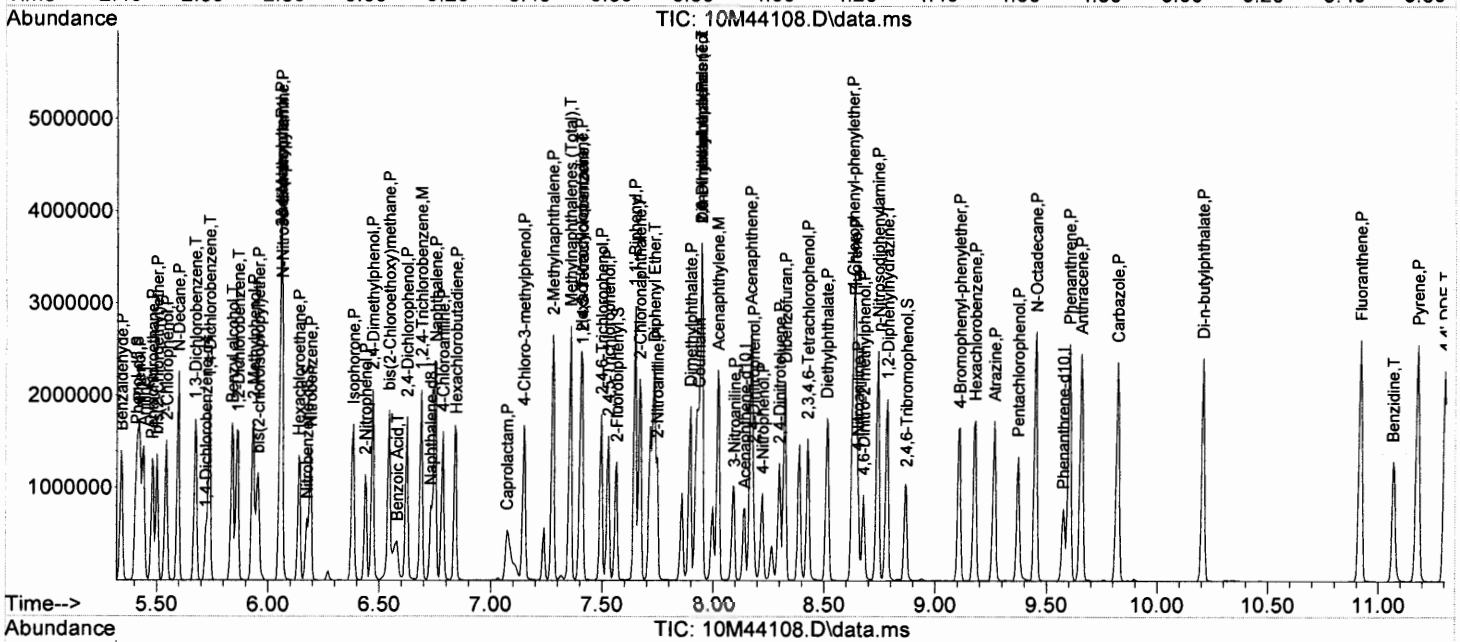
SampleID : CAL BNA@120PPM
Data File: 10M44108.D
Acq On : 05/19/14 10:49
Operator : AHD/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 10M_0519.M
Qt On : 05/19/14 11:11
Qt Upd On: 05/19/14 10:00

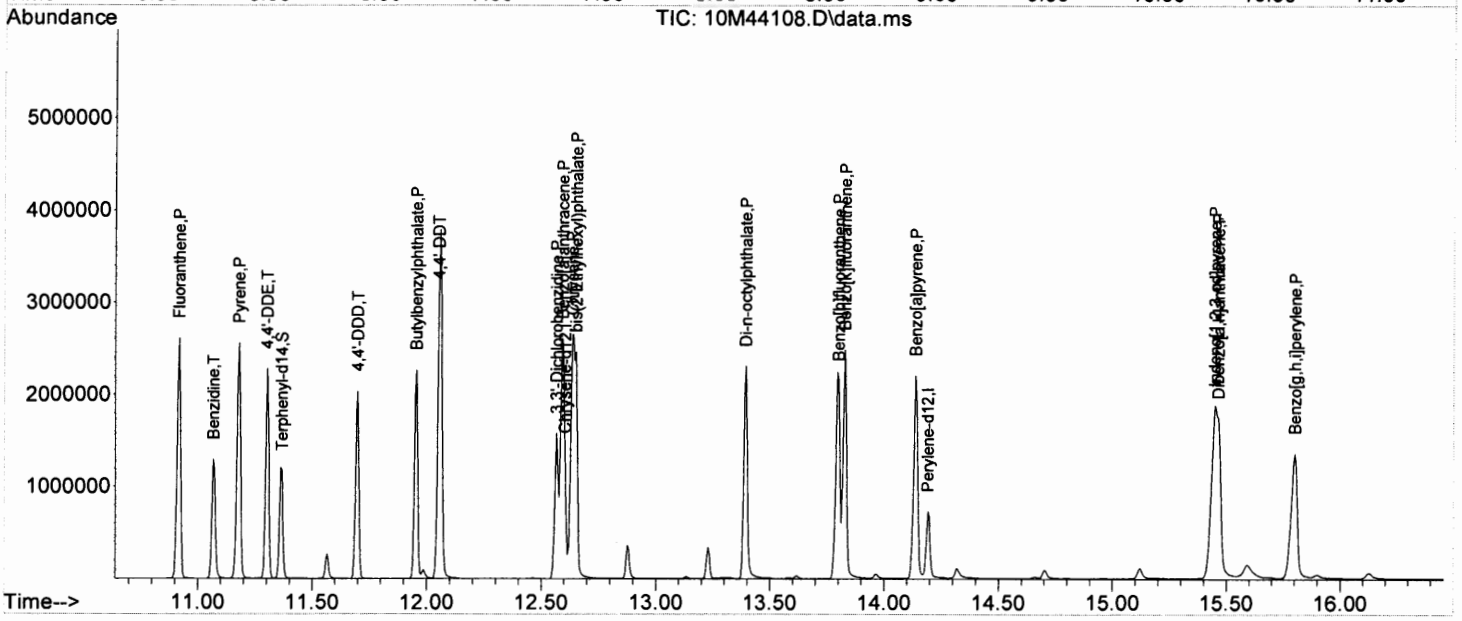
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 2,4-Dinitrotoluene	8.297	165	226167	118.9950	ng	67
67) 4-Nitrophenol	8.222	65	143653m	106.1123	ng	
68) 2,3,4,6-Tetrachlorophenol	8.425	232	183404	119.9881	ng	83
69) Fluorene	8.639	166	710372	108.7911	ng	99
70) 4-Chlorophenyl-phenyle...	8.629	204	362910	119.7627	ng	82
71) Diethylphthalate	8.511	149	705236	111.0922	ng	96
72) 4-Nitroaniline	8.650	138	207963	106.3341	ng	70
73) Atrazine	9.265	200	196411	114.9651	ng	96
75) 4,6-Dinitro-2-methylph...	8.677	198	130450	142.8440	ng	65
76) n-Nitrosodiphenylamine	8.741	169	613888	124.7955	ng	99
78) 1,2-Diphenylhydrazine	8.784	77	847201	135.0769	ng	81
79) 4-Bromophenyl-phenylether	9.110	248	223448	137.6024	ng	78
80) Hexachlorobenzene	9.180	284	255723	131.8313	ng	58
81) N-Octadecane	9.452	57	507777	125.2132	ng	74
82) Pentachlorophenol	9.372	266	168820	133.6753	ng	96
83) Phenanthrene	9.602	178	1005707	117.3691	ng	99
84) Anthracene	9.656	178	1022510	118.5433	ng	97
85) Carbazole	9.821	167	1022725	113.8403	ng	99
86) Di-n-butylphthalate	10.207	149	1254681	119.2651	ng	97
87) Fluoranthene	10.918	202	1154153	114.4500	ng	99
89) Pyrene	11.180	202	1133150	131.5174	ng	97
90) Benzidine	11.068	184	531533	180.1647	ng	94
92) 4,4'-DDE	11.303	246	259873	143.5617	ng	84
93) 4,4'-DDD	11.699	235	418628	138.9849	ng	96
94) Butylbenzylphthalate	11.956	149	561003	135.3642	ng	73
95) 4,4'-DDT	12.052	235	400934	148.0979	ng	98
96) 3,3'-Dichlorobenzidine	12.565	252	361135	118.6245	ng	97
97) Benzo[a]anthracene	12.592	228	1077209	123.4169	ng	98
98) Chrysene	12.635	228	961242	124.8316	ng	99
99) bis(2-Ethylhexyl)phtha...	12.651	149	695816	130.9807	ng	90
101) Di-n-octylphthalate	13.394	149	1278329	138.5228	ng	99
102) Benzo[b]fluoranthene	13.801	252	1061989m	127.5924	ng	
103) Benzo[k]fluoranthene	13.828	252	1030712m	130.6947	ng	
104) Benzo[a]pyrene	14.138	252	1028655	131.1633	ng	95
105) Indeno[1,2,3-cd]pyrene	15.448	276	1175092	118.9745	ng	87
106) Dibenzo[a,h]anthracene	15.464	278	963865	118.7250	ng	91
107) Benzo[g,h,i]perylene	15.801	276	963336	117.2777	ng	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44108.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@120PPM
Data File: 10M44108.D
Acq On : 05/19/14 10:49
Operator : AHD/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/19/14 11:11
Qt Upd On: 05/19/14 10:00
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44108.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,P
Hexachlorobutadiene,P
Benzoic Acid,T
Isophorone,P
Acenaphthylene,M
Acenaphthene,P
Dimethylphthalate,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M44108.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

4052101 0753

SampleID : CAL BNA@160PPM Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44107.D Sam Mult : 1 Vial# : 4 Qt On : 05/19/14 10:51
Acq On : 05/19/14 10:26 Misc : A,BNA Qt Upd On: 05/19/14 10:00

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	78502	40.00	ng	-0.02
29) Naphthalene-d8	6.735	136	301747	40.00	ng	-0.01
47) Acenaphthene-d10	8.142	164	171395	40.00	ng	-0.02
74) Phenanthrene-d10	9.575	188	305920	40.00	ng	-0.02
88) Chrysene-d12	12.608	240	309221	40.00	ng	-0.02
100) Perylene-d12	14.197	264	283299	40.00	ng	-0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	498956	169.35	ng	-0.02
Spiked Amount 100.000			Recovery = 169.35%			
15) Phenol-d5	5.414	99	665721	136.31	ng	0.00
Spiked Amount 100.000			Recovery = 136.31%			
30) Nitrobenzene-d5	6.174	128	116007	88.33	ng	-0.02
Spiked Amount 50.000			Recovery = 176.66%			
52) 2-Fluorobiphenyl	7.564	172	476373	84.82	ng	-0.01
Spiked Amount 50.000			Recovery = 169.64%			
77) 2,4,6-Tribromophenol	8.869	330	190106	199.48	ng	-0.02
Spiked Amount 100.000			Recovery = 199.48%			
91) Terphenyl-d14	11.367	244	545069	92.02	ng	-0.02
Spiked Amount 50.000			Recovery = 184.04%			
Target Compounds						Qvalue
8) Pyridine	2.906	79	612633	169.1676	ng	71
9) N-Nitrosodimethylamine	2.852	74	380360	172.3928	ng	73
11) Benzaldehyde	5.339	77	333642	196.9810	ng	80
12) Aniline	5.441	93	741826	144.8133	ng	68
13) Pentachloroethane	5.478	117	174671	165.9048	ng	85
14) bis(2-Chloroethyl)ether	5.505	93	481543	130.9593	ng	79
16) Phenol	5.425	94	686540	131.9790	ng	84
17) 2-Chlorophenol	5.543	128	483719	144.5334	ng	82
18) N-Decane	5.596	57	475831	161.1794	ng	79
19) 1,3-Dichlorobenzene	5.671	146	499732	156.7421	ng	98
20) 1,4-Dichlorobenzene	5.735	146	497442	152.9552	ng	99
21) 1,2-Dichlorobenzene	5.864	146	470032	149.7140	ng	99
22) Benzyl alcohol	5.842	108	340650	135.2969	ng	68
23) bis(2-chloroisopropyl)...	5.954	45	637339	126.6798	ng	95
24) 2-Methylphenol	5.933	108	457810	128.1174	ng	97
25) Acetophenone	6.056	105	593008	118.6197	ng	71
26) Hexachloroethane	6.136	117	193338	161.2968	ng	83
27) N-Nitroso-di-n-propyla...	6.061	70	311477	107.1493	ng	66
28) 3&4-Methylphenol	6.061	108	412045	107.0143	ng	98
31) Nitrobenzene	6.190	77	489228	157.5494	ng	81
32) Isophorone	6.382	82	915343	146.8973	ng	86
33) 2-Nitrophenol	6.441	139	261297	176.6917	ng	81
34) 2,4-Dimethylphenol	6.473	107	464686	145.9638	ng	90
35) Benzoic Acid	6.591	105	378202	166.5540	ng	88
36) bis(2-Chloroethoxy)met...	6.543	93	567682	149.9649	ng	96
37) 2,4-Dichlorophenol	6.623	162	381541	154.0971	ng	90
38) 1,2,4-Trichlorobenzene	6.687	180	402602	168.3665	ng	98
39) Naphthalene	6.751	128	1259260m	136.4345	ng	
40) 4-Chloroaniline	6.783	127	472951m	129.9912	ng	
41) Hexachlorobutadiene	6.842	225	223276	184.7673	ng	97
42) Caprolactam	7.088	113	192216	144.5164	ng	70
43) 4-Chloro-3-methylphenol	7.153	107	419041	141.6886	ng	81
44) 2-Methylnaphthalene	7.276	142	833653	138.4330	ng	99
45) Methylnaphthalenes (To...	7.356	142	1667675m	146.5413	ng	
46) 1,1'-Biphenyl	7.650	154	1025453	133.4480	ng	96
48) 1,2,4,5-Tetrachloroben...	7.409	216	410447	176.7139	ng	99
49) Hexachlorocyclopentadiene	7.404	237	246104	220.5802	ng	97
50) 2,4,6-Trichlorophenol	7.495	196	279435m	171.7789	ng	
51) 2,4,5-Trichlorophenol	7.527	196	285994	178.5687	ng	98
53) 2-Chloronaphthalene	7.671	162	774284	159.6865	ng	92
54) 1,4-Dimethylnaphthalene	7.949	156	589789	146.0489	ng	88
55) Dimethylnaphthalenes (...	7.949	156	589789	146.0489	ng	88
56) Diphenyl Ether	7.730	170	590519	161.8640	ng	79
57) 2-Nitroaniline	7.746	65	294131	148.6106	ng	54
58) Coumarin	7.933	146	352739	140.8216	ng	86
59) Acenaphthylene	8.024	152	1209759	150.4304	ng	98
60) Dimethylphthalate	7.896	163	910925	150.1619	ng	97
61) 2,6-Dinitrotoluene	7.949	165	195901	145.9924	ng	62
62) Acenaphthene	8.174	153	782421	146.6397	ng	99
63) 3-Nitroaniline	8.094	138	221433	131.2291	ng	80
64) 2,4-Dinitrophenol	8.185	184	141501	194.1688	ng	36
65) Dibenzofuran	8.324	168	1113146	139.9966	ng	88

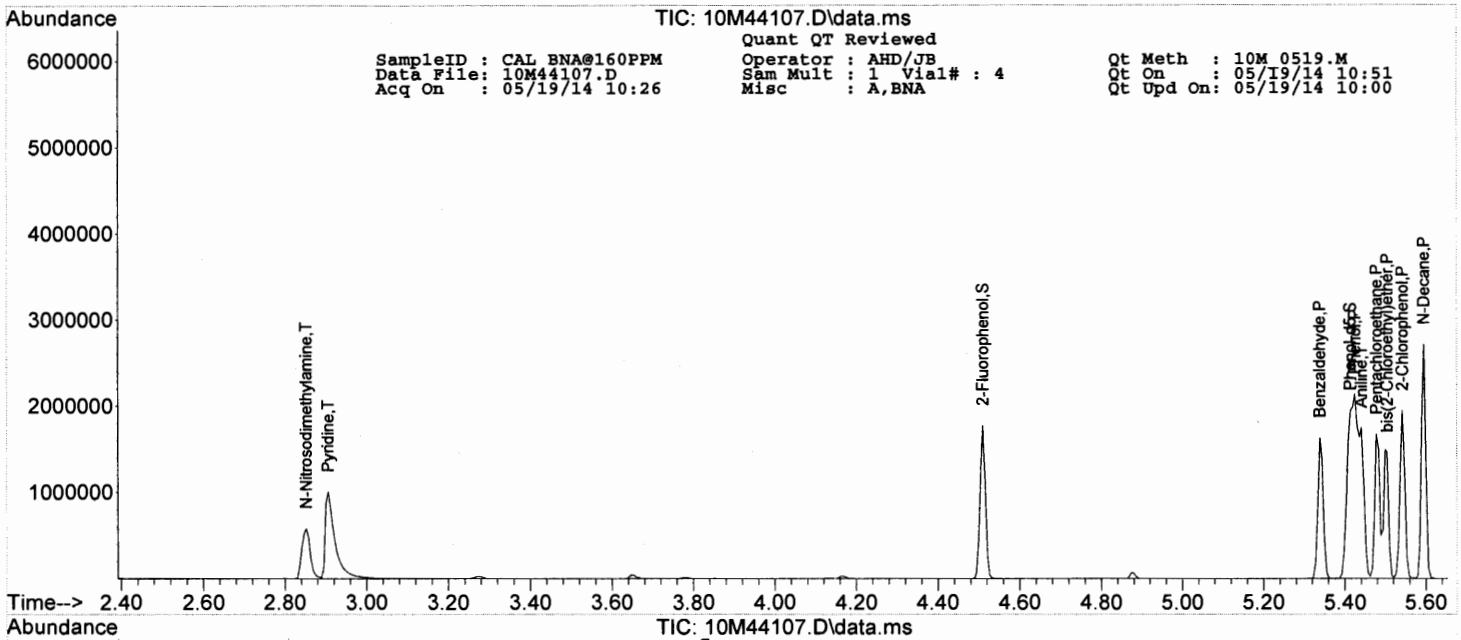
Quantitation Report (QT Reviewed)

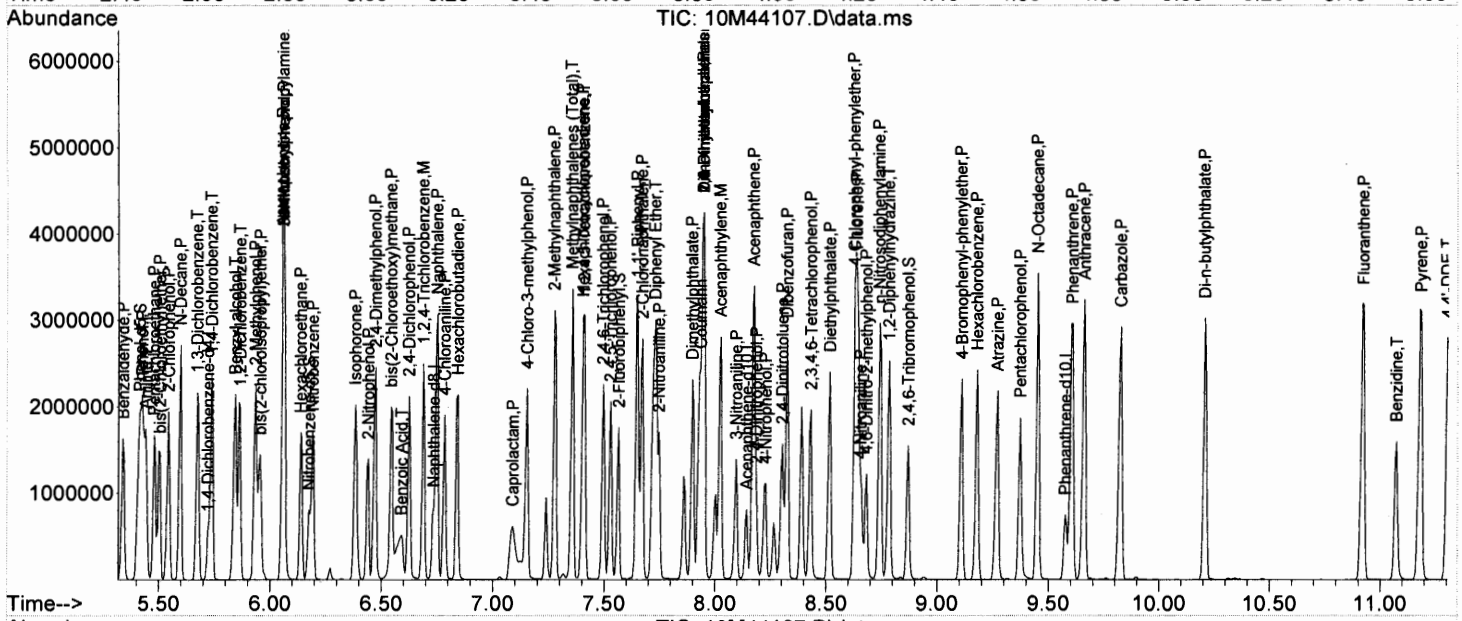
SampleID : CAL BNA@160PPM
Data File: 10M44107.D
Acq On : 05/19/14 10:26
Operator : AHD/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 10M_0519.M
Qt On : 05/19/14 10:51
Qt Upd On: 05/19/14 10:00

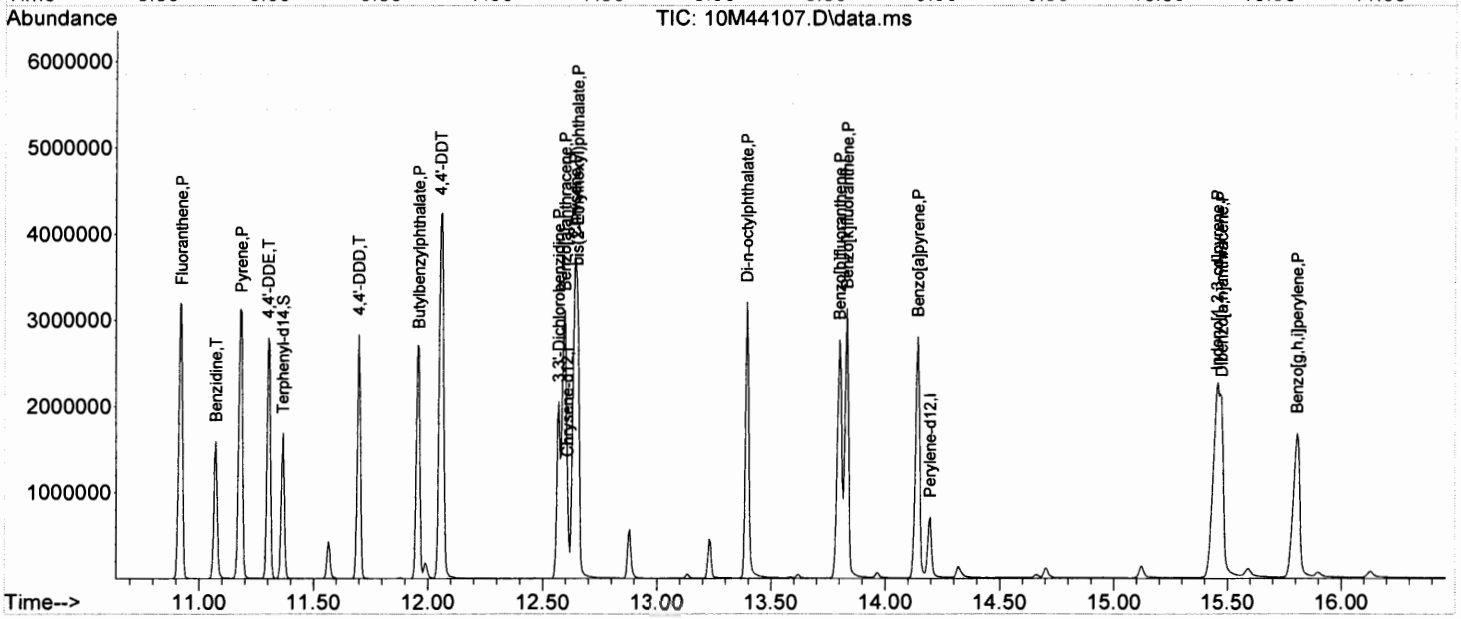
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.303	165	303128	161.2198	ng	62
67)	4-Nitrophenol	8.228	65	190390m	142.1634	ng	
68)	2,3,4,6-Tetrachlorophenol	8.431	232	246251	162.8545	ng	83
69)	Fluorene	8.639	166	897813	138.9908	ng	98
70)	4-Chlorophenyl-phenyle...	8.629	204	468884	156.4159	ng	82
71)	Diethylphthalate	8.516	149	913836	145.5157	ng	94
72)	4-Nitroaniline	8.656	138	272984	141.0965	ng	70
73)	Atrazine	9.271	200	264548	156.5299	ng	95
75)	4,6-Dinitro-2-methylph...	8.682	198	180013	198.5838	ng	67
76)	n-Nitrosodiphenylamine	8.741	169	788029	161.3890	ng	100
78)	1,2-Diphenylhydrazine	8.784	77	1097055	176.2159	ng	80
79)	4-Bromophenyl-phenylether	9.110	248	294316	182.5935	ng	79
80)	Hexachlorobenzene	9.180	284	344596	178.9703	ng	58
81)	N-Octadecane	9.452	57	627411	155.8659	ng	71
82)	Pentachlorophenol	9.372	266	232061	185.1192	ng	96
83)	Phenanthrene	9.608	178	1293238	152.0487	ng	99
84)	Anthracene	9.661	178	1308666	152.8482	ng	97
85)	Carbazole	9.827	167	1329997	149.1454	ng	98
86)	Di-n-butylphthalate	10.207	149	1634847	156.5594	ng	97
87)	Fluoranthene	10.923	202	1514351	151.2868	ng	98
89)	Pyrene	11.185	202	1484208	171.8486	ng	94
90)	Benzidine	11.073	184	646230	218.5152	ng	92
92)	4,4'-DDE	11.303	246	356117	196.2571	ng	84
93)	4,4'-DDD	11.699	235	568897	188.4205	ng	97
94)	Butylbenzylphthalate	11.961	149	757988	182.4551	ng	71
95)	4,4'-DDT	12.057	235	539792	198.9105	ng	98
96)	3,3'-Dichlorobenzidine	12.571	252	464185	152.1076	ng	96
97)	Benzo[a]anthracene	12.597	228	1429930	163.4348	ng	98
98)	Chrysene	12.640	228	1259862	163.2187	ng	98
99)	bis(2-Ethylhexyl)phtha...	12.651	149	921564	173.0588	ng	89
101)	Di-n-octylphthalate	13.394	149	1688019	186.5639	ng	99
102)	Benzo[b]fluoranthene	13.801	252	1441109m	176.5929	ng	
103)	Benzo[k]fluoranthene	13.833	252	1307817	169.1372	ng	95
104)	Benzo[a]pyrene	14.143	252	1324510	172.2540	ng	95
105)	Indeno[1,2,3-cd]pyrene	15.454	276	1531086	158.1077	ng	88
106)	Dibenzo[a,h]anthracene	15.475	278	1249974	157.0358	ng	90
107)	Benzo[g,h,i]perylene	15.807	276	1252685	155.5433	ng	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44107.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 10M44107.D
Acq On : 05/19/14 10:26
Operator : AHD/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/19/14 10:51
Qt Upd On: 05/19/14 10:00
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Pentachloroethane,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44107.D\data.ms
Benzaldehyde,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
Benzoic Acid,T
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene,P
4-Chloroaniline,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,P
Methylnaphthalenes (Total),T
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M44107.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

4052101 0756

SampleID : CAL BNA@196PPM Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44105.D Sam Mult : 1 Vial# : 2 Qt On : 05/19/14 10:00
Acq On : 05/19/14 09:38 Misc : A,BNA Qt Upd On: 05/19/14 10:00

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.724	152	61269	40.00	ng	-0.01
29) Naphthalene-d8	6.730	136	234051	40.00	ng	-0.02
47) Acenaphthene-d10	8.142	164	126716	40.00	ng	-0.02
74) Phenanthrene-d10	9.576	188	233379	40.00	ng	-0.02
88) Chrysene-d12	12.608	240	251241	40.00	ng	-0.02
100) Perylene-d12	14.197	264	246536	40.00	ng	-0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	552204	240.14	ng	-0.02
Spiked Amount 100.000			Recovery = 240.14%			
15) Phenol-d5	5.414	99	722619	189.58	ng	0.00
Spiked Amount 100.000			Recovery = 189.58%			
30) Nitrobenzene-d5	6.174	128	125495	123.19	ng	-0.02
Spiked Amount 50.000			Recovery = 246.38%			
52) 2-Fluorobiphenyl	7.564	172	491791	118.44	ng	-0.01
Spiked Amount 50.000			Recovery = 236.88%			
77) 2,4,6-Tribromophenol	8.870	330	198861	273.53	ng	-0.02
Spiked Amount 100.000			Recovery = 273.53%			
91) Terphenyl-d14	11.367	244	590986	122.80	ng	-0.02
Spiked Amount 50.000			Recovery = 245.60%			
Target Compounds						Qvalue
8) Pyridine	2.906	79	668354	236.4631	ng	70
9) N-Nitrosodimethylamine	2.858	74	425330	246.9962	ng	72
11) Benzaldehyde	5.339	77	415968	314.6615	ng	81
12) Aniline	5.441	93	781573	195.4860	ng	70
13) Pentachloroethane	5.478	117	188056	228.8576	ng	85
14) bis(2-Chloroethyl)ether	5.505	93	509673	177.5959	ng	79
16) Phenol	5.425	94	740979	182.5092	ng	85
17) 2-Chlorophenol	5.543	128	525500	201.1814	ng	82
18) N-Decane	5.596	57	495109	214.8807	ng	78
19) 1,3-Dichlorobenzene	5.671	146	535944	215.3812	ng	97
20) 1,4-Dichlorobenzene	5.735	146	539650	212.6052	ng	99
21) 1,2-Dichlorobenzene	5.864	146	505672	206.3686	ng	99
22) Benzyl alcohol	5.842	108	369043	187.8004	ng	68
23) bis(2-chloroisopropyl)...	5.955	45	687421	175.0651	ng	94
24) 2-Methylphenol	5.933	108	495300	177.5952	ng	95
25) Acetophenone	6.056	105	631131	161.7542	ng	70
26) Hexachloroethane	6.136	117	204695	218.8043	ng	83
27) N-Nitroso-di-n-propyla...	6.061	70	329658	145.3005	ng	66
28) 3&4-Methylphenol	6.061	108	433072	144.1110	ng	99
31) Nitrobenzene	6.195	77	524803	217.8885	ng	75
32) Isophorone	6.382	82	968615	200.4073	ng	87
33) 2-Nitrophenol	6.441	139	283655	247.2889	ng	81
34) 2,4-Dimethylphenol	6.473	107	492102	199.2844	ng	91
35) Benzoic Acid	6.591	105	358679	203.6431	ng	87
36) bis(2-Chloroethoxy)met...	6.548	93	601259	204.7757	ng	94
37) 2,4-Dichlorophenol	6.628	162	407116	211.9844	ng	86
38) 1,2,4-Trichlorobenzene	6.687	180	433340	233.6367	ng	98
39) Naphthalene	6.751	128	1335395m	186.5309	ng	
40) 4-Chloroaniline	6.784	127	399554m	141.5813	ng	
41) Hexachlorobutadiene	6.842	225	240551	256.6390	ng	97
42) Caprolactam	7.094	113	197145	191.0934	ng	69
43) 4-Chloro-3-methylphenol	7.153	107	429829	187.3728	ng	81
44) 2-Methylnaphthalene	7.276	142	871800	186.6395	ng	100
45) Methylnaphthalenes (To...	7.356	142	1731424m	196.1482	ng	
46) 1,1'-Biphenyl	7.650	154	1042839	174.9629	ng	95
48) 1,2,4,5-Tetrachloroben...	7.409	216	429501	250.1178	ng	99
49) Hexachlorocyclopentadiene	7.404	237	258644	313.5574	ng	97
50) 2,4,6-Trichlorophenol	7.495	196	294584	244.9428	ng	99
51) 2,4,5-Trichlorophenol	7.527	196	288049	243.2660	ng	97
53) 2-Chloronaphthalene	7.671	162	792888	221.1803	ng	93
54) 1,4-Dimethylnaphthalene	7.950	156	600722	201.2065	ng	87
55) Dimethylnaphthalenes (...	7.950	156	600722	201.2065	ng	87
56) Diphenyl Ether	7.730	170	607813	225.3477	ng	78
57) 2-Nitroaniline	7.746	65	300474	205.3442	ng	56
58) Coumarin	7.939	146	362797	195.9053	ng	87
59) Acenaphthylene	8.024	152	1235689	207.8321	ng	98
60) Dimethylphthalate	7.901	163	932155	207.8414	ng	97
61) 2,6-Dinitrotoluene	7.950	165	197332	198.9106	ng	63
62) Acenaphthene	8.174	153	805047	204.0793	ng	98
63) 3-Nitroaniline	8.094	138	229734	184.1535	ng	79
64) 2,4-Dinitrophenol	8.185	184	139932	259.7189	ng	38
65) Dibenzofuran	8.324	168	1131741	192.5214	ng	88

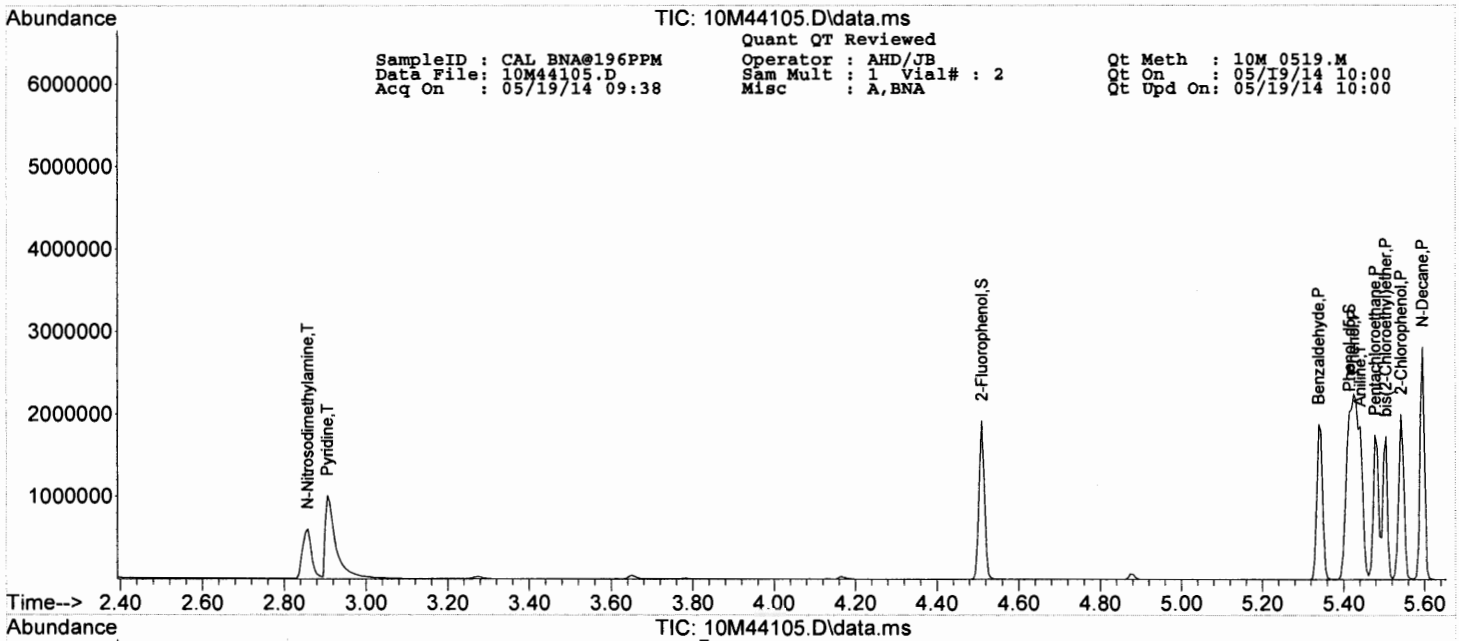
Quantitation Report (QT Reviewed)

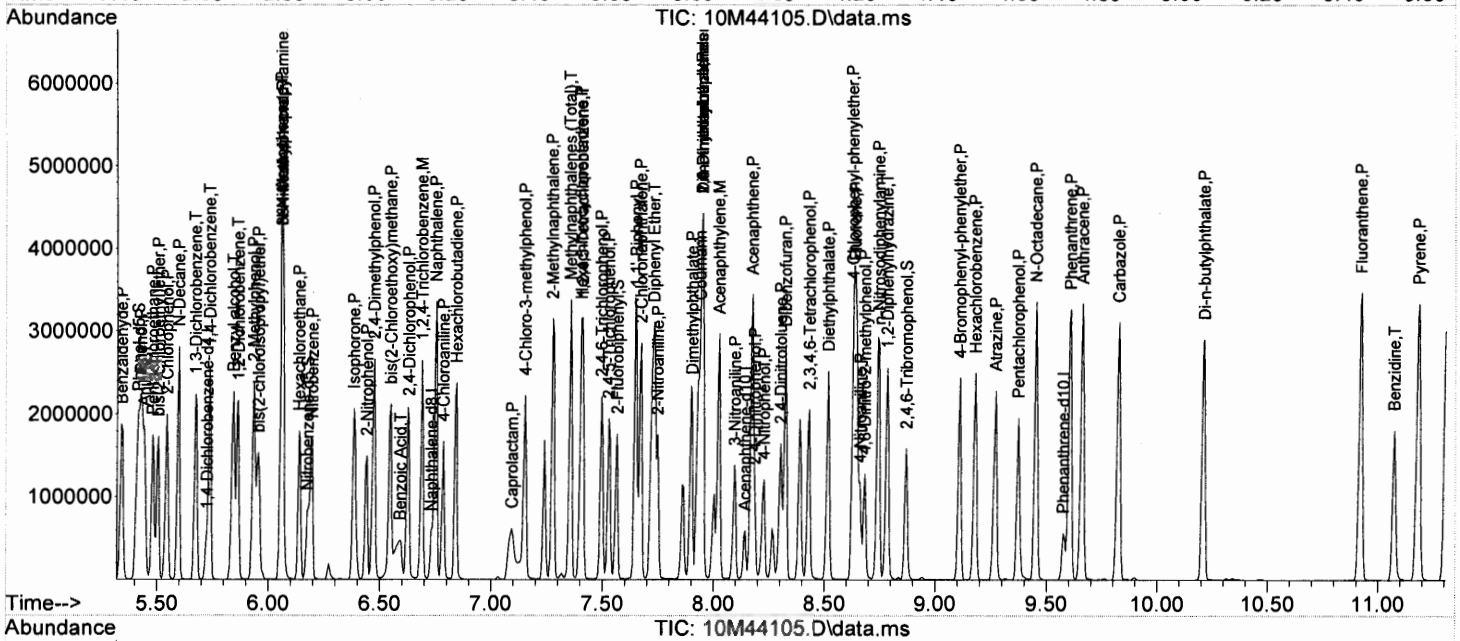
SampleID : CAL BNA@196PPM
Data File: 10M44105.D
Acq On : 05/19/14 09:38
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M_0519.M
Qt On : 05/19/14 10:00
Qt Upd On: 05/19/14 10:00

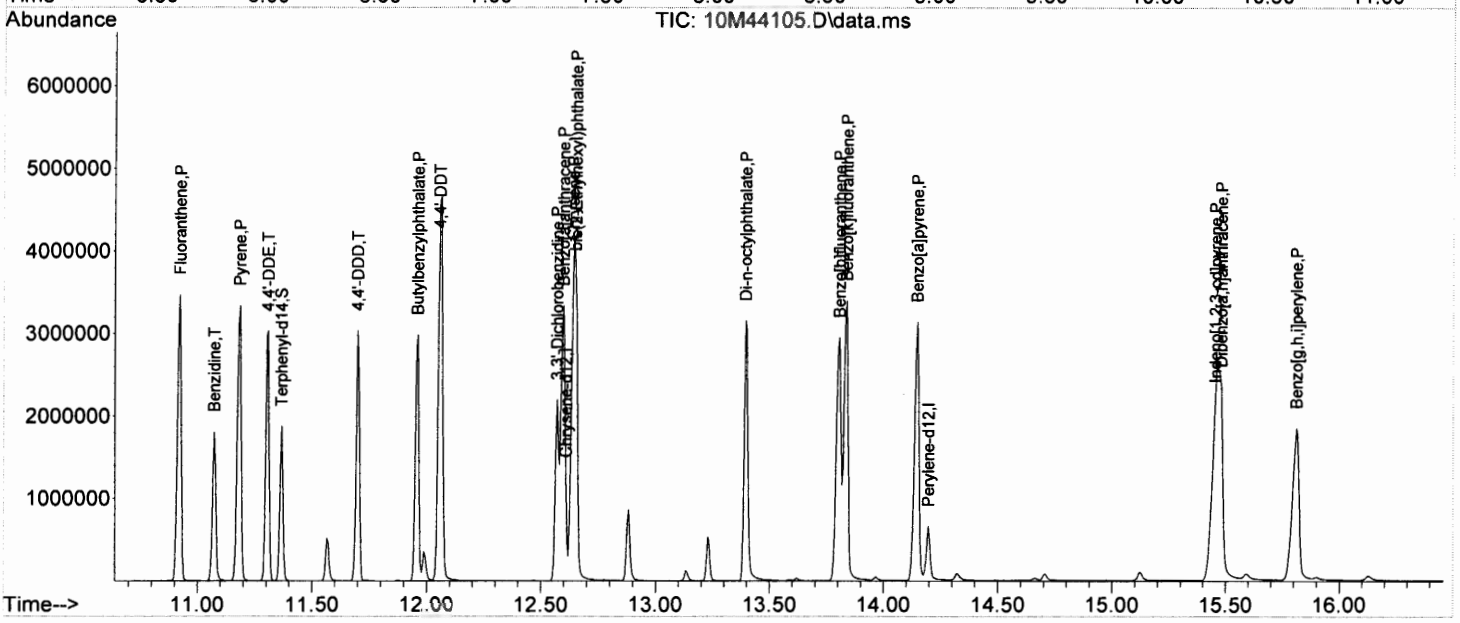
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.303	165	313461	225.4979	ng	62
67)	4-Nitrophenol	8.228	65	194508m	196.4481	ng	
68)	2,3,4,6-Tetrachlorophenol	8.431	232	251266	224.7617	ng	84
69)	Fluorene	8.640	166	911089	190.7777	ng	98
70)	4-Chlorophenyl-phenyle...	8.629	204	476533	215.0181	ng	83
71)	Diethylphthalate	8.517	149	939205	202.2873	ng	94
72)	4-Nitroaniline	8.661	138	288117	201.4256	ng	69
73)	Atrazine	9.271	200	275547	220.5236	ng	95
75)	4,6-Dinitro-2-methylph...	8.682	198	187684	271.4022	ng	66
76)	n-Nitrosodiphenylamine	8.746	169	808795	217.1282	ng	99
78)	1,2-Diphenylhydrazine	8.784	77	1104282	232.5106	ng	81
79)	4-Bromophenyl-phenylether	9.110	248	307664	250.2039	ng	78
80)	Hexachlorobenzene	9.180	284	360595	245.4915	ng	59
81)	N-Octadecane	9.453	57	626845	204.1293	ng	72
82)	Pentachlorophenol	9.372	266	240126	251.0929	ng	96
83)	Phenanthrene	9.608	178	1355154	208.8522	ng	99
84)	Anthracene	9.661	178	1363248	208.7144	ng	97
85)	Carbazole	9.827	167	1409268	207.1566	ng	98
86)	Di-n-butylphthalate	10.212	149	1692176	212.4191	ng	97
87)	Fluoranthene	10.923	202	1627304	213.1028	ng	98
89)	Pyrene	11.185	202	1595363	227.3470	ng	95
90)	Benzidine	11.073	184	727299	302.6816	ng	94
92)	4,4'-DDE	11.308	246	382277	259.2921	ng	84
93)	4,4'-DDD	11.699	235	620939	253.1173	ng	96
94)	Butylbenzylphthalate	11.961	149	807123	239.1178	ng	70
95)	4,4'-DDT	12.057	235	585215	265.4149	ng	97
96)	3,3'-Dichlorobenzidine	12.571	252	469568	189.3812	ng	96
97)	Benzo[a]anthracene	12.598	228	1573429	221.3377	ng	97
98)	Chrysene	12.640	228	1414978	225.6188	ng	98
99)	bis(2-Ethylhexyl)phtha...	12.651	149	984480	227.5378	ng	89
101)	Di-n-octylphthalate	13.394	149	1847378	234.6231	ng	99
102)	Benzo[b]fluoranthene	13.806	252	1614321m	227.3166	ng	
103)	Benzo[k]fluoranthene	13.838	252	1599469	237.7020	ng	94
104)	Benzo[a]pyrene	14.149	252	1611262	240.7936	ng	94
105)	Indeno[1,2,3-cd]pyrene	15.454	276	1775941	210.7399	ng	87
106)	Dibenzo[a,h]anthracene	15.480	278	1452757	209.7275	ng	89
107)	Benzo[g,h,i]perylene	15.812	276	1406165	200.6367	ng	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44105.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@196PPM
Data File: 10M44105.D
Acq On : 05/19/14 09:38
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/19/14 10:00
Qt Upd On: 05/19/14 10:00
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Pentachloroethane,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44105.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,P
Hexachlorobutadiene,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene,P
Benzoic Acid,T
Naphthalene-d8,I
4-Chloroaniline,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
Benzidine,T
Time-->


Abundance
TIC: 10M44105.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

4052101 0759

SampleID : CAL BNA@.5PPM Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44113.D Sam Mult : 1 Vial# : 10 Qt On : 05/19/14 13:33
Acq On : 05/19/14 12:50 Misc : A,BNA Qt Upd On: 05/19/14 10:00

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	77383	40.00	ng	-0.02
29) Naphthalene-d8	6.730	136	302581	40.00	ng	-0.02
47) Acenaphthene-d10	8.137	164	172394	40.00	ng	-0.02
74) Phenanthrene-d10	9.570	188	307049	40.00	ng	-0.03
88) Chrysene-d12	12.592	240	318431	40.00	ng	-0.03
100) Perylene-d12	14.191	264	304508	40.00	ng	-0.03
System Monitoring Compounds						
10) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery	=	0.00%	
15) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery	=	0.00%	
30) Nitrobenzene-d5	0.000	128	0	0.00	ng	
Spiked Amount 50.000			Recovery	=	0.00%	
52) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
Spiked Amount 50.000			Recovery	=	0.00%	
77) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery	=	0.00%	
91) Terphenyl-d14	0.000	244	0d	0.00	ng	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
8) Pyridine	0.000		0	N.D. d		
9) N-Nitrosodimethylamine	0.000		0	N.D.		
11) Benzaldehyde	0.000		0	N.D. d		
12) Aniline	5.436	93	1504m	0.2978	ng	
13) Pentachloroethane	0.000		0	N.D. d		
14) bis(2-Chloroethyl)ether	5.494	93	1353	0.3733	ng	88
16) Phenol	0.000		0	N.D. d		
17) 2-Chlorophenol	0.000		0	N.D. d		
18) N-Decane	0.000		0	N.D. d		
19) 1,3-Dichlorobenzene	0.000		0	N.D. d		
20) 1,4-Dichlorobenzene	0.000		0	N.D. d		
21) 1,2-Dichlorobenzene	0.000		0	N.D. d		
22) Benzyl alcohol	0.000		0	N.D. d		
23) bis(2-chloroisopropyl)...	0.000		0	N.D. d		
24) 2-Methylphenol	5.928	108	1011	0.2870	ng	91
25) Acetophenone	0.000		0	N.D. d		
26) Hexachloroethane	0.000		0	N.D.		
27) N-Nitroso-di-n-propyla...	6.051	70	863	0.3012	ng	76
28) 3&4-Methylphenol	6.051	108	1086	0.2861	ng	98
31) Nitrobenzene	0.000		0	N.D. d		
32) Isophorone	0.000		0	N.D. d		
33) 2-Nitrophenol	0.000		0	N.D.		
34) 2,4-Dimethylphenol	6.463	107	1092	0.3421	ng	91
35) Benzoic Acid	0.000		0	N.D.		
36) bis(2-Chloroethoxy)met...	0.000		0	N.D. d		
37) 2,4-Dichlorophenol	6.618	162	712	0.2868	ng	89
38) 1,2,4-Trichlorobenzene	0.000		0	N.D. d		
39) Naphthalene	6.746	128	4261m	0.4604	ng	
40) 4-Chloroaniline	6.778	127	1133	0.3105	ng	85
41) Hexachlorobutadiene	0.000		0	N.D. d		
42) Caprolactam	0.000		0	N.D.		
43) 4-Chloro-3-methylphenol	0.000		0	N.D. d		
44) 2-Methylnaphthalene	0.000		0	N.D. d		
45) Methylnaphthalenes (To...	0.000		0	N.D. d		
46) 1,1'-Biphenyl	0.000		0	N.D. d		
48) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
49) Hexachlorocyclopentadiene	0.000		0	N.D.		
50) 2,4,6-Trichlorophenol	0.000		0	N.D.		
51) 2,4,5-Trichlorophenol	0.000		0	N.D.		
53) 2-Chloronaphthalene	0.000		0	N.D. d		
54) 1,4-Dimethylnaphthalene	0.000		0	N.D. d		
55) Dimethylnaphthalenes (...	0.000		0	N.D. d		
56) Diphenyl Ether	0.000		0	N.D. d		
57) 2-Nitroaniline	0.000		0	N.D. d		
58) Coumarin	0.000		0	N.D. d		
59) Acenaphthylene	0.000		0	N.D. d		
60) Dimethylphthalate	0.000		0	N.D. d		
61) 2,6-Dinitrotoluene	0.000		0	N.D. d		
62) Acenaphthene	0.000		0	N.D. d		
63) 3-Nitroaniline	0.000		0	N.D.		
64) 2,4-Dinitrophenol	0.000		0	N.D.		
65) Dibenzofuran	8.313	168	3781	0.4728	ng	81

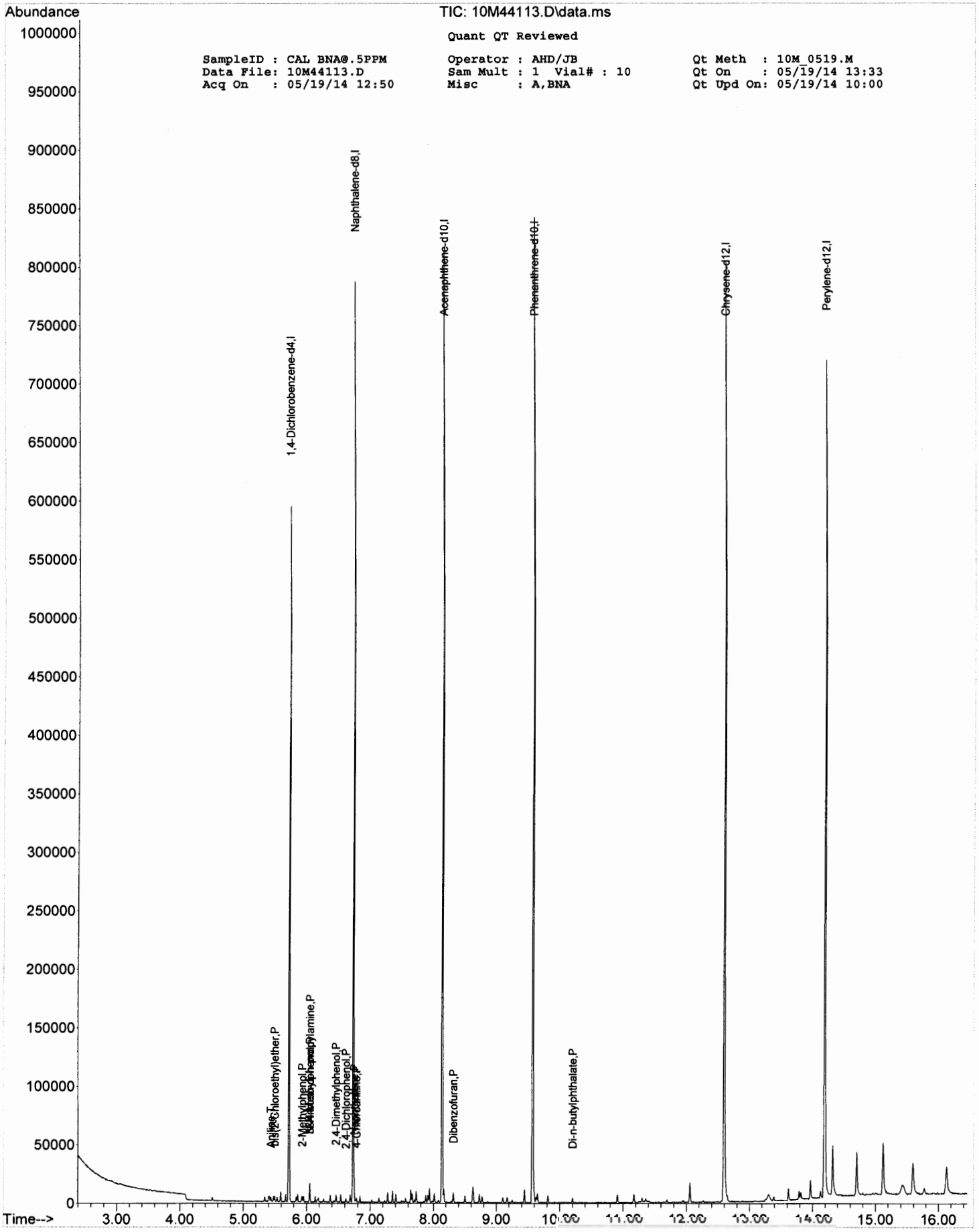
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@.5PPM Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44113.D Sam Mult : 1 Vial# : 10 Qt On : 05/19/14 13:33
Acq On : 05/19/14 12:50 Misc : A,BNA Qt Upd On: 05/19/14 10:00

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	0.000		0	N.D. d		
67)	4-Nitrophenol	0.000		0	N.D. d		
68)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
69)	Fluorene	0.000		0	N.D. d		
70)	4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
71)	Diethylphthalate	0.000		0	N.D. d		
72)	4-Nitroaniline	0.000		0	N.D.		
73)	Atrazine	0.000		0	N.D.		
75)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
76)	n-Nitrosodiphenylamine	0.000		0	N.D. d		
78)	1,2-Diphenylhydrazine	0.000		0	N.D. d		
79)	4-Bromophenyl-phenylether	0.000		0	N.D. d		
80)	Hexachlorobenzene	0.000		0	N.D. d		
81)	N-Octadecane	0.000		0	N.D. d		
82)	Pentachlorophenol	0.000		0	N.D.		
83)	Phenanthrene	0.000		0	N.D. d		
84)	Anthracene	0.000		0	N.D. d		
85)	Carbazole	0.000		0	N.D. d		
86)	Di-n-butylphthalate	10.201	149	2454	0.2341	ng	91
87)	Fluoranthene	0.000		0	N.D. d		
89)	Pyrene	0.000		0	N.D. d		
90)	Benzidine	0.000		0	N.D.		
92)	4,4'-DDE	0.000		0	N.D. d		
93)	4,4'-DDD	0.000		0	N.D. d		
94)	Butylbenzylphthalate	0.000		0	N.D. d		
95)	4,4'-DDT	0.000		0	N.D. d		
96)	3,3'-Dichlorobenzidine	0.000		0	N.D. d		
97)	Benzo[a]anthracene	0.000		0	N.D. d		
98)	Chrysene	0.000		0	N.D. d		
99)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
101)	Di-n-octylphthalate	0.000		0	N.D. d		
102)	Benzo[b]fluoranthene	0.000		0	N.D. d		
103)	Benzo[k]fluoranthene	0.000		0	N.D. d		
104)	Benzo[a]pyrene	0.000		0	N.D. d		
105)	Indeno[1,2,3-cd]pyrene	0.000		0	N.D. d		
106)	Dibenzo[a,h]anthracene	0.000		0	N.D. d		
107)	Benzo[g,h,i]perylene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44113.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@.5PPM
Data File: 10M44113.D
Acq On : 05/19/14 12:50
Operator : AHD/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 10M_0519.M
Qt On : 05/19/14 13:33
Qt Upd On: 05/19/14 10:00
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
2-Methylphenol,P
2,4-Dimethylphenol,P
2,4-Dichlorophenol,P
Dibenzofuran,P
Di-n-butylphthalate,P
Time-->

4052101 0762

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M56926.	CAL BNA@50PPM	05/21/14 09:18	2	9M56928.	CAL BNA@2PPM	05/21/14 10:07
3	9M56927.	CAL BNA@10PPM	05/21/14 09:44	4	9M56930.	CAL BNA@20PPM	05/21/14 10:54
5	9M56931.	CAL BNA@80PPM	05/21/14 11:18	6	9M56932.	CAL BNA@120PPM	05/21/14 11:41
7	9M56933.	CAL BNA@160PPM	05/21/14 12:05	8	9M56934.	CAL BNA@196PPM	05/21/14 12:29
9	9M56929.	CAL BNA@.5PPM	05/21/14 10:31				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Pyridine	1	0	Avg	1.4047	1.4932	1.3015	1.3189	1.4027	1.4262	1.4418	1.5913	-----	1.42	3.16	0.996	0.999	6.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	0.8024	0.8374	0.6824	0.7136	0.7901	0.8221	0.8450	0.9497	-----	0.805	3.08	0.993	0.999	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	1.3868	1.4138	1.1824	1.2644	1.4130	1.4503	1.5129	1.7222	-----	1.42	4.68	0.991	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Qua	0.8493	1.1594	0.9570	0.9924	0.6535	0.5708	0.4892	0.4458	-----	0.765	5.50	0.939	0.994	34	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	2.0371	1.8191	1.8829	1.9943	1.9674	1.9608	1.9404	2.1529	1.5429	1.92	5.60	0.998	0.999	8.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.5655	0.6618	0.5438	0.5378	0.5647	0.5791	0.5719	0.6422	-----	0.583	5.64	0.993	0.997	7.7	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	1.2758	1.5098	1.2080	1.2253	1.2310	1.2367	1.2664	1.4156	1.0979	1.27	5.66	0.996	0.998	9.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	1.8132	1.8703	1.5909	1.6435	1.8159	1.8656	1.9378	2.2016	-----	1.84	5.57	0.989	0.998	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	1.9229	2.1438	1.7513	1.7989	1.9180	1.9269	2.0032	2.2792	-----	1.97	5.58	0.993	0.998	8.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	1.6019	1.7412	1.4441	1.5052	1.5671	1.5873	1.6352	1.8496	-----	1.62	5.70	0.991	0.997	8.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.0090	1.2933	1.0219	1.0358	0.9974	0.9858	0.9675	1.0742	-----	1.05	5.75	0.995	0.997	9.9	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.3-Dichlorobenzene	1	0	Avg	1.6943	1.9487	1.5978	1.6492	1.6877	1.6942	1.7372	1.9464	-----	1.74	5.83	0.992	0.998	7.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.4-Dichlorobenzene	1	0	Avg	1.7037	2.0396	1.6069	1.6769	1.6669	1.7148	1.7333	1.9499	-----	1.76	5.90	0.992	0.998	8.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2-Dichlorobenzene	1	0	Avg	1.6064	1.8796	1.5459	1.5678	1.5750	1.5980	1.6262	1.8237	-----	1.65	6.02	0.992	0.998	7.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9416	0.9368	0.8648	0.8585	0.9280	0.9455	0.9790	1.1103	-----	0.946	5.99	0.993	0.998	8.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)et	1	0	Avg	1.1723	1.4605	1.1314	1.1874	1.1299	1.1140	1.1277	1.2503	-----	1.20	6.11	0.994	0.997	9.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.3484	1.5631	1.3000	1.3245	1.3254	1.3460	1.4027	1.5934	1.1569	1.37	6.09	0.990	0.998	9.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	2.1903	2.5109	1.9940	2.0883	2.2008	2.2570	2.3570	2.7247	-----	2.29	6.21	0.988	0.998	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.6490	0.7438	0.6114	0.6169	0.6390	0.6488	0.6642	0.7513	-----	0.666	6.30	0.991	0.997	8.0	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propylan	1	0	Avg	1.0204	1.1506	0.9565	0.9919	0.9905	1.0018	1.0253	1.1781	0.9417	1.03	6.21	0.994	0.998	8.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.4525	1.6449	1.3415	1.3712	1.4531	1.5167	1.5970	1.8621	1.1225	1.48	6.21	0.985	0.997	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1889	0.2041	0.1794	0.1777	0.1802	0.1889	0.1851	0.2148	-----	0.190	6.33	0.989	0.996	6.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3858	0.4381	0.3657	0.3691	0.3712	0.3755	0.3695	0.4224	-----	0.387	6.35	0.991	0.996	7.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6732	0.7444	0.6215	0.6309	0.6594	0.6682	0.6677	0.7746	-----	0.680	6.53	0.989	0.996	7.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.2312	0.2509	0.2054	0.2078	0.2283	0.2354	0.2365	0.2747	-----	0.234	6.60	0.992	0.998	9.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dimethylphenol	1	0	Avg	0.4166	0.4513	0.3913	0.3903	0.4079	0.4077	0.4078	0.4718	0.3460	0.410	6.62	0.995	0.998	8.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1317	-----	0.0150	0.0322	0.1752	0.2366	0.2815	0.3603	-----	0.176	6.70	0.941	0.998	72		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)met	1	0	Avg	0.4024	0.4654	0.3823	0.3837	0.3935	0.3964	0.3966	0.4601	-----	0.410	6.69	0.989	0.996	8.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dichlorophenol	1	0	Avg	0.3492	0.3624	0.3062	0.3186	0.3380	0.3477	0.3519	0.4112	0.2947	0.342	6.78	0.988	0.996	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1.2.4-Trichlorobenzene	1	0	Avg	0.3762	0.4311	0.3437	0.3514	0.3741	0.3789	0.3795	0.4415	-----	0.385	6.85	0.988	0.996	9.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.1624	1.3483	1.1014	1.0990	1.1605	1.1545	1.1552	1.3442	1.1344	1.18	6.91	0.990	0.996	8.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4835	0.4474	0.4393	0.4628	0.4532	0.4322	0.4099	0.4509	0.3706	0.439	6.94	0.997	0.998	7.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.2236	0.2510	0.2031	0.2091	0.2232	0.2329	0.2356	0.2748	-----	0.232	7.00	0.987	0.996	9.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1378	0.1456	0.1217	0.1265	0.1359	0.1516	0.1537	0.1274	-----	0.138	7.22	0.992	0.992	8.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphen	1	0	Avg	0.3663	0.3757	0.3216	0.3287	0.3579	0.3652	0.3697	0.4323	-----	0.365	7.31	0.987	0.996	9.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.8130	0.8779	0.7413	0.7493	0.8091	0.8263	0.8211	0.9700	-----	0.826	7.45	0.986	0.995	8.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	1.6144	1.7235	1.4819	1.4942	1.5981	1.6380	1.6286	1.9215	-----	1.64	7.45	0.987	0.995	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.1'-Biphenyl	1	0	Avg	1.0100	1.1113	0.9161	0.9428	0.9981	1.0255	1.0421	1.2331	-----	1.03	7.82	0.985	0.995	9.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2.4.5-Tetrachloroben:	1	0	Avg	0.7160	0.7896	0.6557	0.6570	0.6967	0.7050	0.7149	0.8094	-----	0.718	7.58	0.991	0.997	7.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorocyclopentac	1	0	Qua	0.3264	0.1475	0.2070	0.2487	0.3427	0.3692	0.3816	0.4215	-----	0.306	7.57	0.990	0.999	31	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4.6-Trichlorophenol	1	0	Avg	0.4541	0.4767	0.4235	0.4331	0.4427	0.4479	0.4664	0.5272	-----	0.459	7.67	0.994	0.998	7.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.1
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form 6
Initial Calibration

Method: EPA 8270D

Instrument: GCMS_9

4052101 0763

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M56926.	CAL BNA@50PPM	05/21/14 09:18	2	9M56928.	CAL BNA@2PPM	05/21/14 10:07
3	9M56927.	CAL BNA@10PPM	05/21/14 09:44	4	9M56930.	CAL BNA@20PPM	05/21/14 10:54
5	9M56931.	CAL BNA@80PPM	05/21/14 11:18	6	9M56932.	CAL BNA@120PPM	05/21/14 11:41
7	9M56933.	CAL BNA@160PPM	05/21/14 12:05	8	9M56934.	CAL BNA@196PPM	05/21/14 12:29
9	9M56929.	CAL BNA@.5PPM	05/21/14 10:31				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
2.4.5-Trichlorophenol	1	0	Avg	0.4590	0.4842	0.3950	0.3947	0.4474	0.4557	0.4449	0.5088	-----	0.449	7.71	0.995	0.998	8.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4985	1.6852	1.4157	1.4028	1.4505	1.4434	1.4354	1.6147	-----	1.49	7.74	0.997	0.998	6.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2566	1.4516	1.1893	1.1768	1.2279	1.2238	1.2402	1.3968	-----	1.27	7.85	0.996	0.998	7.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.4-Dimethylnaphthalei	1	0	Avg	1.0208	1.1697	0.9283	0.9492	1.0008	1.0355	1.0778	1.2410	-----	1.05	8.13	0.991	0.998	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0208	1.1697	0.9283	0.9492	1.0008	1.0355	1.0778	1.2410	-----	1.05	8.13	0.991	0.998	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.9902	1.1223	0.9131	0.9187	0.9682	0.9930	1.0373	1.2004	-----	1.02	7.91	0.986	0.997	9.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4590	0.5551	0.4451	0.4504	0.4408	0.4358	0.4258	0.4808	-----	0.462	7.92	0.993	0.996	8.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.5477	0.6344	0.5160	0.5166	0.5422	0.5492	0.5776	0.6746	-----	0.570	8.11	0.990	0.997	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.9918	2.2866	1.8410	1.8480	1.9448	1.9414	1.9520	2.2065	-----	2.00	8.21	0.996	0.998	8.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.5205	1.7006	1.3963	1.4228	1.5012	1.4966	1.5259	1.7534	-----	1.54	8.07	0.989	0.996	8.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.6-Dinitrotoluene	1	0	Avg	0.3591	0.3566	0.3126	0.3249	0.3588	0.3710	0.3929	0.4538	-----	0.366	8.13	0.989	0.998	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.3511	1.5261	1.2245	1.2207	1.3453	1.3435	1.3710	1.5514	-----	1.37	8.36	0.991	0.997	8.8	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3871	0.3994	0.3404	0.3584	0.3699	0.3452	0.3340	0.3775	-----	0.364	8.28	0.993	0.994	6.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dinitrophenol	1	0	Qua	0.2096	-----	0.1063	0.1490	0.2208	0.2337	0.2424	0.2807	-----	0.206	8.37	0.991	0.998	29	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.8662	2.0749	1.6814	1.7324	1.8233	1.8251	1.8324	2.0930	1.7360	1.85	8.52	0.992	0.997	7.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2.4-Dinitrotoluene	1	0	Avg	0.4738	0.4487	0.4167	0.4313	0.4805	0.4812	0.4928	0.5674	-----	0.474	8.49	0.989	0.996	9.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.3076	0.2905	0.2677	0.2684	0.2862	0.2863	0.3048	0.3343	-----	0.293	8.41	0.995	0.998	7.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.3.4.6-Tetrachlorophe	1	0	Avg	0.4125	0.3885	0.3580	0.3668	0.4010	0.4127	0.4217	0.4872	-----	0.406	8.63	0.992	0.998	9.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.5994	1.7392	1.4332	1.4790	1.5828	1.5822	1.5877	1.8213	-----	1.60	8.84	0.990	0.996	7.9	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.8094	0.8298	0.6929	0.7211	0.8091	0.8313	0.8593	1.0036	-----	0.820	8.83	0.986	0.996	11	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.5294	1.7118	1.4004	1.4399	1.5177	1.5259	1.5455	1.7941	-----	1.56	8.71	0.988	0.996	8.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.4338	0.4272	0.3860	0.3979	0.4268	0.4092	0.4001	0.4623	-----	0.418	8.84	0.991	0.994	5.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4555	0.4879	0.4055	0.4270	0.4545	0.4545	0.4507	0.5295	-----	0.458	9.47	0.993	0.998	8.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4.6-Dinitro-2-methylphe	1	0	Qua	0.1482	-----	0.0984	0.1243	0.1451	0.1505	0.1551	0.1765	-----	0.143	8.88	0.994	0.998	17	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamine	1	0	Avg	0.6992	0.7592	0.6406	0.6679	0.6791	0.6986	0.7088	0.7993	-----	0.707	8.94	0.995	0.998	7.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4.6-Tribromophenol	1	0	Avg	0.1383	0.1383	0.1252	0.1270	0.1393	0.1428	0.1512	0.1753	-----	0.142	9.07	0.989	0.998	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2-Diphenylhydrazine	1	0	Avg	0.7380	0.8652	0.7243	0.7504	0.7200	0.7237	0.7176	0.8858	-----	0.766	8.98	0.989	0.994	9.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2585	0.2764	0.2307	0.2475	0.2608	0.2697	0.2767	0.3200	-----	0.268	9.32	0.987	0.997	9.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2899	0.3129	0.2581	0.2780	0.2883	0.3008	0.3069	0.3528	-----	0.299	9.39	0.990	0.998	9.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3583	0.4025	0.3337	0.3618	0.3531	0.3483	0.3495	0.3887	-----	0.362	9.66	0.994	0.997	6.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1707	-----	0.1110	0.1329	0.1764	0.1857	0.1947	0.2286	-----	0.171	9.59	0.989	0.997	23	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1570	1.3131	1.0719	1.0998	1.1441	1.1697	1.1924	1.3470	-----	1.19	9.82	0.991	0.998	8.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1882	1.3026	1.0941	1.1370	1.1662	1.1699	1.1959	1.3765	-----	1.20	9.88	0.989	0.996	7.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.1359	1.2588	1.0463	1.0975	1.1313	1.1467	1.1621	1.3279	-----	1.16	10.04	0.990	0.997	7.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.4335	1.4772	1.2616	1.3662	1.4392	1.4758	1.4860	1.7248	1.1790	1.43	10.42	0.993	0.998	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.4162	1.4644	1.2541	1.3455	1.4370	1.4535	1.4623	1.6956	-----	1.44	11.15	0.989	0.996	8.7	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2655	1.3389	1.1232	1.1279	1.2149	1.2368	1.2570	1.4132	-----	1.25	11.42	0.992	0.997	7.9	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.5655	0.4082	0.5198	0.5729	0.4384	0.3766	0.3354	-----	-----	0.460	11.30	0.956	0.996	20		50.00	2.00	10.00	20.00	80.00	120.0	160.0		
Terphenyl-d14	1	0	Avg	0.8971	0.9640	0.8132	0.8162	0.8659	0.8722	0.8897	1.0279	-----	0.893	11.60	0.993	0.997	8.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	
4.4'-DDE	1	0	Avg	0.2932	0.3155	0.2514	0.2557	0.2901	0.3014	0.3113	0.3565	-----	0.297	11.53	0.989	0.997	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4.4'-DDD	1	0	Avg	0.4674	0.4483	0.3920	0.4159	0.4625	0.4835	0.4977	0.5702	-----	0.467	11.93	0.991	0.998	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.1
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

4052101 0764

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M56926.	CAL BNA@50PPM	05/21/14 09:18	2	9M56928.	CAL BNA@2PPM	05/21/14 10:07
3	9M56927.	CAL BNA@10PPM	05/21/14 09:44	4	9M56930.	CAL BNA@20PPM	05/21/14 10:54
5	9M56931.	CAL BNA@80PPM	05/21/14 11:18	6	9M56932.	CAL BNA@120PPM	05/21/14 11:41
7	9M56933.	CAL BNA@160PPM	05/21/14 12:05	8	9M56934.	CAL BNA@196PPM	05/21/14 12:29
9	9M56929.	CAL BNA@.5PPM	05/21/14 10:31				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Butylbenzylphthalate	1	0	Avg	0.5823	0.5954	0.5081	0.5176	0.5743	0.5806	0.5969	0.6804	-----	0.579	12.19	0.993	0.998	9.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4513	-----	0.3537	0.3771	0.4701	0.4947	0.5113	0.5754	-----	0.462	12.29	0.993	0.999	17		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4414	0.4409	0.4019	0.4186	0.4156	0.4051	0.4082	0.4539	-----	0.423	12.81	0.994	0.997	4.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2113	1.4196	1.1037	1.1481	1.2167	1.2046	1.2173	1.3955	-----	1.24	12.84	0.990	0.996	9.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1419	1.1773	1.0018	0.9949	1.1392	1.1928	1.2042	1.3383	-----	1.15	12.88	0.993	0.998	9.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8039	0.8373	0.6919	0.7086	0.8011	0.8278	0.8389	0.9608	-----	0.809	12.88	0.990	0.997	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.4201	1.5216	1.2651	1.2599	1.4308	1.4909	1.5537	1.8175	-----	1.47	13.63	0.988	0.998	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.3489	1.2956	1.0728	1.1185	1.2803	1.3025	1.3676	1.6500	-----	1.30	14.05	0.986	0.996	13	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.2605	1.2616	1.0523	1.1210	1.2061	1.2662	1.2921	1.5105	-----	1.25	14.08	0.986	0.996	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1913	1.2622	1.0543	1.0822	1.1890	1.2295	1.2764	1.4716	-----	1.22	14.41	0.987	0.997	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyrene	1	0	Avg	1.3639	1.4767	1.2445	1.2197	1.3197	1.3693	1.4250	1.6178	-----	1.38	15.82	0.992	0.998	9.3	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracene	1	0	Avg	1.1418	1.2241	1.0499	1.0319	1.1067	1.1525	1.2011	1.3601	-----	1.16	15.84	0.992	0.999	9.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.1283	1.2632	1.0559	1.0301	1.0815	1.0988	1.1550	1.3016	-----	1.14	16.20	0.990	0.998	8.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.1
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM
Data File: 9M56926.D
Acq On : 05/21/14 09:18

Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA

Qt Meth : 9M_0521.M
Qt On : 05/21/14 10:05
Qt Upd On: 05/21/14 10:04

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.881	152	67386	40.00	ng	-0.06
29) Naphthalene-d8	6.892	136	260369	40.00	ng	-0.06
47) Acenaphthene-d10	8.331	164	153643	40.00	ng	-0.07
74) Phenanthrene-d10	9.796	188	298552	40.00	ng	-0.07
88) Chrysene-d12	12.850	240	331334	40.00	ng	-0.07
100) Perylene-d12	14.476	264	312049	40.00	ng	-0.07
System Monitoring Compounds						
10) 2-Fluorophenol	4.683	112	116817	51.24	ng	-0.06
Spiked Amount 100.000			Recovery = 51.24%			
15) Phenol-d5	5.566	99	152732	50.31	ng	-0.05
Spiked Amount 100.000			Recovery = 50.31%			
30) Nitrobenzene-d5	6.330	128	30746	26.59	ng	-0.06
Spiked Amount 50.000			Recovery = 53.18%			
52) 2-Fluorobiphenyl	7.737	172	143901	26.46	ng	-0.06
Spiked Amount 50.000			Recovery = 52.92%			
77) 2,4,6-Tribromophenol	9.074	330	51638	56.01	ng	-0.06
Spiked Amount 100.000			Recovery = 56.01%			
91) Terphenyl-d14	11.599	244	185782	27.22	ng	-0.07
Spiked Amount 50.000			Recovery = 54.44%			
Target Compounds						Qvalue
8) Pyridine	3.159	79	118327	49.5521	ng	59
9) N-Nitrosodimethylamine	3.084	74	67588	50.6888	ng	76
11) Benzaldehyde	5.501	77	71542	62.4205	ng	73
12) Aniline	5.598	93	171591	54.9886	ng	78
13) Pentachloroethane	5.641	117	47639	51.8646	ng	72
14) bis(2-Chloroethyl)ether	5.657	93	107470	48.2794	ng	73
16) Phenol	5.576	94	161976	50.5940	ng	94
17) 2-Chlorophenol	5.699	128	134940	52.3509	ng	76
18) N-Decane	5.747	57	84994	52.7380	ng	85
19) 1,3-Dichlorobenzene	5.833	146	142723	51.0397	ng	97
20) 1,4-Dichlorobenzene	5.897	146	143509	51.7787	ng	98
21) 1,2-Dichlorobenzene	6.020	146	135314	52.0380	ng	98
22) Benzyl alcohol	5.994	108	79317	50.1782	ng	78
23) bis(2-chloroisopropyl)...	6.106	45	98746	54.3960	ng	64
24) 2-Methylphenol	6.090	108	113582	50.9178	ng	98
25) Acetophenone	6.207	105	184501	53.2664	ng	72
26) Hexachloroethane	6.298	117	54667	52.5112	ng	90
27) N-Nitroso-di-n-propyla...	6.207	70	85957	52.2723	ng	79
28) 3&4-Methylphenol	6.213	108	122348	49.5133	ng	99
31) Nitrobenzene	6.347	77	125585	53.0907	ng	75
32) Isophorone	6.534	82	219118	52.8275	ng	78
33) 2-Nitrophenol	6.598	139	75275	56.5170	ng	86
34) 2,4-Dimethylphenol	6.625	107	135606	51.2223	ng	94
35) Benzoic Acid	6.705	105	42882	23.1095	ng	85
36) bis(2-Chloroethoxy)met...	6.694	93	130967	51.9575	ng	97
37) 2,4-Dichlorophenol	6.780	162	113663	54.2328	ng	87
38) 1,2,4-Trichlorobenzene	6.849	180	122442	53.0444	ng	96
39) Naphthalene	6.908	128	378329m	49.2007	ng	
40) 4-Chloroaniline	6.940	127	157385m	60.9381	ng	
41) Hexachlorobutadiene	6.999	225	72773	52.7638	ng	96
42) Caprolactam	7.218	113	44869	53.5180	ng	49
43) 4-Chloro-3-methylphenol	7.315	107	119221	53.5908	ng	77
44) 2-Methylnaphthalene	7.448	142	264626	53.1667	ng	97
45) Methylnaphthalenes (To...	7.448	142	525452m	52.8342	ng	
46) 1,1'-Biphenyl	7.823	154	328721	52.1877	ng	91
48) 1,2,4,5-Tetrachloroben...	7.582	216	137518	55.1830	ng	97
49) Hexachlorocyclopentadiene	7.571	237	62691	46.9213	ng	98
50) 2,4,6-Trichlorophenol	7.668	196	87211	53.7380	ng	100
51) 2,4,5-Trichlorophenol	7.705	196	88163	57.3093	ng	97
53) 2-Chloronaphthalene	7.849	162	241351	49.8832	ng	92
54) 1,4-Dimethylnaphthalene	8.133	156	196062	52.9877	ng	89
55) Dimethylnaphthalenes (...	8.133	156	196062	52.9877	ng	89
56) Diphenyl Ether	7.908	170	190185	54.7797	ng	77
57) 2-Nitroaniline	7.919	65	88153	55.6392	ng	57
58) Coumarin	8.112	146	105188	52.5274	ng	60
59) Acenaphthylene	8.208	152	382545	53.2678	ng	98
60) Dimethylphthalate	8.069	163	292030	52.5845	ng	98
61) 2,6-Dinitrotoluene	8.128	165	68977	54.7479	ng	64
62) Acenaphthene	8.363	153	259495	52.8513	ng	99
63) 3-Nitroaniline	8.277	138	74348	56.7060	ng	69
64) 2,4-Dinitrophenol	8.368	184	40256	54.7265	ng	51
65) Dibenzofuran	8.518	168	358416	50.7688	ng	87

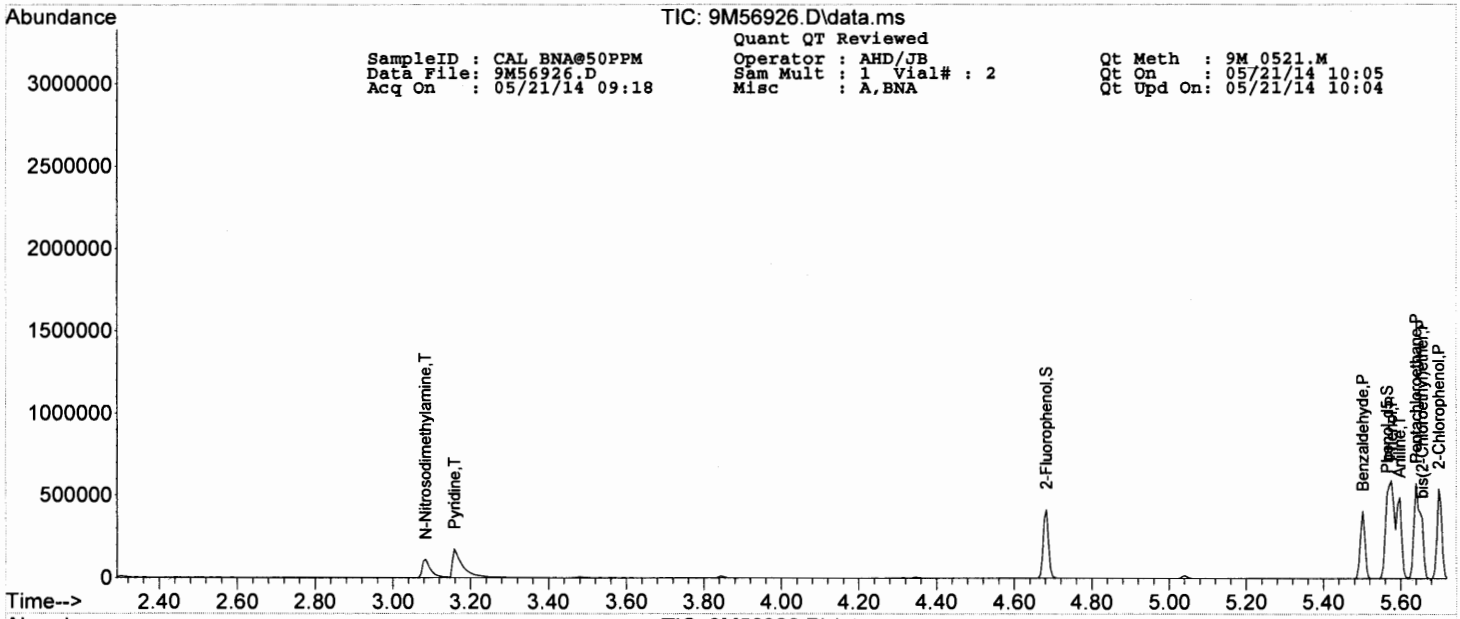
Quantitation Report (QT Reviewed)

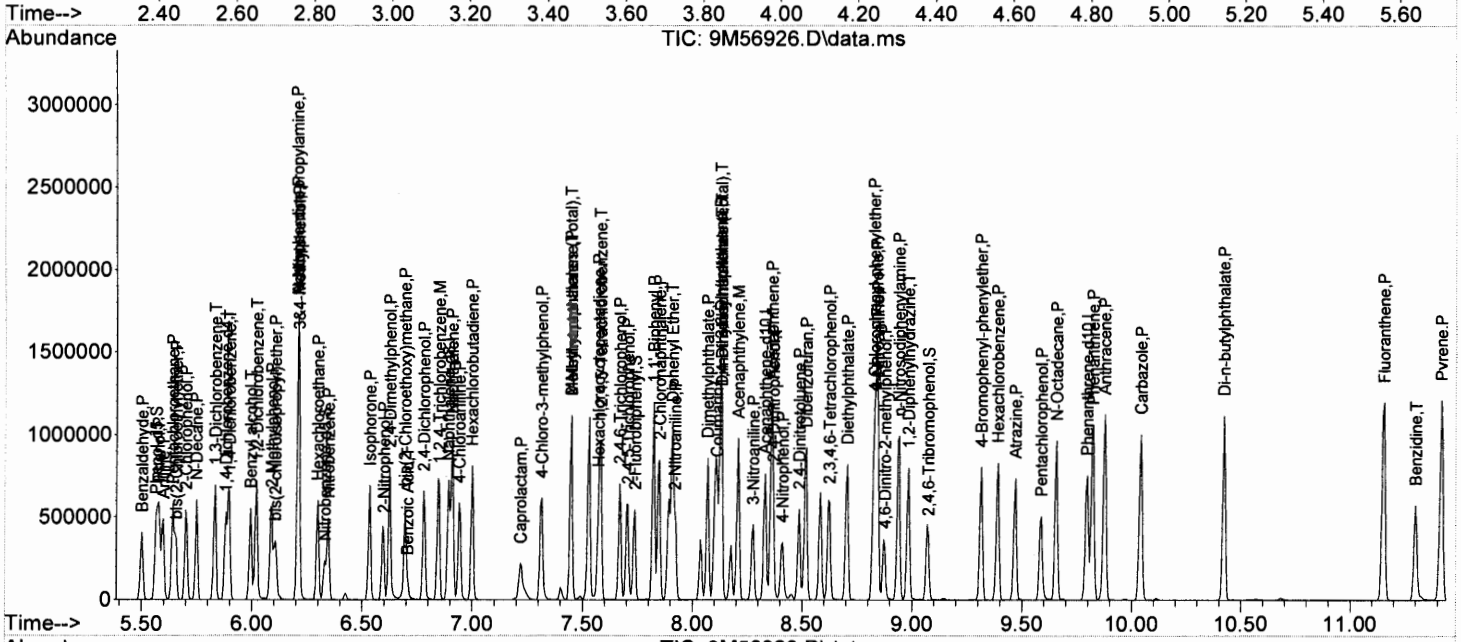
SampleID : CAL BNA@50PPM
Data File: 9M56926.D
Acq On : 05/21/14 09:18
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 9M_0521.M
Qt On : 05/21/14 10:05
Qt Upd On: 05/21/14 10:04

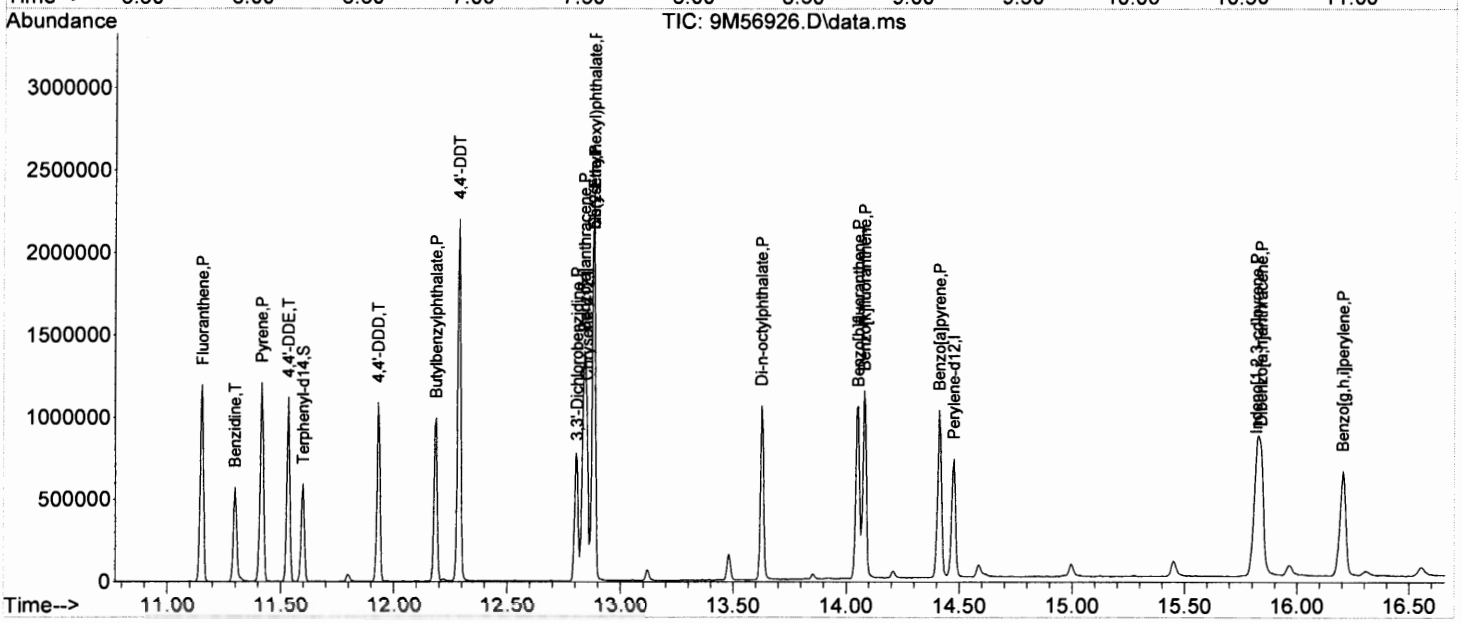
Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.486	165	91006	54.9649	ng	68
67)	4-Nitrophenol	8.411	65	59087	58.4298	ng	58
68)	2,3,4,6-Tetrachlorophenol	8.625	232	79230	53.5972	ng	83
69)	Fluorene	8.839	166	307175	53.4058	ng	98
70)	4-Chlorophenyl-phenyle...	8.828	204	155456	53.3404	ng	81
71)	Diethylphthalate	8.705	149	293743	53.1475	ng	97
72)	4-Nitroaniline	8.844	138	83315	56.8247	ng	84
73)	Atrazine	9.470	200	87480	57.4731	ng	95
75)	4,6-Dinitro-2-methylph...	8.876	198	55331	59.4016	ng	62
76)	n-Nitrosodiphenylamine	8.941	169	260955	53.0332	ng	99
78)	1,2-Diphenylhydrazine	8.983	77	275418	52.0598	ng	79
79)	4-Bromophenyl-phenylether	9.315	248	96487	53.3540	ng	84
80)	Hexachlorobenzene	9.390	284	108207	53.5476	ng	62
81)	N-Octadecane	9.657	57	133718	56.1277	ng	62
82)	Pentachlorophenol	9.588	266	63702	48.3428	ng	97
83)	Phenanthrene	9.823	178	431781	52.0856	ng	100
84)	Anthracene	9.877	178	443425	52.8199	ng	99
85)	Carbazole	10.042	167	423932	51.9445	ng	97
86)	Di-n-butylphthalate	10.422	149	534969	54.7785	ng	99
87)	Fluoranthene	11.155	202	528543	52.6608	ng	83
89)	Pyrene	11.417	202	524129	55.2096	ng	81
90)	Benzidine	11.299	184	234220	88.6432	ng	81
92)	4,4'-DDE	11.535	246	121452	55.3025	ng	89
93)	4,4'-DDD	11.931	235	193614	56.4998	ng	95
94)	Butylbenzylphthalate	12.187	149	241169	56.8294	ng	71
95)	4,4'-DDT	12.289	235	186921	59.5339	ng	99
96)	3,3'-Dichlorobenzidine	12.808	252	182828	60.3475	ng	95
97)	Benzo[a]anthracene	12.840	228	501717	52.9202	ng	100
98)	Chrysene	12.883	228	472958	52.9812	ng	99
99)	bis(2-Ethylhexyl)phtha...	12.883	149	332986	57.9746	ng	93
101)	Di-n-octylphthalate	13.626	149	553956	57.8540	ng	99
102)	Benzo[b]fluoranthene	14.054	252	526180	56.5978	ng	91
103)	Benzo[k]fluoranthene	14.081	252	491681	52.6597	ng	92
104)	Benzo[a]pyrene	14.412	252	464682	52.6867	ng	91
105)	Indeno[1,2,3-cd]pyrene	15.819	276	532026	54.3069	ng	77
106)	Dibenzo[a,h]anthracene	15.840	278	445372	54.3263	ng	85
107)	Benzo[g,h,i]perylene	16.204	276	440120	53.7175	ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M56926.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 9M56926.D
Acq On : 05/21/14 09:18
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 9M_0521.M
Qt On : 05/21/14 10:05
Qt Upd On: 05/21/14 10:04
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
TIC: 9M56926.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Hexachlorobutadiene,P
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
Benzoic Acid,P
Hexachloroethane,P
Acenaphthylene,M
3-Nitroaniline,P
4-Nitrophenol,P
2,4-Dinitrotoluene,P
Dibenzofuran,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
4,6-Dinitro-2-methylphenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 9M56926.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM
Data File: 9M56928.D
Acq On : 05/21/14 10:07

Operator : AHD/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA

Qt Meth : 9M_0521.M
Qt On : 05/21/14 10:27
Qt Upd On: 05/21/14 10:04

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.881	152	66032	40.00	ng	-0.06
29) Naphthalene-d8	6.892	136	259985	40.00	ng	-0.06
47) Acenaphthene-d10	8.325	164	154373	40.00	ng	-0.07
74) Phenanthrene-d10	9.791	188	289467	40.00	ng	-0.07
88) Chrysene-d12	12.845	240	327137	40.00	ng	-0.07
100) Perylene-d12	14.476	264	309968	40.00	ng	-0.07
System Monitoring Compounds						
10) 2-Fluorophenol	4.683	112	4668m	2.09	ng	-0.06
Spiked Amount 100.000			Recovery	=	2.09%	
15) Phenol-d5	5.565	99	6175	2.08	ng	-0.05
Spiked Amount 100.000			Recovery	=	2.08%	
30) Nitrobenzene-d5	6.325	128	1327	1.15	ng	-0.06
Spiked Amount 50.000			Recovery	=	2.30%	
52) 2-Fluorobiphenyl	7.732	172	6504	1.19	ng	-0.07
Spiked Amount 50.000			Recovery	=	2.38%	
77) 2,4,6-Tribromophenol	9.069	330	2002	2.24	ng	-0.07
Spiked Amount 100.000			Recovery	=	2.24%	
91) Terphenyl-d14	11.599	244	7884	1.17	ng	-0.07
Spiked Amount 50.000			Recovery	=	2.34%	
Target Compounds						Qvalue
8) Pyridine	3.233	79	4930	2.1069	ng	70
9) N-Nitrosodimethylamine	3.121	74	2765	2.1162	ng	94
11) Benzaldehyde	5.501	77	3828	3.4084	ng	68
12) Aniline	5.592	93	6006	1.9642	ng	90
13) Pentachloroethane	5.640	117	2185	2.4276	ng	79
14) bis(2-Chloroethyl)ether	5.651	93	4985	2.2854	ng	74
16) Phenol	5.576	94	7078	2.2562	ng	87
17) 2-Chlorophenol	5.699	128	5749	2.2761	ng	74
18) N-Decane	5.747	57	4270	2.7038	ng	84
19) 1,3-Dichlorobenzene	5.833	146	6434	2.3481	ng	97
20) 1,4-Dichlorobenzene	5.892	146	6734	2.4795	ng	99
21) 1,2-Dichlorobenzene	6.020	146	6206	2.4356	ng	96
22) Benzyl alcohol	5.993	108	3093	1.9968	ng	87
23) bis(2-chloroisopropyl)...	6.106	45	4822	2.7108	ng	58
24) 2-Methylphenol	6.084	108	5161	2.3611	ng	96
25) Acetophenone	6.207	105	8290	2.4424	ng	70
26) Hexachloroethane	6.298	117	2456	2.4075	ng	80
27) N-Nitroso-di-n-propyla...	6.202	70	3799	2.3576	ng	78
28) 3&4-Methylphenol	6.207	108	5431	2.2430	ng	96
31) Nitrobenzene	6.341	77	5696	2.4115	ng	79
32) Isophorone	6.528	82	9677	2.3365	ng	83
33) 2-Nitrophenol	6.592	139	3262	2.4527	ng	89
34) 2,4-Dimethylphenol	6.619	107	5867	2.2194	ng	93
35) Benzoic Acid	0.000		0	N.D.		
36) bis(2-Chloroethoxy)met...	6.694	93	6051	2.4041	ng	94
37) 2,4-Dichlorophenol	6.780	162	4712	2.2516	ng	85
38) 1,2,4-Trichlorobenzene	6.844	180	5605	2.4318	ng	94
39) Naphthalene	6.908	128	17527m	2.2827	ng	
40) 4-Chloroaniline	6.940	127	5817m	2.2556	ng	
41) Hexachlorobutadiene	6.999	225	3263	2.3693	ng	96
42) Caprolactam	7.186	113	1893	2.2612	ng	54
43) 4-Chloro-3-methylphenol	7.304	107	4885	2.1991	ng	89
44) 2-Methylnaphthalene	7.448	142	11413	2.2964	ng	97
45) Methylnaphthalenes (To...	7.528	142	22405m	2.2562	ng	
46) 1,1'-Biphenyl	7.817	154	14447	2.2970	ng	92
48) 1,2,4,5-Tetrachloroben...	7.577	216	6095	2.4342	ng	97
49) Hexachlorocyclopentadiene	7.571	237	1139	0.8485	ng	90
50) 2,4,6-Trichlorophenol	7.667	196	3680	2.2568	ng	94
51) 2,4,5-Trichlorophenol	7.700	196	3738	2.4184	ng	90
53) 2-Chloronaphthalene	7.844	162	11205	2.3049	ng	95
54) 1,4-Dimethylnaphthalene	8.127	156	9029	2.4286	ng	97
55) Dimethylnaphthalenes (...	8.127	156	9029	2.4286	ng	97
56) Diphenyl Ether	7.903	170	8663	2.4834	ng	84
57) 2-Nitroaniline	7.914	65	4285	2.6918	ng	78
58) Coumarin	8.101	146	4897	2.4338	ng	62
59) Acenaphthylene	8.202	152	17650	2.4461	ng	98
60) Dimethylphthalate	8.063	163	13127	2.3525	ng	97
61) 2,6-Dinitrotoluene	8.117	165	2753	2.1748	ng	69
62) Acenaphthene	8.357	153	11780	2.3879	ng	99
63) 3-Nitroaniline	8.272	138	3083	2.3403	ng	73
64) 2,4-Dinitrophenol	0.000		0	N.D.		
65) Dibenzofuran	8.513	168	16016	2.2579	ng	91

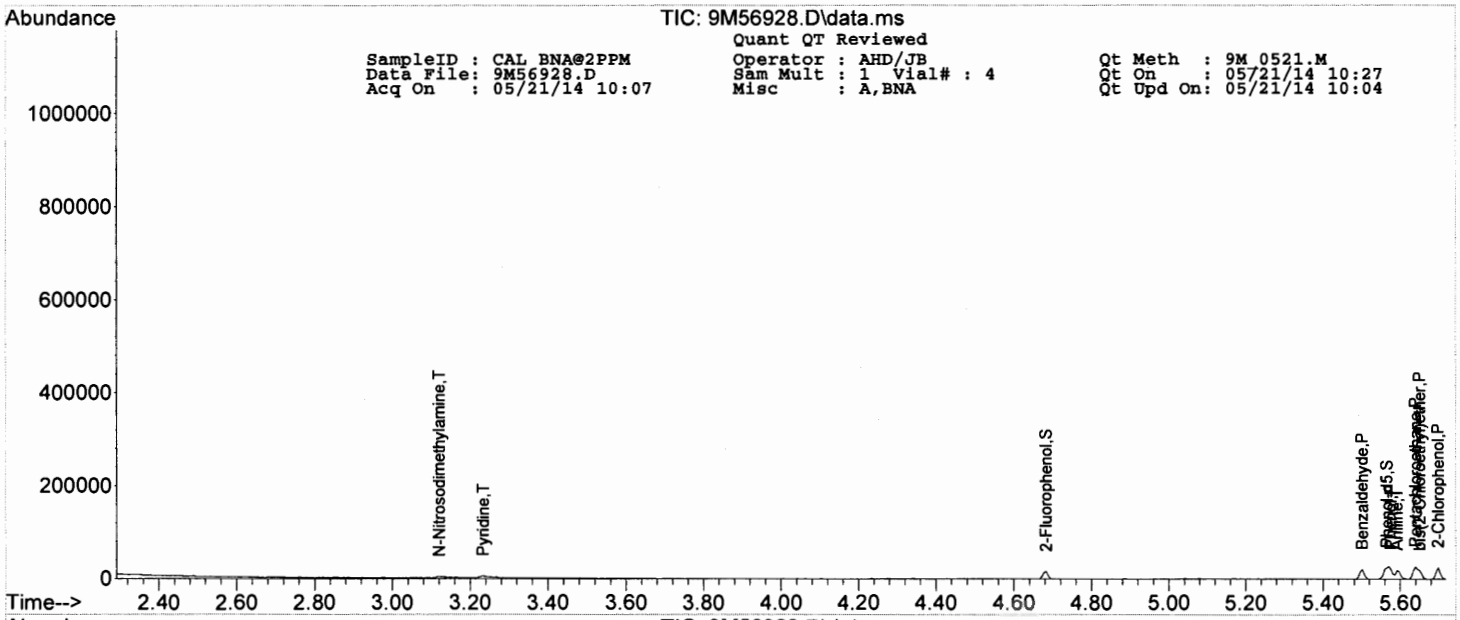
Quantitation Report (QT Reviewed)

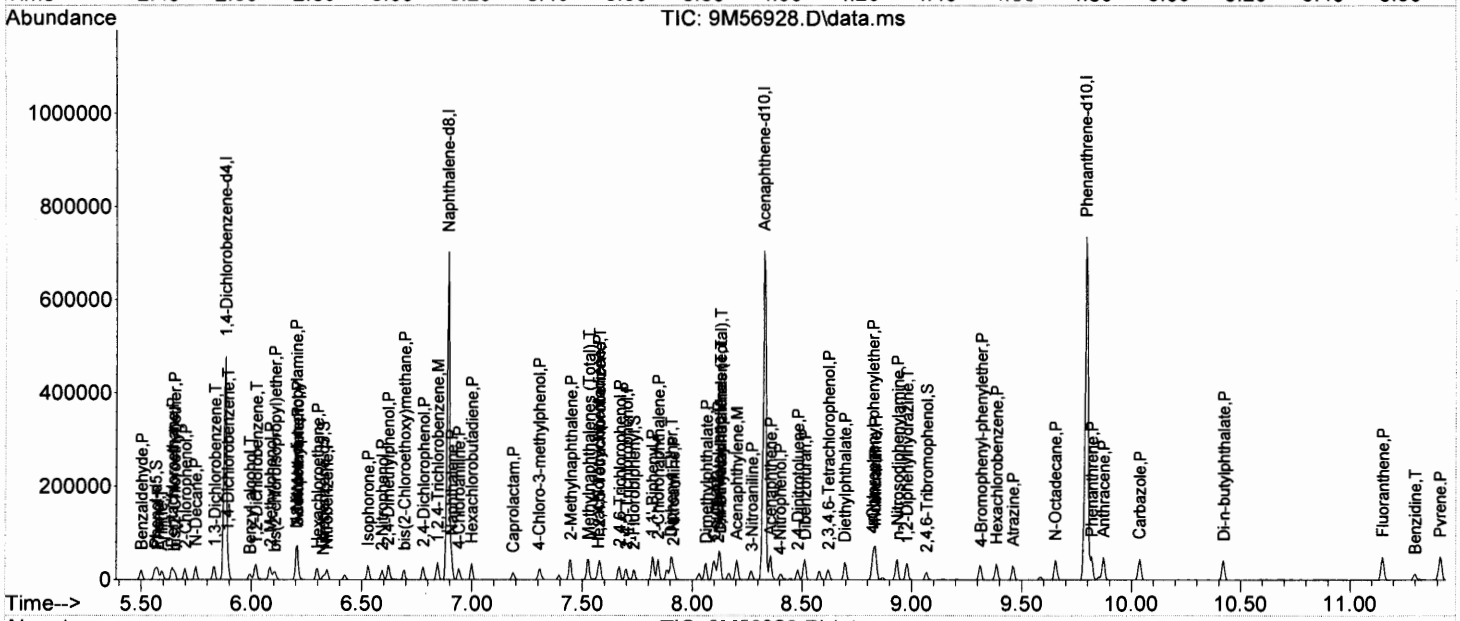
SampleID : CAL BNA@2PPM
Data File: 9M56928.D
Acq On : 05/21/14 10:07
Operator : AHD/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 9M_0521.M
Qt On : 05/21/14 10:27
Qt Upd On: 05/21/14 10:04

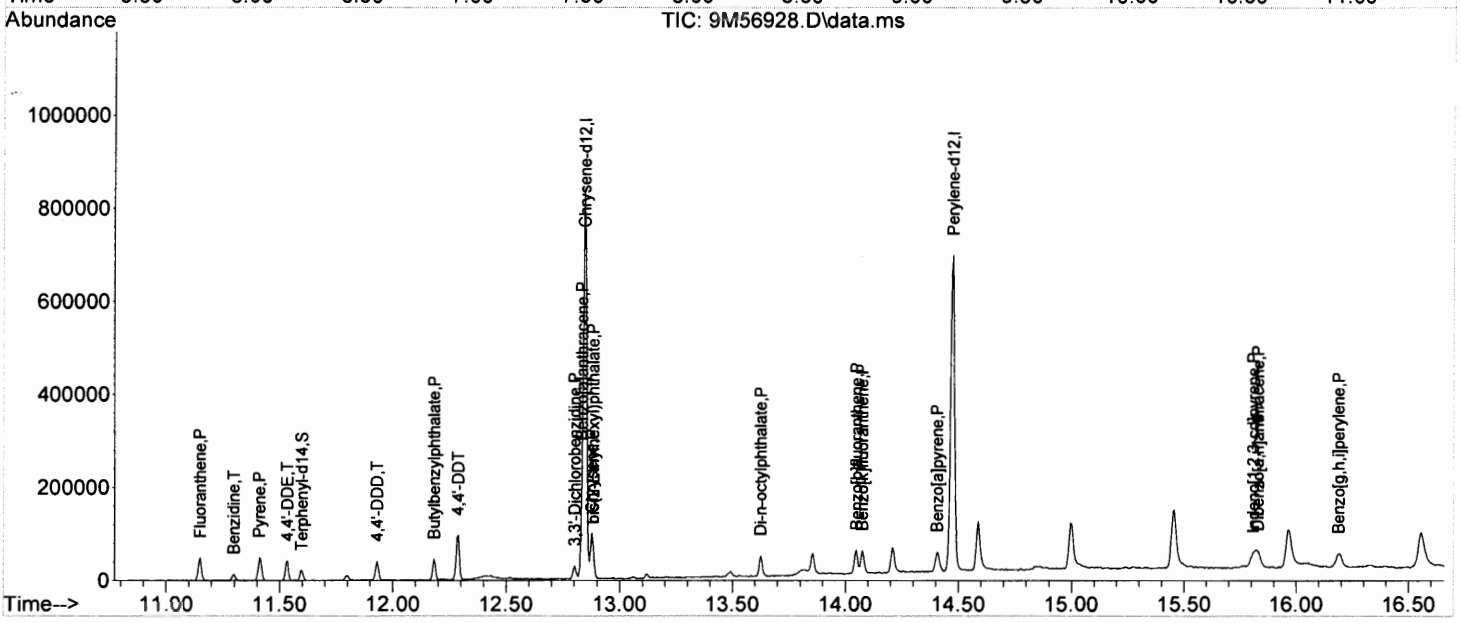
Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.480	165	3464	2.0823	ng	75
67)	4-Nitrophenol	8.400	65	2243	2.2076	ng	83
68)	2,3,4,6-Tetrachlorophenol	8.620	232	2999	2.0192	ng	82
69)	Fluorene	8.833	166	13425	2.3230	ng	99
70)	4-Chlorophenyl-phenyle...	8.823	204	6405	2.1873	ng	88
71)	Diethylphthalate	8.694	149	13213	2.3794	ng	96
72)	4-Nitroaniline	8.833	138	3298	2.2388	ng	85
73)	Atrazine	9.459	200	3766	2.4625	ng	95
75)	4,6-Dinitro-2-methylph...	0.000		0	N.D. d		
76)	n-Nitrosodiphenylamine	8.935	169	10989	2.3034	ng	96
78)	1,2-Diphenylhydrazine	8.978	77	12523	2.4414	ng	80
79)	4-Bromophenyl-phenylether	9.315	248	4001	2.2819	ng	80
80)	Hexachlorobenzene	9.384	284	4530	2.3121	ng	68
81)	N-Octadecane	9.652	57	5826	2.5222	ng	68
82)	Pentachlorophenol	0.000		0	N.D. d		
83)	Phenanthrene	9.818	178	19005	2.3645	ng	100
84)	Anthracene	9.871	178	18854	2.3163	ng	96
85)	Carbazole	10.037	167	18220	2.3026	ng	97
86)	Di-n-butylphthalate	10.422	149	21380	2.2579	ng	98
87)	Fluoranthene	11.149	202	21195	2.1780	ng	83
89)	Pyrene	11.412	202	21901	2.3366	ng	86
90)	Benzidine	11.299	184	6677	2.5594	ng	84
92)	4,4'-DDE	11.535	246	5162	2.3806	ng	88
93)	4,4'-DDD	11.930	235	7333	2.1673	ng	89
94)	Butylbenzylphthalate	12.182	149	9739	2.3244	ng	76
95)	4,4'-DDT	12.289	235	6285	2.0274	ng	94
96)	3,3'-Dichlorobenzidine	12.802	252	7213	2.4114	ng	94
97)	Benzo[a]anthracene	12.834	228	23221	2.4807	ng	98
98)	Chrysene	12.877	228	19257	2.1849	ng	97
99)	bis(2-Ethylhexyl)phtha...	12.882	149	13696	2.4151	ng	91
101)	Di-n-octylphthalate	13.626	149	23583	2.4795	ng	99
102)	Benzo[b]fluoranthene	14.048	252	20080m	2.1744	ng	
103)	Benzo[k]fluoranthene	14.075	252	19553	2.1082	ng	92
104)	Benzo[a]pyrene	14.407	252	19563	2.2330	ng	92
105)	Indeno[1,2,3-cd]pyrene	15.808	276	22887	2.3519	ng	82
106)	Dibenzo[a,h]anthracene	15.830	278	18972	2.3297	ng	85
107)	Benzo[g,h,i]perylene	16.188	276	19579	2.4057	ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M56928.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@2PPM
Data File: 9M56928.D
Acq On : 05/21/14 10:07
Operator : AHD/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 9M 0521.M
Qt On : 05/21/14 10:27
Qt Upd On: 05/21/14 10:04
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
TIC: 9M56928.D\data.ms
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Benzaldehyde,P
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene,T
Isophorone,P
2-Nitrophenol,P
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,P
Acenaphthylene,M
3-Nitroaniline,P
4-Nitrophenol,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 9M56928.D\data.ms
Chrysene-d12,I
Perylene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

4052101 0771

SampleID : CAL BNA@10PPM
Data File: 9M56927.D
Acq On : 05/21/14 09:44

Operator : AHD/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA

Qt Meth : 9M_0521.M
Qt On : 05/21/14 10:04
Qt Upd On: 05/21/14 10:04

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.881	152	69840	40.00	ng	-0.06
29) Naphthalene-d8	6.892	136	272942	40.00	ng	-0.06
47) Acenaphthene-d10	8.331	164	161940	40.00	ng	-0.07
74) Phenanthrene-d10	9.796	188	308422	40.00	ng	-0.07
88) Chrysene-d12	12.850	240	346280	40.00	ng	-0.07
100) Perylene-d12	14.476	264	324154	40.00	ng	-0.07
System Monitoring Compounds						
10) 2-Fluorophenol	4.683	112	20646	8.74	ng	-0.06
Spiked Amount 100.000			Recovery = 8.74%			
15) Phenol-d5	5.565	99	27778	8.83	ng	-0.05
Spiked Amount 100.000			Recovery = 8.83%			
30) Nitrobenzene-d5	6.330	128	6122	5.05	ng	-0.06
Spiked Amount 50.000			Recovery = 10.10%			
52) 2-Fluorobiphenyl	7.737	172	28658	5.00	ng	-0.06
Spiked Amount 50.000			Recovery = 10.00%			
77) 2,4,6-Tribromophenol	9.069	330	9658	10.14	ng	-0.07
Spiked Amount 100.000			Recovery = 10.14%			
91) Terphenyl-d14	11.599	244	35203	4.94	ng	-0.07
Spiked Amount 50.000			Recovery = 9.88%			
Target Compounds						Qvalue
8) Pyridine	3.185	79	22725	9.1822	ng	64
9) N-Nitrosodimethylamine	3.094	74	11916	8.6226	ng	81
11) Benzaldehyde	5.501	77	16710	14.0672	ng	77
12) Aniline	5.592	93	32876	10.1654	ng	79
13) Pentachloroethane	5.640	117	9495	9.9740	ng	75
14) bis(2-Chloroethyl)ether	5.651	93	21092	9.1423	ng	77
16) Phenol	5.576	94	30578	9.2156	ng	93
17) 2-Chlorophenol	5.699	128	25215	9.4386	ng	78
18) N-Decane	5.747	57	17844	10.6830	ng	84
19) 1,3-Dichlorobenzene	5.833	146	27899	9.6265	ng	96
20) 1,4-Dichlorobenzene	5.897	146	28058	9.7677	ng	99
21) 1,2-Dichlorobenzene	6.020	146	26992	10.0156	ng	95
22) Benzyl alcohol	5.993	108	15101	9.2176	ng	74
23) bis(2-chloroisopropyl)...	6.106	45	19755	10.5000	ng	63
24) 2-Methylphenol	6.084	108	22699	9.8182	ng	98
25) Acetophenone	6.207	105	34816	9.6984	ng	77
26) Hexachloroethane	6.298	117	10676	9.8947	ng	90
27) N-Nitroso-di-n-propyla...	6.207	70	16702	9.8000	ng	78
28) 3&4-Methylphenol	6.207	108	23424	9.1464	ng	95
31) Nitrobenzene	6.341	77	24956	10.0641	ng	85
32) Isophorone	6.528	82	42414	9.7546	ng	86
33) 2-Nitrophenol	6.592	139	14021	10.0421	ng	95
34) 2,4-Dimethylphenol	6.625	107	26701	9.6211	ng	98
35) Benzoic Acid	6.667	105	1030	0.5295	ng	79
36) bis(2-Chloroethoxy)met...	6.694	93	26091	9.8741	ng	94
37) 2,4-Dichlorophenol	6.780	162	20899	9.5123	ng	86
38) 1,2,4-Trichlorobenzene	6.844	180	23456	9.6935	ng	98
39) Naphthalene	6.908	128	75161m	9.3242	ng	
40) 4-Chloroaniline	6.940	127	29979m	11.0729	ng	
41) Hexachlorobutadiene	6.999	225	13861	9.5869	ng	95
42) Caprolactam	7.191	113	8306	9.4507	ng	53
43) 4-Chloro-3-methylphenol	7.309	107	21947	9.4109	ng	81
44) 2-Methylnaphthalene	7.448	142	50585	9.6950	ng	97
45) Methylnaphthalenes (To...	7.528	142	101122m	9.6994	ng	
46) 1,1'-Biphenyl	7.823	154	62513	9.4674	ng	89
48) 1,2,4,5-Tetrachloroben...	7.582	216	26546	10.1066	ng	97
49) Hexachlorocyclopentadiene	7.571	237	8384	5.9535	ng	97
50) 2,4,6-Trichlorophenol	7.667	196	17147	10.0244	ng	98
51) 2,4,5-Trichlorophenol	7.700	196	15993	9.8634	ng	96
53) 2-Chloronaphthalene	7.844	162	48150	9.4419	ng	96
54) 1,4-Dimethylnaphthalene	8.127	156	37585	9.6373	ng	96
55) Dimethylnaphthalenes (...	8.127	156	37585	9.6373	ng	96
56) Diphenyl Ether	7.908	170	36968	10.1025	ng	81
57) 2-Nitroaniline	7.919	65	18023	10.7927	ng	48
58) Coumarin	8.106	146	20892	9.8982	ng	58
59) Acenaphthylene	8.202	152	74535	9.8469	ng	97
60) Dimethylphthalate	8.063	163	56531	9.6577	ng	96
61) 2,6-Dinitrotoluene	8.122	165	12659	9.5328	ng	70
62) Acenaphthene	8.357	153	49576	9.5798	ng	93
63) 3-Nitroaniline	8.272	138	13784	9.9746	ng	72
64) 2,4-Dinitrophenol	8.368	184	4306	5.5539	ng	52
65) Dibenzofuran	8.513	168	68072	9.1482	ng	92

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM
Data File: 9M56927.D
Acq On : 05/21/14 09:44

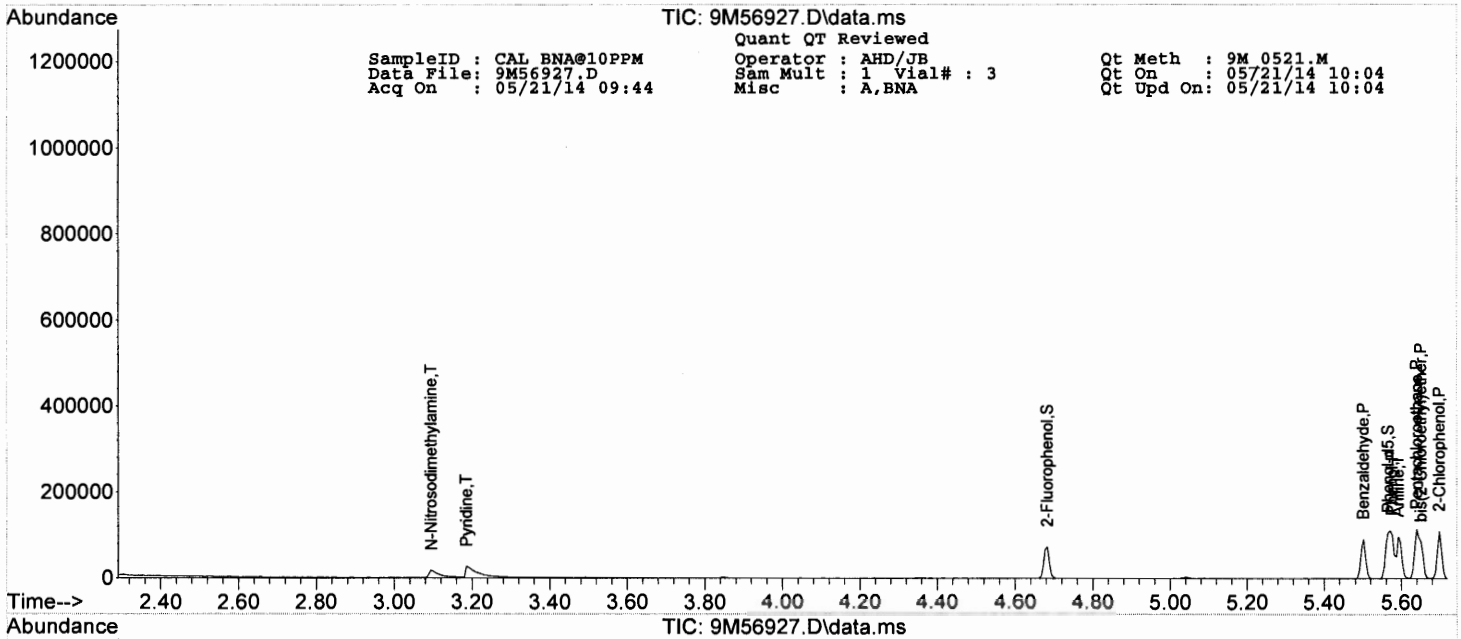
Operator : AHD/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA

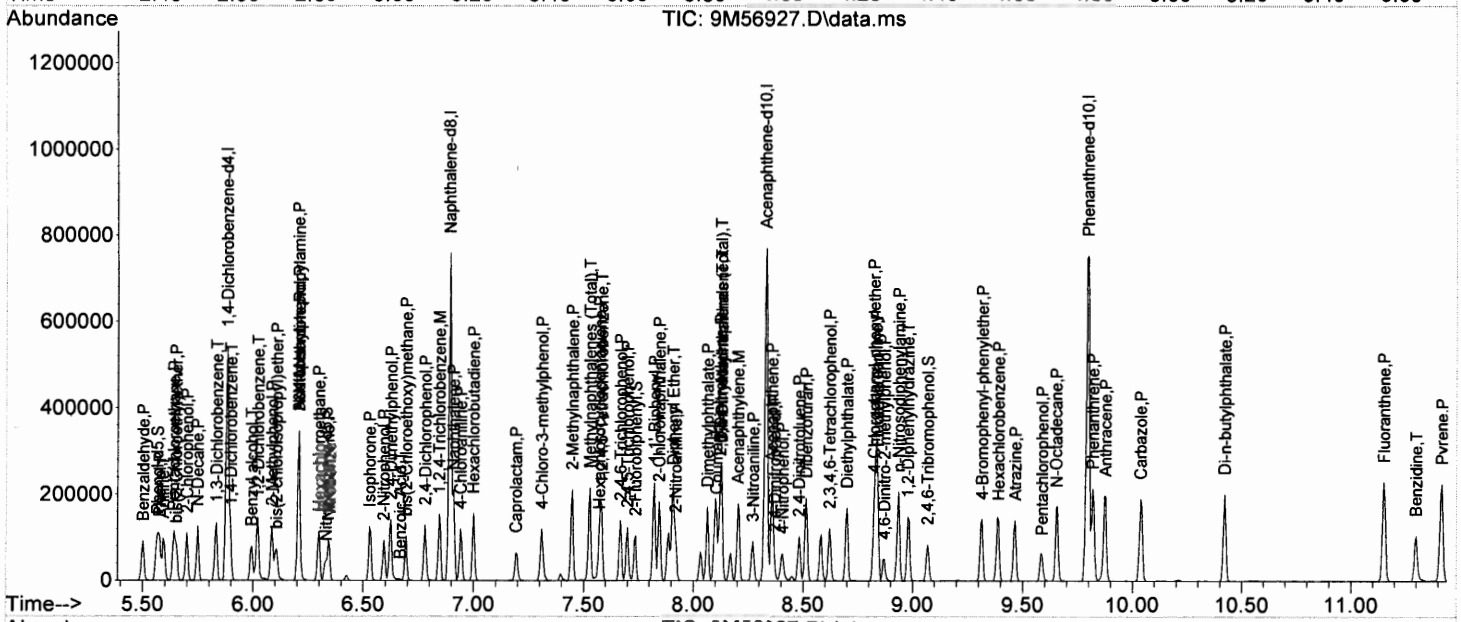
Qt Meth : 9M_0521.M
Qt On : 05/21/14 10:04
Qt Upd On: 05/21/14 10:04

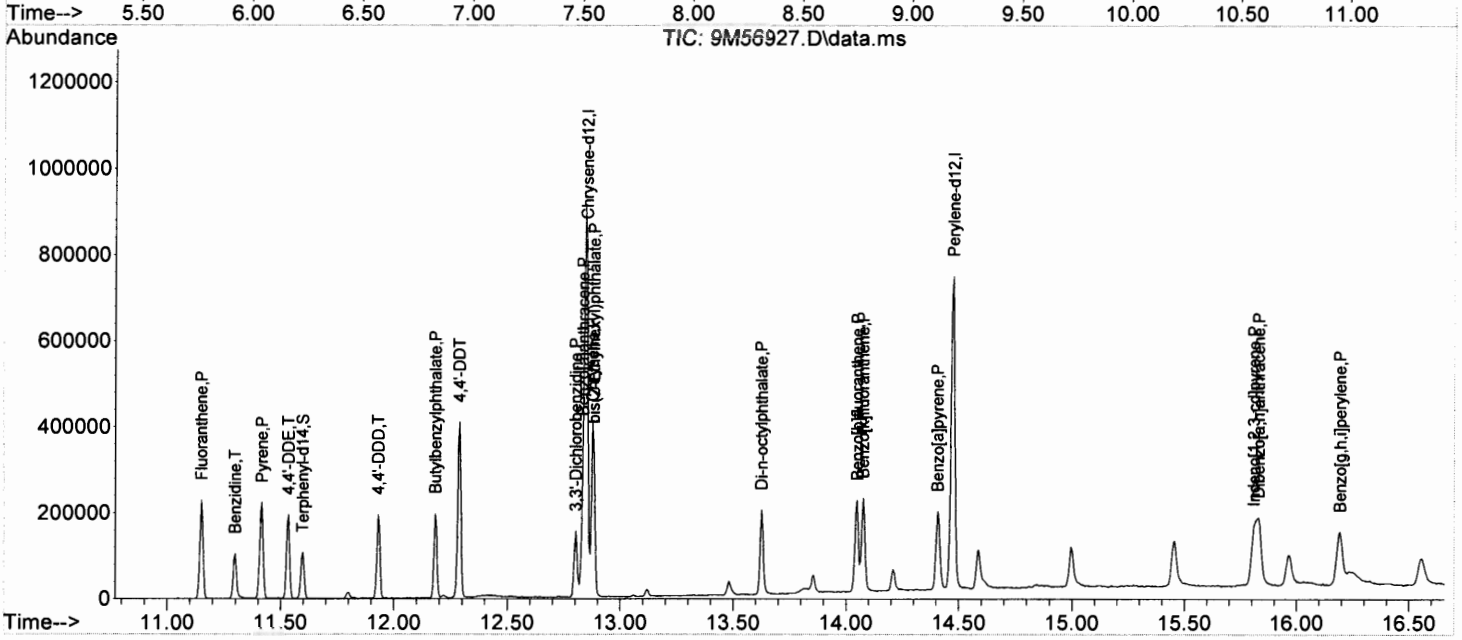
Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.480	165	16871	9.6675	ng	72
67)	4-Nitrophenol	8.406	65	10839	10.1693	ng	63
68)	2,3,4,6-Tetrachlorophenol	8.620	232	14496	9.3038	ng	83
69)	Fluorene	8.839	166	58026	9.5716	ng	99
70)	4-Chlorophenyl-phenyle...	8.823	204	28055	9.1331	ng	88
71)	Diethylphthalate	8.700	149	56695	9.7324	ng	96
72)	4-Nitroaniline	8.833	138	15629	10.1135	ng	89
73)	Atrazine	9.465	200	16419	10.2344	ng	92
75)	4,6-Dinitro-2-methylph...	8.871	198	7590	7.8876	ng	48
76)	n-Nitrosodiphenylamine	8.935	169	49394	9.7170	ng	95
78)	1,2-Diphenylhydrazine	8.978	77	55850	10.2190	ng	86
79)	4-Bromophenyl-phenylether	9.315	248	17790	9.5225	ng	83
80)	Hexachlorobenzene	9.390	284	19904	9.5345	ng	60
81)	N-Octadecane	9.652	57	25733	10.4557	ng	65
82)	Pentachlorophenol	9.588	266	8559	6.2875	ng	99
83)	Phenanthrene	9.818	178	82652	9.6512	ng	99
84)	Anthracene	9.876	178	84361	9.7273	ng	99
85)	Carbazole	10.037	167	80682	9.5696	ng	96
86)	Di-n-butylphthalate	10.422	149	97278	9.6421	ng	98
87)	Fluoranthene	11.149	202	96699	9.3262	ng	84
89)	Pyrene	11.417	202	97243	9.8011	ng	82
90)	Benzidine	11.299	184	45003	16.2968	ng	80
92)	4,4'-DDE	11.535	246	21765	9.4828	ng	89
93)	4,4'-DDD	11.930	235	33936	9.4757	ng	93
94)	Butylbenzylphthalate	12.182	149	43991	9.9187	ng	75
95)	4,4'-DDT	12.289	235	30627	9.3336	ng	96
96)	3,3'-Dichlorobenzidine	12.802	252	34796	10.9897	ng	92
97)	Benzo[a]anthracene	12.834	228	95548	9.6432	ng	98
98)	Chrysene	12.877	228	86729	9.2961	ng	99
99)	bis(2-Ethylhexyl)phtha...	12.882	149	59906	9.9798	ng	94
101)	Di-n-octylphthalate	13.626	149	102525	10.3076	ng	99
102)	Benzo[b]fluoranthene	14.048	252	86945	9.0029	ng	91
103)	Benzo[k]fluoranthene	14.075	252	85282	8.7927	ng	91
104)	Benzo[a]pyrene	14.407	252	85444	9.3261	ng	90
105)	Indeno[1,2,3-cd]pyrene	15.808	276	100855	9.9104	ng	73
106)	Dibenzo[a,h]anthracene	15.829	278	85084	9.9909	ng	84
107)	Benzo[g,h,i]perylene	16.193	276	85575	10.0546	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M56927.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 9M56927.D
Acq On : 05/21/14 09:44
Operator : AHD/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 9M_0521.M
Qt On : 05/21/14 10:04
Qt Upd On: 05/21/14 10:04
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
TIC: 9M56927.D\data.ms
Benzaldehyde,P
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 9M56927.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Chrysene-d12,I
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

4052101 0774

SampleID : CAL BNA@20PPM
Data File: 9M56930.D
Acq On : 05/21/14 10:54

Operator : AHD/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA

Qt Meth : 9M_0521.M
Qt On : 05/21/14 12:43
Qt Upd On: 05/21/14 10:04

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.881	152	67597	40.00	ng	-0.06
29) Naphthalene-d8	6.892	136	267316	40.00	ng	-0.06
47) Acenaphthene-d10	8.331	164	159158	40.00	ng	-0.07
74) Phenanthrene-d10	9.791	188	296617	40.00	ng	-0.07
88) Chrysene-d12	12.845	240	354911	40.00	ng	-0.07
100) Perylene-d12	14.482	264	341867	40.00	ng	-0.07
System Monitoring Compounds						
10) 2-Fluorophenol	4.678	112	42738	18.69	ng	-0.06
Spiked Amount 100.000			Recovery = 18.69%			
15) Phenol-d5	5.566	99	55550	18.24	ng	-0.05
Spiked Amount 100.000			Recovery = 18.24%			
30) Nitrobenzene-d5	6.330	128	11880	10.01	ng	-0.06
Spiked Amount 50.000			Recovery = 20.02%			
52) 2-Fluorobiphenyl	7.732	172	55817	9.91	ng	-0.07
Spiked Amount 50.000			Recovery = 19.82%			
77) 2,4,6-Tribromophenol	9.069	330	18835	20.56	ng	-0.07
Spiked Amount 100.000			Recovery = 20.56%			
91) Terphenyl-d14	11.599	244	72426	9.91	ng	-0.07
Spiked Amount 50.000			Recovery = 19.82%			
Target Compounds						Qvalue
8) Pyridine	3.169	79	44580	18.6106	ng	63
9) N-Nitrosodimethylamine	3.089	74	24120	18.0328	ng	80
11) Benzaldehyde	5.501	77	33544	29.1758	ng	75
12) Aniline	5.592	93	67406	21.5337	ng	77
13) Pentachloroethane	5.640	117	18179	19.7297	ng	73
14) bis(2-Chloroethyl)ether	5.651	93	41416	18.5475	ng	76
16) Phenol	5.576	94	60801	18.9322	ng	91
17) 2-Chlorophenol	5.699	128	50875	19.6757	ng	74
18) N-Decane	5.747	57	35011	21.6562	ng	85
19) 1,3-Dichlorobenzene	5.833	146	55743	19.8722	ng	99
20) 1,4-Dichlorobenzene	5.892	146	56678	20.3858	ng	98
21) 1,2-Dichlorobenzene	6.020	146	52991	20.3152	ng	97
22) Benzyl alcohol	5.993	108	29017	18.2997	ng	79
23) bis(2-chloroisopropyl)...	6.106	45	40135	22.0401	ng	64
24) 2-Methylphenol	6.084	108	44768	20.0064	ng	100
25) Acetophenone	6.207	105	70584	20.3144	ng	74
26) Hexachloroethane	6.298	117	20852	19.9672	ng	91
27) N-Nitroso-di-n-propyla...	6.207	70	33527	20.3248	ng	79
28) 3&4-Methylphenol	6.207	108	46346	18.6973	ng	95
31) Nitrobenzene	6.341	77	49338	20.3154	ng	81
32) Isophorone	6.528	82	84336	19.8043	ng	83
33) 2-Nitrophenol	6.592	139	27778	20.3139	ng	91
34) 2,4-Dimethylphenol	6.619	107	52171	19.1944	ng	98
35) Benzoic Acid	6.678	105	4311	2.2629	ng	74
36) bis(2-Chloroethoxy)met...	6.694	93	51289	19.8187	ng	96
37) 2,4-Dichlorophenol	6.780	162	42590	19.7931	ng	85
38) 1,2,4-Trichlorobenzene	6.844	180	46972	19.8204	ng	97
39) Naphthalene	6.908	128	146890m	18.6062	ng	
40) 4-Chloroaniline	6.940	127	61866m	23.3315	ng	
41) Hexachlorobutadiene	6.999	225	27954	19.7412	ng	98
42) Caprolactam	7.197	113	16911	19.6466	ng	54
43) 4-Chloro-3-methylphenol	7.309	107	43944	19.2399	ng	77
44) 2-Methylnaphthalene	7.448	142	100161	19.6006	ng	98
45) Methylnaphthalenes (To...	7.448	142	199723m	19.5603	ng	
46) 1,1'-Biphenyl	7.817	154	126018	19.4867	ng	91
48) 1,2,4,5-Tetrachloroben...	7.582	216	52289	20.2554	ng	96
49) Hexachlorocyclopentadiene	7.571	237	19792	14.3001	ng	96
50) 2,4,6-Trichlorophenol	7.668	196	34466	20.5015	ng	98
51) 2,4,5-Trichlorophenol	7.700	196	31413	19.7121	ng	97
53) 2-Chloronaphthalene	7.844	162	93652	18.6856	ng	94
54) 1,4-Dimethylnaphthalene	8.128	156	75540	19.7080	ng	91
55) Dimethylnaphthalenes (...	8.128	156	75540	19.7080	ng	91
56) Diphenyl Ether	7.908	170	73112	20.3290	ng	77
57) 2-Nitroaniline	7.919	65	35846	21.8408	ng	55
58) Coumarin	8.106	146	41115	19.8200	ng	58
59) Acenaphthylene	8.202	152	147067	19.7689	ng	97
60) Dimethylphthalate	8.063	163	113229	19.6821	ng	98
61) 2,6-Dinitrotoluene	8.122	165	25860	19.8142	ng	69
62) Acenaphthene	8.357	153	97148	19.1005	ng	99
63) 3-Nitroaniline	8.272	138	28523	21.0010	ng	72
64) 2,4-Dinitrophenol	8.368	184	11859	15.5632	ng	44
65) Dibenzofuran	8.513	168	137865	18.8516	ng	90

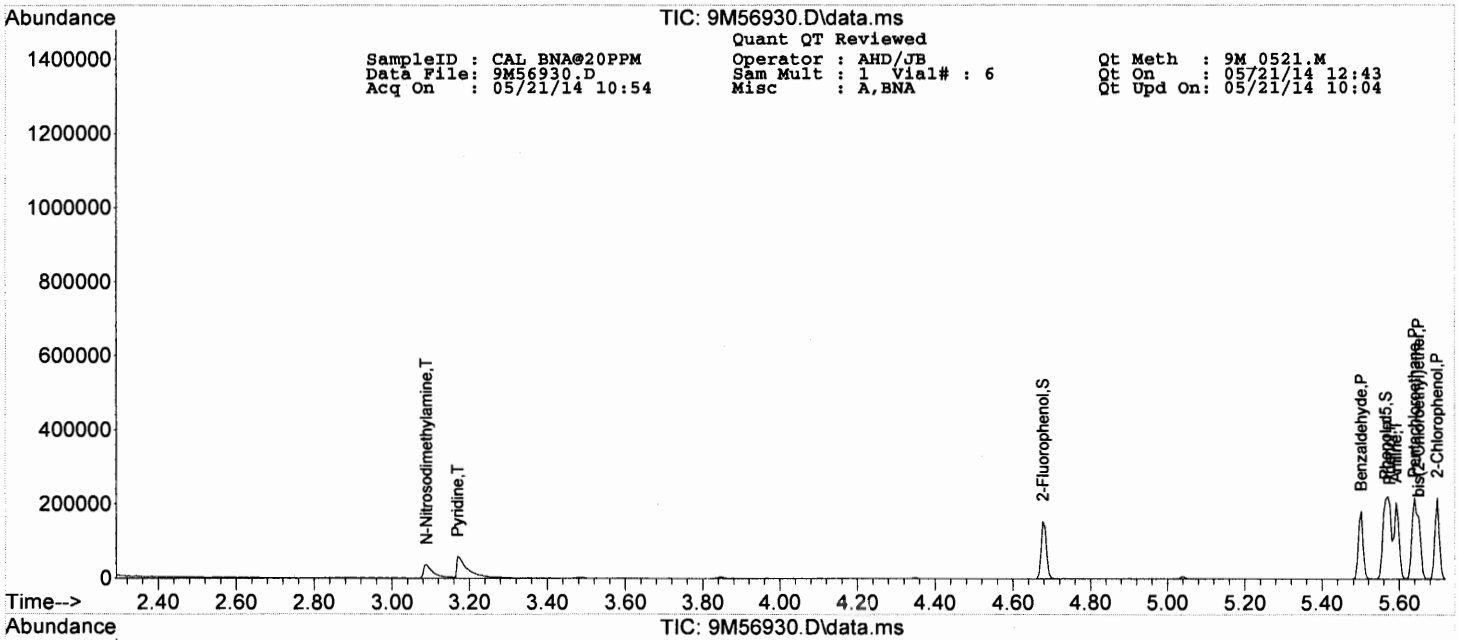
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM
Data File: 9M56930.D
Acq On : 05/21/14 10:54
Operator : AHD/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 9M_0521.M
Qt On : 05/21/14 12:43
Qt Upd On: 05/21/14 10:04

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.481	165	34323	20.0118	ng	69
67)	4-Nitrophenol	8.406	65	21363m	20.3934	ng	
68)	2,3,4,6-Tetrachlorophenol	8.620	232	29195	19.0654	ng	83
69)	Fluorene	8.839	166	117700	19.7544	ng	99
70)	4-Chlorophenyl-phenyle...	8.823	204	57389	19.0091	ng	90
71)	Diethylphthalate	8.700	149	114589	20.0144	ng	97
72)	4-Nitroaniline	8.834	138	31665	20.8486	ng	86
73)	Atrazine	9.465	200	33982	21.5521	ng	92
75)	4,6-Dinitro-2-methylph...	8.871	198	18439	19.9247	ng	62
76)	n-Nitrosodiphenylamine	8.935	169	99066	20.2642	ng	98
78)	1,2-Diphenylhydrazine	8.978	77	111301	21.1755	ng	85
79)	4-Bromophenyl-phenylether	9.315	248	36707	20.4301	ng	78
80)	Hexachlorobenzene	9.384	284	41240	20.5413	ng	68
81)	N-Octadecane	9.652	57	53669	22.6743	ng	65
82)	Pentachlorophenol	9.582	266	19710	15.0553	ng	96
83)	Phenanthrene	9.818	178	163123	19.8058	ng	99
84)	Anthracene	9.871	178	168636	20.2186	ng	98
85)	Carbazole	10.037	167	162772	20.0746	ng	98
86)	Di-n-butylphthalate	10.422	149	202623	20.8831	ng	99
87)	Fluoranthene	11.150	202	199558	20.0125	ng	86
89)	Pyrene	11.417	202	200162	19.6836	ng	80
90)	Benzidine	11.299	184	101675	35.9238	ng	80
92)	4,4'-DDE	11.535	246	45384	19.2925	ng	90
93)	4,4'-DDD	11.930	235	73816	20.1098	ng	96
94)	Butylbenzylphthalate	12.182	149	91857	20.2074	ng	78
95)	4,4'-DDT	12.289	235	66930	19.9010	ng	97
96)	3,3'-Dichlorobenzidine	12.802	252	74293	22.8934	ng	94
97)	Benzo[a]anthracene	12.834	228	203740	20.0625	ng	99
98)	Chrysene	12.877	228	176566	18.4651	ng	99
99)	bis(2-Ethylhexyl)phtha...	12.877	149	125758	20.4406	ng	95
101)	Di-n-octylphthalate	13.626	149	215370	20.5309	ng	99
102)	Benzo[b]fluoranthene	14.054	252	191191m	18.7715	ng	
103)	Benzo[k]fluoranthene	14.086	252	191628	18.7335	ng	90
104)	Benzo[a]pyrene	14.418	252	184991	19.1453	ng	89
105)	Indeno[1,2,3-cd]pyrene	15.819	276	208487	19.4252	ng	73
106)	Dibenzo[a,h]anthracene	15.840	278	176398	19.6402	ng	84
107)	Benzo[g,h,i]perylene	16.204	276	176083	19.6168	ng	71

(#) = qualifier out of range (m) = manual integration (+) = signals summed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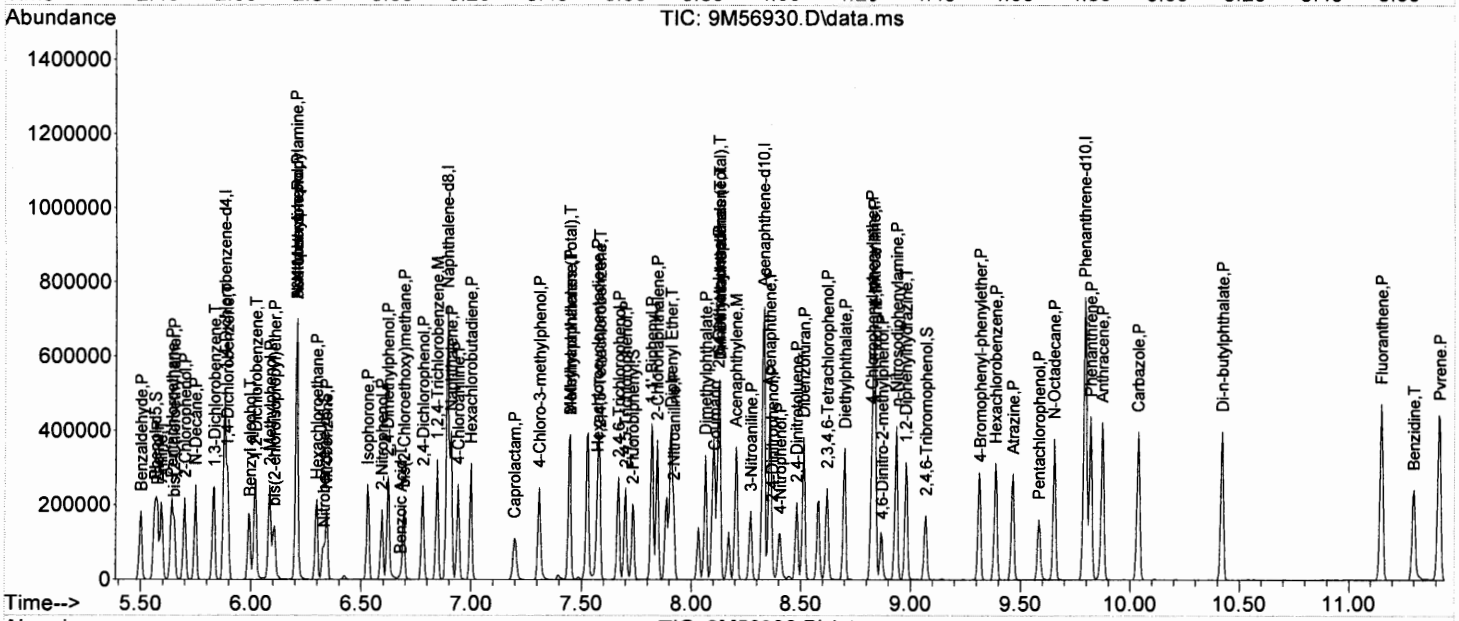
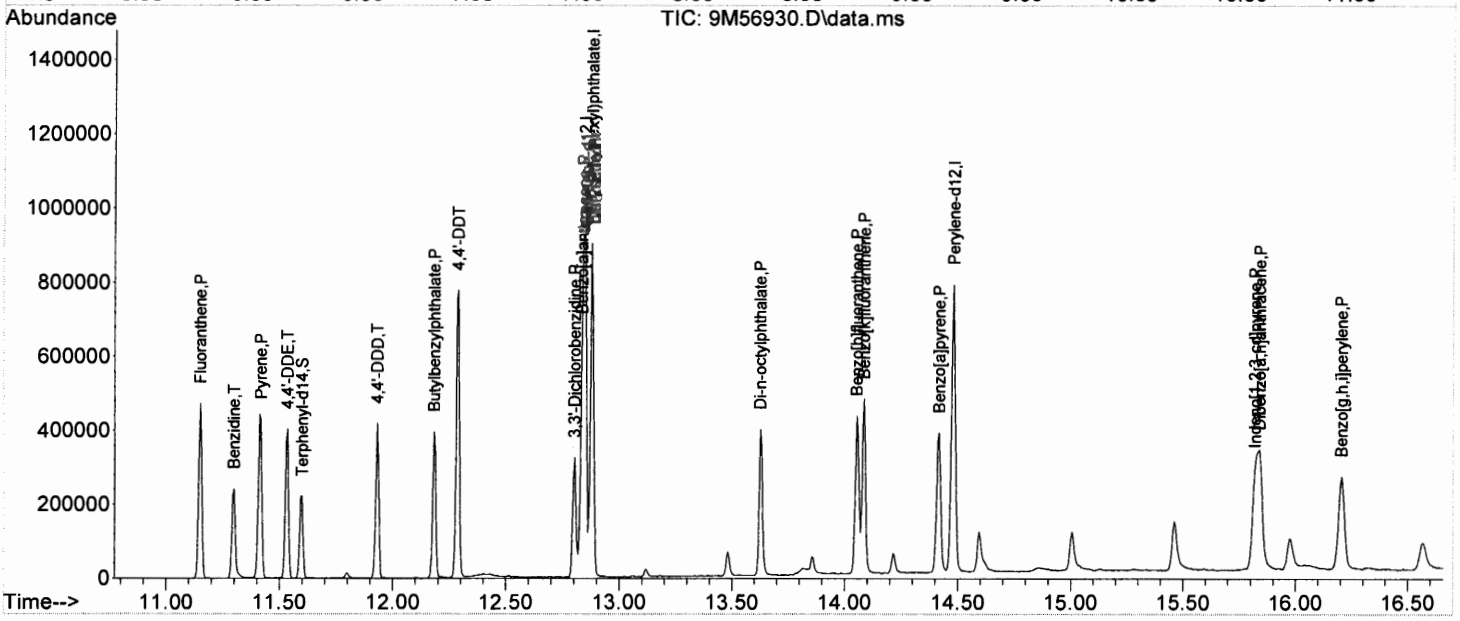
TIC: 9M56930.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 9M56930.D
Acq On : 05/21/14 10:54
Operator : AHD/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 9M_0521.M
Qt On : 05/21/14 12:43
Qt Upd On: 05/21/14 10:04
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
TIC: 9M56930.D\data.ms
Benzaldehyde,P
1,3-Dichlorobenzene,T
Benzyl alcohol,T
Hexachloroethane,P
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene-d8,I
4-Chloroaniline,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Chlorophenol,P
2-Chlorobiphenyl,P
2-Nitroaniline,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene-d10,I
2,4-Dinitrophenol,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4,6-Dinitro-2-methylphenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 9M56930.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

4052101 0777

SampleID : CAL BNA@80PPM
Data File: 9M56931.D
Acq On : 05/21/14 11:18

Operator : AHD/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA

Qt Meth : 9M_0521.M
Qt On : 05/21/14 12:43
Qt Upd On: 05/21/14 10:04

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.881	152	66041	40.00	ng	-0.06
29) Naphthalene-d8	6.892	136	255480	40.00	ng	-0.06
47) Acenaphthene-d10	8.331	164	151860	40.00	ng	-0.07
74) Phenanthrene-d10	9.796	188	297768	40.00	ng	-0.07
88) Chrysene-d12	12.850	240	340472	40.00	ng	-0.07
100) Perylene-d12	14.476	264	326010	40.00	ng	-0.07
System Monitoring Compounds						
10) 2-Fluorophenol	4.683	112	186643	83.54	ng	-0.06
Spiked Amount 100.000			Recovery = 83.54%			
15) Phenol-d5	5.565	99	239859	80.62	ng	-0.05
Spiked Amount 100.000			Recovery = 80.62%			
30) Nitrobenzene-d5	6.330	128	46049	40.59	ng	-0.06
Spiked Amount 50.000			Recovery = 81.18%			
52) 2-Fluorobiphenyl	7.737	172	220286	40.97	ng	-0.06
Spiked Amount 50.000			Recovery = 81.94%			
77) 2,4,6-Tribromophenol	9.074	330	82962	90.23	ng	-0.06
Spiked Amount 100.000			Recovery = 90.23%			
91) Terphenyl-d14	11.599	244	294847	42.04	ng	-0.07
Spiked Amount 50.000			Recovery = 84.08%			
Target Compounds						Qvalue
8) Pyridine	3.153	79	185273	79.1673	ng	59
9) N-Nitrosodimethylamine	3.084	74	104363	79.8629	ng	77
11) Benzaldehyde	5.501	77	86315	76.8438	ng	73
12) Aniline	5.597	93	259869	84.9745	ng	81
13) Pentachloroethane	5.640	117	74591	82.8611	ng	74
14) bis(2-Chloroethyl)ether	5.656	93	162602	74.5343	ng	73
16) Phenol	5.581	94	253339	80.7433	ng	93
17) 2-Chlorophenol	5.704	128	206996	81.9410	ng	72
18) N-Decane	5.747	57	131744	83.4108	ng	84
19) 1,3-Dichlorobenzene	5.833	146	222926	81.3450	ng	95
20) 1,4-Dichlorobenzene	5.897	146	220176	81.0583	ng	98
21) 1,2-Dichlorobenzene	6.020	146	208036	81.6342	ng	99
22) Benzyl alcohol	5.993	108	122575	79.1237	ng	78
23) bis(2-chloroisopropyl)...	6.106	45	149247	83.8899	ng	65
24) 2-Methylphenol	6.090	108	175071	80.0811	ng	98
25) Acetophenone	6.213	105	290696	85.6347	ng	70
26) Hexachloroethane	6.298	117	84402	82.7247	ng	89
27) N-Nitroso-di-n-propyla...	6.213	70	130829	81.1802	ng	74
28) 3&4-Methylphenol	6.213	108	191933	79.2557	ng	99
31) Nitrobenzene	6.346	77	189677	81.7198	ng	76
32) Isophorone	6.533	82	336953	82.7911	ng	80
33) 2-Nitrophenol	6.598	139	116669	89.2722	ng	87
34) 2,4-Dimethylphenol	6.624	107	208459	80.2478	ng	94
35) Benzoic Acid	6.721	105	89527	49.1702	ng	88
36) bis(2-Chloroethoxy)met...	6.694	93	201104	81.3092	ng	95
37) 2,4-Dichlorophenol	6.785	162	172742	83.9988	ng	84
38) 1,2,4-Trichlorobenzene	6.849	180	191169	84.4032	ng	96
39) Naphthalene	6.908	128	592988m	78.5923	ng	
40) 4-Chloroaniline	6.945	127	231579m	91.3813	ng	
41) Hexachlorobutadiene	6.999	225	114047	84.2717	ng	96
42) Caprolactam	7.229	113	69457	84.4311	ng	51
43) 4-Chloro-3-methylphenol	7.314	107	182897	83.7870	ng	74
44) 2-Methylnaphthalene	7.448	142	413423	84.6514	ng	98
45) Methylnaphthalenes (To...	7.448	142	816581m	83.6785	ng	
46) 1,1'-Biphenyl	7.822	154	510017	82.5197	ng	91
48) 1,2,4,5-Tetrachloroben...	7.582	216	211602	85.9083	ng	98
49) Hexachlorocyclopentadiene	7.571	237	104101	78.8295	ng	96
50) 2,4,6-Trichlorophenol	7.667	196	134481	83.8379	ng	100
51) 2,4,5-Trichlorophenol	7.705	196	135909	89.3833	ng	99
53) 2-Chloronaphthalene	7.849	162	372945	77.9865	ng	93
54) 1,4-Dimethylnaphthalene	8.133	156	303987	83.1202	ng	88
55) Dimethylnaphthalenes (...	8.133	156	303987	83.1202	ng	88
56) Diphenyl Ether	7.908	170	294069	85.6963	ng	77
57) 2-Nitroaniline	7.924	65	133900	85.5054	ng	45
58) Coumarin	8.111	146	164692	83.2073	ng	62
59) Acenaphthylene	8.208	152	590697	83.2178	ng	98
60) Dimethylphthalate	8.074	163	455953	83.0653	ng	98
61) 2,6-Dinitrotoluene	8.127	165	108978	87.5128	ng	66
62) Acenaphthene	8.363	153	408607	84.1980	ng	98
63) 3-Nitroaniline	8.277	138	112355	86.7005	ng	73
64) 2,4-Dinitrophenol	8.368	184	67082	92.2662	ng	55
65) Dibenzofuran	8.518	168	553799	79.3654	ng	89

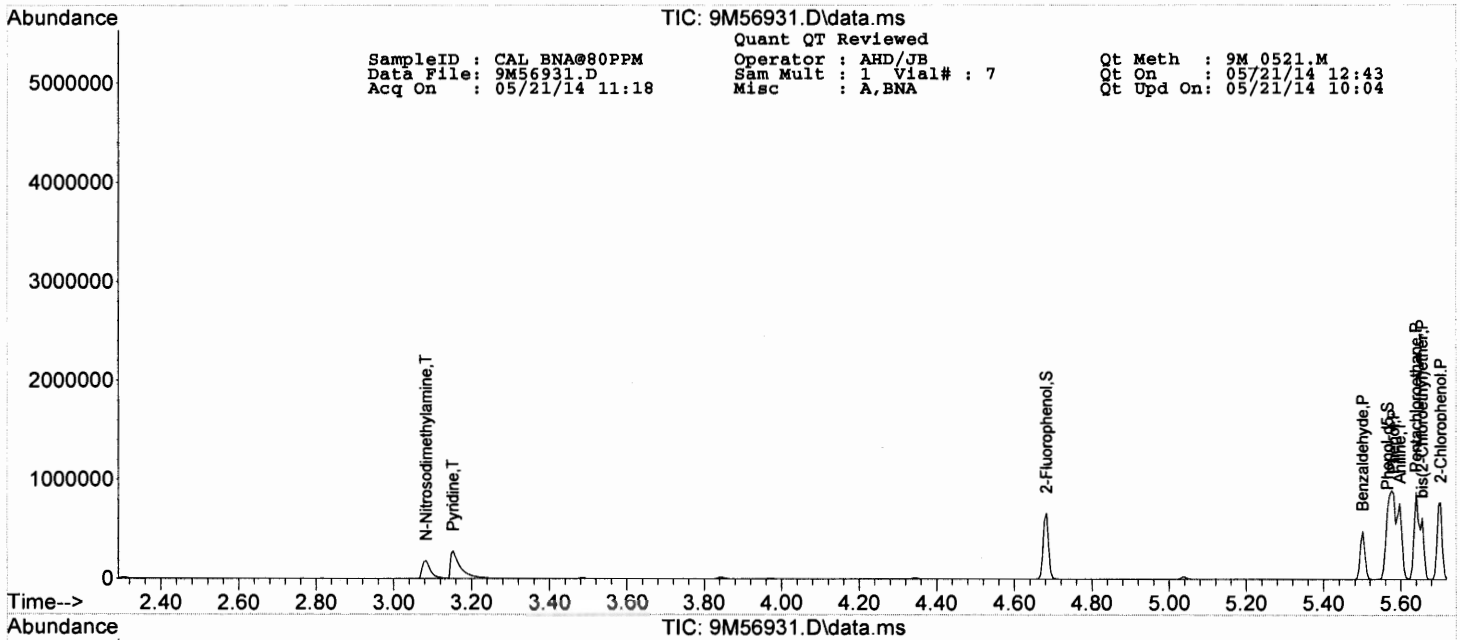
Quantitation Report (QT Reviewed)

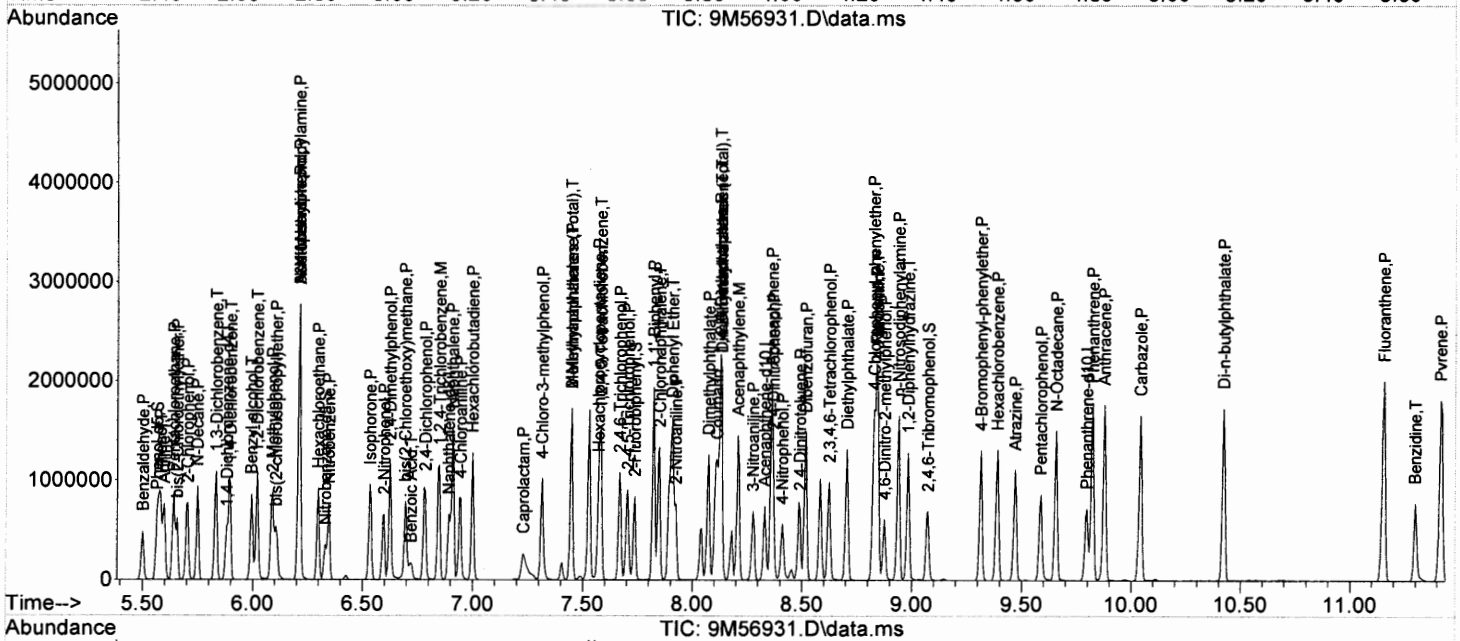
SampleID : CAL BNA@80PPM
Data File: 9M56931.D
Acq On : 05/21/14 11:18
Operator : AHD/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 9M_0521.M
Qt On : 05/21/14 12:43
Qt Upd On: 05/21/14 10:04

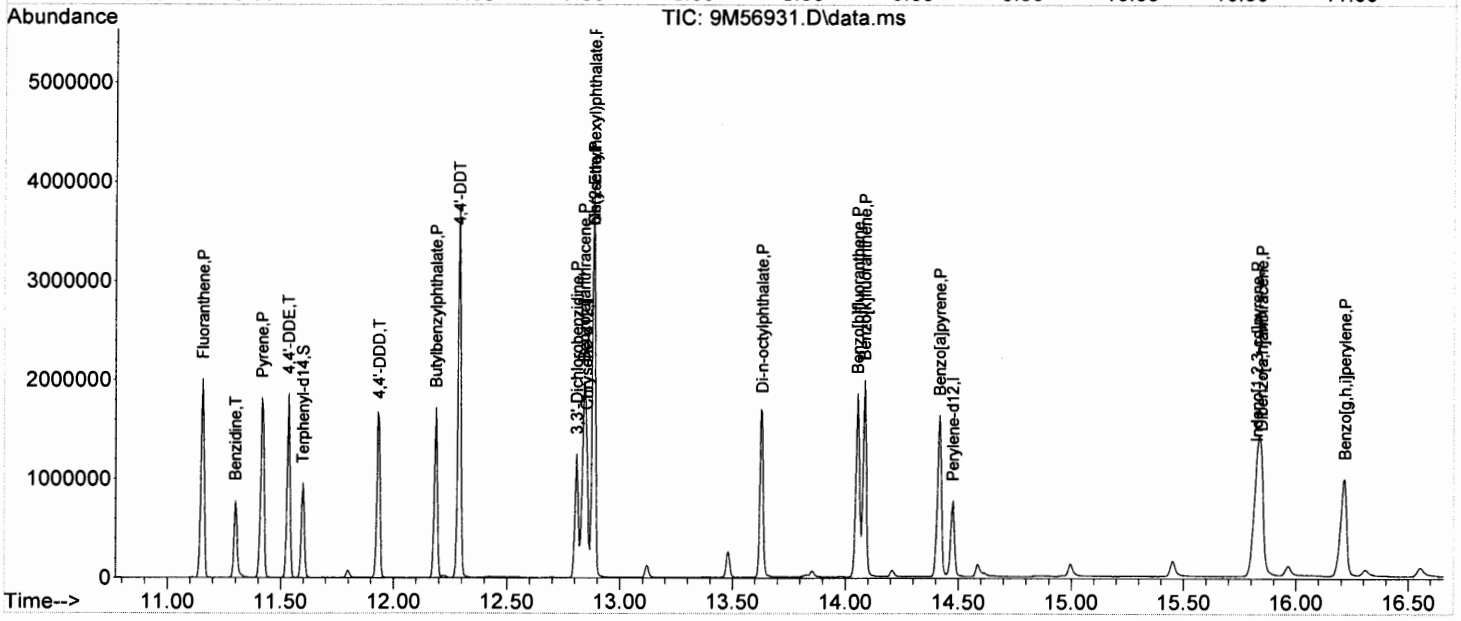
Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.491	165	145956	89.1881	ng	61
67)	4-Nitrophenol	8.411	65	86937m	86.9794	ng	
68)	2,3,4,6-Tetrachlorophenol	8.625	232	121815	83.3725	ng	84
69)	Fluorene	8.839	166	480734	84.5623	ng	100
70)	4-Chlorophenyl-phenyle...	8.828	204	245753	85.3134	ng	82
71)	Diethylphthalate	8.705	149	460955	84.3808	ng	96
72)	4-Nitroaniline	8.844	138	129628	89.4503	ng	82
73)	Atrazine	9.470	200	138041	91.7558	ng	95
75)	4,6-Dinitro-2-methylph...	8.876	198	86430	93.0328	ng	51
76)	n-Nitrosodiphenylamine	8.940	169	404436	82.4088	ng	100
78)	1,2-Diphenylhydrazine	8.983	77	428800	81.2656	ng	79
79)	4-Bromophenyl-phenylether	9.315	248	155329	86.1177	ng	81
80)	Hexachlorobenzene	9.390	284	171738	85.2105	ng	61
81)	N-Octadecane	9.657	57	210316	88.5119	ng	63
82)	Pentachlorophenol	9.588	266	105097	79.9671	ng	98
83)	Phenanthrene	9.823	178	681395	82.4128	ng	99
84)	Anthracene	9.876	178	694568	82.9534	ng	99
85)	Carbazole	10.042	167	673771	82.7748	ng	97
86)	Di-n-butylphthalate	10.422	149	857145	87.9991	ng	99
87)	Fluoranthene	11.155	202	855831	85.4943	ng	84
89)	Pyrene	11.417	202	827295	84.8050	ng	83
90)	Benzidine	11.299	184	298584	109.9696	ng	82
92)	4,4'-DDE	11.534	246	197563	87.5448	ng	89
93)	4,4'-DDD	11.936	235	314954	89.4420	ng	94
94)	Butylbenzylphthalate	12.187	149	391121	89.6907	ng	72
95)	4,4'-DDT	12.289	235	320152	99.2310	ng	99
96)	3,3'-Dichlorobenzidine	12.807	252	283033	90.9155	ng	96
97)	Benzo[a]anthracene	12.839	228	828552	85.0485	ng	99
98)	Chrysene	12.882	228	775776	84.5707	ng	99
99)	bis(2-Ethylhexyl)phtha...	12.882	149	545545	92.4330	ng	92
101)	Di-n-octylphthalate	13.631	149	932907	93.2585	ng	100
102)	Benzo[b]fluoranthene	14.054	252	834833	85.9522	ng	92
103)	Benzo[k]fluoranthene	14.086	252	786416m	80.6193	ng	
104)	Benzo[a]pyrene	14.417	252	775256	84.1361	ng	90
105)	Indeno[1,2,3-cd]pyrene	15.824	276	860482	84.0728	ng	85
106)	Dibenzo[a,h]anthracene	15.845	278	721614	84.2527	ng	84
107)	Benzo[g,h,i]perylene	16.214	276	705214	82.3868	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M56931.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@80PPM
Data File: 9M56931.D
Acq On : 05/21/14 11:18
Operator : AHD/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 9M 0521.M
Qt On : 05/21/14 12:43
Qt Upd On: 05/21/14 10:04
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
TIC: 9M56931.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Hexachlorobutadiene,P
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene,P
4-Chloroaniline,P
Acenaphthylene,M
3-Nitroaniline,P
4-Nitrophenol,P
2,4-Dinitrotoluene,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 9M56931.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

4052101 0780

SampleID : CAL BNA@120PPM Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M56932.D Sam Mult : 1 Vial# : 8 Qt On : 05/21/14 12:43
Acq On : 05/21/14 11:41 Misc : A,BNA Qt Upd On: 05/21/14 10:04

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.881	152	62966	40.00	ng	-0.06
29) Naphthalene-d8	6.892	136	243225	40.00	ng	-0.06
47) Acenaphthene-d10	8.331	164	147120	40.00	ng	-0.07
74) Phenanthrene-d10	9.796	188	284254	40.00	ng	-0.07
88) Chrysene-d12	12.856	240	324594	40.00	ng	-0.06
100) Perylene-d12	14.482	264	303625	40.00	ng	-0.07
System Monitoring Compounds						
10) 2-Fluorophenol	4.683	112	273970	128.61	ng	-0.06
Spiked Amount 100.000			Recovery = 128.61%			
15) Phenol-d5	5.571	99	352417	124.24	ng	-0.05
Spiked Amount 100.000			Recovery = 124.24%			
30) Nitrobenzene-d5	6.330	128	68944	63.84	ng	-0.06
Spiked Amount 50.000			Recovery = 127.68%			
52) 2-Fluorobiphenyl	7.737	172	318542	61.16	ng	-0.06
Spiked Amount 50.000			Recovery = 122.32%			
77) 2,4,6-Tribromophenol	9.074	330	121844	138.81	ng	-0.06
Spiked Amount 100.000			Recovery = 138.81%			
91) Terphenyl-d14	11.599	244	424683	63.51	ng	-0.07
Spiked Amount 50.000			Recovery = 127.02%			
Target Compounds						Qvalue
8) Pyridine	3.148	79	269411	120.7415	ng	61
9) N-Nitrosodimethylamine	3.084	74	155298	124.6442	ng	76
11) Benzaldehyde	5.501	77	107823	100.6796	ng	74
12) Aniline	5.598	93	370398	127.0312	ng	80
13) Pentachloroethane	5.640	117	109406	127.4715	ng	75
14) bis(2-Chloroethyl)ether	5.656	93	233620	112.3176	ng	75
16) Phenol	5.581	94	363988	121.6743	ng	96
17) 2-Chlorophenol	5.705	128	299850	124.4948	ng	73
18) N-Decane	5.747	57	186215	123.6555	ng	85
19) 1,3-Dichlorobenzene	5.833	146	320037	122.4836	ng	96
20) 1,4-Dichlorobenzene	5.897	146	323938	125.0827	ng	99
21) 1,2-Dichlorobenzene	6.020	146	301876	124.2423	ng	98
22) Benzyl alcohol	5.999	108	178617	120.9302	ng	76
23) bis(2-chloroisopropyl)...	6.106	45	210432	124.0575	ng	61
24) 2-Methylphenol	6.090	108	254259	121.9832	ng	96
25) Acetophenone	6.213	105	426359	131.7327	ng	68
26) Hexachloroethane	6.298	117	122574	126.0052	ng	89
27) N-Nitroso-di-n-propyla...	6.213	70	189254	123.1682	ng	75
28) 3&4-Methylphenol	6.213	108	286508	124.0867	ng	95
31) Nitrobenzene	6.346	77	274020	124.0063	ng	78
32) Isophorone	6.539	82	487578	125.8366	ng	77
33) 2-Nitrophenol	6.598	139	171810	138.0885	ng	88
34) 2,4-Dimethylphenol	6.630	107	297554	120.3169	ng	92
35) Benzoic Acid	6.737	105	172662	99.6077	ng	88
36) bis(2-Chloroethoxy)met...	6.699	93	289301	122.8620	ng	95
37) 2,4-Dichlorophenol	6.785	162	253743	129.6038	ng	86
38) 1,2,4-Trichlorobenzene	6.849	180	276516	128.2362	ng	96
39) Naphthalene	6.913	128	842442m	117.2797	ng	
40) 4-Chloroaniline	6.945	127	315371m	130.7159	ng	
41) Hexachlorobutadiene	6.999	225	170005	131.9497	ng	96
42) Caprolactam	7.245	113	110679	141.3189	ng	48
43) 4-Chloro-3-methylphenol	7.320	107	266493	128.2345	ng	75
44) 2-Methylnaphthalene	7.448	142	602962	129.6816	ng	100
45) Methylnaphthalenes (To...	7.448	142	1195212m	128.6495	ng	
46) 1,1'-Biphenyl	7.823	154	748318	127.1768	ng	91
48) 1,2,4,5-Tetrachloroben...	7.582	216	311162	130.3988	ng	98
49) Hexachlorocyclopentadiene	7.571	237	162957	127.3734	ng	99
50) 2,4,6-Trichlorophenol	7.673	196	197691	127.2149	ng	99
51) 2,4,5-Trichlorophenol	7.705	196	201159	136.5587	ng	99
53) 2-Chloronaphthalene	7.849	162	540154	116.5907	ng	93
54) 1,4-Dimethylnaphthalene	8.133	156	457038	128.9957	ng	88
55) Dimethylnaphthalenes (...	8.133	156	457038	128.9957	ng	88
56) Diphenyl Ether	7.908	170	438282	131.8373	ng	77
57) 2-Nitroaniline	7.924	65	192384	126.8100	ng	54
58) Coumarin	8.117	146	242432	126.4302	ng	65
59) Acenaphthylene	8.213	152	856884	124.6079	ng	98
60) Dimethylphthalate	8.079	163	660565	124.2187	ng	98
61) 2,6-Dinitrotoluene	8.133	165	163782	135.7597	ng	61
62) Acenaphthene	8.363	153	593006	126.1324	ng	97
63) 3-Nitroaniline	8.283	138	152382	121.3765	ng	72
64) 2,4-Dinitrophenol	8.373	184	103181	146.4900	ng	45
65) Dibenzofuran	8.518	168	805535	119.1613	ng	89

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM
Data File: 9M56932.D
Acq On : 05/21/14 11:41

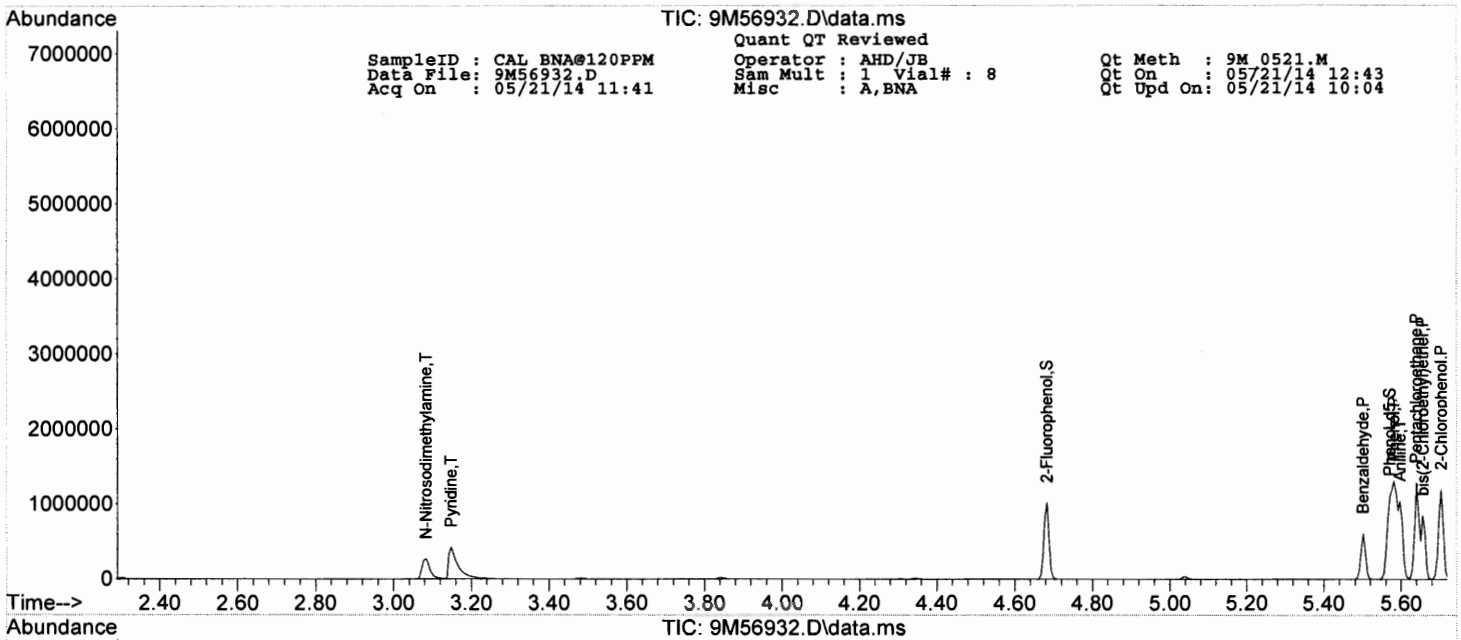
Operator : AHD/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA

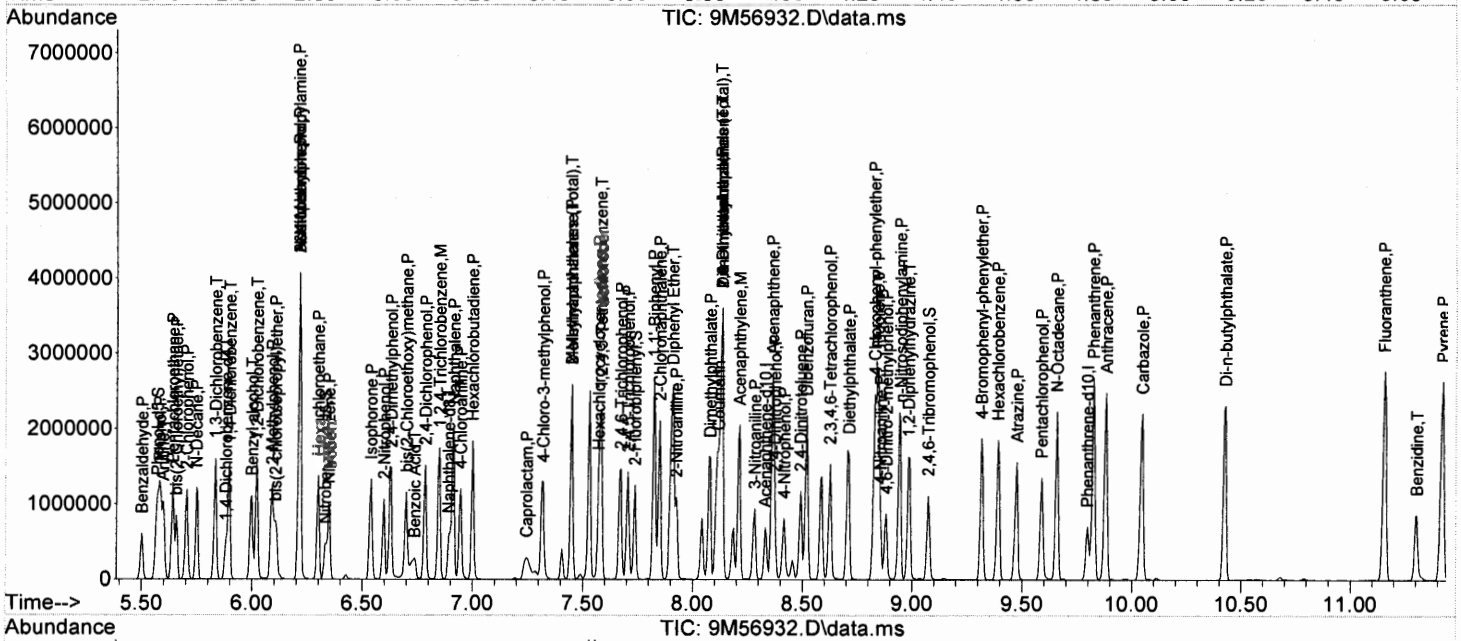
Qt Meth : 9M_0521.M
Qt On : 05/21/14 12:43
Qt Upd On: 05/21/14 10:04

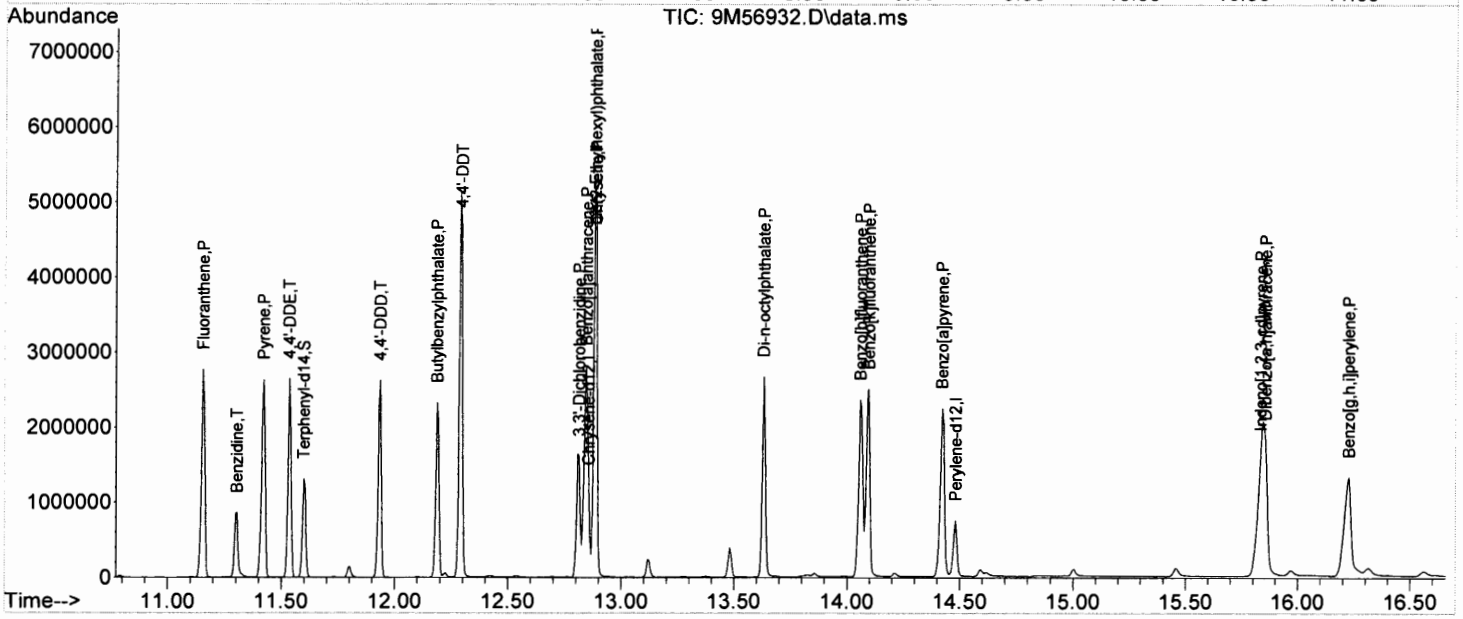
Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.491	165	212389	133.9642	ng	68
67)	4-Nitrophenol	8.416	65	126396m	130.5320	ng	
68)	2,3,4,6-Tetrachlorophenol	8.625	232	182187	128.7096	ng	84
69)	Fluorene	8.844	166	698320	126.7939	ng	99
70)	4-Chlorophenyl-phenyle...	8.828	204	366926	131.4827	ng	84
71)	Diethylphthalate	8.710	149	673499	127.2605	ng	95
72)	4-Nitroaniline	8.855	138	180637	128.6653	ng	90
73)	Atrazine	9.475	200	200638	137.6608	ng	94
75)	4,6-Dinitro-2-methylph...	8.882	198	128355	144.7291	ng	53
76)	n-Nitrosodiphenylamine	8.946	169	595795	127.1722	ng	98
78)	1,2-Diphenylhydrazine	8.983	77	617144	122.5209	ng	82
79)	4-Bromophenyl-phenylether	9.315	248	229994	133.5759	ng	86
80)	Hexachlorobenzene	9.390	284	256539	133.3372	ng	63
81)	N-Octadecane	9.657	57	297024	130.9460	ng	60
82)	Pentachlorophenol	9.588	266	158391	126.2475	ng	97
83)	Phenanthrene	9.823	178	997536	126.3851	ng	99
84)	Anthracene	9.882	178	997697	124.8215	ng	99
85)	Carbazole	10.048	167	977929	125.8532	ng	96
86)	Di-n-butylphthalate	10.427	149	1258530	135.3502	ng	98
87)	Fluoranthene	11.155	202	1239538	129.7121	ng	85
89)	Pyrene	11.422	202	1204423	129.5033	ng	81
90)	Benzidine	11.305	184	366797	141.7010	ng	80
92)	4,4'-DDE	11.535	246	293581	136.4563	ng	88
93)	4,4'-DDD	11.936	235	470878	140.2632	ng	95
94)	Butylbenzylphthalate	12.187	149	565384	135.9943	ng	73
95)	4,4'-DDT	12.294	235	481729	156.6155	ng	99
96)	3,3'-Dichlorobenzidine	12.813	252	394477	132.9118	ng	95
97)	Benzo[a]anthracene	12.845	228	1173026	126.2977	ng	100
98)	Chrysene	12.888	228	1161551	132.8198	ng	99
99)	bis(2-Ethylhexyl)phtha...	12.882	149	806135	143.2667	ng	91
101)	Di-n-octylphthalate	13.631	149	1358075	145.7696	ng	100
102)	Benzo[b]fluoranthene	14.059	252	1186482	131.1631	ng	92
103)	Benzo[k]fluoranthene	14.097	252	1153361m	126.9537	ng	
104)	Benzo[a]pyrene	14.423	252	1119947	130.5053	ng	91
105)	Indeno[1,2,3-cd]pyrene	15.835	276	1247293	130.8505	ng	88
106)	Dibenzo[a,h]anthracene	15.856	278	1049830	131.6107	ng	84
107)	Benzo[g,h,i]perylene	16.225	276	1000884	125.5492	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M56932.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@120PPM
Data File: 9M56932.D
Acq On : 05/21/14 11:41
Operator : AHD/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 9M 0521.M
Qt On : 05/21/14 12:43
Qt Upd On: 05/21/14 10:04
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->
2.40 2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60


Abundance
TIC: 9M56932.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Hexachlorobutadiene,P
Diethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00


Abundance
TIC: 9M56932.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->
11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50

Quantitation Report (QT Reviewed)

4052101 0783

SampleID : CAL BNA@160PPM
Data File: 9M56933.D
Acq On : 05/21/14 12:05

Operator : AHD/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA

Qt Meth : 9M_0521.M
Qt On : 05/21/14 12:44
Qt Upd On: 05/21/14 10:04

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.881	152	60005	40.00	ng	-0.06
29) Naphthalene-d8	6.897	136	240504	40.00	ng	-0.06
47) Acenaphthene-d10	8.336	164	145721	40.00	ng	-0.06
74) Phenanthrene-d10	9.796	188	281538	40.00	ng	-0.07
88) Chrysene-d12	12.856	240	316864	40.00	ng	-0.06
100) Perylene-d12	14.482	264	288251	40.00	ng	-0.07
System Monitoring Compounds						
10) 2-Fluorophenol	4.683	112	363126	178.87	ng	-0.06
Spiked Amount 100.000			Recovery = 178.87%			
15) Phenol-d5	5.576	99	465113	172.06	ng	-0.04
Spiked Amount 100.000			Recovery = 172.06%			
30) Nitrobenzene-d5	6.336	128	89068	83.41	ng	-0.05
Spiked Amount 50.000			Recovery = 166.82%			
52) 2-Fluorobiphenyl	7.737	172	418363	81.10	ng	-0.06
Spiked Amount 50.000			Recovery = 162.20%			
77) 2,4,6-Tribromophenol	9.080	330	170281	195.87	ng	-0.06
Spiked Amount 100.000			Recovery = 195.87%			
91) Terphenyl-d14	11.604	244	563865	86.39	ng	-0.06
Spiked Amount 50.000			Recovery = 172.78%			
Target Compounds						Qvalue
8) Pyridine	3.148	79	346075	162.7535	ng	59
9) N-Nitrosodimethylamine	3.084	74	202837	170.8331	ng	76
11) Benzaldehyde	5.501	77	117425	115.0560	ng	73
12) Aniline	5.603	93	465756	167.6173	ng	81
13) Pentachloroethane	5.640	117	137279	167.8397	ng	72
14) bis(2-Chloroethyl)ether	5.662	93	303971	153.3517	ng	72
16) Phenol	5.587	94	480808	168.6561	ng	98
17) 2-Chlorophenol	5.705	128	392496	171.0019	ng	73
18) N-Decane	5.753	57	232225	161.8179	ng	89
19) 1,3-Dichlorobenzene	5.833	146	416975	167.4582	ng	97
20) 1,4-Dichlorobenzene	5.897	146	416046	168.5758	ng	98
21) 1,2-Dichlorobenzene	6.020	146	390322	168.5710	ng	98
22) Benzyl alcohol	5.999	108	234991	166.9482	ng	76
23) bis(2-chloroisopropyl)...	6.106	45	270677	167.4486	ng	63
24) 2-Methylphenol	6.090	108	336683	169.4975	ng	99
25) Acetophenone	6.218	105	565733	183.4208	ng	68
26) Hexachloroethane	6.298	117	159436	171.9868	ng	88
27) N-Nitroso-di-n-propyla...	6.218	70	246096	168.0649	ng	72
28) 3&4-Methylphenol	6.218	108	383314	174.2055	ng	98
31) Nitrobenzene	6.352	77	355463	162.6828	ng	74
32) Isophorone	6.539	82	642400	167.6696	ng	80
33) 2-Nitrophenol	6.598	139	227596	184.9949	ng	89
34) 2,4-Dimethylphenol	6.630	107	392359	160.4466	ng	92
35) Benzoic Acid	6.753	105	270842	158.0149	ng	86
36) bis(2-Chloroethoxy)met...	6.699	93	381545	163.8700	ng	95
37) 2,4-Dichlorophenol	6.785	162	338561	174.8826	ng	87
38) 1,2,4-Trichlorobenzene	6.849	180	365129	171.2468	ng	98
39) Naphthalene	6.913	128	1111410m	156.4743	ng	
40) 4-Chloroaniline	6.946	127	394368m	165.3082	ng	
41) Hexachlorobutadiene	6.999	225	226670	177.9208	ng	97
42) Caprolactam	7.261	113	147951m	191.0463	ng	
43) 4-Chloro-3-methylphenol	7.320	107	355710	173.1015	ng	76
44) 2-Methylnaphthalene	7.448	142	789958	171.8218	ng	99
45) Methylnaphthalenes (To...	7.448	142	1566747m	170.5485	ng	
46) 1,1'-Biphenyl	7.828	154	1002518	172.3057	ng	90
48) 1,2,4,5-Tetrachloroben...	7.582	216	416753	176.3256	ng	97
49) Hexachlorocyclopentadiene	7.577	237	222429	175.5281	ng	97
50) 2,4,6-Trichlorophenol	7.673	196	271901	176.6491	ng	98
51) 2,4,5-Trichlorophenol	7.705	196	259372	177.7676	ng	99
53) 2-Chloronaphthalene	7.849	162	722899	157.5337	ng	94
54) 1,4-Dimethylnaphthalene	8.138	156	628269	179.0269	ng	85
55) Dimethylnaphthalenes (...	8.138	156	628269	179.0269	ng	85
56) Diphenyl Ether	7.908	170	604657	183.6299	ng	76
57) 2-Nitroaniline	7.930	65	248237	165.1964	ng	41
58) Coumarin	8.122	146	336712	177.2837	ng	69
59) Acenaphthylene	8.213	152	1137799	167.0469	ng	98
60) Dimethylphthalate	8.079	163	889447	168.8655	ng	98
61) 2,6-Dinitrotoluene	8.133	165	229051	191.6842	ng	70
62) Acenaphthene	8.368	153	799180	171.6176	ng	99
63) 3-Nitroaniline	8.288	138	194693	156.5672	ng	70
64) 2,4-Dinitrophenol	8.379	184	141324	202.5694	ng	39
65) Dibenzofuran	8.523	168	1068094	159.5181	ng	88

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM
Data File: 9M56933.D
Acq On : 05/21/14 12:05

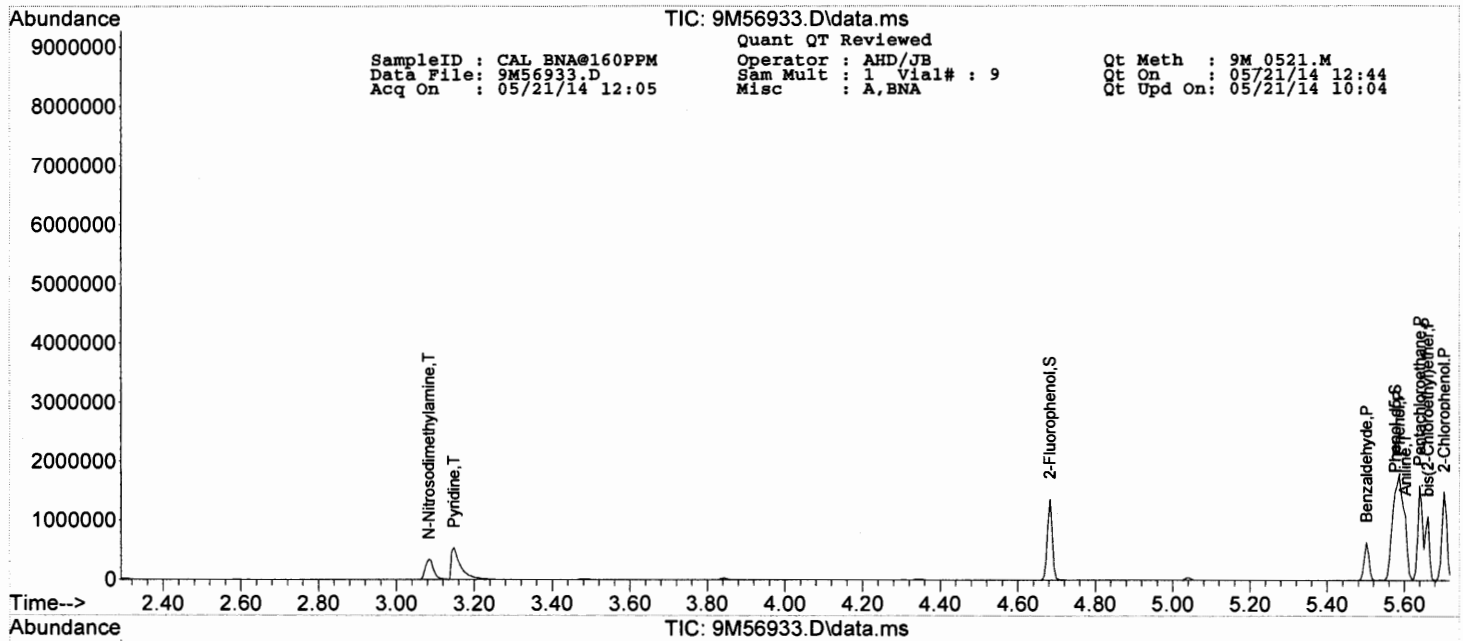
Operator : AHD/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA

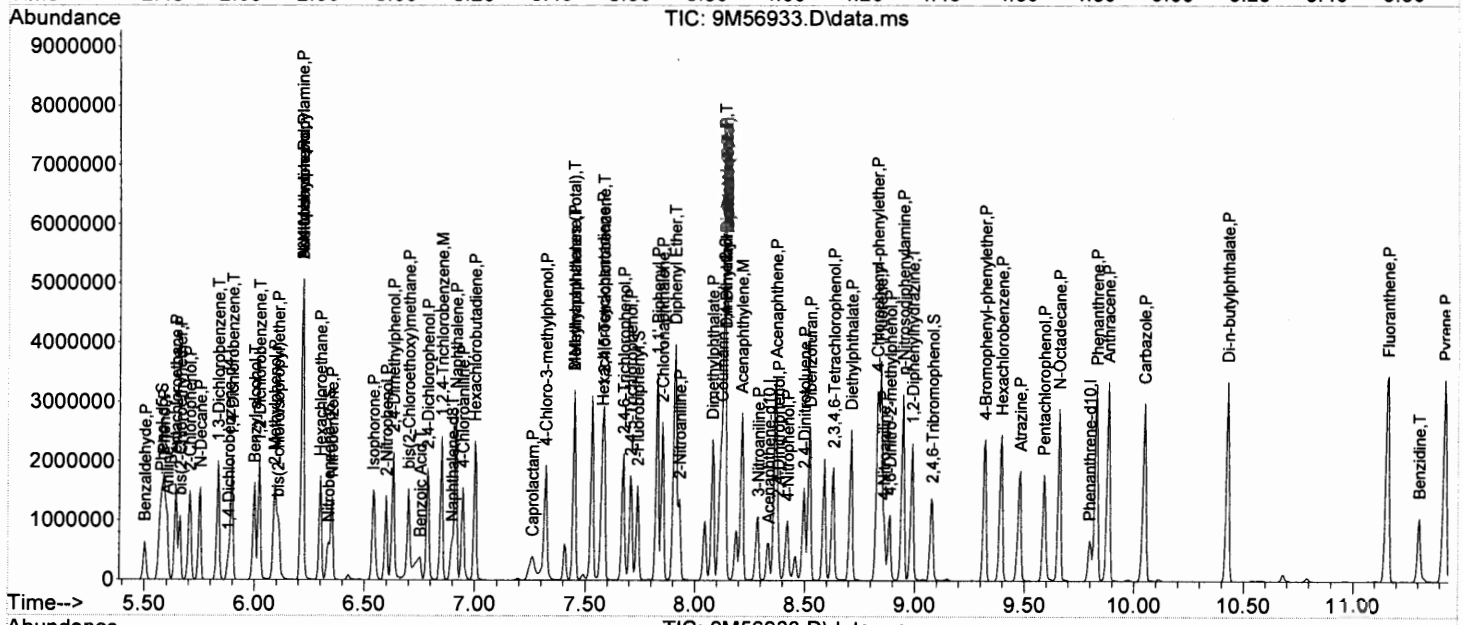
Qt Meth : 9M_0521.M
Qt On : 05/21/14 12:44
Qt Upd On: 05/21/14 10:04

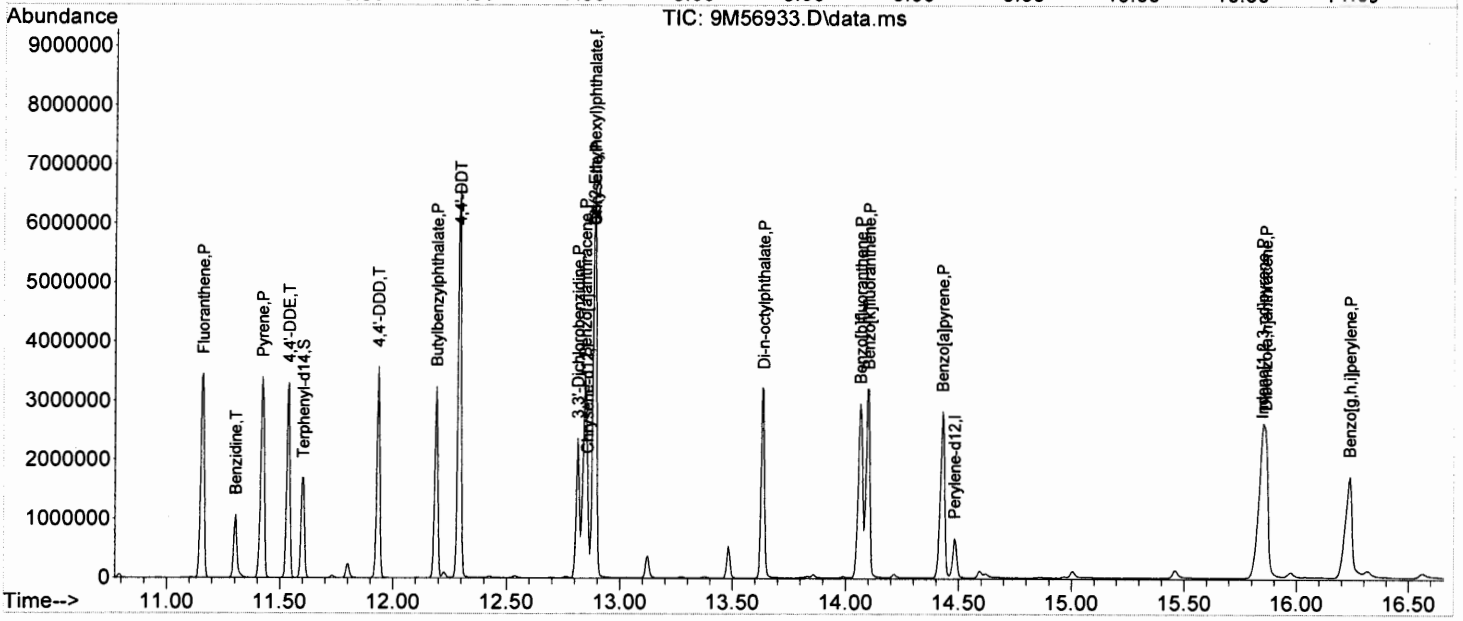
Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.497	165	287277	182.9393	ng	63
67)	4-Nitrophenol	8.422	65	177665	185.2401	ng	55
68)	2,3,4,6-Tetrachlorophenol	8.630	232	245854	175.3559	ng	83
69)	Fluorene	8.844	166	925464	169.6496	ng	100
70)	4-Chlorophenyl-phenyle...	8.828	204	500870	181.2028	ng	84
71)	Diethylphthalate	8.711	149	900886	171.8605	ng	95
72)	4-Nitroaniline	8.860	138	233256	167.7402	ng	91
73)	Atrazine	9.481	200	262709	181.9791	ng	93
75)	4,6-Dinitro-2-methylph...	8.887	198	174681	198.8650	ng	58
76)	n-Nitrosodiphenylamine	8.946	169	798290	172.0384	ng	99
78)	1,2-Diphenylhydrazine	8.989	77	808216	162.0021	ng	74
79)	4-Bromophenyl-phenylether	9.320	248	311636	182.7379	ng	81
80)	Hexachlorobenzene	9.395	284	345660	181.3914	ng	58
81)	N-Octadecane	9.657	57	393692	175.2374	ng	58
82)	Pentachlorophenol	9.588	266	219259	176.4491	ng	96
83)	Phenanthrene	9.828	178	1342889	171.7817	ng	100
84)	Anthracene	9.882	178	1346811	170.1246	ng	99
85)	Carbazole	10.048	167	1308704	170.0467	ng	97
86)	Di-n-butylphthalate	10.428	149	1673517	181.7168	ng	98
87)	Fluoranthene	11.160	202	1646847	173.9977	ng	82
89)	Pyrene	11.422	202	1593193	175.4841	ng	82
90)	Benzidine	11.305	184	425155	168.2527	ng	80
92)	4,4'-DDE	11.540	246	394677	187.9208	ng	88
93)	4,4'-DDD	11.936	235	630832	192.4938	ng	95
94)	Butylbenzylphthalate	12.193	149	756601	186.4282	ng	68
95)	4,4'-DDT	12.294	235	648141	215.8585	ng	98
96)	3,3'-Dichlorobenzidine	12.813	252	517406	178.5833	ng	95
97)	Benzo[a]anthracene	12.845	228	1542944	170.1788	ng	99
98)	Chrysene	12.888	228	1526301	178.7854	ng	100
99)	bis(2-Ethylhexyl)phtha...	12.883	149	1063382	193.5951	ng	91
101)	Di-n-octylphthalate	13.637	149	1791445	202.5412	ng	100
102)	Benzo[b]fluoranthene	14.065	252	1576927m	183.6238	ng	
103)	Benzo[k]fluoranthene	14.102	252	1489841	172.7376	ng	90
104)	Benzo[a]pyrene	14.428	252	1471744	180.6465	ng	91
105)	Indeno[1,2,3-cd]pyrene	15.846	276	1643131	181.5708	ng	77
106)	Dibenzo[a,h]anthracene	15.862	278	1384875	182.8729	ng	86
107)	Benzo[g,h,i]perylene	16.236	276	1331752	175.9626	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M56933.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 9M56933.D
Acq On : 05/21/14 12:05
Operator : AHD/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 9M 0521.M
Qt On : 05/21/14 12:44
Qt Upd On: 05/21/14 10:04
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
TIC: 9M56933.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Hexachlorobutadiene,P
Diphenyl Ether,T
Acenaphthylene,M
Acenaphthene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 9M56933.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

4052101 0786

SampleID : CAL BNA@196PPM Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M56934.D Sam Mult : 1 Vial# : 10 Qt On : 05/21/14 12:44
Acq On : 05/21/14 12:29 Misc : A,BNA Qt Upd On: 05/21/14 10:04

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.881	152	50186	40.00	ng	-0.06
29) Naphthalene-d8	6.897	136	197470	40.00	ng	-0.06
47) Acenaphthene-d10	8.336	164	125176	40.00	ng	-0.06
74) Phenanthrene-d10	9.796	188	247068	40.00	ng	-0.07
88) Chrysene-d12	12.856	240	287329	40.00	ng	-0.06
100) Perylene-d12	14.476	264	256994	40.00	ng	-0.07
System Monitoring Compounds						
10) 2-Fluorophenol	4.683	112	423516	249.44	ng	-0.06
Spiked Amount 100.000			Recovery = 249.44%			
15) Phenol-d5	5.576	99	541405	239.47	ng	-0.04
Spiked Amount 100.000			Recovery = 239.47%			
30) Nitrobenzene-d5	6.336	128	103921	118.52	ng	-0.05
Spiked Amount 50.000			Recovery = 237.04%			
52) 2-Fluorobiphenyl	7.737	172	495204	111.75	ng	-0.06
Spiked Amount 50.000			Recovery = 223.50%			
77) 2,4,6-Tribromophenol	9.080	330	212272	278.24	ng	-0.06
Spiked Amount 100.000			Recovery = 278.24%			
91) Terphenyl-d14	11.604	244	708832	119.76	ng	-0.06
Spiked Amount 50.000			Recovery = 239.52%			
Target Compounds						Qvalue
8) Pyridine	3.143	79	391321	220.0382	ng	59
9) N-Nitrosodimethylamine	3.084	74	233562	235.1971	ng	78
11) Benzaldehyde	5.501	77	109632	128.4372	ng	75
12) Aniline	5.603	93	529426	227.8088	ng	82
13) Pentachloroethane	5.640	117	157931	230.8676	ng	73
14) bis(2-Chloroethyl)ether	5.662	93	348116	209.9836	ng	72
16) Phenol	5.587	94	560486	235.0715	ng	97
17) 2-Chlorophenol	5.705	128	454851	236.9407	ng	74
18) N-Decane	5.753	57	264172	220.0945	ng	88
19) 1,3-Dichlorobenzene	5.833	146	478647	229.8352	ng	96
20) 1,4-Dichlorobenzene	5.897	146	479517	232.3072	ng	98
21) 1,2-Dichlorobenzene	6.020	146	448473	231.5799	ng	99
22) Benzyl alcohol	5.999	108	273035	231.9283	ng	78
23) bis(2-chloroisopropyl)...	6.106	45	307467	227.4225	ng	61
24) 2-Methylphenol	6.090	108	391834	235.8572	ng	98
25) Acetophenone	6.218	105	670046	259.7446	ng	68
26) Hexachloroethane	6.298	117	184764	238.3038	ng	89
27) N-Nitroso-di-n-propyla...	6.218	70	289707	236.5572	ng	74
28) 3&4-Methylphenol	6.218	108	457930	248.8348	ng	97
31) Nitrobenzene	6.352	77	408769	227.8486	ng	73
32) Isophorone	6.544	82	749528	238.2637	ng	75
33) 2-Nitrophenol	6.598	139	265845	263.1751	ng	90
34) 2,4-Dimethylphenol	6.630	107	456567	227.3907	ng	92
35) Benzoic Acid	6.758	105	348634	247.7268	ng	87
36) bis(2-Chloroethoxy)met...	6.699	93	445210	232.8841	ng	94
37) 2,4-Dichlorophenol	6.790	162	397878	250.3115	ng	84
38) 1,2,4-Trichlorobenzene	6.849	180	427268	244.0606	ng	97
39) Naphthalene	6.913	128	1300667m	223.0262	ng	
40) 4-Chloroaniline	6.945	127	436289m	222.7348	ng	
41) Hexachlorobutadiene	6.999	225	265935	254.2315	ng	97
42) Caprolactam	7.266	113	123351	193.9924	ng	50
43) 4-Chloro-3-methylphenol	7.320	107	418342	247.9462	ng	77
44) 2-Methylnaphthalene	7.448	142	938573	248.6357	ng	99
45) Methylnaphthalenes (To...	7.448	142	1859308m	246.5026	ng	
46) 1,1'-Biphenyl	7.828	154	1193196	249.7701	ng	90
48) 1,2,4,5-Tetrachloroben...	7.587	216	496469	244.5288	ng	98
49) Hexachlorocyclopentadiene	7.577	237	258583	237.5506	ng	98
50) 2,4,6-Trichlorophenol	7.673	196	323401	244.5924	ng	99
51) 2,4,5-Trichlorophenol	7.710	196	312084	249.0016	ng	99
53) 2-Chloronaphthalene	7.849	162	856765	217.3495	ng	94
54) 1,4-Dimethylnaphthalene	8.138	156	761183	252.5008	ng	85
55) Dimethylnaphthalenes (...	8.138	156	761183	252.5008	ng	85
56) Diphenyl Ether	7.908	170	736302	260.3103	ng	76
57) 2-Nitroaniline	7.930	65	294928	228.4815	ng	43
58) Coumarin	8.127	146	413793	253.6264	ng	73
59) Acenaphthylene	8.213	152	1353440	231.3199	ng	98
60) Dimethylphthalate	8.085	163	1075493	237.7002	ng	97
61) 2,6-Dinitrotoluene	8.138	165	278402	271.2236	ng	61
62) Acenaphthene	8.368	153	951586	237.8846	ng	98
63) 3-Nitroaniline	8.288	138	231562	216.7798	ng	72
64) 2,4-Dinitrophenol	8.379	184	172205	287.3457	ng	44
65) Dibenzofuran	8.523	168	1283807	223.2037	ng	87

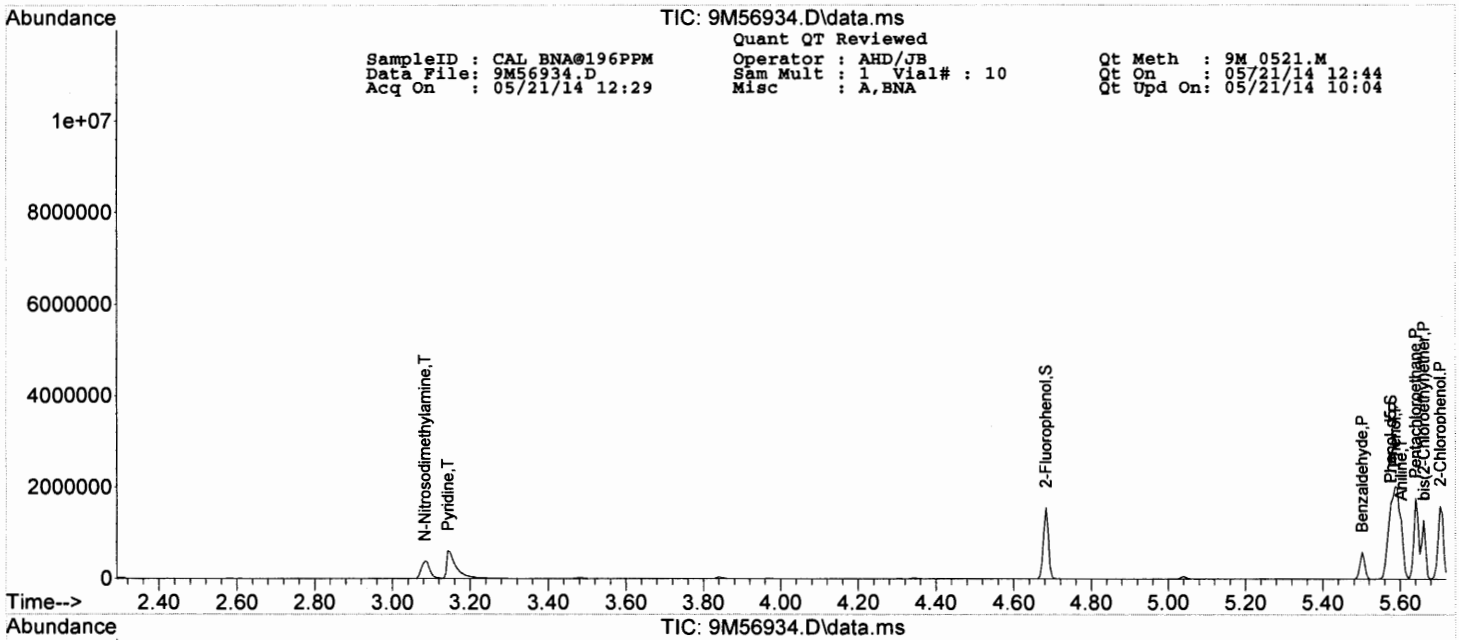
Quantitation Report (QT Reviewed)

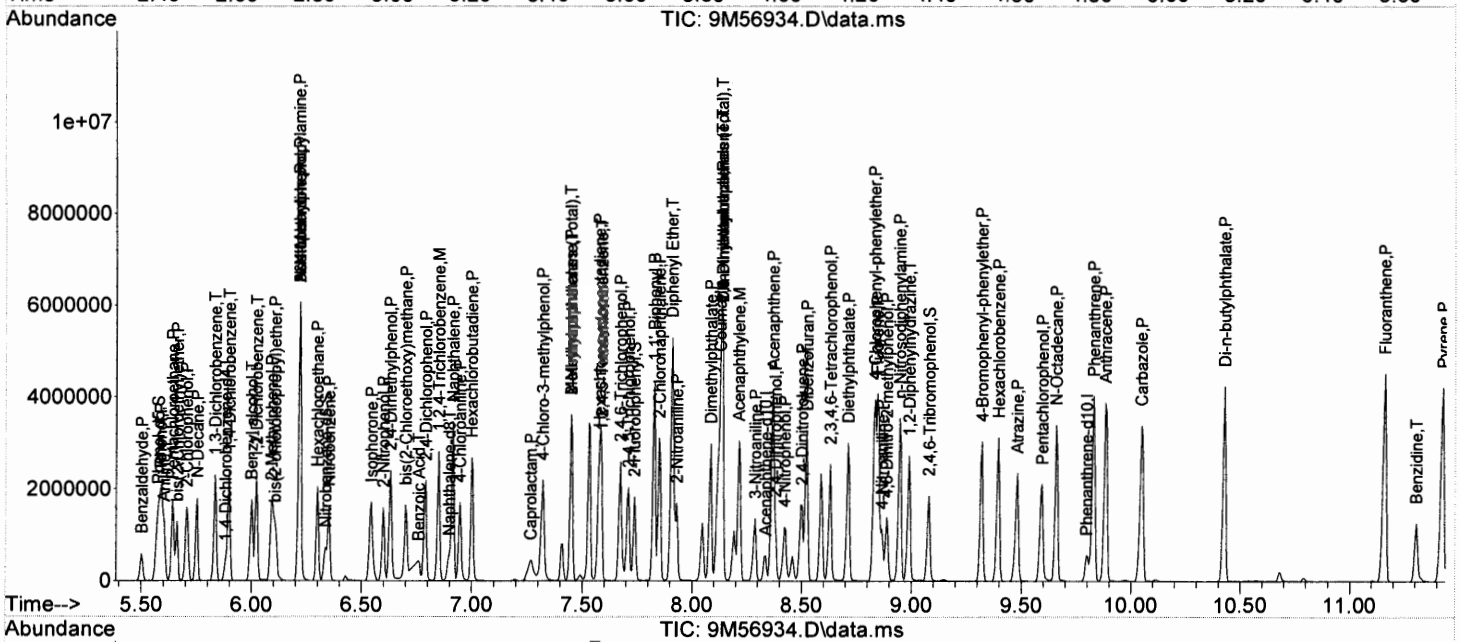
SampleID : CAL BNA@196PPM
Data File: 9M56934.D
Acq On : 05/21/14 12:29
Operator : AHD/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 9M_0521.M
Qt On : 05/21/14 12:44
Qt Upd On: 05/21/14 10:04

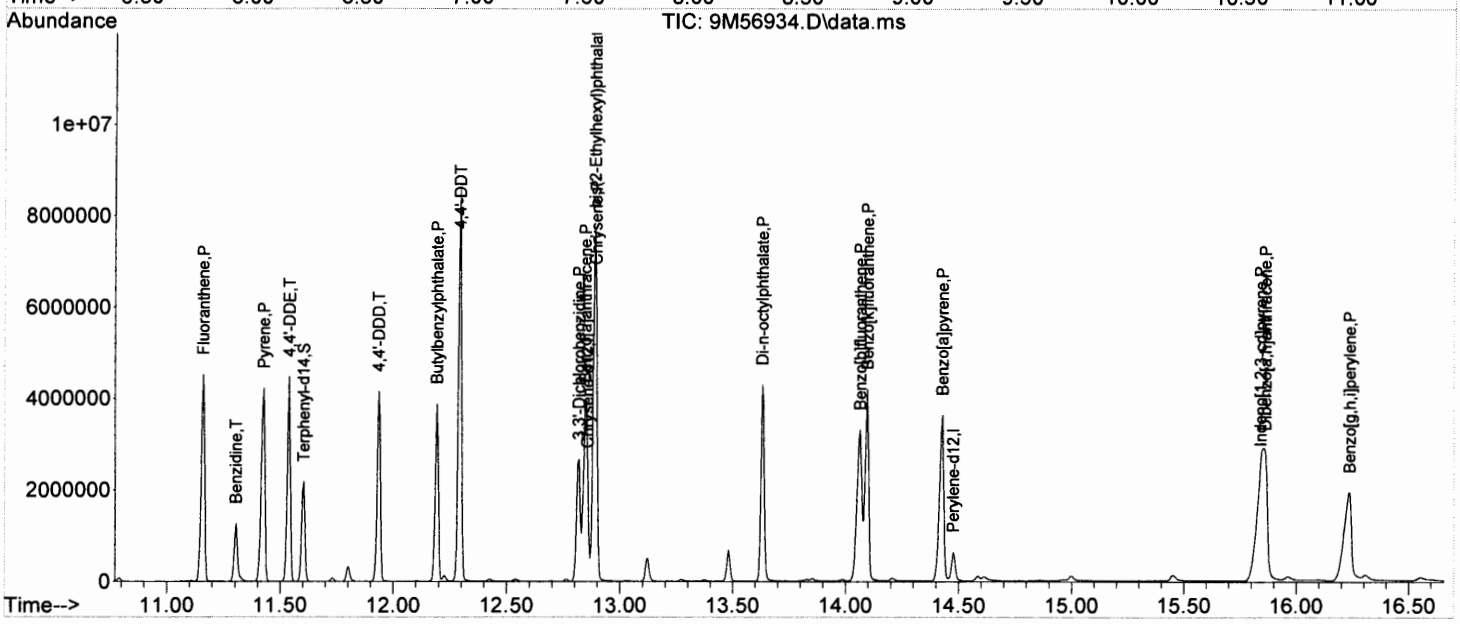
Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.502	165	348021	257.9958	ng	61
67)	4-Nitrophenol	8.422	65	205078m	248.9163	ng	
68)	2,3,4,6-Tetrachlorophenol	8.630	232	298833	248.1263	ng	84
69)	Fluorene	8.844	166	1117136	238.3968	ng	99
70)	4-Chlorophenyl-phenyle...	8.834	204	615600	259.2624	ng	79
71)	Diethylphthalate	8.711	149	1100444	244.3854	ng	95
72)	4-Nitroaniline	8.866	138	283560	237.3835	ng	90
73)	Atrazine	9.481	200	324796	261.9137	ng	94
75)	4,6-Dinitro-2-methylph...	8.887	198	213725	277.2609	ng	47
76)	n-Nitrosodiphenylamine	8.946	169	967658	237.6332	ng	99
78)	1,2-Diphenylhydrazine	8.989	77	1072412	244.9488	ng	76
79)	4-Bromophenyl-phenylether	9.320	248	387399	258.8571	ng	81
80)	Hexachlorobenzene	9.395	284	427121	255.4107	ng	59
81)	N-Octadecane	9.657	57	470635	238.7124	ng	58
82)	Pentachlorophenol	9.593	266	276825	253.8562	ng	96
83)	Phenanthrene	9.828	178	1630826	237.7196	ng	100
84)	Anthracene	9.882	178	1666452	239.8688	ng	99
85)	Carbazole	10.048	167	1607693	238.0402	ng	97
86)	Di-n-butylphthalate	10.427	149	2088189	258.3778	ng	98
87)	Fluoranthene	11.160	202	2052775	247.1452	ng	85
89)	Pyrene	11.428	202	1989704	241.6859	ng	80
90)	Benzidine	11.305	184	504698	220.2621	ng	82
92)	4,4'-DDE	11.540	246	501939	263.5588	ng	87
93)	4,4'-DDD	11.936	235	802907	270.1852	ng	96
94)	Butylbenzylphthalate	12.192	149	958046	260.3302	ng	69
95)	4,4'-DDT	12.294	235	810237	297.5809	ng	98
96)	3,3'-Dichlorobenzidine	12.818	252	639107	243.2632	ng	94
97)	Benzo[a]anthracene	12.845	228	1964873	238.9920	ng	99
98)	Chrysene	12.893	228	1884245	243.4012	ng	99
99)	bis(2-Ethylhexyl)phtha...	12.888	149	1352844	271.6103	ng	87
101)	Di-n-octylphthalate	13.631	149	2288785	290.2437	ng	99
102)	Benzo[b]fluoranthene	14.065	252	2077844	271.3802	ng	92
103)	Benzo[k]fluoranthene	14.097	252	1902189	247.3708	ng	91
104)	Benzo[a]pyrene	14.428	252	1853220	255.1362	ng	90
105)	Indeno[1,2,3-cd]pyrene	15.840	276	2037344	252.5143	ng	91
106)	Dibenzo[a,h]anthracene	15.862	278	1712738	253.6750	ng	85
107)	Benzo[g,h,i]perylene	16.236	276	1639080	242.9098	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M56934.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@196PPM
Data File: 9M56934.D
Acq On : 05/21/14 12:29
Operator : AHD/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 9M 0521.M
Qt On : 05/21/14 12:44
Qt Upd On: 05/21/14 10:04
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
TIC: 9M56934.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Hexachlorobutadiene,P
Isophorone,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
Diphenyl Ether,T
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 9M56934.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

4052101 0789

SampleID : CAL BNA@.5PPM Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M56929.D Sam Mult : 1 Vial# : 5 Qt On : 05/21/14 10:49
Acq On : 05/21/14 10:31 Misc : A,BNA Qt Upd On: 05/21/14 10:04

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.881	152	65069	40.00	ng	-0.06
29) Naphthalene-d8	6.892	136	254285	40.00	ng	-0.06
47) Acenaphthene-d10	8.325	164	154789	40.00	ng	-0.07
74) Phenanthrene-d10	9.791	188	297792	40.00	ng	-0.07
88) Chrysene-d12	12.845	240	340973	40.00	ng	-0.07
100) Perylene-d12	14.471	264	324022	40.00	ng	-0.08
System Monitoring Compounds						
10) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery	=	0.00%	
15) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery	=	0.00%	
30) Nitrobenzene-d5	0.000	128	0	0.00	ng	
Spiked Amount 50.000			Recovery	=	0.00%	
52) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
Spiked Amount 50.000			Recovery	=	0.00%	
77) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery	=	0.00%	
91) Terphenyl-d14	0.000	244	0d	0.00	ng	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
8) Pyridine	0.000		0	N.D. d		
9) N-Nitrosodimethylamine	0.000		0	N.D.		
11) Benzaldehyde	0.000		0	N.D. d		
12) Aniline	5.592	93	1255m	0.4165	ng	
13) Pentachloroethane	0.000		0	N.D. d		
14) bis(2-Chloroethyl)ether	5.651	93	893	0.4155	ng	77
16) Phenol	0.000		0	N.D. d		
17) 2-Chlorophenol	0.000		0	N.D. d		
18) N-Decane	0.000		0	N.D. d		
19) 1,3-Dichlorobenzene	0.000		0	N.D. d		
20) 1,4-Dichlorobenzene	0.000		0	N.D. d		
21) 1,2-Dichlorobenzene	0.000		0	N.D. d		
22) Benzyl alcohol	0.000		0	N.D. d		
23) bis(2-chloroisopropyl)...	0.000		0	N.D. d		
24) 2-Methylphenol	6.084	108	941	0.4369	ng	75
25) Acetophenone	0.000		0	N.D. d		
26) Hexachloroethane	0.000		0	N.D.		
27) N-Nitroso-di-n-propyla...	6.202	70	766	0.4824	ng	84
28) 3&4-Methylphenol	6.207	108	913	0.3826	ng	94
31) Nitrobenzene	0.000		0	N.D. d		
32) Isophorone	0.000		0	N.D. d		
33) 2-Nitrophenol	0.000		0	N.D.		
34) 2,4-Dimethylphenol	6.625	107	1100	0.4254	ng	86
35) Benzoic Acid	0.000		0	N.D.		
36) bis(2-Chloroethoxy)met...	0.000		0	N.D. d		
37) 2,4-Dichlorophenol	6.780	162	937	0.4578	ng	95
38) 1,2,4-Trichlorobenzene	0.000		0	N.D. d		
39) Naphthalene	6.908	128	3606m	0.4802	ng	
40) 4-Chloroaniline	6.940	127	1178m	0.4670	ng	
41) Hexachlorobutadiene	0.000		0	N.D. d		
42) Caprolactam	0.000		0	N.D.		
43) 4-Chloro-3-methylphenol	0.000		0	N.D. d		
44) 2-Methylnaphthalene	0.000		0	N.D. d		
45) Methylnaphthalenes (To...	0.000		0	N.D. d		
46) 1,1'-Biphenyl	0.000		0	N.D. d		
48) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
49) Hexachlorocyclopentadiene	0.000		0	N.D.		
50) 2,4,6-Trichlorophenol	0.000		0	N.D. d		
51) 2,4,5-Trichlorophenol	0.000		0	N.D. d		
53) 2-Chloronaphthalene	0.000		0	N.D. d		
54) 1,4-Dimethylnaphthalene	0.000		0	N.D. d		
55) Dimethylnaphthalenes (...	0.000		0	N.D. d		
56) Diphenyl Ether	0.000		0	N.D. d		
57) 2-Nitroaniline	0.000		0	N.D. d		
58) Coumarin	0.000		0	N.D. d		
59) Acenaphthylene	0.000		0	N.D. d		
60) Dimethylphthalate	0.000		0	N.D. d		
61) 2,6-Dinitrotoluene	0.000		0	N.D. d		
62) Acenaphthene	0.000		0	N.D. d		
63) 3-Nitroaniline	0.000		0	N.D. d		
64) 2,4-Dinitrophenol	0.000		0	N.D.		
65) Dibenzofuran	8.513	168	3359	0.4723	ng	88

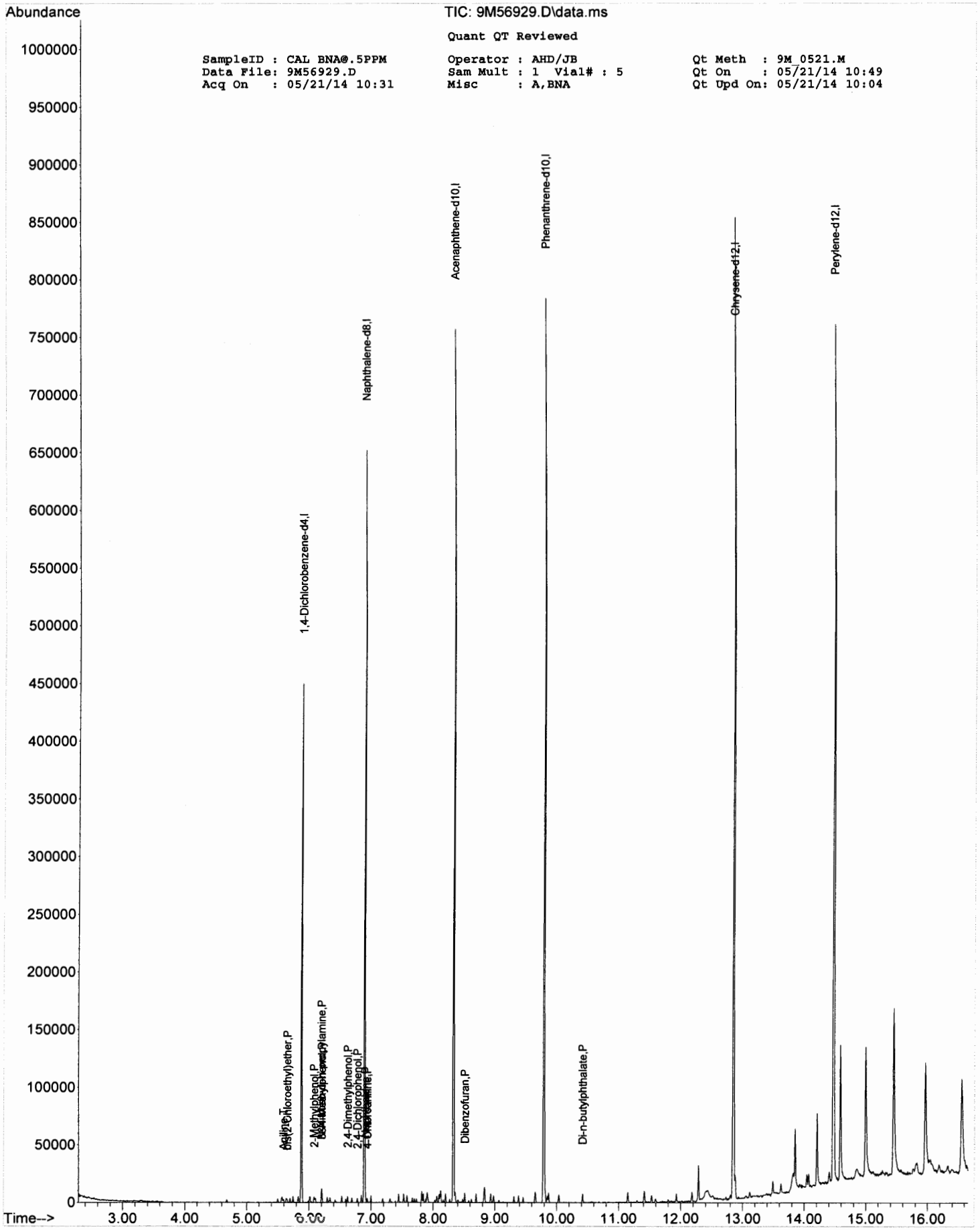
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@.5PPM
Data File: 9M56929.D
Acq On : 05/21/14 10:31
Operator : AHD/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 9M_0521.M
Qt On : 05/21/14 10:49
Qt Upd On: 05/21/14 10:04

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	0.000		0	N.D. d		
67)	4-Nitrophenol	0.000		0	N.D. d		
68)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
69)	Fluorene	0.000		0	N.D. d		
70)	4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
71)	Diethylphthalate	0.000		0	N.D. d		
72)	4-Nitroaniline	0.000		0	N.D. d		
73)	Atrazine	0.000		0	N.D. d		
75)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
76)	n-Nitrosodiphenylamine	0.000		0	N.D. d		
78)	1,2-Diphenylhydrazine	0.000		0	N.D. d		
79)	4-Bromophenyl-phenylether	0.000		0	N.D. d		
80)	Hexachlorobenzene	0.000		0	N.D. d		
81)	N-Octadecane	0.000		0	N.D. d		
82)	Pentachlorophenol	0.000		0	N.D. d		
83)	Phenanthrene	0.000		0	N.D. d		
84)	Anthracene	0.000		0	N.D. d		
85)	Carbazole	0.000		0	N.D. d		
86)	Di-n-butylphthalate	10.417	149	4389	0.4506	ng	98
87)	Fluoranthene	0.000		0	N.D. d		
89)	Pyrene	0.000		0	N.D. d		
90)	Benzidine	0.000		0	N.D. d		
92)	4,4'-DDE	0.000		0	N.D. d		
93)	4,4'-DDD	0.000		0	N.D. d		
94)	Butylbenzylphthalate	0.000		0	N.D. d		
95)	4,4'-DDT	0.000		0	N.D. d		
96)	3,3'-Dichlorobenzidine	0.000		0	N.D. d		
97)	Benzo[a]anthracene	0.000		0	N.D. d		
98)	Chrysene	0.000		0	N.D. d		
99)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
101)	Di-n-octylphthalate	0.000		0	N.D. d		
102)	Benzo[b]fluoranthene	0.000		0	N.D. d		
103)	Benzo[k]fluoranthene	0.000		0	N.D. d		
104)	Benzo[a]pyrene	0.000		0	N.D. d		
105)	Indeno[1,2,3-cd]pyrene	0.000		0	N.D. d		
106)	Dibenzo[a,h]anthracene	0.000		0	N.D. d		
107)	Benzo[g,h,i]perylene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M56929.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@.5PPM
Data File: 9M56929.D
Acq On : 05/21/14 10:31
Operator : AHD/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 9M_0521.M
Qt On : 05/21/14 10:49
Qt Upd On: 05/21/14 10:04
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
2-Methylphenol,P
2,4-Dimethylphenol,P
2,4-Dichlorophenol,P
Dibenzofuran,P
Di-n-butylphthalate,P
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M44241.D **Instrument:** GCMS 10

Cont Calibration Date/Time 5/23/2014 9:17:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dichlorobenzene-d4	1	0	I	5.72	40.00	40	**			0.000	0.00	
Pyridine	1	0		2.92	51.16	50	**		1.950	1.995	2.31	
N-Nitrosodimethylamine	1	0		2.85	52.39	50	**		1.172	1.228	4.78	
2-Fluorophenol	1	0	S	4.51	52.23	50	**		1.522	1.590	4.46	
Benzaldehyde	1	0		5.34	44.11	50	20	0.01	1.167	1.029	11.78	
Aniline	1	0		5.44	54.69	50	**		2.260	2.595	9.39	
Pentachloroethane	1	0		5.48	51.61	50	**	0.05	0.579	0.597	3.23	
bis(2-Chloroethyl)ether	1	0		5.49	52.13	50	20	0.7	1.615	1.684	4.26	
Phenol-d5	1	0	S	5.40	53.30	50	**		2.153	2.295	6.59	
Phenol	1	0		5.42	53.06	50	20	0.8	2.310	2.452	6.13	
2-Chlorophenol	1	0		5.54	52.45	50	20	0.8	1.588	1.665	4.89	
N-Decane	1	0		5.59	51.29	50	**	0.05	1.699	1.743	2.59	
1,3-Dichlorobenzene	1	0		5.67	50.75	50	**		1.685	1.710	1.50	
1,4-Dichlorobenzene	1	0		5.74	50.80	50	20		1.692	1.719	1.61	
1,2-Dichlorobenzene	1	0		5.86	51.17	50	**		1.603	1.640	2.35	
Benzyl alcohol	1	0		5.84	52.98	50	**		1.087	1.151	5.95	
bis(2-chloroisopropyl)ether	1	0		5.95	51.95	50	20	0.01	2.276	2.365	3.90	
2-Methylphenol	1	0		5.93	54.54	50	20	0.7	1.456	1.589	9.08	
Acetophenone	1	0		6.05	54.43	50	20	0.01	2.155	2.346	8.87	
Hexachloroethane	1	0		6.14	50.45	50	20	0.3	0.630	0.635	0.90	
N-Nitroso-di-n-propylamine	1	0		6.05	56.91	50	20	0.5	1.107	1.261	13.82	
3&4-Methylphenol	1	0		6.05	57.49	50	20		1.452	1.670	14.98	
Naphthalene-d8	1	0	I	6.73	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.17	25.99	25	**		0.185	0.193	3.98	
Nitrobenzene	1	0		6.18	51.76	50	20	0.2	0.424	0.439	3.53	
Isophorone	1	0		6.38	53.55	50	20	0.4	0.772	0.827	7.10	
2-Nitrophenol	1	0		6.44	56.16	50	20	0.1	0.202	0.223	12.32	
2,4-Dimethylphenol	1	0		6.47	53.86	50	20	0.2	0.389	0.419	7.71	
Benzoic Acid	1	0		6.55	56.20	50	**		0.214	0.237	12.41	
bis(2-Chloroethoxy)methane	1	0		6.54	51.32	50	20	0.3	0.505	0.518	2.63	
2,4-Dichlorophenol	1	0		6.62	55.81	50	20	0.2	0.303	0.338	11.62	
1,2,4-Trichlorobenzene	1	0		6.69	50.42	50	**		0.348	0.350	0.84	
Naphthalene	1	0		6.75	51.39	50	20	0.7	1.158	1.190	2.78	
4-Chloroaniline	1	0		6.78	53.28	50	20	0.01	0.401	0.507	6.56	
Hexachlorobutadiene	1	0		6.84	49.55	50	20	0.01	0.185	0.184	0.89	
Caprolactam	1	0		7.06	57.11	50	20	0.01	0.142	0.164	14.22	
4-Chloro-3-methylphenol	1	0		7.15	54.09	50	20	0.2	0.345	0.373	8.18	
2-Methylnaphthalene	1	0		7.28	53.10	50	**	0.4	0.767	0.815	6.20	
Methylnaphthalenes	1	0		7.28	52.74	50	20			1.614	5.48	
1,1'-Biphenyl	1	0		7.64	52.82	50	20	0.01	0.937	0.990	5.64	
Acenaphthene-d10	1	0	I	8.14	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.41	48.89	50	20	0.01	0.636	0.622	2.22	
Hexachlorocyclopentadiene	1	0		7.40	46.43	50	20	0.05	0.324	0.291	7.14	
2,4,6-Trichlorophenol	1	0		7.49	52.88	50	20	0.2	0.391	0.413	5.76	
2,4,5-Trichlorophenol	1	0		7.53	54.64	50	20	0.2	0.390	0.426	9.29	
2-Fluorobiphenyl	1	0	S	7.56	24.83	25	**		1.474	1.464	0.66	
2-Chloronaphthalene	1	0		7.67	49.60	50	20	0.8	1.228	1.219	0.80	
1,4-Dimethylnaphthalene	1	0		7.94	50.48	50	**		0.986	0.995	0.96	
Dimethylnaphthalenes	1	0		7.94	50.48	50	20			0.995	0.96	
Diphenyl Ether	1	0		7.73	49.36	50	**		0.945	0.933	1.28	
2-Nitroaniline	1	0		7.74	54.18	50	20	0.01	0.448	0.486	8.35	
Coumarin	1	0		7.92	52.44		**		0.553			

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M44241.D **Instrument:** GCMS 10

Cont Calibration Date/Time 5/23/2014 9:17:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Acenaphthylene	1	0		8.02	51.67	50	20	0.9	1.938	2.003	3.34	
Dimethylphthalate	1	0		7.89	51.93	50	20	0.01	1.414	1.469	3.85	
2,6-Dinitrotoluene	1	0		7.94	54.34	50	20	0.2	0.303	0.329	8.67	
Acenaphthene	1	0		8.17	51.10	50	20	0.9	1.272	1.300	2.20	
3-Nitroaniline	1	0		8.09	59.47	50	20	0.01	0.353	0.420	18.94	
2,4-Dinitrophenol	1	0		8.18	52.37	50	20	0.01	0.164	0.163	4.74	
Dibenzofuran	1	0		8.32	51.38	50	20	0.8	1.780	1.829	2.75	
2,4-Dinitrotoluene	1	0		8.29	55.43	50	20	0.2	0.416	0.458	10.86	
4-Nitrophenol	1	0		8.22	56.18	50	20	0.01	0.260	0.303	12.36	
2,3,4,6-Tetrachlorophenol	1	0		8.43	54.96	50	20	0.01	0.336	0.369	9.93	
Fluorene	1	0		8.63	52.56	50	20	0.9	1.468	1.544	5.13	
4-Chlorophenyl-phenylether	1	0		8.63	51.05	50	20	0.4	0.706	0.721	2.10	
Diethylphthalate	1	0		8.51	52.81	50	20	0.01	1.392	1.470	5.61	
4-Nitroaniline	1	0		8.64	56.54	50	20	0.01	0.398	0.450	13.08	
Atrazine	1	0		9.27	55.66	50	20	0.01	0.369	0.411	11.31	
Phenanthrene-d10	1	0	I	9.58	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.67	54.25	50	20	0.01	0.126	0.130	8.51	
n-Nitrosodiphenylamine	1	0		8.74	50.82	50	20	0.01	0.688	0.700	1.64	
2,4,6-Tribromophenol	1	0	S	8.86	54.20	50	**		0.135	0.144	8.40	
1,2-Diphenylhydrazine	1	0		8.78	47.08	50	**		0.937	0.882	5.84	
4-Bromophenyl-phenylether	1	0		9.10	49.71	50	20	0.1	0.235	0.233	0.59	
Hexachlorobenzene	1	0		9.18	49.51	50	20	0.1	0.279	0.276	0.98	
N-Octadecane	1	0		9.45	52.67	50	**	0.05	0.562	0.592	5.33	
Pentachlorophenol	1	0		9.37	54.16	50	20	0.05	0.161	0.166	8.33	
Phenanthrene	1	0		9.60	50.71	50	20	0.7	1.155	1.171	1.43	
Anthracene	1	0		9.66	52.10	50	20	0.7	1.153	1.201	4.19	
Carbazole	1	0		9.82	52.68	50	20	0.01	1.154	1.216	5.36	
Di-n-butylphthalate	1	0		10.21	55.52	50	20	0.01	1.230	1.466	11.04	
Fluoranthene	1	0		10.92	54.12	50	20	0.6	1.273	1.378	8.23	
Chrysene-d12	1	0	I	12.60	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.18	51.91	50	20	0.6	1.238	1.285	3.81	
Benzidine	1	0		11.07	49.29	50	**		0.466	0.514	1.43	
Terphenyl-d14	1	0	S	11.37	24.90	25	**		0.863	0.859	0.40	
4,4'-DDE	1	0		11.30	49.84		**		0.268			
4,4'-DDD	1	0		11.70	52.69		**		0.418			
Butylbenzylphthalate	1	0		11.96	55.28	50	20	0.01	0.550	0.623	10.56	
4,4'-DDT	1	0		12.06	51.30		**		0.403			
3,3'-Dichlorobenzidine	1	0		12.57	60.09	50	20	0.01	0.358	0.474	20.17	
Benzo[a]anthracene	1	0		12.59	51.99	50	20	0.8	1.177	1.224	3.99	
Chrysene	1	0		12.63	50.39	50	20	0.7	1.064	1.072	0.78	
bis(2-Ethylhexyl)phthalate	1	0		12.65	54.82	50	20	0.01	0.692	0.781	9.65	
Perylene-d12	1	0	I	14.20	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.39	56.53	50	20	0.01	1.312	1.543	13.07	
Benzo[b]fluoranthene	1	0		13.80	52.63	50	20	0.7	1.195	1.258	5.26	
Benzo[k]fluoranthene	1	0		13.83	52.19	50	20	0.7	1.195	1.248	4.38	
Benzo[a]pyrene	1	0		14.14	52.58	50	20	0.7	1.143	1.202	5.16	
Indeno[1,2,3-cd]pyrene	1	0		15.45	51.85	50	20	0.5	1.310	1.359	3.69	
Dibenzo[a,h]anthracene	1	0		15.46	52.30	50	20	0.4	1.085	1.135	4.61	
Benzo[g,h,i]perylene	1	0		15.80	51.38	50	20	0.5	1.083	1.113	2.76	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.986	0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M44241.D **Instrument:** GCMS 10

Cont Calibration Date/Time 5/23/2014 9:17:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.530	0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

4052101 0795

SampleID : CAL BNA@50PPM
Data File: 10M44241.D
Acq On : 05/23/14 09:17

Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA

Qt Meth : 10M_0519.M
Qt On : 05/23/14 09:39
Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	77014	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	303189	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	177677	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	330838	40.00	ng	0.00
88) Chrysene-d12	12.603	240	354803	40.00	ng	0.00
100) Perylene-d12	14.197	264	329706	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	153074	52.23	ng	0.00
Spiked Amount 100.000			Recovery = 52.23%			
15) Phenol-d5	5.403	99	220954	53.30	ng	0.00
Spiked Amount 100.000			Recovery = 53.30%			
30) Nitrobenzene-d5	6.168	128	36488	25.99	ng	0.00
Spiked Amount 50.000			Recovery = 51.98%			
52) 2-Fluorobiphenyl	7.559	172	162565	24.83	ng	0.00
Spiked Amount 50.000			Recovery = 49.66%			
77) 2,4,6-Tribromophenol	8.864	330	59419	54.20	ng	0.00
Spiked Amount 100.000			Recovery = 54.20%			
91) Terphenyl-d14	11.367	244	190501	24.90	ng	0.00
Spiked Amount 50.000			Recovery = 49.80%			
Target Compounds						Qvalue
8) Pyridine	2.916	79	192101	51.1551	ng	71
9) N-Nitrosodimethylamine	2.847	74	118227	52.3918	ng	75
11) Benzaldehyde	5.339	77	99095	44.1113	ng	79
12) Aniline	5.436	93	249801	54.6939	ng	69
13) Pentachloroethane	5.478	117	57496	51.6146	ng	87
14) bis(2-Chloroethyl)ether	5.494	93	162107	52.1303	ng	84
16) Phenol	5.419	94	236013	53.0635	ng	80
17) 2-Chlorophenol	5.537	128	160302	52.4461	ng	83
18) N-Decane	5.591	57	167750	51.2940	ng	85
19) 1,3-Dichlorobenzene	5.671	146	164655	50.7509	ng	97
20) 1,4-Dichlorobenzene	5.735	146	165494	50.8028	ng	98
21) 1,2-Dichlorobenzene	5.858	146	157919	51.1748	ng	98
22) Benzyl alcohol	5.837	108	110844	52.9753	ng	70
23) bis(2-chloroisopropyl)...	5.949	45	227630	51.9478	ng	93
24) 2-Methylphenol	5.928	108	152922	54.5406	ng	96
25) Acetophenone	6.051	105	225835	54.4341	ng	74
26) Hexachloroethane	6.136	117	61170	50.4513	ng	84
27) N-Nitroso-di-n-propyla...	6.051	70	121349	56.9102	ng	72
28) 3&4-Methylphenol	6.051	108	160773	57.4900	ng	97
31) Nitrobenzene	6.184	77	166344	51.7644	ng	82
32) Isophorone	6.377	82	313489	53.5481	ng	86
33) 2-Nitrophenol	6.436	139	84462	56.1612	ng	85
34) 2,4-Dimethylphenol	6.468	107	158781	53.8571	ng	89
35) Benzoic Acid	6.548	105	89743	56.2041	ng	86
36) bis(2-Chloroethoxy)met...	6.537	93	196463	51.3150	ng	97
37) 2,4-Dichlorophenol	6.618	162	128179	55.8123	ng	90
38) 1,2,4-Trichlorobenzene	6.687	180	132818	50.4220	ng	98
39) Naphthalene	6.746	128	451008m	51.3901	ng	
40) 4-Chloroaniline	6.783	127	192224m	53.2804	ng	
41) Hexachlorobutadiene	6.837	225	69592	49.5549	ng	97
42) Caprolactam	7.056	113	62055	57.1076	ng	69
43) 4-Chloro-3-methylphenol	7.147	107	141272	54.0880	ng	80
44) 2-Methylnaphthalene	7.275	142	308714	53.0991	ng	99
45) Methylnaphthalenes (To...	7.275	142	611762m	52.7420	ng	
46) 1,1'-Biphenyl	7.644	154	375282	52.8195	ng	97
48) 1,2,4,5-Tetrachloroben...	7.409	216	138091	48.8881	ng	98
49) Hexachlorocyclopentadiene	7.398	237	64737	46.4306	ng	99
50) 2,4,6-Trichlorophenol	7.495	196	91831	52.8805	ng	100
51) 2,4,5-Trichlorophenol	7.527	196	94589	54.6437	ng	100
53) 2-Chloronaphthalene	7.666	162	270667	49.6017	ng	92
54) 1,4-Dimethylnaphthalene	7.944	156	220973	50.4781	ng	86
55) Dimethylnaphthalenes (...	7.944	156	220973	50.4781	ng	86
56) Diphenyl Ether	7.730	170	207305	49.3606	ng	75
57) 2-Nitroaniline	7.741	65	107890	54.1757	ng	59
58) Coumarin	7.923	146	128865	52.4400	ng	85
59) Acenaphthylene	8.019	152	444816	51.6693	ng	100
60) Dimethylphthalate	7.891	163	326255	51.9270	ng	98
61) 2,6-Dinitrotoluene	7.944	165	73048	54.3354	ng	59
62) Acenaphthene	8.169	153	288763	51.1010	ng	98
63) 3-Nitroaniline	8.088	138	93268	59.4724	ng	79
64) 2,4-Dinitrophenol	8.179	184	36298	52.3718	ng	40
65) Dibenzofuran	8.318	168	406312	51.3752	ng	85

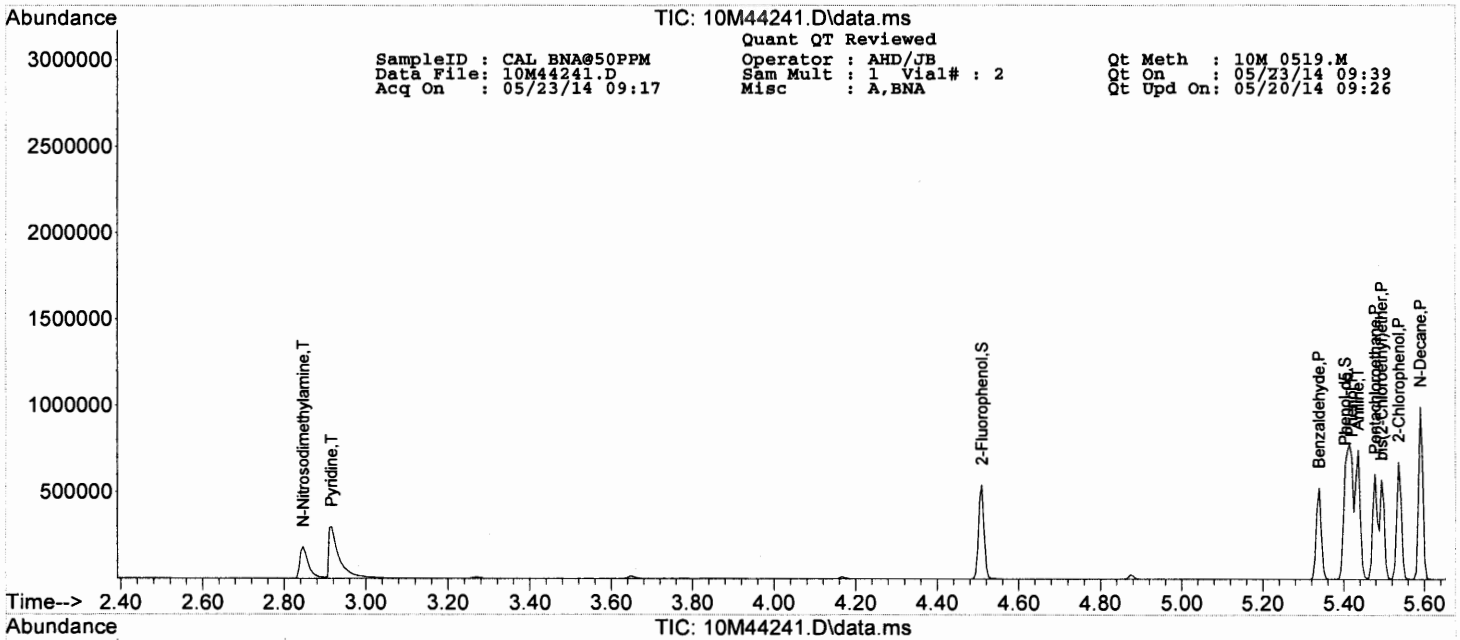
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM
Data File: 10M44241.D
Acq On : 05/23/14 09:17
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M_0519.M
Qt On : 05/23/14 09:39
Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.292	165	101827	55.4292	ng	69
67)	4-Nitrophenol	8.217	65	67255	56.1787	ng	96
68)	2,3,4,6-Tetrachlorophenol	8.425	232	81946	54.9637	ng	83
69)	Fluorene	8.634	166	342855	52.5629	ng	98
70)	4-Chlorophenyl-phenyle...	8.629	204	160049	51.0483	ng	81
71)	Diethylphthalate	8.511	149	326566	52.8067	ng	96
72)	4-Nitroaniline	8.645	138	99868	56.5422	ng	68
73)	Atrazine	9.265	200	91219	55.6572	ng	93
75)	4,6-Dinitro-2-methylph...	8.671	198	53771	54.2538	ng	63
76)	n-Nitrosodiphenylamine	8.736	169	289342	50.8219	ng	99
78)	1,2-Diphenylhydrazine	8.778	77	364813	47.0786	ng	88
79)	4-Bromophenyl-phenylether	9.105	248	96438	49.7066	ng	84
80)	Hexachlorobenzene	9.180	284	114203	49.5121	ng	56
81)	N-Octadecane	9.447	57	244860	52.6659	ng	80
82)	Pentachlorophenol	9.372	266	68579	54.1635	ng	96
83)	Phenanthrene	9.602	178	484276	50.7126	ng	100
84)	Anthracene	9.656	178	496697	52.0967	ng	99
85)	Carbazole	9.821	167	502825	52.6799	ng	98
86)	Di-n-butylphthalate	10.207	149	606368	55.5194	ng	97
87)	Fluoranthene	10.918	202	570012	54.1174	ng	98
89)	Pyrene	11.180	202	569958	51.9073	ng	95
90)	Benzidine	11.068	184	227982	49.2873	ng	94
92)	4,4'-DDE	11.303	246	118380	49.8430	ng	85
93)	4,4'-DDD	11.699	235	195296	52.6884	ng	96
94)	Butylbenzylphthalate	11.956	149	276277	55.2782	ng	74
95)	4,4'-DDT	12.057	235	183435	51.3019	ng	99
96)	3,3'-Dichlorobenzidine	12.565	252	210414m	60.0852	ng	
97)	Benzo[a]anthracene	12.592	228	542795	51.9930	ng	99
98)	Chrysene	12.635	228	475471	50.3876	ng	99
99)	bis(2-Ethylhexyl)phtha...	12.651	149	346595	54.8244	ng	91
101)	Di-n-octylphthalate	13.394	149	635738	56.5334	ng	100
102)	Benzo[b]fluoranthene	13.795	252	518435	52.6296	ng	97
103)	Benzo[k]fluoranthene	13.828	252	514275m	52.1917	ng	
104)	Benzo[a]pyrene	14.138	252	495359	52.5800	ng	95
105)	Indeno[1,2,3-cd]pyrene	15.448	276	560012	51.8471	ng	86
106)	Dibenzo[a,h]anthracene	15.464	278	467963	52.3030	ng	90
107)	Benzo[g,h,i]perylene	15.796	276	458500	51.3797	ng	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed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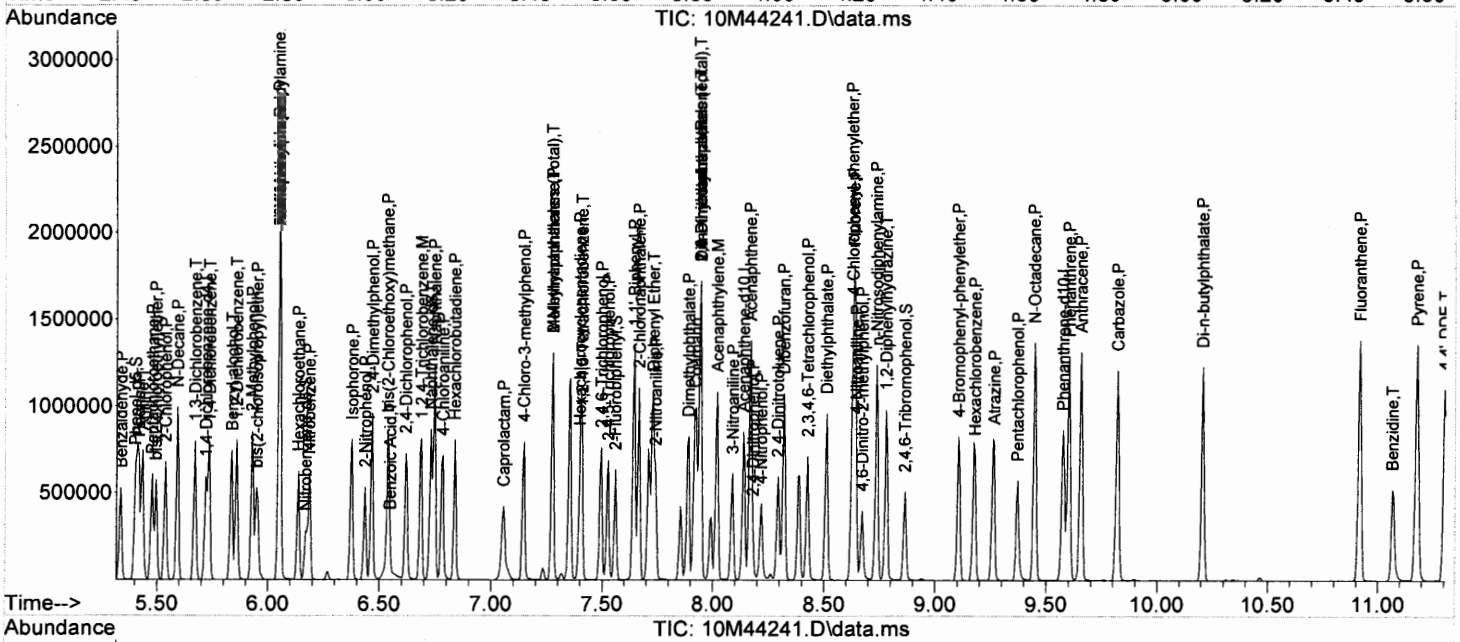
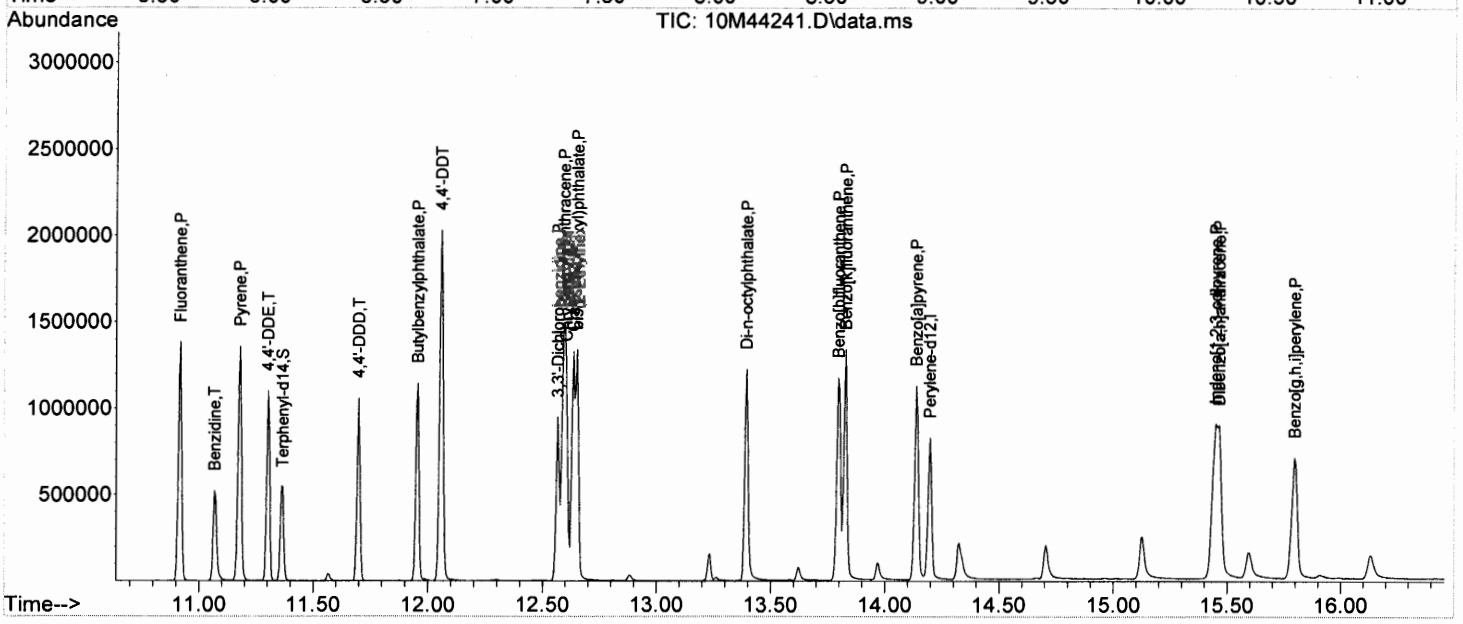
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 10M44241.D
Acq On : 05/23/14 09:17
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/23/14 09:39
Qt Upd On: 05/20/14 09:26
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44241.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
Benzoic Acid,P
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene,P
2,4-Dinitrophenol,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4,6-Dinitro-2-methylphenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M44241.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Chrysene,P
bis(2-Ethylhexyl)phthalate,P
Di-n-octylphthalate,P
Benzo[b]fluoranthene,P
Benzo[k]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Dibenz[a,h]anthracene,P
Benzo[g,h,i]perylene,P
Time-->

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M44278.D **Instrument:** GCMS 10

Cont Calibration Date/Time 5/27/2014 9:02:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dichlorobenzene-d4	1	0	I	5.72	40.00	40	**			0.000	0.00	
Pyridine	1	0		2.91	48.87	50	**		1.950	1.907	2.25	
N-Nitrosodimethylamine	1	0		2.84	49.96	50	**		1.172	1.171	0.08	
2-Fluorophenol	1	0	S	4.50	49.84	50	**		1.522	1.517	0.33	
Benzaldehyde	1	0		5.33	41.48	50	20	0.01	1.167	0.968	17.05	
Aniline	1	0		5.44	56.79	50	**		2.260	2.697	13.59	
Pentachloroethane	1	0		5.48	46.83	50	**	0.05	0.579	0.542	6.34	
bis(2-Chloroethyl)ether	1	0		5.49	52.96	50	20	0.7	1.615	1.711	5.93	
Phenol-d5	1	0	S	5.40	55.97	50	**		2.153	2.410	11.94	
Phenol	1	0		5.41	55.98	50	20	0.8	2.310	2.587	11.97	
2-Chlorophenol	1	0		5.54	52.87	50	20	0.8	1.588	1.679	5.74	
N-Decane	1	0		5.59	45.29	50	**	0.05	1.699	1.539	9.42	
1,3-Dichlorobenzene	1	0		5.67	48.64	50	**		1.685	1.639	2.72	
1,4-Dichlorobenzene	1	0		5.74	48.90	50	20		1.692	1.655	2.19	
1,2-Dichlorobenzene	1	0		5.86	49.81	50	**		1.603	1.597	0.39	
Benzyl alcohol	1	0		5.83	56.10	50	**		1.087	1.219	12.20	
bis(2-chloroisopropyl)ether	1	0		5.95	53.21	50	20	0.01	2.276	2.422	6.41	
2-Methylphenol	1	0		5.93	57.99	50	20	0.7	1.456	1.689	15.98	
Acetophenone	1	0		6.05	58.12	50	20	0.01	2.155	2.505	16.24	
Hexachloroethane	1	0		6.14	48.33	50	20	0.3	0.630	0.609	3.35	
N-Nitroso-di-n-propylamine	1	0		6.05	62.12	50	20	0.5	1.107	1.376	24.24	C1
3&4-Methylphenol	1	0		6.05	62.18	50	20		1.452	1.806	24.36	C1
Naphthalene-d8	1	0	I	6.73	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.17	24.84	25	**		0.185	0.184	0.66	
Nitrobenzene	1	0		6.18	49.97	50	20	0.2	0.424	0.424	0.06	
Isophorone	1	0		6.37	53.64	50	20	0.4	0.772	0.829	7.29	
2-Nitrophenol	1	0		6.44	53.67	50	20	0.1	0.202	0.212	7.34	
2,4-Dimethylphenol	1	0		6.47	53.53	50	20	0.2	0.389	0.416	7.06	
Benzoic Acid	1	0		6.55	50.14	50	**		0.214	0.206	0.29	
bis(2-Chloroethoxy)methane	1	0		6.54	50.56	50	20	0.3	0.505	0.511	1.13	
2,4-Dichlorophenol	1	0		6.62	54.64	50	20	0.2	0.303	0.331	9.28	
1,2,4-Trichlorobenzene	1	0		6.69	47.77	50	**		0.348	0.332	4.46	
Naphthalene	1	0		6.75	49.74	50	20	0.7	1.158	1.152	0.53	
4-Chloroaniline	1	0		6.78	53.65	50	20	0.01	0.401	0.510	7.30	
Hexachlorobutadiene	1	0		6.84	45.34	50	20	0.01	0.185	0.168	9.33	
Caprolactam	1	0		7.06	61.74	50	20	0.01	0.142	0.178	23.48	C1
4-Chloro-3-methylphenol	1	0		7.15	56.70	50	20	0.2	0.345	0.391	13.40	
2-Methylnaphthalene	1	0		7.28	53.09	50	**	0.4	0.767	0.814	6.17	
Methylnaphthalenes	1	0		7.28	53.23	50	20			1.629	6.46	
1,1'-Biphenyl	1	0		7.64	54.41	50	20	0.01	0.937	1.020	8.82	
Acenaphthene-d10	1	0	I	8.14	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.41	44.87	50	20	0.01	0.636	0.571	10.26	
Hexachlorocyclopentadiene	1	0		7.40	40.61	50	20	0.05	0.324	0.252	18.77	
2,4,6-Trichlorophenol	1	0		7.49	49.68	50	20	0.2	0.391	0.388	0.65	
2,4,5-Trichlorophenol	1	0		7.53	51.74	50	20	0.2	0.390	0.403	3.48	
2-Fluorobiphenyl	1	0	S	7.56	23.00	25	**		1.474	1.356	7.98	
2-Chloronaphthalene	1	0		7.67	46.58	50	20	0.8	1.228	1.145	6.83	
1,4-Dimethylnaphthalene	1	0		7.94	48.30	50	**		0.986	0.952	3.39	
Dimethylnaphthalenes	1	0		7.94	48.30	50	20			0.952	3.39	
Diphenyl Ether	1	0		7.73	46.02	50	**		0.945	0.870	7.95	
2-Nitroaniline	1	0		7.74	52.04	50	20	0.01	0.448	0.467	4.07	
Coumarin	1	0		7.92	51.94		**		0.553			

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M44278.D **Instrument:** GCMS 10

Cont Calibration Date/Time 5/27/2014 9:02:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Acenaphthylene	1	0		8.02	49.21	50	20	0.9	1.938	1.907	1.58	
Dimethylphthalate	1	0		7.89	50.71	50	20	0.01	1.414	1.435	1.42	
2,6-Dinitrotoluene	1	0		7.94	53.98	50	20	0.2	0.303	0.327	7.95	
Acenaphthene	1	0		8.17	49.08	50	20	0.9	1.272	1.249	1.85	
3-Nitroaniline	1	0		8.09	59.79	50	20	0.01	0.353	0.422	19.58	
2,4-Dinitrophenol	1	0		8.18	55.29	50	20	0.01	0.164	0.174	10.59	
Dibenzofuran	1	0		8.32	49.69	50	20	0.8	1.780	1.770	0.62	
2,4-Dinitrotoluene	1	0		8.29	55.11	50	20	0.2	0.416	0.456	10.21	
4-Nitrophenol	1	0		8.22	60.17	50	20	0.01	0.260	0.325	20.34	
2,3,4,6-Tetrachlorophenol	1	0		8.43	53.65	50	20	0.01	0.336	0.360	7.30	
Fluorene	1	0		8.63	51.44	50	20	0.9	1.468	1.511	2.88	
4-Chlorophenyl-phenylether	1	0		8.63	49.79	50	20	0.4	0.706	0.703	0.43	
Diethylphthalate	1	0		8.51	52.47	50	20	0.01	1.392	1.461	4.93	
4-Nitroaniline	1	0		8.64	56.65	50	20	0.01	0.398	0.450	13.29	
Atrazine	1	0		9.27	56.31	50	20	0.01	0.369	0.416	12.62	
Phenanthrene-d10	1	0	I	9.58	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.67	52.85	50	20	0.01	0.126	0.126	5.70	
n-Nitrosodiphenylamine	1	0		8.74	47.57	50	20	0.01	0.688	0.655	4.86	
2,4,6-Tribromophenol	1	0	S	8.86	51.10	50	**		0.135	0.135	2.20	
1,2-Diphenylhydrazine	1	0		8.78	44.22	50	**		0.937	0.829	11.56	
4-Bromophenyl-phenylether	1	0		9.10	46.83	50	20	0.1	0.235	0.220	6.35	
Hexachlorobenzene	1	0		9.17	46.93	50	20	0.1	0.279	0.262	6.14	
N-Octadecane	1	0		9.45	49.17	50	**	0.05	0.562	0.553	1.66	
Pentachlorophenol	1	0		9.37	52.76	50	20	0.05	0.161	0.161	5.53	
Phenanthrene	1	0		9.60	48.61	50	20	0.7	1.155	1.122	2.79	
Anthracene	1	0		9.66	49.81	50	20	0.7	1.153	1.148	0.38	
Carbazole	1	0		9.82	52.03	50	20	0.01	1.154	1.201	4.07	
Di-n-butylphthalate	1	0		10.21	54.18	50	20	0.01	1.230	1.430	8.35	
Fluoranthene	1	0		10.92	53.98	50	20	0.6	1.273	1.375	7.96	
Chrysene-d12	1	0	I	12.60	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.18	47.59	50	20	0.6	1.238	1.178	4.82	
Benzidine	1	0		11.07	47.10	50	**		0.466	0.490	5.81	
Terphenyl-d14	1	0	S	11.37	23.29	25	**		0.863	0.804	6.83	
4,4'-DDE	1	0		11.30	46.28		**		0.268			
4,4'-DDD	1	0		11.70	49.83		**		0.418			
Butylbenzylphthalate	1	0		11.96	51.08	50	20	0.01	0.550	0.573	2.16	
4,4'-DDT	1	0		12.05	49.11		**		0.403			
3,3'-Dichlorobenzidine	1	0		12.57	55.27	50	20	0.01	0.358	0.437	10.55	
Benzo[a]anthracene	1	0		12.59	49.43	50	20	0.8	1.177	1.164	1.13	
Chrysene	1	0		12.63	47.94	50	20	0.7	1.064	1.020	4.12	
bis(2-Ethylhexyl)phthalate	1	0		12.65	51.46	50	20	0.01	0.692	0.732	2.93	
Perylene-d12	1	0	I	14.20	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.39	49.57	50	20	0.01	1.312	1.344	0.86	
Benzo[b]fluoranthene	1	0		13.80	48.64	50	20	0.7	1.195	1.163	2.71	
Benzo[k]fluoranthene	1	0		13.83	49.25	50	20	0.7	1.195	1.178	1.50	
Benzo[a]pyrene	1	0		14.14	50.67	50	20	0.7	1.143	1.158	1.33	
Indeno[1,2,3-cd]pyrene	1	0		15.45	52.76	50	20	0.5	1.310	1.383	5.53	
Dibenzo[a,h]anthracene	1	0		15.47	52.81	50	20	0.4	1.085	1.146	5.61	
Benzo[g,h,i]perylene	1	0		15.80	52.80	50	20	0.5	1.083	1.143	5.61	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.986	0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M44278.D **Instrument:** GCMS 10

Cont Calibration Date/Time 5/27/2014 9:02:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.530	0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

4052101 0801

SampleID : CAL BNA@50PPM
Data File: 10M44278.D
Acq On : 05/27/14 09:02

Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA

Qt Meth : 10M_0519.M
Qt On : 05/27/14 09:21
Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	68248	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	297879	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	190986	40.00	ng	0.00
74) Phenanthrene-d10	9.576	188	375460	40.00	ng	0.00
88) Chrysene-d12	12.603	240	437118	40.00	ng	0.00
100) Perylene-d12	14.197	264	436172	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.505	112	129436	49.84	ng	0.00
Spiked Amount 100.000			Recovery = 49.84%			
15) Phenol-d5	5.404	99	205627	55.97	ng	0.00
Spiked Amount 100.000			Recovery = 55.97%			
30) Nitrobenzene-d5	6.168	128	34251	24.84	ng	0.00
Spiked Amount 50.000			Recovery = 49.68%			
52) 2-Fluorobiphenyl	7.559	172	161864	23.00	ng	0.00
Spiked Amount 50.000			Recovery = 46.00%			
77) 2,4,6-Tribromophenol	8.864	330	63175	51.10	ng	0.00
Spiked Amount 100.000			Recovery = 51.10%			
91) Terphenyl-d14	11.367	244	219549	23.29	ng	0.00
Spiked Amount 50.000			Recovery = 46.58%			
Target Compounds						Qvalue
8) Pyridine	2.911	79	162646	48.8745	ng	73
9) N-Nitrosodimethylamine	2.842	74	99902	49.9575	ng	74
11) Benzaldehyde	5.334	77	82571	41.4768	ng	83
12) Aniline	5.436	93	230089	56.7929	ng	69
13) Pentachloroethane	5.478	117	46230	46.8315	ng	86
14) bis(2-Chloroethyl)ether	5.495	93	145951	52.9633	ng	82
16) Phenol	5.414	94	220655	55.9827	ng	82
17) 2-Chlorophenol	5.537	128	143201	52.8689	ng	82
18) N-Decane	5.591	57	131259	45.2911	ng	84
19) 1,3-Dichlorobenzene	5.671	146	139839	48.6381	ng	98
20) 1,4-Dichlorobenzene	5.735	146	141178	48.9048	ng	98
21) 1,2-Dichlorobenzene	5.858	146	136203	49.8068	ng	99
22) Benzyl alcohol	5.831	108	104017	56.0977	ng	75
23) bis(2-chloroisopropyl)...	5.949	45	206611	53.2073	ng	94
24) 2-Methylphenol	5.928	108	144082	57.9882	ng	96
25) Acetophenone	6.051	105	213675	58.1183	ng	75
26) Hexachloroethane	6.136	117	51924	48.3261	ng	85
27) N-Nitroso-di-n-propyla...	6.051	70	117379	62.1190	ng	70
28) 3&4-Methylphenol	6.051	108	154093	62.1788	ng	98
31) Nitrobenzene	6.184	77	157772	49.9721	ng	82
32) Isophorone	6.372	82	308542	53.6426	ng	91
33) 2-Nitrophenol	6.436	139	79000	53.6704	ng	84
34) 2,4-Dimethylphenol	6.468	107	155053	53.5301	ng	90
35) Benzoic Acid	6.548	105	76661	50.1437	ng	87
36) bis(2-Chloroethoxy)met...	6.537	93	190195	50.5633	ng	97
37) 2,4-Dichlorophenol	6.618	162	123291	54.6409	ng	89
38) 1,2,4-Trichlorobenzene	6.687	180	123628	47.7698	ng	97
39) Naphthalene	6.746	128	428858m	49.7373	ng	
40) 4-Chloroaniline	6.778	127	190042m	53.6509	ng	
41) Hexachlorobutadiene	6.837	225	62552	45.3359	ng	97
42) Caprolactam	7.056	113	66322	61.7383	ng	69
43) 4-Chloro-3-methylphenol	7.147	107	145499	56.6994	ng	78
44) 2-Methylnaphthalene	7.276	142	303238	53.0870	ng	100
45) Methylnaphthalenes (To...	7.276	142	606629m	53.2318	ng	
46) 1,1'-Biphenyl	7.645	154	379814	54.4103	ng	96
48) 1,2,4,5-Tetrachloroben...	7.409	216	136237	44.8707	ng	99
49) Hexachlorocyclopentadiene	7.399	237	60182	40.6131	ng	98
50) 2,4,6-Trichlorophenol	7.495	196	92728	49.6760	ng	97
51) 2,4,5-Trichlorophenol	7.527	196	96269	51.7387	ng	98
53) 2-Chloronaphthalene	7.666	162	273239	46.5837	ng	92
54) 1,4-Dimethylnaphthalene	7.944	156	227296	48.3043	ng	86
55) Dimethylnaphthalenes (...	7.944	156	227296	48.3043	ng	86
56) Diphenyl Ether	7.730	170	207774	46.0248	ng	77
57) 2-Nitroaniline	7.741	65	111392	52.0364	ng	58
58) Coumarin	7.923	146	137206	51.9435	ng	85
59) Acenaphthylene	8.019	152	455376	49.2099	ng	99
60) Dimethylphthalate	7.891	163	342478	50.7105	ng	98
61) 2,6-Dinitrotoluene	7.944	165	78000	53.9757	ng	60
62) Acenaphthene	8.169	153	298099	49.0770	ng	98
63) 3-Nitroaniline	8.089	138	100792	59.7914	ng	77
64) 2,4-Dinitrophenol	8.180	184	41581	55.2936	ng	39
65) Dibenzofuran	8.319	168	422439	49.6921	ng	85

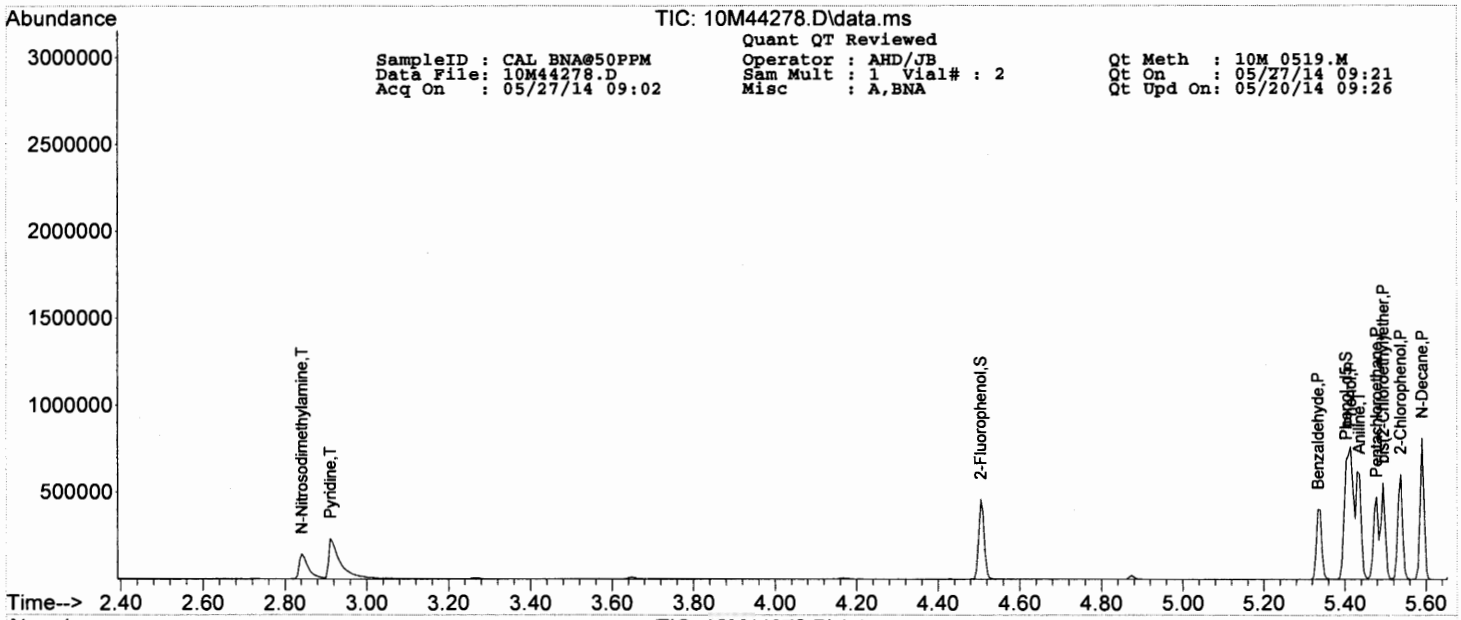
Quantitation Report (QT Reviewed)

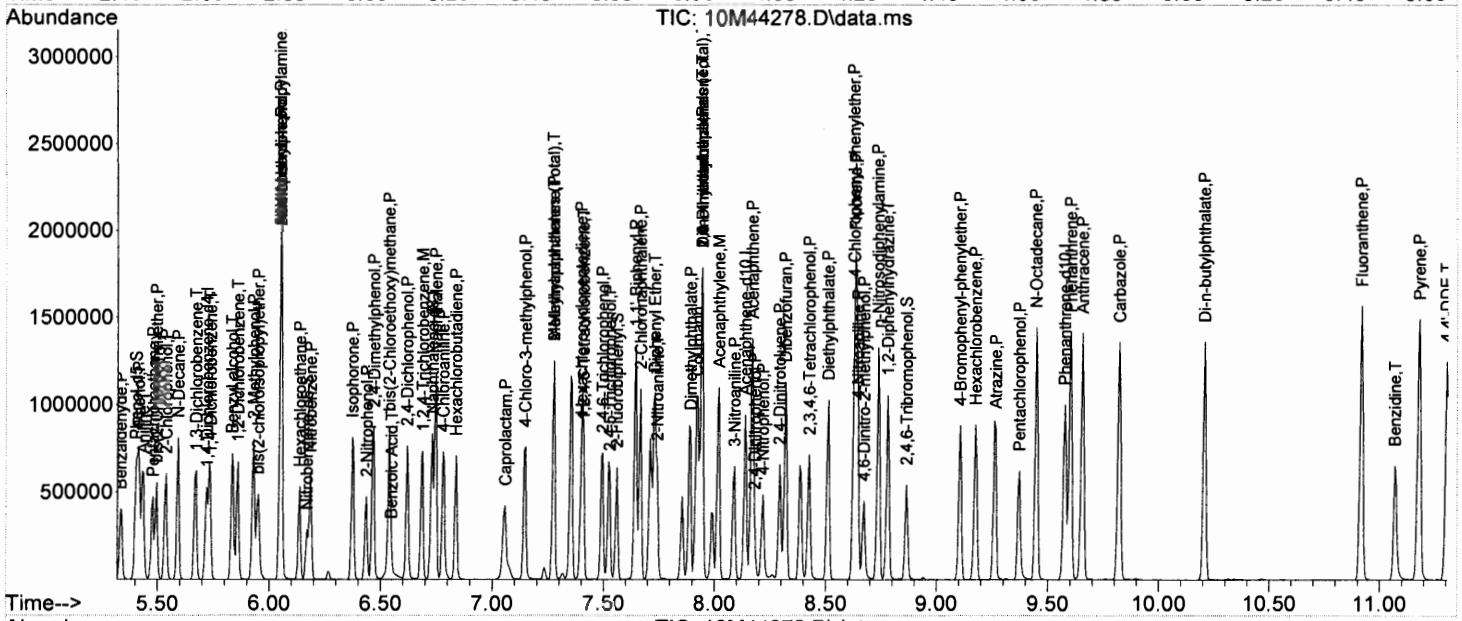
SampleID : CAL BNA@50PPM
Data File: 10M44278.D
Acq On : 05/27/14 09:02
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M_0519.M
Qt On : 05/27/14 09:21
Qt Upd On: 05/20/14 09:26

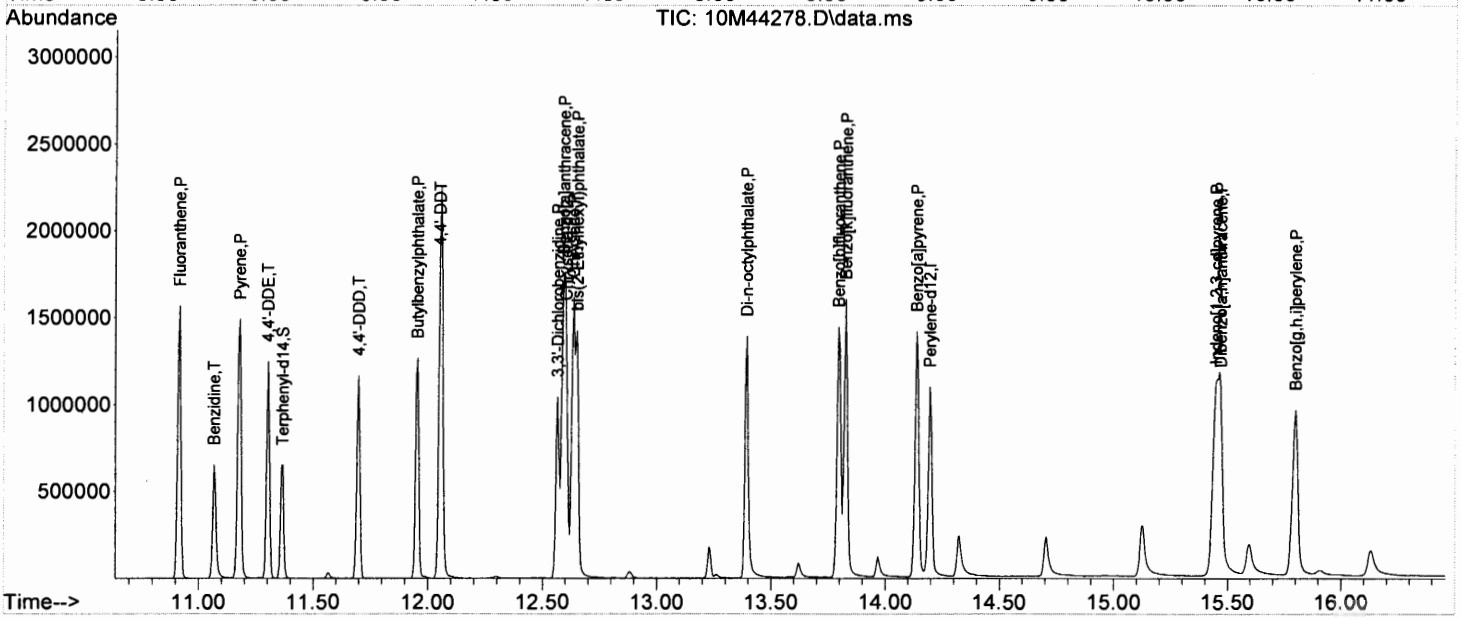
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.292	165	108773	55.1065	ng	70
67)	4-Nitrophenol	8.217	65	77694	60.1677	ng	98
68)	2,3,4,6-Tetrachlorophenol	8.426	232	85978	53.6494	ng	83
69)	Fluorene	8.634	166	360672	51.4411	ng	98
70)	4-Chlorophenyl-phenyle...	8.629	204	167784	49.7861	ng	81
71)	Diethylphthalate	8.511	149	348773	52.4675	ng	96
72)	4-Nitroaniline	8.645	138	107545	56.6456	ng	70
73)	Atrazine	9.265	200	99202	56.3101	ng	94
75)	4,6-Dinitro-2-methylph...	8.672	198	59231	52.8485	ng	64
76)	n-Nitrosodiphenylamine	8.736	169	307346	47.5685	ng	99
78)	1,2-Diphenylhydrazine	8.779	77	388877	44.2198	ng	87
79)	4-Bromophenyl-phenylether	9.105	248	103102	46.8257	ng	84
80)	Hexachlorobenzene	9.174	284	122841	46.9276	ng	63
81)	N-Octadecane	9.447	57	259453	49.1724	ng	80
82)	Pentachlorophenol	9.372	266	75540	52.7628	ng	95
83)	Phenanthrene	9.602	178	526775	48.6071	ng	100
84)	Anthracene	9.656	178	538973	49.8123	ng	99
85)	Carbazole	9.822	167	563650	52.0343	ng	98
86)	Di-n-butylphthalate	10.207	149	670939	54.1766	ng	97
87)	Fluoranthene	10.918	202	645254	53.9803	ng	99
89)	Pyrene	11.180	202	643807	47.5915	ng	95
90)	Benzidine	11.068	184	267919	47.0952	ng	93
92)	4,4'-DDE	11.303	246	135411	46.2773	ng	85
93)	4,4'-DDD	11.699	235	227556	49.8308	ng	95
94)	Butylbenzylphthalate	11.956	149	313070	51.0810	ng	75
95)	4,4'-DDT	12.052	235	216350	49.1131	ng	100
96)	3,3'-Dichlorobenzidine	12.565	252	238818	55.2733	ng	97
97)	Benzo[a]anthracene	12.592	228	635811	49.4340	ng	99
98)	Chrysene	12.635	228	557330	47.9403	ng	100
99)	bis(2-Ethylhexyl)phtha...	12.651	149	399788	51.4627	ng	92
101)	Di-n-octylphthalate	13.394	149	732573	49.5717	ng	100
102)	Benzo[b]fluoranthene	13.796	252	633898	48.6435	ng	97
103)	Benzo[k]fluoranthene	13.828	252	642010m	49.2512	ng	
104)	Benzo[a]pyrene	14.138	252	631458	50.6657	ng	96
105)	Indeno[1,2,3-cd]pyrene	15.448	276	753944	52.7637	ng	100
106)	Dibenzo[a,h]anthracene	15.470	278	625021	52.8055	ng	90
107)	Benzo[g,h,i]perylene	15.801	276	623370	52.8040	ng	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44278.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 10M44278.D
Acq On : 05/27/14 09:02
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/27/14 09:21
Qt Upd On: 05/20/14 09:26
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44278.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Nitrophenol,P
Isophorone,P
Hexachlorobutadiene,P
Acenaphthylene,M
Dimethylphthalate,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M44278.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M57020.D **Instrument:** GCMS 9

Cont Calibration Date/Time 5/27/2014 9:26:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dichlorobenzene-d4	1	0	I	5.87	40.00	40	**			0.000	0.00	
Pyridine	1	0		3.15	46.22	50	**		1.423	1.315	7.55	
N-Nitrosodimethylamine	1	0		3.07	47.04	50	**		0.805	0.758	5.92	
2-Fluorophenol	1	0	S	4.68	46.47	50	**		1.418	1.318	7.06	
Benzaldehyde	1	0		5.49	44.49	50	20	0.01	0.765	0.718	11.03	
Aniline	1	0		5.59	48.97	50	**		1.922	1.883	2.06	
Pentachloroethane	1	0		5.63	47.93	50	**	0.05	0.583	0.559	4.13	
bis(2-Chloroethyl)ether	1	0		5.65	46.51	50	20	0.7	1.274	1.185	6.98	
Phenol-d5	1	0	S	5.56	45.81	50	**		1.842	1.688	8.39	
Phenol	1	0		5.57	45.10	50	20	0.8	1.968	1.775	9.80	
2-Chlorophenol	1	0		5.69	46.62	50	20	0.8	1.617	1.507	6.76	
N-Decane	1	0		5.74	47.78	50	**	0.05	1.048	1.002	4.44	
1,3-Dichlorobenzene	1	0		5.82	47.57	50	**		1.745	1.660	4.86	
1,4-Dichlorobenzene	1	0		5.89	46.58	50	20		1.762	1.641	6.84	
1,2-Dichlorobenzene	1	0		6.01	46.89	50	**		1.653	1.550	6.22	
Benzyl alcohol	1	0		5.98	45.83	50	**		0.946	0.867	8.33	
bis(2-chloroisopropyl)ether	1	0		6.10	45.27	50	20	0.01	1.197	1.084	9.46	
2-Methylphenol	1	0		6.08	44.94	50	20	0.7	1.373	1.234	10.12	
Acetophenone	1	0		6.20	44.45	50	20	0.01	2.290	2.036	11.10	
Hexachloroethane	1	0		6.29	45.92	50	20	0.3	0.666	0.611	8.15	
N-Nitroso-di-n-propylamine	1	0		6.20	44.49	50	20	0.5	1.029	0.915	11.02	
3&4-Methylphenol	1	0		6.20	45.02	50	20		1.485	1.337	9.96	
Naphthalene-d8	1	0	I	6.88	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.32	23.43	25	**		0.190	0.178	6.28	
Nitrobenzene	1	0		6.34	46.02	50	20	0.2	0.387	0.356	7.95	
Isophorone	1	0		6.52	45.64	50	20	0.4	0.680	0.621	8.72	
2-Nitrophenol	1	0		6.59	47.92	50	20	0.1	0.234	0.224	4.17	
2,4-Dimethylphenol	1	0		6.61	47.04	50	20	0.2	0.410	0.386	5.93	
Benzoic Acid	1	0		6.68	43.62	50	**		0.176	0.092	12.75	
bis(2-Chloroethoxy)methane	1	0		6.69	45.63	50	20	0.3	0.410	0.374	8.74	
2,4-Dichlorophenol	1	0		6.77	48.79	50	20	0.2	0.342	0.334	2.42	
1,2,4-Trichlorobenzene	1	0		6.84	47.77	50	**		0.385	0.367	4.45	
Naphthalene	1	0		6.90	47.11	50	20	0.7	1.184	1.116	5.79	
4-Chloroaniline	1	0		6.93	49.93	50	20	0.01	0.439	0.438	0.14	
Hexachlorobutadiene	1	0		6.99	46.78	50	20	0.01	0.232	0.217	6.43	
Caprolactam	1	0		7.21	47.80	50	20	0.01	0.138	0.132	4.40	
4-Chloro-3-methylphenol	1	0		7.30	46.34	50	20	0.2	0.365	0.338	7.33	
2-Methylnaphthalene	1	0		7.44	47.42	50	**	0.4	0.826	0.783	5.15	
Methylnaphthalenes	1	0		7.44	47.35	50	20			1.551	5.31	
1,1'-Biphenyl	1	0		7.81	46.33	50	20	0.01	1.035	0.959	7.33	
Acenaphthene-d10	1	0	I	8.32	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.57	47.67	50	20	0.01	0.718	0.685	4.65	
Hexachlorocyclopentadiene	1	0		7.56	43.90	50	20	0.05	0.306	0.264	12.21	
2,4,6-Trichlorophenol	1	0		7.66	46.91	50	20	0.2	0.459	0.431	6.18	
2,4,5-Trichlorophenol	1	0		7.69	49.92	50	20	0.2	0.449	0.448	0.16	
2-Fluorobiphenyl	1	0	S	7.73	24.24	25	**		1.493	1.448	3.05	
2-Chloronaphthalene	1	0		7.84	47.23	50	20	0.8	1.270	1.200	5.53	
1,4-Dimethylnaphthalene	1	0		8.12	45.65	50	**		1.053	0.961	8.70	
Dimethylnaphthalenes	1	0		8.12	45.65	50	20			0.961	8.70	
Diphenyl Ether	1	0		7.90	46.14	50	**		1.018	0.939	7.72	
2-Nitroaniline	1	0		7.91	45.87	50	20	0.01	0.462	0.424	8.25	
Coumarin	1	0		8.10	45.97		**		0.570			

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M57020.D **Instrument:** GCMS 9

Cont Calibration Date/Time 5/27/2014 9:26:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Acenaphthylene	1	0		8.20	46.85	50	20	0.9	2.002	1.876	6.30	
Dimethylphthalate	1	0		8.06	47.47	50	20	0.01	1.540	1.462	5.06	
2,6-Dinitrotoluene	1	0		8.12	45.99	50	20	0.2	0.366	0.337	8.02	
Acenaphthene	1	0		8.35	46.63	50	20	0.9	1.367	1.275	6.73	
3-Nitroaniline	1	0		8.27	50.53	50	20	0.01	0.364	0.368	1.05	
2,4-Dinitrophenol	1	0		8.36	45.00	50	20	0.01	0.206	0.169	10.00	
Dibenzofuran	1	0		8.50	47.78	50	20	0.8	1.852	1.770	4.43	
2,4-Dinitrotoluene	1	0		8.48	47.56	50	20	0.2	0.474	0.451	4.89	
4-Nitrophenol	1	0		8.40	43.46	50	20	0.01	0.293	0.255	13.09	
2,3,4,6-Tetrachlorophenol	1	0		8.61	47.44	50	20	0.01	0.406	0.385	5.13	
Fluorene	1	0		8.83	46.90	50	20	0.9	1.603	1.504	6.20	
4-Chlorophenyl-phenylether	1	0		8.81	47.13	50	20	0.4	0.820	0.773	5.74	
Diethylphthalate	1	0		8.69	46.54	50	20	0.01	1.558	1.450	6.93	
4-Nitroaniline	1	0		8.83	47.15	50	20	0.01	0.418	0.394	5.69	
Atrazine	1	0		9.46	46.85	50	20	0.01	0.458	0.429	6.30	
Phenanthrene-d10	1	0	I	9.78	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.86	49.89	50	20	0.01	0.143	0.135	0.22	
n-Nitrosodiphenylamine	1	0		8.92	47.09	50	20	0.01	0.707	0.666	5.82	
2,4,6-Tribromophenol	1	0	S	9.06	48.83	50	**		0.142	0.139	2.34	
1,2-Diphenylhydrazine	1	0		8.97	44.91	50	**		0.766	0.688	10.19	
4-Bromophenyl-phenylether	1	0		9.30	48.07	50	20	0.1	0.268	0.257	3.86	
Hexachlorobenzene	1	0		9.38	48.41	50	20	0.1	0.299	0.289	3.18	
N-Octadecane	1	0		9.64	47.70	50	**	0.05	0.362	0.345	4.61	
Pentachlorophenol	1	0		9.58	49.71	50	20	0.05	0.171	0.155	0.58	
Phenanthrene	1	0		9.81	46.35	50	20	0.7	1.187	1.100	7.30	
Anthracene	1	0		9.87	46.75	50	20	0.7	1.204	1.126	6.49	
Carbazole	1	0		10.03	46.70	50	20	0.01	1.163	1.087	6.60	
Di-n-butylphthalate	1	0		10.41	48.00	50	20	0.01	1.427	1.370	4.00	
Fluoranthene	1	0		11.14	47.02	50	20	0.6	1.441	1.355	5.97	
Chrysene-d12	1	0	I	12.84	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.41	49.44	50	20	0.6	1.247	1.233	1.11	
Benzidine	1	0		11.29	47.69	50	**		0.460	0.489	4.62	
Terphenyl-d14	1	0	S	11.59	24.48	25	**		0.893	0.875	2.10	
4,4'-DDE	1	0		11.52	47.89		**		0.297			
4,4'-DDD	1	0		11.92	48.83		**		0.467			
Butylbenzylphthalate	1	0		12.17	47.50	50	20	0.01	0.579	0.551	5.00	
4,4'-DDT	1	0		12.28	47.18		**		0.462			
3,3'-Dichlorobenzidine	1	0		12.79	50.84	50	20	0.01	0.423	0.430	1.67	
Benzo[a]anthracene	1	0		12.82	47.59	50	20	0.8	1.240	1.180	4.82	
Chrysene	1	0		12.87	46.48	50	20	0.7	1.149	1.068	7.04	
bis(2-Ethylhexyl)phthalate	1	0		12.87	45.96	50	20	0.01	0.809	0.744	8.07	
Perylene-d12	1	0	I	14.46	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.62	48.94	50	20	0.01	1.470	1.306	2.11	
Benzo[b]fluoranthene	1	0		14.04	45.83	50	20	0.7	1.305	1.196	8.35	
Benzo[k]fluoranthene	1	0		14.07	46.41	50	20	0.7	1.246	1.157	7.18	
Benzo[a]pyrene	1	0		14.40	46.21	50	20	0.7	1.220	1.127	7.57	
Indeno[1,2,3-cd]pyrene	1	0		15.80	48.21	50	20	0.5	1.380	1.330	3.57	
Dibenzo[a,h]anthracene	1	0		15.82	48.11	50	20	0.4	1.159	1.115	3.79	
Benzo[g,h,i]perylene	1	0		16.19	49.12	50	20	0.5	1.139	1.119	1.75	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.053	0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M57020.D **Instrument:** GCMS 9

Cont Calibration Date/Time 5/27/2014 9:26:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.638	0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

4052101 0807

SampleID : CAL BNA@50PPM
Data File: 9M57020.D
Acq On : 05/27/14 09:26

Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA

Qt Meth : 9M_0521.M
Qt On : 05/27/14 09:41
Qt Upd On: 05/22/14 09:17

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.870	152	75890	40.00	ng	-0.01
29) Naphthalene-d8	6.881	136	286520	40.00	ng	-0.01
47) Acenaphthene-d10	8.320	164	167272	40.00	ng	-0.01
74) Phenanthrene-d10	9.780	188	319372	40.00	ng	-0.02
88) Chrysene-d12	12.840	240	346818	40.00	ng	-0.01
100) Perylene-d12	14.460	264	335714	40.00	ng	-0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.678	112	125048	46.47	ng	0.00
Spiked Amount 100.000			Recovery = 46.47%			
15) Phenol-d5	5.560	99	160117	45.81	ng	0.00
Spiked Amount 100.000			Recovery = 45.81%			
30) Nitrobenzene-d5	6.320	128	31876	23.43	ng	-0.01
Spiked Amount 50.000			Recovery = 46.86%			
52) 2-Fluorobiphenyl	7.726	172	151366	24.24	ng	-0.01
Spiked Amount 50.000			Recovery = 48.48%			
77) 2,4,6-Tribromophenol	9.058	330	55444	48.83	ng	-0.02
Spiked Amount 100.000			Recovery = 48.83%			
91) Terphenyl-d14	11.588	244	189571	24.47	ng	-0.01
Spiked Amount 50.000			Recovery = 48.94%			
Target Compounds						Qvalue
8) Pyridine	3.153	79	124756	46.2233	ng	60
9) N-Nitrosodimethylamine	3.073	74	71878	47.0398	ng	75
11) Benzaldehyde	5.491	77	68147	44.4850	ng	73
12) Aniline	5.587	93	178581	48.9725	ng	79
13) Pentachloroethane	5.630	117	53054	47.9329	ng	74
14) bis(2-Chloroethyl)ether	5.646	93	112425	46.5086	ng	74
16) Phenol	5.571	94	168396	45.0995	ng	94
17) 2-Chlorophenol	5.694	128	142984	46.6211	ng	73
18) N-Decane	5.737	57	95019	47.7816	ng	82
19) 1,3-Dichlorobenzene	5.822	146	157451	47.5719	ng	96
20) 1,4-Dichlorobenzene	5.887	146	155682	46.5819	ng	98
21) 1,2-Dichlorobenzene	6.010	146	147037	46.8881	ng	98
22) Benzyl alcohol	5.983	108	82227	45.8333	ng	80
23) bis(2-chloroisopropyl)...	6.095	45	102787	45.2713	ng	64
24) 2-Methylphenol	6.079	108	117102	44.9404	ng	100
25) Acetophenone	6.202	105	193157	44.4497	ng	70
26) Hexachloroethane	6.288	117	57992	45.9230	ng	89
27) N-Nitroso-di-n-propyla...	6.202	70	86817	44.4877	ng	76
28) 3&4-Methylphenol	6.202	108	126815	45.0217	ng	95
31) Nitrobenzene	6.336	77	127651	46.0247	ng	74
32) Isophorone	6.523	82	222314	45.6393	ng	80
33) 2-Nitrophenol	6.587	139	80255	47.9152	ng	88
34) 2,4-Dimethylphenol	6.614	107	138180	47.0358	ng	93
35) Benzoic Acid	6.678	105	32871	43.6245	ng	88
36) bis(2-Chloroethoxy)met...	6.689	93	134033	45.6278	ng	95
37) 2,4-Dichlorophenol	6.774	162	119615	48.7897	ng	85
38) 1,2,4-Trichlorobenzene	6.839	180	131614	47.7749	ng	98
39) Naphthalene	6.897	128	399663m	47.1055	ng	
40) 4-Chloroaniline	6.935	127	156968m	49.9281	ng	
41) Hexachlorobutadiene	6.988	225	77645	46.7849	ng	98
42) Caprolactam	7.208	113	47108	47.8024	ng	47
43) 4-Chloro-3-methylphenol	7.304	107	121052	46.3354	ng	78
44) 2-Methylnaphthalene	7.438	142	280610	47.4246	ng	98
45) Methylnaphthalenes (To...	7.438	142	555379m	47.3471	ng	
46) 1,1'-Biphenyl	7.812	154	343476	46.3337	ng	90
48) 1,2,4,5-Tetrachloroben...	7.571	216	143153	47.6727	ng	98
49) Hexachlorocyclopentadiene	7.561	237	55247	43.8950	ng	99
50) 2,4,6-Trichlorophenol	7.657	196	90038	46.9091	ng	99
51) 2,4,5-Trichlorophenol	7.694	196	93679	49.9179	ng	96
53) 2-Chloronaphthalene	7.839	162	250931	47.2329	ng	92
54) 1,4-Dimethylnaphthalene	8.117	156	201005	45.6500	ng	90
55) Dimethylnaphthalenes (...	8.117	156	201005	45.6500	ng	90
56) Diphenyl Ether	7.898	170	196411	46.1403	ng	75
57) 2-Nitroaniline	7.908	65	88560	45.8729	ng	59
58) Coumarin	8.101	146	109537	45.9674	ng	66
59) Acenaphthylene	8.197	152	392163	46.8524	ng	98
60) Dimethylphthalate	8.058	163	305660	47.4718	ng	98
61) 2,6-Dinitrotoluene	8.117	165	70440	45.9882	ng	62
62) Acenaphthene	8.347	153	266539	46.6342	ng	95
63) 3-Nitroaniline	8.267	138	76913	50.5254	ng	69
64) 2,4-Dinitrophenol	8.358	184	35365	44.9977	ng	48
65) Dibenzofuran	8.502	168	370000	47.7830	ng	89

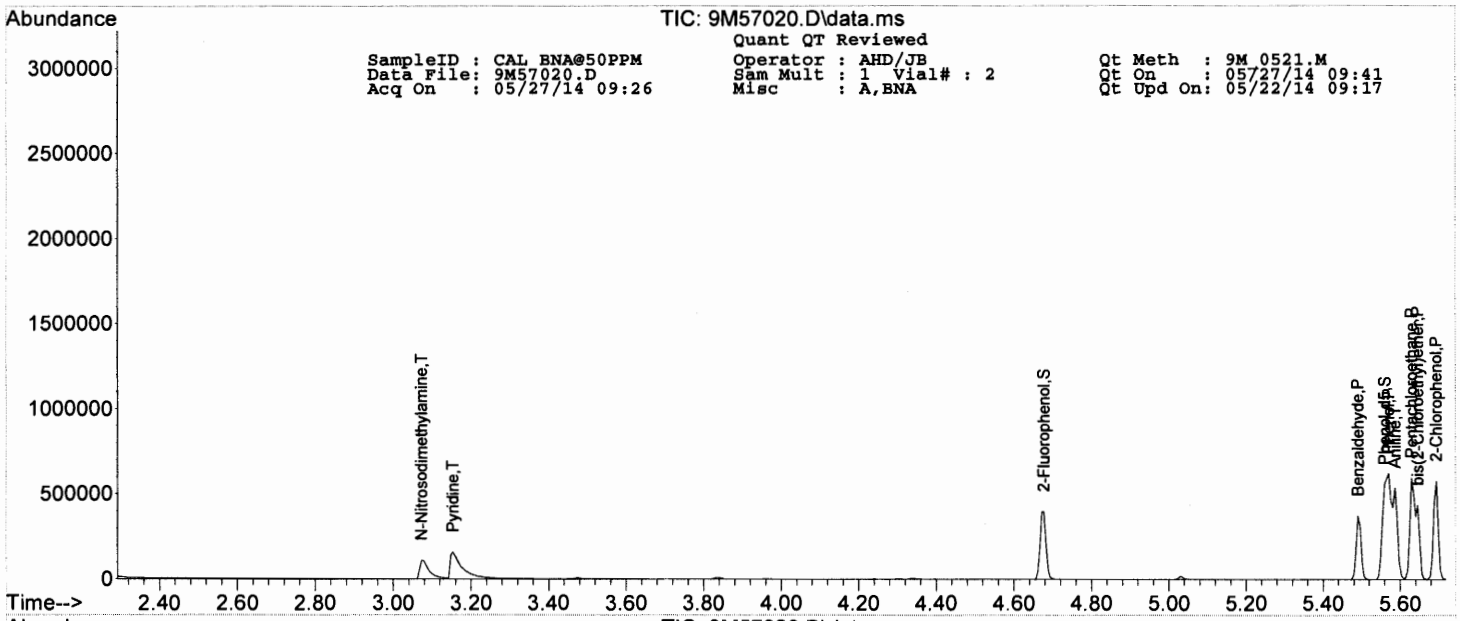
Quantitation Report (QT Reviewed)

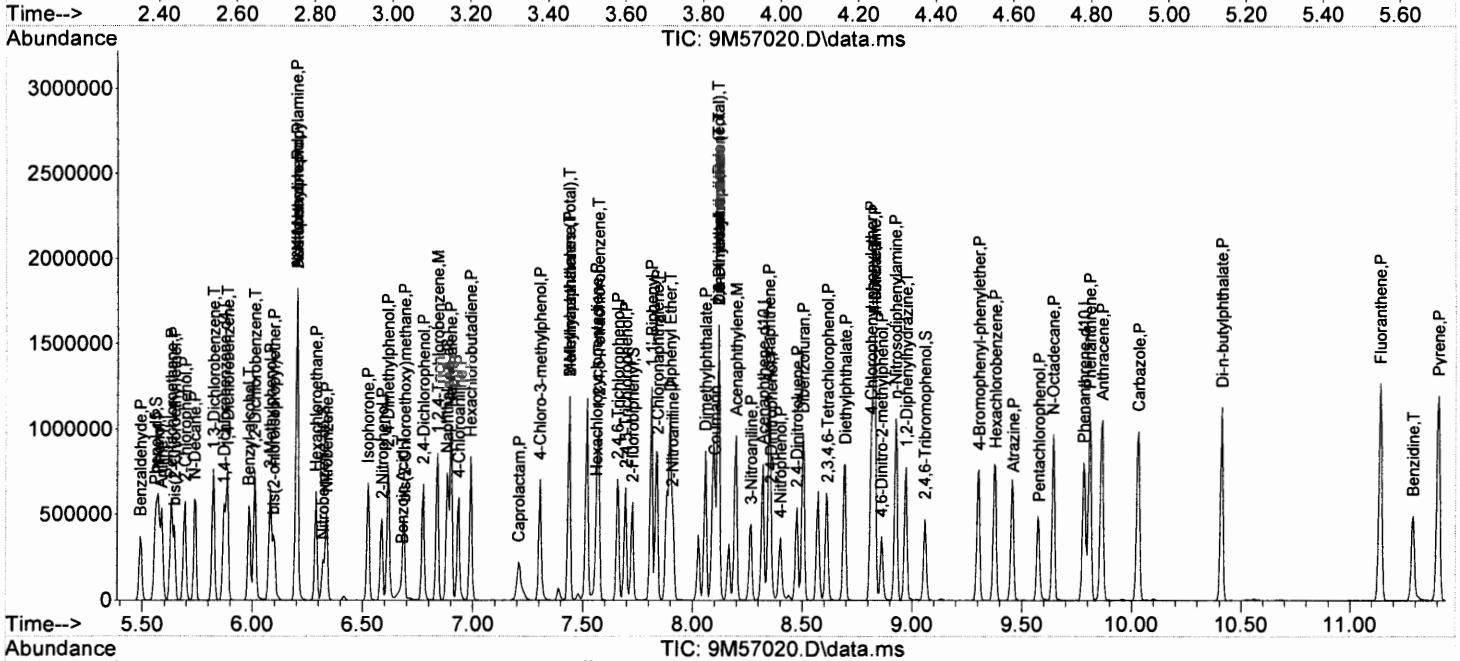
SampleID : CAL BNA@50PPM Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57020.D Sam Mult : 1 Vial# : 2 Qt On : 05/27/14 09:41
Acq On : 05/27/14 09:26 Misc : A,BNA Qt Upd On: 05/22/14 09:17

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.475	165	94281	47.5557	ng	65
67)	4-Nitrophenol	8.400	65	53296	43.4566	ng	59
68)	2,3,4,6-Tetrachlorophenol	8.614	232	80558	47.4356	ng	82
69)	Fluorene	8.828	166	314413	46.8993	ng	97
70)	4-Chlorophenyl-phenyle...	8.812	204	161535	47.1303	ng	85
71)	Diethylphthalate	8.695	149	303211	46.5350	ng	96
72)	4-Nitroaniline	8.828	138	82413	47.1530	ng	82
73)	Atrazine	9.459	200	89759	46.8482	ng	93
75)	4,6-Dinitro-2-methylph...	8.860	198	53714	49.8905	ng	47
76)	n-Nitrosodiphenylamine	8.925	169	265679	47.0900	ng	98
78)	1,2-Diphenylhydrazine	8.973	77	274520	44.9056	ng	75
79)	4-Bromophenyl-phenylether	9.304	248	102686	48.0681	ng	79
80)	Hexachlorobenzene	9.379	284	115376	48.4078	ng	58
81)	N-Octadecane	9.641	57	137868	47.6957	ng	66
82)	Pentachlorophenol	9.577	266	61930	49.7109	ng	96
83)	Phenanthrene	9.807	178	439252	46.3504	ng	99
84)	Anthracene	9.866	178	449384	46.7532	ng	100
85)	Carbazole	10.032	167	433785	46.7003	ng	96
86)	Di-n-butylphthalate	10.411	149	546904	47.9985	ng	98
87)	Fluoranthene	11.139	202	540972	47.0150	ng	84
89)	Pyrene	11.406	202	534690	49.4447	ng	80
90)	Benzidine	11.289	184	212031	47.6878	ng	81
92)	4,4'-DDE	11.524	246	123307	47.8937	ng	88
93)	4,4'-DDD	11.920	235	197809	48.8285	ng	96
94)	Butylbenzylphthalate	12.171	149	238669	47.5018	ng	74
95)	4,4'-DDT	12.278	235	188986	47.1789	ng	99
96)	3,3'-Dichlorobenzidine	12.792	252	186550	50.8355	ng	94
97)	Benzo[a]anthracene	12.824	228	511494	47.5883	ng	99
98)	Chrysene	12.866	228	462962	46.4777	ng	100
99)	bis(2-Ethylhexyl)phtha...	12.866	149	322347	45.9632	ng	94
101)	Di-n-octylphthalate	13.615	149	547968	48.9436	ng	100
102)	Benzo[b]fluoranthene	14.038	252	501768	45.8271	ng	92
103)	Benzo[k]fluoranthene	14.070	252	485441	46.4084	ng	91
104)	Benzo[a]pyrene	14.402	252	473029	46.2126	ng	89
105)	Indeno[1,2,3-cd]pyrene	15.803	276	558257	48.2132	ng	86
106)	Dibenzo[a,h]anthracene	15.819	278	467756	48.1060	ng	85
107)	Benzo[g,h,i]perylene	16.188	276	469749	49.1248	ng	71

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M57020.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 9M57020.D
Acq On : 05/27/14 09:26
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 9M_0521.M
Qt On : 05/27/14 09:41
Qt Upd On: 05/22/14 09:17
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
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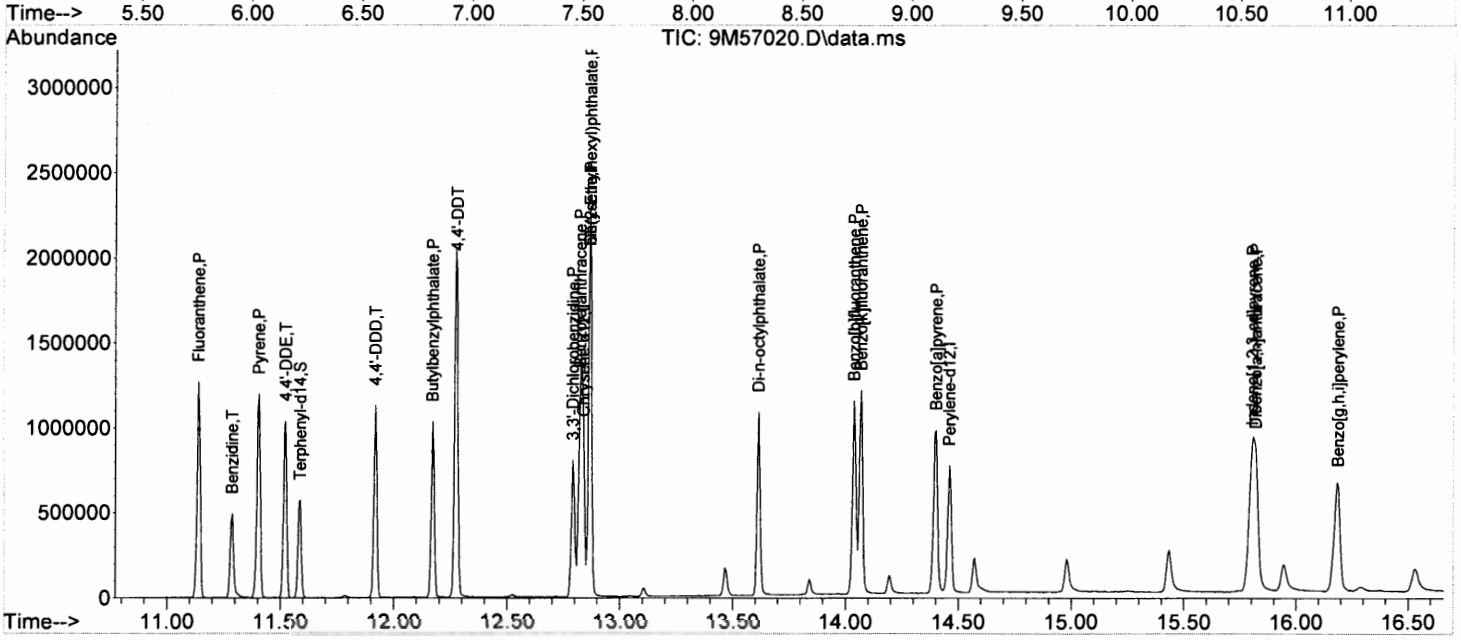
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Acenaphthylene,M
3-Nitroaniline,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 9M57020.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M44306.D **Instrument:** GCMS 10

Cont Calibration Date/Time 5/28/2014 9:24:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dichlorobenzene-d4	1	0	I	5.72	40.00	40	**			0.000	0.00	
Pyridine	1	0		2.91	48.12	50	**		1.950	1.877	3.76	
N-Nitrosodimethylamine	1	0		2.85	49.89	50	**		1.172	1.169	0.22	
2-Fluorophenol	1	0	S	4.50	49.47	50	**		1.522	1.506	1.06	
Benzaldehyde	1	0		5.34	40.53	50	20	0.01	1.167	0.946	18.94	
Aniline	1	0		5.44	54.60	50	**		2.260	2.590	9.19	
Pentachloroethane	1	0		5.48	48.21	50	**	0.05	0.579	0.558	3.58	
bis(2-Chloroethyl)ether	1	0		5.49	51.84	50	20	0.7	1.615	1.675	3.68	
Phenol-d5	1	0	S	5.40	53.17	50	**		2.153	2.290	6.35	
Phenol	1	0		5.41	52.30	50	20	0.8	2.310	2.416	4.60	
2-Chlorophenol	1	0		5.54	50.87	50	20	0.8	1.588	1.615	1.75	
N-Decane	1	0		5.59	46.89	50	**	0.05	1.699	1.593	6.21	
1,3-Dichlorobenzene	1	0		5.67	48.44	50	**		1.685	1.633	3.12	
1,4-Dichlorobenzene	1	0		5.74	48.73	50	20		1.692	1.649	2.54	
1,2-Dichlorobenzene	1	0		5.86	49.35	50	**		1.603	1.582	1.31	
Benzyl alcohol	1	0		5.83	53.60	50	**		1.087	1.165	7.20	
bis(2-chloroisopropyl)ether	1	0		5.95	52.13	50	20	0.01	2.276	2.373	4.26	
2-Methylphenol	1	0		5.93	55.43	50	20	0.7	1.456	1.614	10.85	
Acetophenone	1	0		6.05	55.74	50	20	0.01	2.155	2.402	11.48	
Hexachloroethane	1	0		6.14	49.05	50	20	0.3	0.630	0.618	1.90	
N-Nitroso-di-n-propylamine	1	0		6.05	58.74	50	20	0.5	1.107	1.301	17.47	
3&4-Methylphenol	1	0		6.05	57.79	50	20		1.452	1.679	15.58	
Naphthalene-d8	1	0	I	6.73	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.17	24.91	25	**		0.185	0.185	0.34	
Nitrobenzene	1	0		6.18	49.63	50	20	0.2	0.424	0.421	0.75	
Isophorone	1	0		6.37	52.87	50	20	0.4	0.772	0.817	5.74	
2-Nitrophenol	1	0		6.44	53.36	50	20	0.1	0.202	0.211	6.71	
2,4-Dimethylphenol	1	0		6.46	52.75	50	20	0.2	0.389	0.410	5.50	
Benzoic Acid	1	0		6.54	40.57	50	**		0.214	0.160	18.87	
bis(2-Chloroethoxy)methane	1	0		6.54	50.12	50	20	0.3	0.505	0.506	0.23	
2,4-Dichlorophenol	1	0		6.62	53.93	50	20	0.2	0.303	0.327	7.86	
1,2,4-Trichlorobenzene	1	0		6.69	48.14	50	**		0.348	0.335	3.73	
Naphthalene	1	0		6.75	49.55	50	20	0.7	1.158	1.147	0.91	
4-Chloroaniline	1	0		6.78	52.68	50	20	0.01	0.401	0.502	5.35	
Hexachlorobutadiene	1	0		6.84	46.67	50	20	0.01	0.185	0.173	6.66	
Caprolactam	1	0		7.06	58.35	50	20	0.01	0.142	0.168	16.69	
4-Chloro-3-methylphenol	1	0		7.14	54.38	50	20	0.2	0.345	0.375	8.75	
2-Methylnaphthalene	1	0		7.28	51.99	50	**	0.4	0.767	0.798	3.98	
Methylnaphthalenes	1	0		7.28	51.84	50	20			1.587	3.68	
1,1'-Biphenyl	1	0		7.64	51.98	50	20	0.01	0.937	0.975	3.96	
Acenaphthene-d10	1	0	I	8.14	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.40	46.40	50	20	0.01	0.636	0.590	7.21	
Hexachlorocyclopentadiene	1	0		7.40	42.56	50	20	0.05	0.324	0.265	14.87	
2,4,6-Trichlorophenol	1	0		7.49	51.35	50	20	0.2	0.391	0.402	2.71	
2,4,5-Trichlorophenol	1	0		7.52	52.54	50	20	0.2	0.390	0.410	5.09	
2-Fluorobiphenyl	1	0	S	7.56	23.45	25	**		1.474	1.382	6.19	
2-Chloronaphthalene	1	0		7.67	47.61	50	20	0.8	1.228	1.170	4.77	
1,4-Dimethylnaphthalene	1	0		7.94	49.26	50	**		0.986	0.971	1.48	
Dimethylnaphthalenes	1	0		7.94	49.26	50	20			0.971	1.48	
Diphenyl Ether	1	0		7.72	47.81	50	**		0.945	0.904	4.38	
2-Nitroaniline	1	0		7.74	52.87	50	20	0.01	0.448	0.474	5.75	
Coumarin	1	0		7.92	51.63		**		0.553			

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M44306.D **Instrument:** GCMS 10

Cont Calibration Date/Time 5/28/2014 9:24:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Acenaphthylene	1	0		8.01	49.13	50	20	0.9	1.938	1.904	1.74	
Dimethylphthalate	1	0		7.89	50.57	50	20	0.01	1.414	1.431	1.15	
2,6-Dinitrotoluene	1	0		7.94	54.22	50	20	0.2	0.303	0.328	8.44	
Acenaphthene	1	0		8.17	49.83	50	20	0.9	1.272	1.268	0.34	
3-Nitroaniline	1	0		8.09	58.53	50	20	0.01	0.353	0.413	17.05	
2,4-Dinitrophenol	1	0		8.18	51.24	50	20	0.01	0.164	0.159	2.48	
Dibenzofuran	1	0		8.32	49.74	50	20	0.8	1.780	1.771	0.51	
2,4-Dinitrotoluene	1	0		8.29	54.29	50	20	0.2	0.416	0.448	8.58	
4-Nitrophenol	1	0		8.22	58.80	50	20	0.01	0.260	0.318	17.59	
2,3,4,6-Tetrachlorophenol	1	0		8.43	53.61	50	20	0.01	0.336	0.360	7.22	
Fluorene	1	0		8.63	51.07	50	20	0.9	1.468	1.500	2.14	
4-Chlorophenyl-phenylether	1	0		8.62	50.37	50	20	0.4	0.706	0.711	0.73	
Diethylphthalate	1	0		8.51	51.93	50	20	0.01	1.392	1.446	3.86	
4-Nitroaniline	1	0		8.64	55.56	50	20	0.01	0.398	0.442	11.13	
Atrazine	1	0		9.26	54.26	50	20	0.01	0.369	0.400	8.51	
Phenanthrene-d10	1	0	I	9.58	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.67	51.93	50	20	0.01	0.126	0.124	3.87	
n-Nitrosodiphenylamine	1	0		8.74	48.01	50	20	0.01	0.688	0.661	3.98	
2,4,6-Tribromophenol	1	0	S	8.86	50.40	50	**		0.135	0.133	0.81	
1,2-Diphenylhydrazine	1	0		8.78	45.35	50	**		0.937	0.850	9.29	
4-Bromophenyl-phenylether	1	0		9.10	47.23	50	20	0.1	0.235	0.222	5.55	
Hexachlorobenzene	1	0		9.17	47.21	50	20	0.1	0.279	0.263	5.58	
N-Octadecane	1	0		9.45	50.86	50	**	0.05	0.562	0.572	1.71	
Pentachlorophenol	1	0		9.37	52.19	50	20	0.05	0.161	0.159	4.37	
Phenanthrene	1	0		9.60	48.62	50	20	0.7	1.155	1.123	2.76	
Anthracene	1	0		9.66	49.52	50	20	0.7	1.153	1.142	0.96	
Carbazole	1	0		9.82	51.05	50	20	0.01	1.154	1.178	2.09	
Di-n-butylphthalate	1	0		10.21	53.77	50	20	0.01	1.230	1.418	7.53	
Fluoranthene	1	0		10.92	53.43	50	20	0.6	1.273	1.361	6.85	
Chrysene-d12	1	0	I	12.60	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.18	46.94	50	20	0.6	1.238	1.162	6.11	
Benzidine	1	0		11.07	44.55	50	**		0.466	0.463	10.89	
Terphenyl-d14	1	0	S	11.36	22.72	25	**		0.863	0.784	9.12	
4,4'-DDE	1	0		11.30	46.33		**		0.268			
4,4'-DDD	1	0		11.70	49.36		**		0.418			
Butylbenzylphthalate	1	0		11.96	50.96	50	20	0.01	0.550	0.572	1.92	
4,4'-DDT	1	0		12.05	49.02		**		0.403			
3,3'-Dichlorobenzidine	1	0		12.57	57.06	50	20	0.01	0.358	0.451	14.12	
Benzo[a]anthracene	1	0		12.59	49.81	50	20	0.8	1.177	1.173	0.38	
Chrysene	1	0		12.63	48.22	50	20	0.7	1.064	1.026	3.56	
bis(2-Ethylhexyl)phthalate	1	0		12.65	51.85	50	20	0.01	0.692	0.737	3.70	
Perylene-d12	1	0	I	14.20	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.39	50.42	50	20	0.01	1.312	1.368	0.83	
Benzo[b]fluoranthene	1	0		13.80	49.84	50	20	0.7	1.195	1.191	0.32	
Benzo[k]fluoranthene	1	0		13.83	48.63	50	20	0.7	1.195	1.163	2.74	
Benzo[a]pyrene	1	0		14.14	50.93	50	20	0.7	1.143	1.164	1.87	
Indeno[1,2,3-cd]pyrene	1	0		15.45	52.40	50	20	0.5	1.310	1.373	4.81	
Dibenzo[a,h]anthracene	1	0		15.46	52.07	50	20	0.4	1.085	1.130	4.14	
Benzo[g,h,i]perylene	1	0		15.80	51.70	50	20	0.5	1.083	1.120	3.41	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.986	0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M44306.D **Instrument:** GCMS 10

Cont Calibration Date/Time 5/28/2014 9:24:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.530	0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

4052101 0813

SampleID : CAL BNA@50PPM
Data File: 10M44306.D
Acq On : 05/28/14 09:24

Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA

Qt Meth : 10M_0519.M
Qt On : 05/28/14 09:40
Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-28-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	80186	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	332028	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	201215	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	386798	40.00	ng	0.00
88) Chrysene-d12	12.603	240	453907	40.00	ng	0.00
100) Perylene-d12	14.197	264	459735	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.505	112	150964	49.47	ng	0.00
Spiked Amount 100.000			Recovery = 49.47%			
15) Phenol-d5	5.403	99	229525	53.17	ng	0.00
Spiked Amount 100.000			Recovery = 53.17%			
30) Nitrobenzene-d5	6.168	128	38297	24.91	ng	0.00
Spiked Amount 50.000			Recovery = 49.82%			
52) 2-Fluorobiphenyl	7.559	172	173860	23.45	ng	0.00
Spiked Amount 50.000			Recovery = 46.90%			
77) 2,4,6-Tribromophenol	8.864	330	64106	50.40	ng	0.00
Spiked Amount 100.000			Recovery = 50.40%			
91) Terphenyl-d14	11.362	244	222364	22.72	ng	0.00
Spiked Amount 50.000			Recovery = 45.44%			
Target Compounds						Qvalue
8) Pyridine	2.911	79	188151	48.1212	ng	74
9) N-Nitrosodimethylamine	2.847	74	117214	49.8882	ng	74
11) Benzaldehyde	5.339	77	94795	40.5280	ng	77
12) Aniline	5.436	93	259614	54.5964	ng	69
13) Pentachloroethane	5.478	117	55918	48.2122	ng	87
14) bis(2-Chloroethyl)ether	5.494	93	167848	51.8413	ng	81
16) Phenol	5.414	94	242193	52.2990	ng	81
17) 2-Chlorophenol	5.537	128	161904	50.8748	ng	81
18) N-Decane	5.591	57	159677	46.8940	ng	83
19) 1,3-Dichlorobenzene	5.671	146	163635	48.4413	ng	96
20) 1,4-Dichlorobenzene	5.735	146	165288	48.7324	ng	98
21) 1,2-Dichlorobenzene	5.858	146	158545	49.3453	ng	99
22) Benzyl alcohol	5.831	108	116767	53.5985	ng	72
23) bis(2-chloroisopropyl)...	5.949	45	237827	52.1279	ng	94
24) 2-Methylphenol	5.928	108	161808	55.4270	ng	96
25) Acetophenone	6.051	105	240786	55.7419	ng	74
26) Hexachloroethane	6.136	117	61923	49.0520	ng	85
27) N-Nitroso-di-n-propyla...	6.051	70	130403	58.7372	ng	70
28) 3&4-Methylphenol	6.051	108	168270	57.7906	ng	98
31) Nitrobenzene	6.184	77	174641	49.6259	ng	81
32) Isophorone	6.372	82	338946	52.8678	ng	91
33) 2-Nitrophenol	6.436	139	87500	53.3568	ng	85
34) 2,4-Dimethylphenol	6.462	107	170314	52.7514	ng	93
35) Benzoic Acid	6.543	105	66275	40.5666	ng	88
36) bis(2-Chloroethoxy)met...	6.537	93	210121	50.1154	ng	97
37) 2,4-Dichlorophenol	6.618	162	135631	53.9276	ng	89
38) 1,2,4-Trichlorobenzene	6.687	180	138858	48.1363	ng	98
39) Naphthalene	6.746	128	476195m	49.5471	ng	
40) 4-Chloroaniline	6.778	127	208349m	52.6759	ng	
41) Hexachlorobutadiene	6.837	225	71773	46.6689	ng	97
42) Caprolactam	7.056	113	69547	58.3461	ng	69
43) 4-Chloro-3-methylphenol	7.142	107	155533	54.3758	ng	86
44) 2-Methylnaphthalene	7.275	142	331011	51.9891	ng	99
45) Methylnaphthalenes (To...	7.275	142	658485m	51.8393	ng	
46) 1,1'-Biphenyl	7.644	154	404464	51.9822	ng	96
48) 1,2,4,5-Tetrachloroben...	7.404	216	148415	46.3966	ng	99
49) Hexachlorocyclopentadiene	7.398	237	66703	42.5629	ng	98
50) 2,4,6-Trichlorophenol	7.495	196	100996	51.3548	ng	98
51) 2,4,5-Trichlorophenol	7.521	196	103003	52.5437	ng	98
53) 2-Chloronaphthalene	7.666	162	294246	47.6149	ng	91
54) 1,4-Dimethylnaphthalene	7.944	156	244202	49.2588	ng	86
55) Dimethylnaphthalenes (...	7.944	156	244202	49.2588	ng	86
56) Diphenyl Ether	7.725	170	227384	47.8081	ng	81
57) 2-Nitroaniline	7.741	65	119244	52.8726	ng	56
58) Coumarin	7.923	146	143691	51.6331	ng	85
59) Acenaphthylene	8.014	152	478989	49.1303	ng	100
60) Dimethylphthalate	7.885	163	359841	50.5728	ng	98
61) 2,6-Dinitrotoluene	7.939	165	82547	54.2184	ng	66
62) Acenaphthene	8.169	153	318898	49.8323	ng	98
63) 3-Nitroaniline	8.088	138	103942	58.5255	ng	77
64) 2,4-Dinitrophenol	8.179	184	40072	51.2402	ng	37
65) Dibenzofuran	8.318	168	445531	49.7442	ng	84

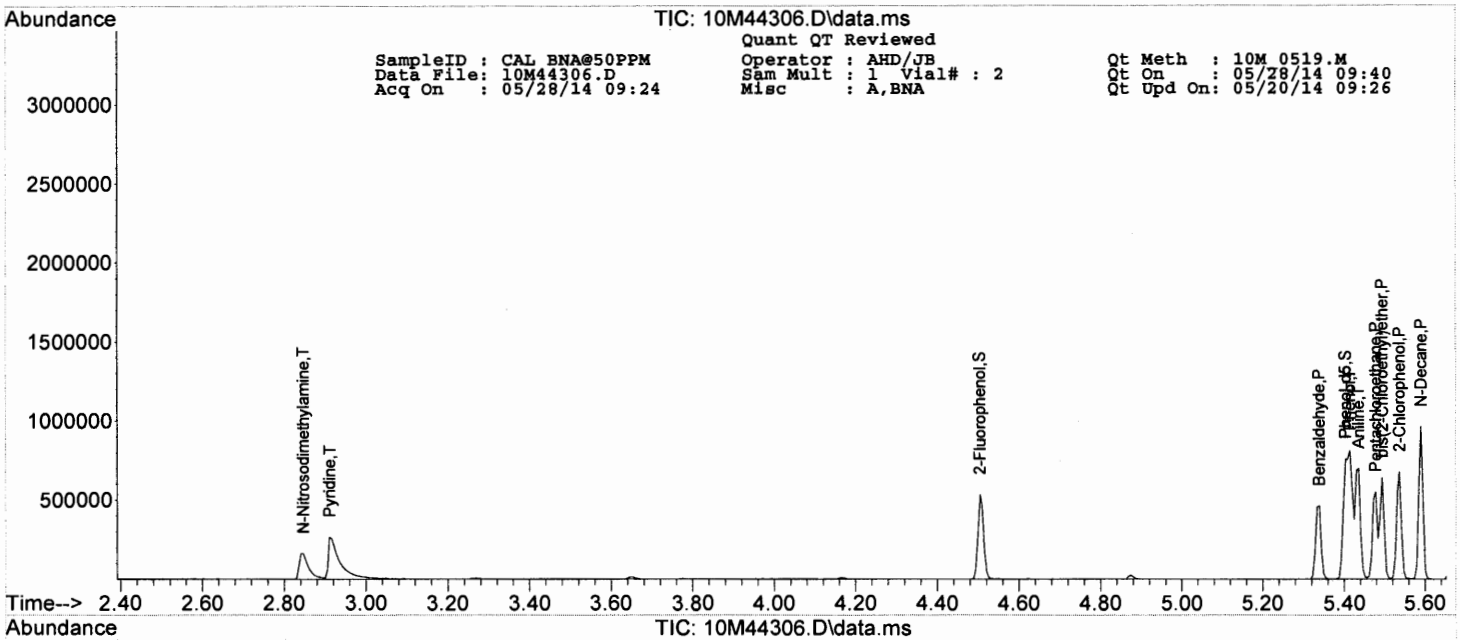
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44306.D Sam Mult : 1 Vial# : 2 Qt On : 05/28/14 09:40
Acq On : 05/28/14 09:24 Misc : A,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-28-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.292	165	112790	54.2925	ng	68
67)	4-Nitrophenol	8.217	65	79895	58.7966	ng	98
68)	2,3,4,6-Tetrachlorophenol	8.425	232	90519	53.6116	ng	82
69)	Fluorene	8.634	166	377234	51.0682	ng	99
70)	4-Chlorophenyl-phenyle...	8.623	204	178830	50.3662	ng	86
71)	Diethylphthalate	8.511	149	363678	51.9285	ng	95
72)	4-Nitroaniline	8.639	138	111141	55.5638	ng	70
73)	Atrazine	9.260	200	100704	54.2567	ng	95
75)	4,6-Dinitro-2-methylph...	8.671	198	59823	51.9330	ng	65
76)	n-Nitrosodiphenylamine	8.736	169	319572	48.0109	ng	100
78)	1,2-Diphenylhydrazine	8.778	77	410886	45.3530	ng	85
79)	4-Bromophenyl-phenylether	9.105	248	107124	47.2263	ng	83
80)	Hexachlorobenzene	9.174	284	127312	47.2100	ng	61
81)	N-Octadecane	9.447	57	276438	50.8558	ng	78
82)	Pentachlorophenol	9.372	266	76855	52.1863	ng	97
83)	Phenanthrene	9.602	178	542806	48.6182	ng	100
84)	Anthracene	9.656	178	551969	49.5181	ng	99
85)	Carbazole	9.821	167	569648	51.0465	ng	98
86)	Di-n-butylphthalate	10.206	149	685785	53.7662	ng	97
87)	Fluoranthene	10.918	202	657919	53.4265	ng	97
89)	Pyrene	11.180	202	659431	46.9435	ng	93
90)	Benzidine	11.068	184	262662	44.5526	ng	94
92)	4,4'-DDE	11.303	246	140778	46.3320	ng	86
93)	4,4'-DDD	11.699	235	234071	49.3616	ng	96
94)	Butylbenzylphthalate	11.955	149	324273	50.9588	ng	74
95)	4,4'-DDT	12.052	235	224215	49.0158	ng	99
96)	3,3'-Dichlorobenzidine	12.565	252	255862	57.0585	ng	97
97)	Benzo[a]anthracene	12.592	228	665273	49.8115	ng	99
98)	Chrysene	12.635	228	582137	48.2220	ng	100
99)	bis(2-Ethylhexyl)phtha...	12.651	149	418401	51.8511	ng	91
101)	Di-n-octylphthalate	13.394	149	785952	50.4170	ng	100
102)	Benzo[b]fluoranthene	13.795	252	684605	49.8420	ng	96
103)	Benzo[k]fluoranthene	13.828	252	668138m	48.6286	ng	
104)	Benzo[a]pyrene	14.138	252	669107	50.9349	ng	96
105)	Indeno[1,2,3-cd]pyrene	15.448	276	789237	52.4027	ng	98
106)	Dibenzo[a,h]anthracene	15.464	278	649610	52.0700	ng	91
107)	Benzo[g,h,i]perylene	15.801	276	643361	51.7042	ng	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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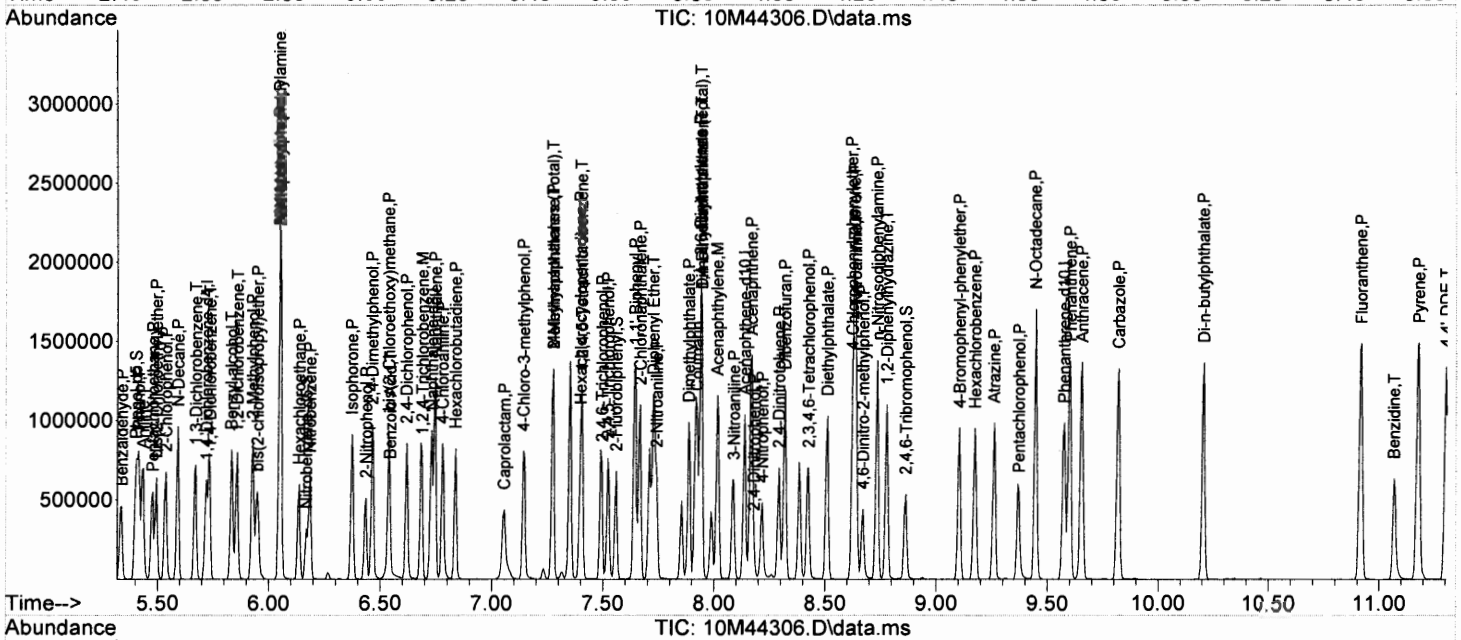
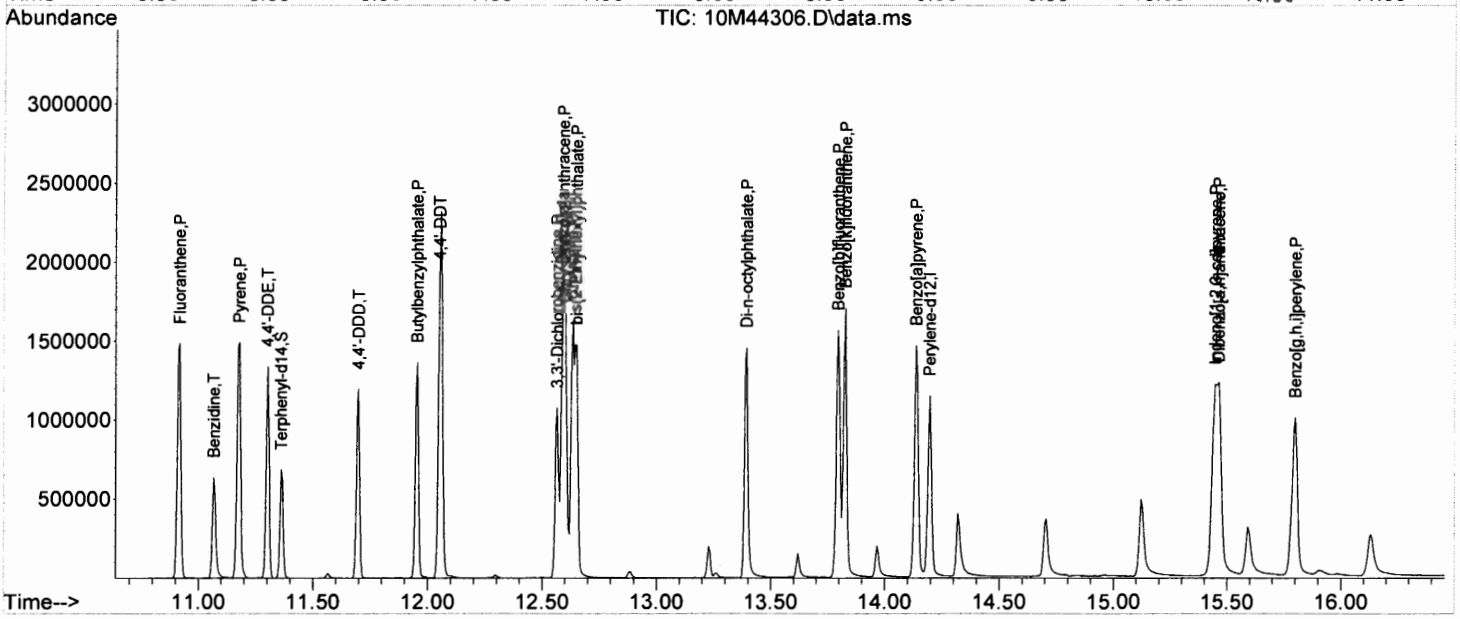
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 10M44306.D
Acq On : 05/28/14 09:24
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/28/14 09:40
Qt Upd On: 05/20/14 09:26
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44306.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene,P
2,4-Dinitrophenol,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4,6-Dinitro-2-methylphenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M44306.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M57047.D **Instrument:** GCMS 9

Cont Calibration Date/Time 5/28/2014 9:27:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dichlorobenzene-d4	1	0	I	5.87	40.00	40	**			0.000	0.00	
Pyridine	1	0		3.14	45.54	50	**		1.423	1.296	8.91	
N-Nitrosodimethylamine	1	0		3.06	48.94	50	**		0.805	0.788	2.12	
2-Fluorophenol	1	0	S	4.67	48.90	50	**		1.418	1.387	2.19	
Benzaldehyde	1	0		5.49	52.61	50	20	0.01	0.765	0.827	5.23	
Aniline	1	0		5.59	54.55	50	**		1.922	2.097	9.09	
Pentachloroethane	1	0		5.63	48.50	50	**	0.05	0.583	0.566	3.00	
bis(2-Chloroethyl)ether	1	0		5.65	51.17	50	20	0.7	1.274	1.304	2.34	
Phenol-d5	1	0	S	5.56	52.09	50	**		1.842	1.920	4.19	
Phenol	1	0		5.57	50.82	50	20	0.8	1.968	2.000	1.63	
2-Chlorophenol	1	0		5.69	51.65	50	20	0.8	1.617	1.670	3.31	
N-Decane	1	0		5.74	45.11	50	**	0.05	1.048	0.946	9.78	
1,3-Dichlorobenzene	1	0		5.82	48.21	50	**		1.745	1.682	3.58	
1,4-Dichlorobenzene	1	0		5.89	48.16	50	20		1.762	1.697	3.68	
1,2-Dichlorobenzene	1	0		6.01	48.90	50	**		1.653	1.616	2.20	
Benzyl alcohol	1	0		5.98	53.15	50	**		0.946	1.005	6.29	
bis(2-chloroisopropyl)ether	1	0		6.09	50.07	50	20	0.01	1.197	1.198	0.14	
2-Methylphenol	1	0		6.08	51.97	50	20	0.7	1.373	1.428	3.94	
Acetophenone	1	0		6.20	51.12	50	20	0.01	2.290	2.342	2.25	
Hexachloroethane	1	0		6.29	47.67	50	20	0.3	0.666	0.635	4.67	
N-Nitroso-di-n-propylamine	1	0		6.20	52.30	50	20	0.5	1.029	1.076	4.60	
3&4-Methylphenol	1	0		6.20	53.42	50	20		1.485	1.586	6.84	
Naphthalene-d8	1	0	I	6.88	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.32	24.58	25	**		0.190	0.187	1.67	
Nitrobenzene	1	0		6.34	47.97	50	20	0.2	0.387	0.372	4.05	
Isophorone	1	0		6.52	49.90	50	20	0.4	0.680	0.679	0.19	
2-Nitrophenol	1	0		6.59	49.54	50	20	0.1	0.234	0.232	0.91	
2,4-Dimethylphenol	1	0		6.61	51.01	50	20	0.2	0.410	0.418	2.02	
Benzoic Acid	1	0		6.70	57.11	50	**		0.176	0.145	14.21	
bis(2-Chloroethoxy)methane	1	0		6.68	48.37	50	20	0.3	0.410	0.397	3.26	
2,4-Dichlorophenol	1	0		6.77	51.76	50	20	0.2	0.342	0.354	3.51	
1,2,4-Trichlorobenzene	1	0		6.84	48.50	50	**		0.385	0.373	3.00	
Naphthalene	1	0		6.90	48.79	50	20	0.7	1.184	1.156	2.42	
4-Chloroaniline	1	0		6.93	57.71	50	20	0.01	0.439	0.507	15.41	
Hexachlorobutadiene	1	0		6.99	47.42	50	20	0.01	0.232	0.220	5.16	
Caprolactam	1	0		7.21	57.33	50	20	0.01	0.138	0.158	14.66	
4-Chloro-3-methylphenol	1	0		7.30	52.36	50	20	0.2	0.365	0.382	4.72	
2-Methylnaphthalene	1	0		7.44	50.97	50	**	0.4	0.826	0.842	1.93	
Methylnaphthalenes	1	0		7.44	50.57	50	20			1.656	1.14	
1,1'-Biphenyl	1	0		7.81	50.98	50	20	0.01	1.035	1.055	1.95	
Acenaphthene-d10	1	0	I	8.32	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.57	47.16	50	20	0.01	0.718	0.677	5.68	
Hexachlorocyclopentadiene	1	0		7.56	41.65	50	20	0.05	0.306	0.249	16.70	
2,4,6-Trichlorophenol	1	0		7.66	48.68	50	20	0.2	0.459	0.447	2.63	
2,4,5-Trichlorophenol	1	0		7.69	52.10	50	20	0.2	0.449	0.468	4.21	
2-Fluorobiphenyl	1	0	S	7.73	24.57	25	**		1.493	1.467	1.73	
2-Chloronaphthalene	1	0		7.84	48.88	50	20	0.8	1.270	1.242	2.24	
1,4-Dimethylnaphthalene	1	0		8.12	47.90	50	**		1.053	1.009	4.19	
Dimethylnaphthalenes	1	0		8.12	47.90	50	20			1.009	4.19	
Diphenyl Ether	1	0		7.90	47.16	50	**		1.018	0.960	5.68	
2-Nitroaniline	1	0		7.91	49.47	50	20	0.01	0.462	0.457	1.05	
Coumarin	1	0		8.10	50.55		**		0.570			

S -Surrogate Compound 1 -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M57047.D **Instrument:** GCMS 9

Cont Calibration Date/Time 5/28/2014 9:27:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Acenaphthylene	1	0		8.20	49.09	50	20	0.9	2.002	1.965	1.83	
Dimethylphthalate	1	0		8.06	51.31	50	20	0.01	1.540	1.580	2.62	
2,6-Dinitrotoluene	1	0		8.12	50.19	50	20	0.2	0.366	0.368	0.37	
Acenaphthene	1	0		8.35	49.07	50	20	0.9	1.367	1.341	1.87	
3-Nitroaniline	1	0		8.27	56.83	50	20	0.01	0.364	0.414	13.65	
2,4-Dinitrophenol	1	0		8.36	56.85	50	20	0.01	0.206	0.222	13.70	
Dibenzofuran	1	0		8.51	50.59	50	20	0.8	1.852	1.874	1.18	
2,4-Dinitrotoluene	1	0		8.48	54.78	50	20	0.2	0.474	0.519	9.56	
4-Nitrophenol	1	0		8.40	50.50	50	20	0.01	0.293	0.296	0.99	
2,3,4,6-Tetrachlorophenol	1	0		8.61	51.75	50	20	0.01	0.406	0.420	3.49	
Fluorene	1	0		8.83	51.41	50	20	0.9	1.603	1.648	2.82	
4-Chlorophenyl-phenylether	1	0		8.82	50.97	50	20	0.4	0.820	0.835	1.93	
Diethylphthalate	1	0		8.69	51.56	50	20	0.01	1.558	1.607	3.12	
4-Nitroaniline	1	0		8.83	54.94	50	20	0.01	0.418	0.459	9.89	
Atrazine	1	0		9.46	55.45	50	20	0.01	0.458	0.508	10.90	
Phenanthrene-d10	1	0	I	9.79	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.87	54.57	50	20	0.01	0.143	0.148	9.13	
n-Nitrosodiphenylamine	1	0		8.93	47.50	50	20	0.01	0.707	0.671	5.00	
2,4,6-Tribromophenol	1	0	S	9.06	48.17	50	**		0.142	0.137	3.66	
1,2-Diphenylhydrazine	1	0		8.97	44.56	50	**		0.766	0.682	10.88	
4-Bromophenyl-phenylether	1	0		9.30	47.63	50	20	0.1	0.268	0.255	4.75	
Hexachlorobenzene	1	0		9.38	48.68	50	20	0.1	0.299	0.291	2.64	
N-Octadecane	1	0		9.64	46.16	50	**	0.05	0.362	0.334	7.67	
Pentachlorophenol	1	0		9.58	52.46	50	20	0.05	0.171	0.165	4.92	
Phenanthrene	1	0		9.81	48.27	50	20	0.7	1.187	1.146	3.46	
Anthracene	1	0		9.87	48.08	50	20	0.7	1.204	1.158	3.85	
Carbazole	1	0		10.03	50.65	50	20	0.01	1.163	1.179	1.30	
Di-n-butylphthalate	1	0		10.41	51.91	50	20	0.01	1.427	1.482	3.82	
Fluoranthene	1	0		11.14	52.78	50	20	0.6	1.441	1.521	5.55	
Chrysene-d12	1	0	I	12.84	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.41	47.98	50	20	0.6	1.247	1.197	4.04	
Benzidine	1	0		11.29	53.81	50	**		0.460	0.541	7.63	
Terphenyl-d14	1	0	S	11.59	24.21	25	**		0.893	0.865	3.16	
4,4'-DDE	1	0		11.52	47.46		**		0.297			
4,4'-DDD	1	0		11.92	49.56		**		0.467			
Butylbenzylphthalate	1	0		12.18	48.82	50	20	0.01	0.579	0.566	2.37	
4,4'-DDT	1	0		12.28	48.79		**		0.462			
3,3'-Dichlorobenzidine	1	0		12.80	56.15	50	20	0.01	0.423	0.475	12.30	
Benzo[a]anthracene	1	0		12.83	49.59	50	20	0.8	1.240	1.229	0.83	
Chrysene	1	0		12.87	49.32	50	20	0.7	1.149	1.133	1.36	
bis(2-Ethylhexyl)phthalate	1	0		12.87	47.75	50	20	0.01	0.809	0.772	4.50	
Perylene-d12	1	0	I	14.47	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.62	51.59	50	20	0.01	1.470	1.384	3.18	
Benzo[b]fluoranthene	1	0		14.04	51.87	50	20	0.7	1.305	1.353	3.73	
Benzo[k]fluoranthene	1	0		14.07	47.04	50	20	0.7	1.246	1.173	5.91	
Benzo[a]pyrene	1	0		14.40	50.25	50	20	0.7	1.220	1.226	0.51	
Indeno[1,2,3-cd]pyrene	1	0		15.81	52.08	50	20	0.5	1.380	1.437	4.15	
Dibenzo[a,h]anthracene	1	0		15.82	51.10	50	20	0.4	1.159	1.184	2.19	
Benzo[g,h,i]perylene	1	0		16.19	51.30	50	20	0.5	1.139	1.169	2.61	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M57047.D **Instrument:** GCMS 9

Cont Calibration Date/Time 5/28/2014 9:27:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.053	0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.638	0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

4052101 0819

SampleID : CAL BNA@50PPM
Data File: 9M57047.D
Acq On : 05/28/14 09:27

Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA

Qt Meth : 9M_0521.M
Qt On : 05/28/14 09:42
Qt Upd On: 05/22/14 09:17

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-28-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.870	152	62566	40.00	ng	-0.01
29) Naphthalene-d8	6.881	136	259384	40.00	ng	-0.01
47) Acenaphthene-d10	8.320	164	164774	40.00	ng	-0.01
74) Phenanthrene-d10	9.785	188	345423	40.00	ng	-0.01
88) Chrysene-d12	12.840	240	430223	40.00	ng	-0.01
100) Perylene-d12	14.466	264	430806	40.00	ng	-0.01
System Monitoring Compounds						
10) 2-Fluorophenol	4.672	112	108487	48.90	ng	-0.01
Spiked Amount 100.000			Recovery = 48.90%			
15) Phenol-d5	5.560	99	150122	52.09	ng	0.00
Spiked Amount 100.000			Recovery = 52.09%			
30) Nitrobenzene-d5	6.320	128	30277	24.58	ng	-0.01
Spiked Amount 50.000			Recovery = 49.16%			
52) 2-Fluorobiphenyl	7.726	172	151128	24.57	ng	-0.01
Spiked Amount 50.000			Recovery = 49.14%			
77) 2,4,6-Tribromophenol	9.063	330	59155	48.17	ng	-0.01
Spiked Amount 100.000			Recovery = 48.17%			
91) Terphenyl-d14	11.588	244	232611	24.21	ng	-0.01
Spiked Amount 50.000			Recovery = 48.42%			
Target Compounds						Qvalue
8) Pyridine	3.142	79	101340	45.5435	ng	63
9) N-Nitrosodimethylamine	3.062	74	61651	48.9391	ng	76
11) Benzaldehyde	5.491	77	64711	52.6149	ng	72
12) Aniline	5.587	93	163986	54.5469	ng	81
13) Pentachloroethane	5.630	117	44258	48.5013	ng	75
14) bis(2-Chloroethyl)ether	5.646	93	101972	51.1679	ng	73
16) Phenol	5.571	94	156426	50.8154	ng	95
17) 2-Chlorophenol	5.694	128	130602	51.6525	ng	71
18) N-Decane	5.737	57	73959	45.1115	ng	83
19) 1,3-Dichlorobenzene	5.822	146	131555	48.2124	ng	95
20) 1,4-Dichlorobenzene	5.886	146	132694	48.1589	ng	98
21) 1,2-Dichlorobenzene	6.009	146	126421	48.8992	ng	99
22) Benzyl alcohol	5.983	108	78607	53.1464	ng	81
23) bis(2-chloroisopropyl)...	6.095	45	93719	50.0678	ng	61
24) 2-Methylphenol	6.079	108	111643	51.9697	ng	99
25) Acetophenone	6.202	105	183151	51.1227	ng	73
26) Hexachloroethane	6.287	117	49625	47.6661	ng	89
27) N-Nitroso-di-n-propyla...	6.197	70	84143	52.2998	ng	81
28) 3&4-Methylphenol	6.202	108	124058	53.4223	ng	99
31) Nitrobenzene	6.336	77	120453	47.9729	ng	74
32) Isophorone	6.523	82	220068	49.9046	ng	80
33) 2-Nitrophenol	6.587	139	75122	49.5428	ng	89
34) 2,4-Dimethylphenol	6.614	107	135668	51.0121	ng	95
35) Benzoic Acid	6.699	105	47147	57.1074	ng	88
36) bis(2-Chloroethoxy)met...	6.683	93	128626	48.3681	ng	96
37) 2,4-Dichlorophenol	6.774	162	114872	51.7570	ng	84
38) 1,2,4-Trichlorobenzene	6.838	180	120958	48.5002	ng	98
39) Naphthalene	6.897	128	374738m	48.7885	ng	
40) 4-Chloroaniline	6.935	127	164239m	57.7061	ng	
41) Hexachlorobutadiene	6.988	225	71242	47.4177	ng	97
42) Caprolactam	7.213	113	51145	57.3284	ng	49
43) 4-Chloro-3-methylphenol	7.304	107	123832	52.3583	ng	74
44) 2-Methylnaphthalene	7.437	142	273002	50.9658	ng	97
45) Methylnaphthalenes (To...	7.437	142	536999m	50.5696	ng	
46) 1,1'-Biphenyl	7.812	154	342095	50.9752	ng	89
48) 1,2,4,5-Tetrachloroben...	7.571	216	139503	47.1615	ng	98
49) Hexachlorocyclopentadiene	7.560	237	51334	41.6489	ng	99
50) 2,4,6-Trichlorophenol	7.662	196	92047	48.6828	ng	100
51) 2,4,5-Trichlorophenol	7.694	196	96323	52.1049	ng	99
53) 2-Chloronaphthalene	7.839	162	255797	48.8788	ng	92
54) 1,4-Dimethylnaphthalene	8.122	156	207784	47.9049	ng	89
55) Dimethylnaphthalenes (...	8.122	156	207784	47.9049	ng	89
56) Diphenyl Ether	7.897	170	197761	47.1617	ng	77
57) 2-Nitroaniline	7.913	65	94083	49.4726	ng	43
58) Coumarin	8.101	146	118655	50.5486	ng	63
59) Acenaphthylene	8.197	152	404717	49.0853	ng	98
60) Dimethylphthalate	8.058	163	325428	51.3081	ng	98
61) 2,6-Dinitrotoluene	8.117	165	75721	50.1854	ng	61
62) Acenaphthene	8.352	153	276257	49.0673	ng	97
63) 3-Nitroaniline	8.266	138	85211	56.8251	ng	71
64) 2,4-Dinitrophenol	8.363	184	45634	56.8518	ng	36
65) Dibenzofuran	8.507	168	385888	50.5903	ng	88

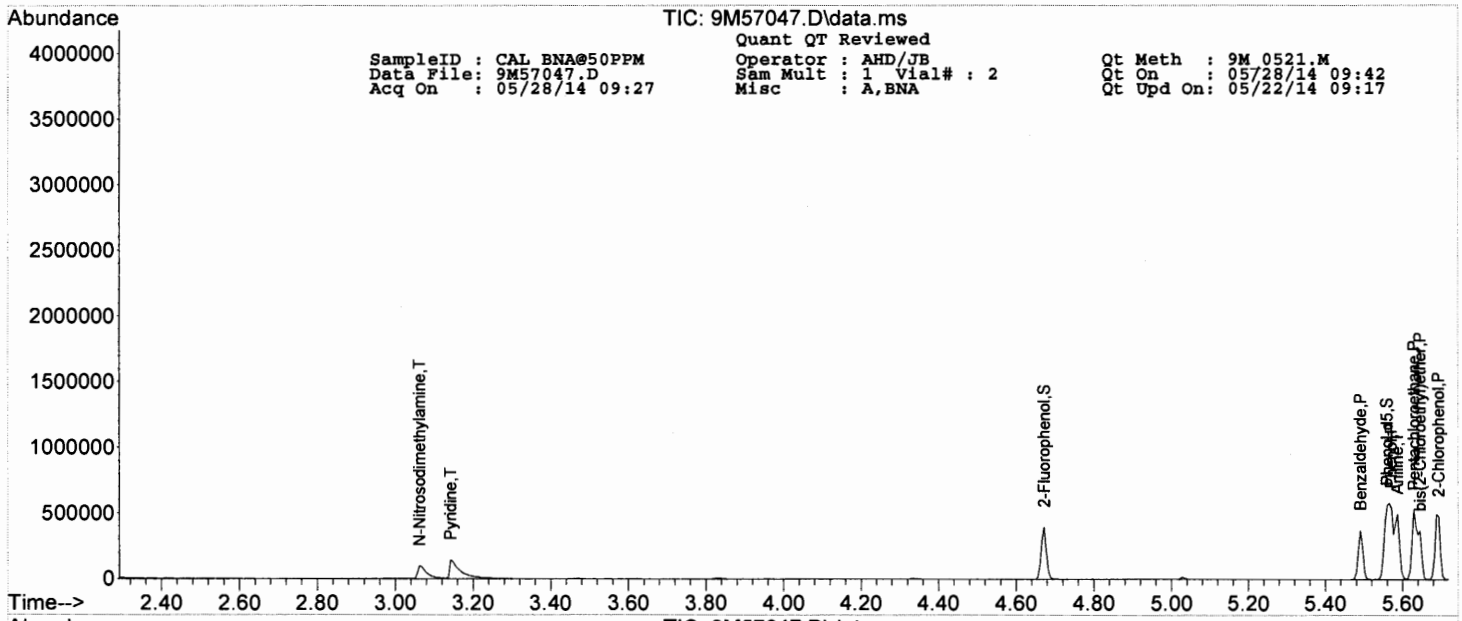
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM
Data File: 9M57047.D
Acq On : 05/28/14 09:27
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 9M_0521.M
Qt On : 05/28/14 09:42
Qt Upd On: 05/22/14 09:17

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-28-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.475	165	106983	54.7807	ng	66
67)	4-Nitrophenol	8.400	65	61004	50.4956	ng	64
68)	2,3,4,6-Tetrachlorophenol	8.614	232	86567	51.7467	ng	83
69)	Fluorene	8.828	166	339518	51.4118	ng	100
70)	4-Chlorophenyl-phenyle...	8.817	204	172076	50.9669	ng	80
71)	Diethylphthalate	8.694	149	330946	51.5616	ng	95
72)	4-Nitroaniline	8.833	138	94597	54.9446	ng	86
73)	Atrazine	9.459	200	104650	55.4484	ng	93
75)	4,6-Dinitro-2-methylph...	8.866	198	64099	54.5665	ng	59
76)	n-Nitrosodiphenylamine	8.930	169	289839	47.4979	ng	98
78)	1,2-Diphenylhydrazine	8.973	77	294644	44.5625	ng	78
79)	4-Bromophenyl-phenylether	9.304	248	110041	47.6261	ng	82
80)	Hexachlorobenzene	9.379	284	125490	48.6804	ng	59
81)	N-Octadecane	9.641	57	144322	46.1630	ng	66
82)	Pentachlorophenol	9.577	266	71251	52.4609	ng	97
83)	Phenanthrene	9.807	178	494746	48.2689	ng	100
84)	Anthracene	9.866	178	499795	48.0763	ng	99
85)	Carbazole	10.032	167	508867	50.6518	ng	96
86)	Di-n-butylphthalate	10.411	149	639723	51.9104	ng	99
87)	Fluoranthene	11.144	202	656799	52.7764	ng	81
89)	Pyrene	11.406	202	643651	47.9818	ng	80
90)	Benzidine	11.288	184	290927	53.8128	ng	81
92)	4,4'-DDE	11.524	246	151590	47.4645	ng	89
93)	4,4'-DDD	11.920	235	249059	49.5607	ng	95
94)	Butylbenzylphthalate	12.176	149	304259	48.8164	ng	70
95)	4,4'-DDT	12.278	235	242446	48.7912	ng	99
96)	3,3'-Dichlorobenzidine	12.797	252	255596	56.1479	ng	95
97)	Benzo[a]anthracene	12.829	228	661139	49.5862	ng	99
98)	Chrysene	12.872	228	609425	49.3205	ng	99
99)	bis(2-Ethylhexyl)phtha...	12.872	149	415392	47.7477	ng	91
101)	Di-n-octylphthalate	13.615	149	745351	51.5910	ng	100
102)	Benzo[b]fluoranthene	14.043	252	728737	51.8655	ng	91
103)	Benzo[k]fluoranthene	14.070	252	631484	47.0446	ng	92
104)	Benzo[a]pyrene	14.401	252	660111	50.2548	ng	91
105)	Indeno[1,2,3-cd]pyrene	15.808	276	773795	52.0770	ng	75
106)	Dibenzo[a,h]anthracene	15.824	278	637575	51.0974	ng	85
107)	Benzo[g,h,i]perylene	16.193	276	629557	51.3047	ng	71

(#) = qualifier out of range (m) = manual integration (+) = signals summed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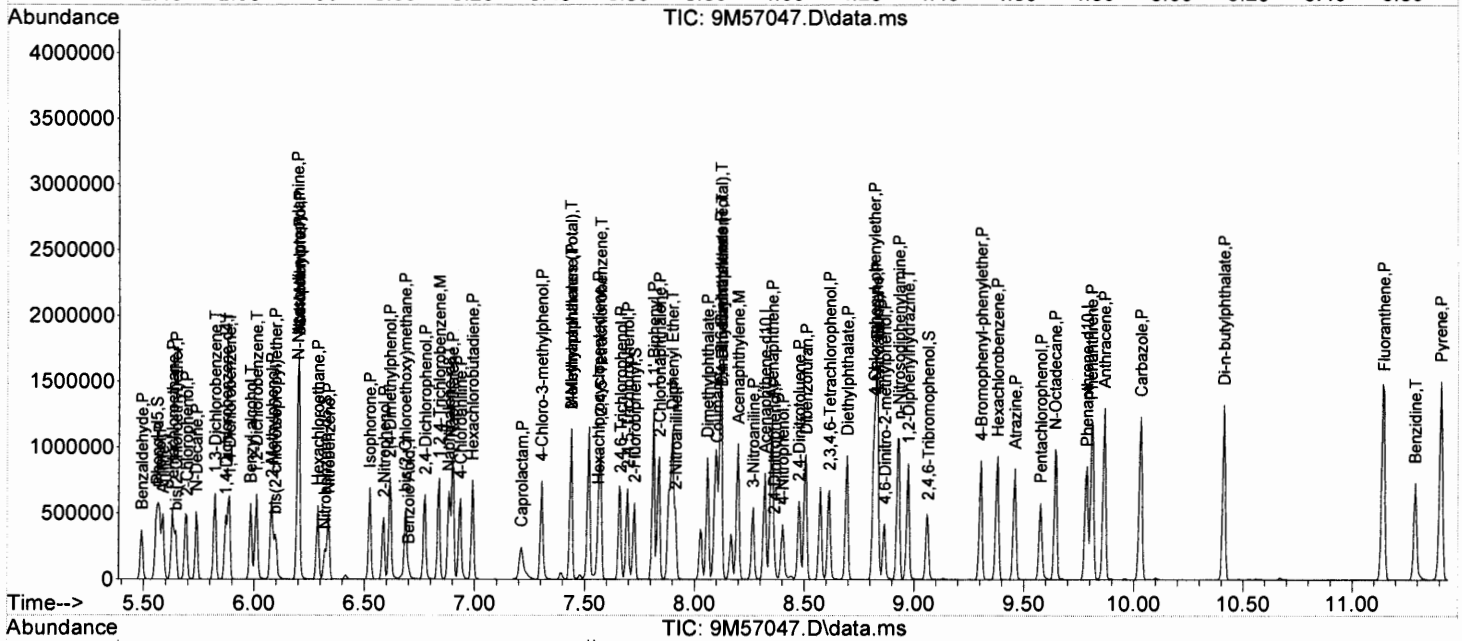
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 9M57047.D
Acq On : 05/28/14 09:27
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 9M_0521.M
Qt On : 05/28/14 09:42
Qt Upd On: 05/22/14 09:17
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
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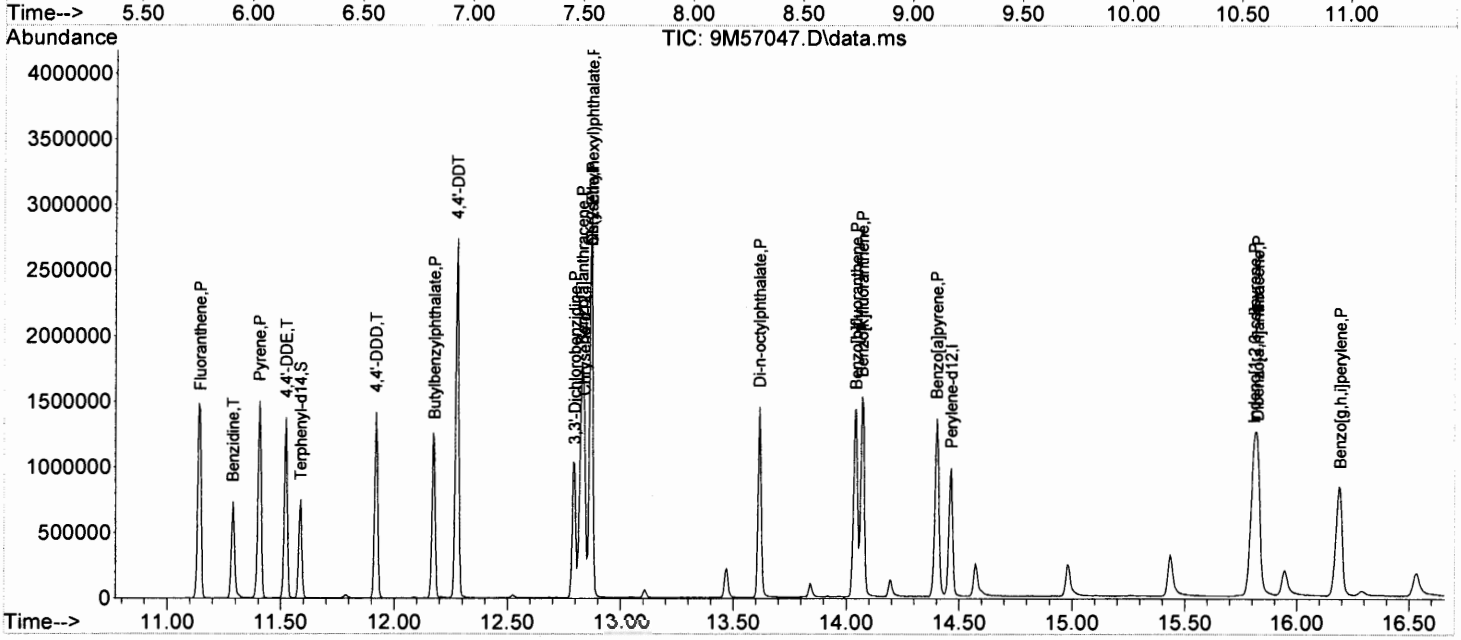
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Hexachlorobutadiene,P
Acenaphthylene,M
3-Nitroaniline,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 9M57047.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M44331.D **Instrument:** GCMS 10

Cont Calibration Date/Time 5/29/2014 9:56:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dichlorobenzene-d4	1	0	I	5.72	40.00	40	**			0.000	0.00	
Pyridine	1	0		2.92	50.38	50	**		1.950	1.965	0.77	
N-Nitrosodimethylamine	1	0		2.85	50.73	50	**		1.172	1.189	1.46	
2-Fluorophenol	1	0	S	4.50	50.33	50	**		1.522	1.532	0.66	
Benzaldehyde	1	0		5.34	39.78	50	20	0.01	1.167	0.928	20.44	
Aniline	1	0		5.44	53.95	50	**		2.260	2.559	7.90	
Pentachloroethane	1	0		5.48	48.13	50	**	0.05	0.579	0.557	3.75	
bis(2-Chloroethyl)ether	1	0		5.49	51.58	50	20	0.7	1.615	1.666	3.15	
Phenol-d5	1	0	S	5.40	50.77	50	**		2.153	2.186	1.53	
Phenol	1	0		5.41	51.88	50	20	0.8	2.310	2.397	3.76	
2-Chlorophenol	1	0		5.54	50.24	50	20	0.8	1.588	1.595	0.49	
N-Decane	1	0		5.59	48.39	50	**	0.05	1.699	1.644	3.22	
1,3-Dichlorobenzene	1	0		5.67	48.45	50	**		1.685	1.633	3.11	
1,4-Dichlorobenzene	1	0		5.74	49.13	50	20		1.692	1.662	1.75	
1,2-Dichlorobenzene	1	0		5.86	49.28	50	**		1.603	1.580	1.43	
Benzyl alcohol	1	0		5.83	51.89	50	**		1.087	1.128	3.79	
bis(2-chloroisopropyl)ether	1	0		5.95	52.07	50	20	0.01	2.276	2.370	4.14	
2-Methylphenol	1	0		5.93	54.35	50	20	0.7	1.456	1.583	8.70	
Acetophenone	1	0		6.05	55.40	50	20	0.01	2.155	2.388	10.80	
Hexachloroethane	1	0		6.14	48.83	50	20	0.3	0.630	0.615	2.35	
N-Nitroso-di-n-propylamine	1	0		6.05	59.24	50	20	0.5	1.107	1.312	18.48	
3&4-Methylphenol	1	0		6.05	57.76	50	20		1.452	1.678	15.53	
Naphthalene-d8	1	0	I	6.73	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.17	23.17	25	**		0.185	0.172	7.33	
Nitrobenzene	1	0		6.18	47.32	50	20	0.2	0.424	0.401	5.35	
Isophorone	1	0		6.37	50.02	50	20	0.4	0.772	0.773	0.04	
2-Nitrophenol	1	0		6.44	49.31	50	20	0.1	0.202	0.194	1.37	
2,4-Dimethylphenol	1	0		6.46	49.64	50	20	0.2	0.389	0.386	0.72	
Benzoic Acid	1	0		6.54	30.31	50	**		0.214	0.114	39.38	
bis(2-Chloroethoxy)methane	1	0		6.54	48.12	50	20	0.3	0.505	0.486	3.76	
2,4-Dichlorophenol	1	0		6.62	50.09	50	20	0.2	0.303	0.304	0.18	
1,2,4-Trichlorobenzene	1	0		6.68	45.10	50	**		0.348	0.313	9.79	
Naphthalene	1	0		6.75	51.75	50	20	0.7	1.158	1.198	3.51	
4-Chloroaniline	1	0		6.78	51.52	50	20	0.01	0.401	0.492	3.05	
Hexachlorobutadiene	1	0		6.84	45.93	50	20	0.01	0.185	0.170	8.14	
Caprolactam	1	0		7.05	56.45	50	20	0.01	0.142	0.162	12.91	
4-Chloro-3-methylphenol	1	0		7.14	53.06	50	20	0.2	0.345	0.366	6.12	
2-Methylnaphthalene	1	0		7.28	51.63	50	**	0.4	0.767	0.792	3.27	
Methylnaphthalenes	1	0		7.28	51.12	50	20			1.564	2.23	
1,1'-Biphenyl	1	0		7.64	49.32	50	20	0.01	0.937	0.925	1.37	
Acenaphthene-d10	1	0	I	8.14	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.40	47.31	50	20	0.01	0.636	0.602	5.38	
Hexachlorocyclopentadiene	1	0		7.40	41.65	50	20	0.05	0.324	0.259	16.71	
2,4,6-Trichlorophenol	1	0		7.49	49.96	50	20	0.2	0.391	0.391	0.09	
2,4,5-Trichlorophenol	1	0		7.52	50.81	50	20	0.2	0.390	0.396	1.63	
2-Fluorobiphenyl	1	0	S	7.56	23.60	25	**		1.474	1.391	5.61	
2-Chloronaphthalene	1	0		7.67	48.16	50	20	0.8	1.228	1.183	3.68	
1,4-Dimethylnaphthalene	1	0		7.94	50.14	50	**		0.986	0.988	0.29	
Dimethylnaphthalenes	1	0		7.94	50.14	50	20			0.988	0.29	
Diphenyl Ether	1	0		7.72	48.49	50	**		0.945	0.917	3.02	
2-Nitroaniline	1	0		7.74	53.55	50	20	0.01	0.448	0.480	7.10	
Coumarin	1	0		7.92	51.69		**		0.553			

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M44331.D **Instrument:** GCMS 10

Cont Calibration Date/Time 5/29/2014 9:56:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Acenaphthylene	1	0		8.01	49.95	50	20	0.9	1.938	1.936	0.09	
Dimethylphthalate	1	0		7.89	50.84	50	20	0.01	1.414	1.438	1.69	
2,6-Dinitrotoluene	1	0		7.94	53.98	50	20	0.2	0.303	0.327	7.95	
Acenaphthene	1	0		8.16	50.08	50	20	0.9	1.272	1.274	0.16	
3-Nitroaniline	1	0		8.08	58.89	50	20	0.01	0.353	0.416	17.77	
2,4-Dinitrophenol	1	0		8.18	48.66	50	20	0.01	0.164	0.150	2.67	
Dibenzofuran	1	0		8.32	50.11	50	20	0.8	1.780	1.784	0.21	
2,4-Dinitrotoluene	1	0		8.29	53.47	50	20	0.2	0.416	0.441	6.93	
4-Nitrophenol	1	0		8.21	57.87	50	20	0.01	0.260	0.312	15.74	
2,3,4,6-Tetrachlorophenol	1	0		8.43	51.47	50	20	0.01	0.336	0.346	2.94	
Fluorene	1	0		8.63	52.41	50	20	0.9	1.468	1.539	4.83	
4-Chlorophenyl-phenylether	1	0		8.62	49.74	50	20	0.4	0.706	0.702	0.52	
Diethylphthalate	1	0		8.51	52.13	50	20	0.01	1.392	1.452	4.27	
4-Nitroaniline	1	0		8.64	56.46	50	20	0.01	0.398	0.449	12.92	
Atrazine	1	0		9.26	54.70	50	20	0.01	0.369	0.404	9.40	
Phenanthrene-d10	1	0	I	9.58	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.67	49.47	50	20	0.01	0.126	0.117	1.06	
n-Nitrosodiphenylamine	1	0		8.74	48.50	50	20	0.01	0.688	0.668	3.01	
2,4,6-Tribromophenol	1	0	S	8.86	48.20	50	**		0.135	0.126	3.60	
1,2-Diphenylhydrazine	1	0		8.78	45.47	50	**		0.937	0.852	9.06	
4-Bromophenyl-phenylether	1	0		9.10	46.44	50	20	0.1	0.235	0.218	7.11	
Hexachlorobenzene	1	0		9.17	46.35	50	20	0.1	0.279	0.259	7.29	
N-Octadecane	1	0		9.45	51.42	50	**	0.05	0.562	0.578	2.85	
Pentachlorophenol	1	0		9.37	48.59	50	20	0.05	0.161	0.147	2.82	
Phenanthrene	1	0		9.60	49.30	50	20	0.7	1.155	1.138	1.41	
Anthracene	1	0		9.66	50.20	50	20	0.7	1.153	1.157	0.39	
Carbazole	1	0		9.82	51.77	50	20	0.01	1.154	1.195	3.55	
Di-n-butylphthalate	1	0		10.21	54.43	50	20	0.01	1.230	1.436	8.86	
Fluoranthene	1	0		10.92	54.22	50	20	0.6	1.273	1.381	8.43	
Chrysene-d12	1	0	I	12.60	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.17	46.30	50	20	0.6	1.238	1.146	7.40	
Benzidine	1	0		11.07	39.90	50	**		0.466	0.413	20.21	
Terphenyl-d14	1	0	S	11.36	22.12	25	**		0.863	0.763	11.53	
4,4'-DDE	1	0		11.30	43.91		**		0.268			
4,4'-DDD	1	0		11.70	47.02		**		0.418			
Butylbenzylphthalate	1	0		11.95	49.51	50	20	0.01	0.550	0.554	0.98	
4,4'-DDT	1	0		12.05	47.00		**		0.403			
3,3'-Dichlorobenzidine	1	0		12.57	57.24	50	20	0.01	0.358	0.452	14.49	
Benzo[a]anthracene	1	0		12.59	49.35	50	20	0.8	1.177	1.162	1.29	
Chrysene	1	0		12.63	48.34	50	20	0.7	1.064	1.028	3.33	
bis(2-Ethylhexyl)phthalate	1	0		12.65	50.93	50	20	0.01	0.692	0.724	1.86	
Perylene-d12	1	0	I	14.20	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.39	50.02	50	20	0.01	1.312	1.356	0.04	
Benzo[b]fluoranthene	1	0		13.80	50.02	50	20	0.7	1.195	1.195	0.03	
Benzo[k]fluoranthene	1	0		13.83	48.06	50	20	0.7	1.195	1.149	3.87	
Benzo[a]pyrene	1	0		14.14	50.67	50	20	0.7	1.143	1.158	1.34	
Indeno[1,2,3-cd]pyrene	1	0		15.44	51.62	50	20	0.5	1.310	1.353	3.23	
Dibenzo[a,h]anthracene	1	0		15.46	51.22	50	20	0.4	1.085	1.112	2.44	
Benzo[g,h,i]perylene	1	0		15.80	51.47	50	20	0.5	1.083	1.115	2.95	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.986	0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M44331.D **Instrument:** GCMS 10

Cont Calibration Date/Time 5/29/2014 9:56:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.530	0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

4052101 0825

SampleID : CAL BNA@50PPM Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44331.D Sam Mult : 1 Vial# : 2 Qt On : 05/29/14 10:21
Acq On : 05/29/14 09:56 Misc : A,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-29-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	61911	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	266719	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	151355	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	293220	40.00	ng	0.00
88) Chrysene-d12	12.603	240	361072	40.00	ng	0.00
100) Perylene-d12	14.197	264	367233	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.505	112	118575	50.33	ng	0.00
Spiked Amount 100.000			Recovery = 50.33%			
15) Phenol-d5	5.403	99	169188	50.77	ng	0.00
Spiked Amount 100.000			Recovery = 50.77%			
30) Nitrobenzene-d5	6.168	128	28607	23.17	ng	0.00
Spiked Amount 50.000			Recovery = 46.34%			
52) 2-Fluorobiphenyl	7.559	172	131583	23.60	ng	0.00
Spiked Amount 50.000			Recovery = 47.20%			
77) 2,4,6-Tribromophenol	8.864	330	46264	48.20	ng	0.00
Spiked Amount 100.000			Recovery = 48.20%			
91) Terphenyl-d14	11.362	244	172204	22.12	ng	0.00
Spiked Amount 50.000			Recovery = 44.24%			
Target Compounds						Qvalue
8) Pyridine	2.916	79	152100	50.3837	ng	74
9) N-Nitrosodimethylamine	2.847	74	92030	50.7315	ng	76
11) Benzaldehyde	5.339	77	71837	39.7785	ng	78
12) Aniline	5.436	93	198010	53.9492	ng	69
13) Pentachloroethane	5.478	117	43098	48.1275	ng	88
14) bis(2-Chloroethyl)ether	5.494	93	128933	51.5768	ng	83
16) Phenol	5.414	94	185494	51.8791	ng	80
17) 2-Chlorophenol	5.537	128	123454	50.2437	ng	82
18) N-Decane	5.591	57	127221	48.3910	ng	84
19) 1,3-Dichlorobenzene	5.671	146	126354	48.4461	ng	96
20) 1,4-Dichlorobenzene	5.735	146	128649	49.1262	ng	98
21) 1,2-Dichlorobenzene	5.858	146	122258	49.2835	ng	97
22) Benzyl alcohol	5.831	108	87287	51.8935	ng	75
23) bis(2-chloroisopropyl)...	5.949	45	183427	52.0718	ng	94
24) 2-Methylphenol	5.928	108	122499	54.3481	ng	96
25) Acetophenone	6.051	105	184766	55.3992	ng	76
26) Hexachloroethane	6.136	117	47589	48.8250	ng	85
27) N-Nitroso-di-n-propyla...	6.051	70	101545	59.2399	ng	70
28) 3&4-Methylphenol	6.051	108	129860	57.7639	ng	99
31) Nitrobenzene	6.184	77	133779	47.3229	ng	81
32) Isophorone	6.372	82	257613	50.0206	ng	91
33) 2-Nitrophenol	6.436	139	64558	49.3130	ng	85
34) 2,4-Dimethylphenol	6.462	107	128745	49.6403	ng	92
35) Benzoic Acid	6.537	105	37943	30.3095	ng	89
36) bis(2-Chloroethoxy)met...	6.537	93	162073	48.1209	ng	97
37) 2,4-Dichlorophenol	6.618	162	101203	50.0917	ng	89
38) 1,2,4-Trichlorobenzene	6.682	180	104517	45.1034	ng	98
39) Naphthalene	6.746	128	399570	51.7544	ng	99
40) 4-Chloroaniline	6.778	127	164053m	51.5247	ng	
41) Hexachlorobutadiene	6.837	225	56742	45.9295	ng	96
42) Caprolactam	7.051	113	53919	56.4547	ng	70
43) 4-Chloro-3-methylphenol	7.142	107	121922	53.0623	ng	84
44) 2-Methylnaphthalene	7.275	142	264087	51.6342	ng	99
45) Methylnaphthalenes (To...	7.275	142	521581m	51.1158	ng	
46) 1,1'-Biphenyl	7.645	154	308242	49.3160	ng	96
48) 1,2,4,5-Tetrachloroben...	7.404	216	113832	47.3082	ng	98
49) Hexachlorocyclopentadiene	7.399	237	49005	41.6455	ng	98
50) 2,4,6-Trichlorophenol	7.495	196	73899	49.9550	ng	99
51) 2,4,5-Trichlorophenol	7.522	196	74930	50.8147	ng	98
53) 2-Chloronaphthalene	7.666	162	223858	48.1580	ng	92
54) 1,4-Dimethylnaphthalene	7.939	156	186989	50.1435	ng	88
55) Dimethylnaphthalenes (...	7.939	156	186989	50.1435	ng	88
56) Diphenyl Ether	7.725	170	173478	48.4897	ng	81
57) 2-Nitroaniline	7.741	65	90844	53.5494	ng	59
58) Coumarin	7.923	146	108211	51.6933	ng	83
59) Acenaphthylene	8.014	152	366341	49.9543	ng	100
60) Dimethylphthalate	7.885	163	272122	50.8433	ng	98
61) 2,6-Dinitrotoluene	7.939	165	61815	53.9762	ng	66
62) Acenaphthene	8.163	153	241059	50.0779	ng	97
63) 3-Nitroaniline	8.083	138	78668	58.8865	ng	83
64) 2,4-Dinitrophenol	8.179	184	28389	48.6645	ng	35
65) Dibenzofuran	8.318	168	337573	50.1067	ng	84

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM
Data File: 10M44331.D
Acq On : 05/29/14 09:56

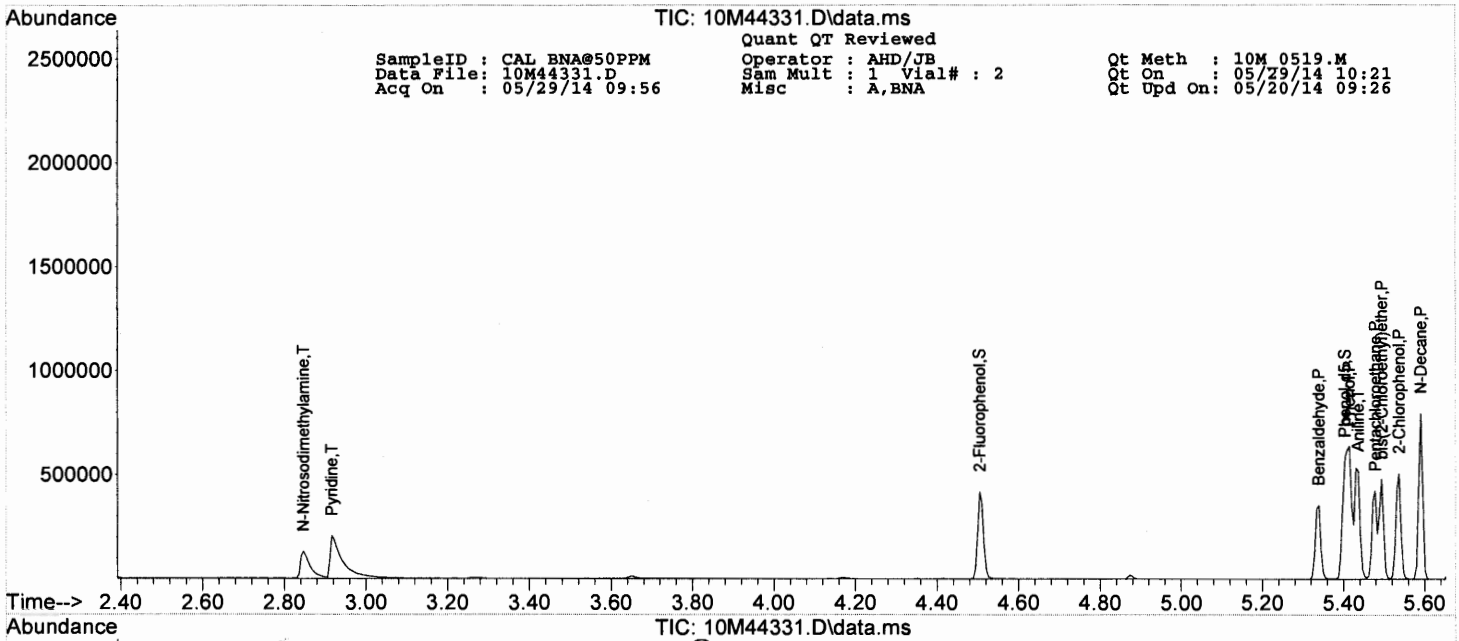
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA

Qt Meth : 10M_0519.M
Qt On : 05/29/14 10:21
Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-29-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	2,4-Dinitrotoluene	8.292	165	83463	53.4662	ng	69
67)	4-Nitrophenol	8.211	65	59102	57.8691	ng	95
68)	2,3,4,6-Tetrachlorophenol	8.425	232	65368	51.4692	ng	82
69)	Fluorene	8.634	166	291228	52.4126	ng	99
70)	4-Chlorophenyl-phenyle...	8.623	204	132845	49.7402	ng	85
71)	Diethylphthalate	8.511	149	274637	52.1328	ng	96
72)	4-Nitroaniline	8.639	138	84950	56.4605	ng	69
73)	Atrazine	9.260	200	76370	54.7007	ng	95
75)	4,6-Dinitro-2-methylph...	8.671	198	42927	49.4689	ng	65
76)	n-Nitrosodiphenylamine	8.736	169	244703	48.4954	ng	99
78)	1,2-Diphenylhydrazine	8.778	77	312281	45.4695	ng	86
79)	4-Bromophenyl-phenylether	9.105	248	79860	46.4426	ng	83
80)	Hexachlorobenzene	9.174	284	94760	46.3533	ng	61
81)	N-Octadecane	9.447	57	211901	51.4240	ng	80
82)	Pentachlorophenol	9.372	266	53734	48.5876	ng	97
83)	Phenanthrene	9.597	178	417213	49.2950	ng	100
84)	Anthracene	9.656	178	424172	50.1975	ng	99
85)	Carbazole	9.821	167	437985	51.7737	ng	97
86)	Di-n-butylphthalate	10.207	149	526506	54.4293	ng	97
87)	Fluoranthene	10.918	202	506132	54.2174	ng	97
89)	Pyrene	11.175	202	517388	46.3015	ng	98
90)	Benzidine	11.068	184	186419	39.8968	ng	94
92)	4,4'-DDE	11.303	246	106141	43.9140	ng	86
93)	4,4'-DDD	11.699	235	177349	47.0158	ng	95
94)	Butylbenzylphthalate	11.950	149	250220	49.5111	ng	80
95)	4,4'-DDT	12.052	235	171005	46.9952	ng	98
96)	3,3'-Dichlorobenzidine	12.565	252	204182	57.2440	ng	96
97)	Benzo[a]anthracene	12.587	228	524352	49.3544	ng	98
98)	Chrysene	12.629	228	464161	48.3350	ng	100
99)	bis(2-Ethylhexyl)phtha...	12.651	149	326686	50.9303	ng	91
101)	Di-n-octylphthalate	13.394	149	622613	50.0185	ng	100
102)	Benzo[b]fluoranthene	13.795	252	548764	50.0158	ng	97
103)	Benzo[k]fluoranthene	13.828	252	527501m	48.0634	ng	
104)	Benzo[a]pyrene	14.138	252	531696	50.6698	ng	95
105)	Indeno[1,2,3-cd]pyrene	15.443	276	620985	51.6170	ng	86
106)	Dibenzo[a,h]anthracene	15.464	278	510437	51.2204	ng	90
107)	Benzo[g,h,i]perylene	15.796	276	511611	51.4727	ng	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed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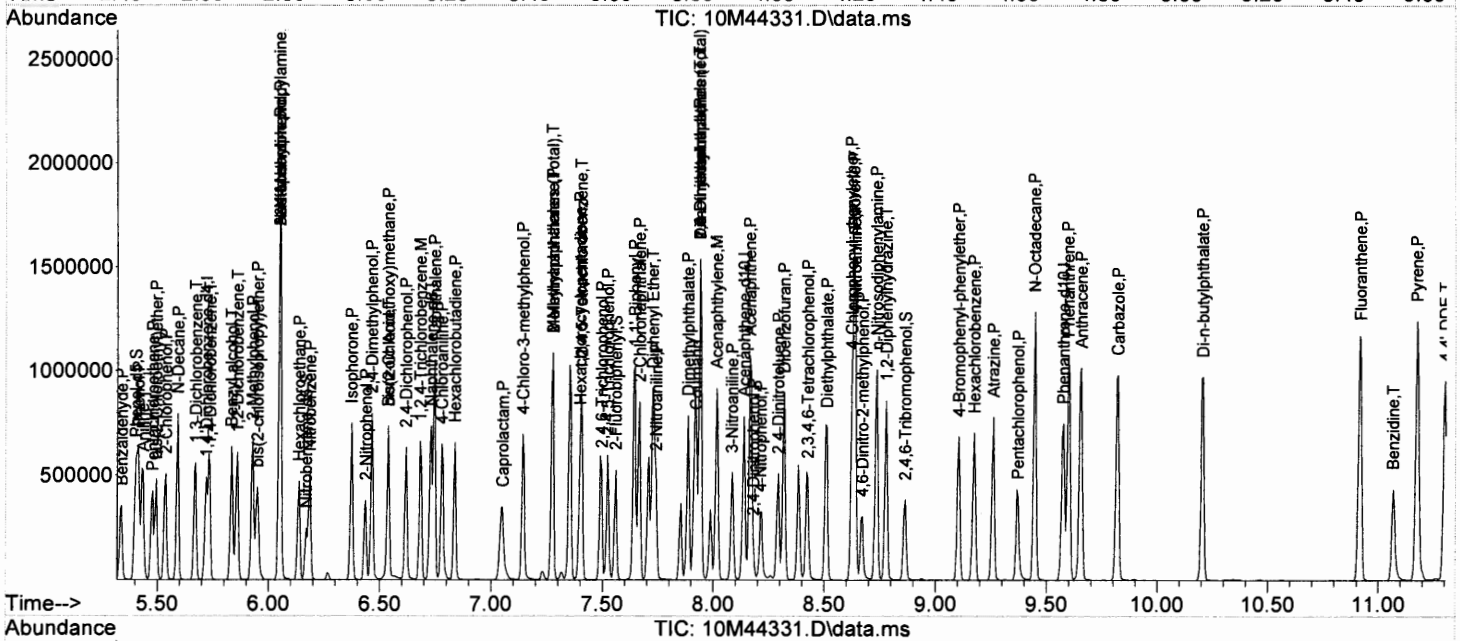
TIC: 10M44331.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 10M44331.D
Acq On : 05/29/14 09:56
Operator : AHD/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/29/14 10:21
Qt Upd On: 05/20/14 09:26
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time-->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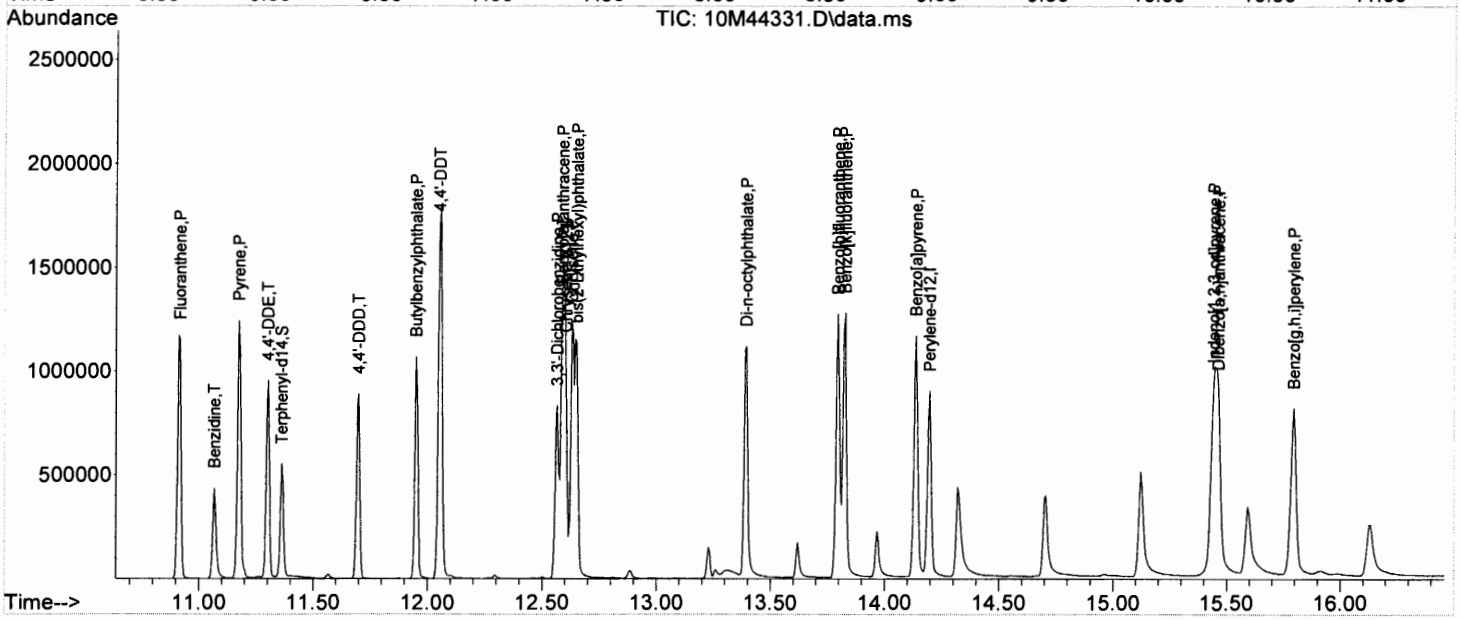
Acenaphthylene,M
3-Nitroaniline,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M44331.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,S
Benzo[g,h,i]perylene,P
Time-->

GC/MS Semi-Volatile Data
Raw QC Data

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10

Data File: 10M44104.D
Analysis Date: 05/19/14 08:51
Method: EPA 8270D

Tune Scan/Time Range: Scan 1398

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.8	38656	PASS
68	69	0.00	2	1.6	687	PASS
69	198	0.00	100	51.7	41848	PASS
70	69	0.00	2	0.5	213	PASS
127	198	40	60	56.5	45688	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	80872	PASS
199	198	5	9	6.9	5603	PASS
275	198	10	30	23.0	18568	PASS
365	198	1	100	2.5	2045	PASS
441	443	0.01	100	77.4	9458	PASS
442	198	40	100	75.3	60864	PASS
443	442	17	23	20.1	12227	PASS

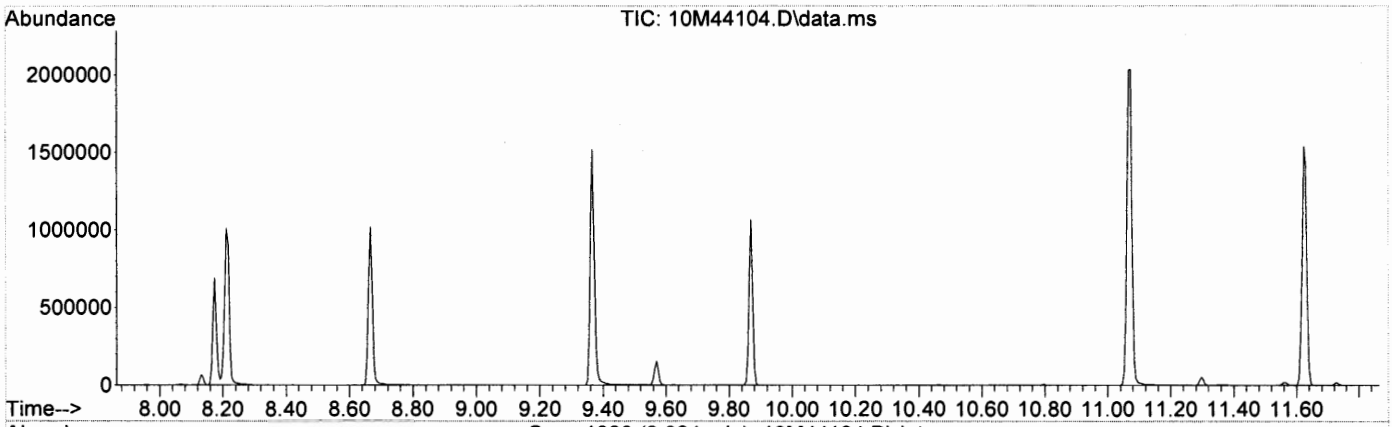
Data File	Sample Number	Analysis Date:
10M44105.D	CAL BNA@196PP	05/19/14 09:38
10M44106.D	CAL BNA@50PPM	05/19/14 10:01
10M44107.D	CAL BNA@160PP	05/19/14 10:26
10M44108.D	CAL BNA@120PP	05/19/14 10:49
10M44109.D	CAL BNA@80PPM	05/19/14 11:13
10M44110.D	CAL BNA@20PPM	05/19/14 11:39
10M44111.D	CAL BNA@10PPM	05/19/14 12:01
10M44112.D	CAL BNA@2PPM	05/19/14 12:28
10M44113.D	CAL BNA@.5PPM	05/19/14 12:50
10M44114.D	CAL BNA@50PPM	05/19/14 13:13
10M44115.D	ICV BNA@50PPM	05/19/14 13:50

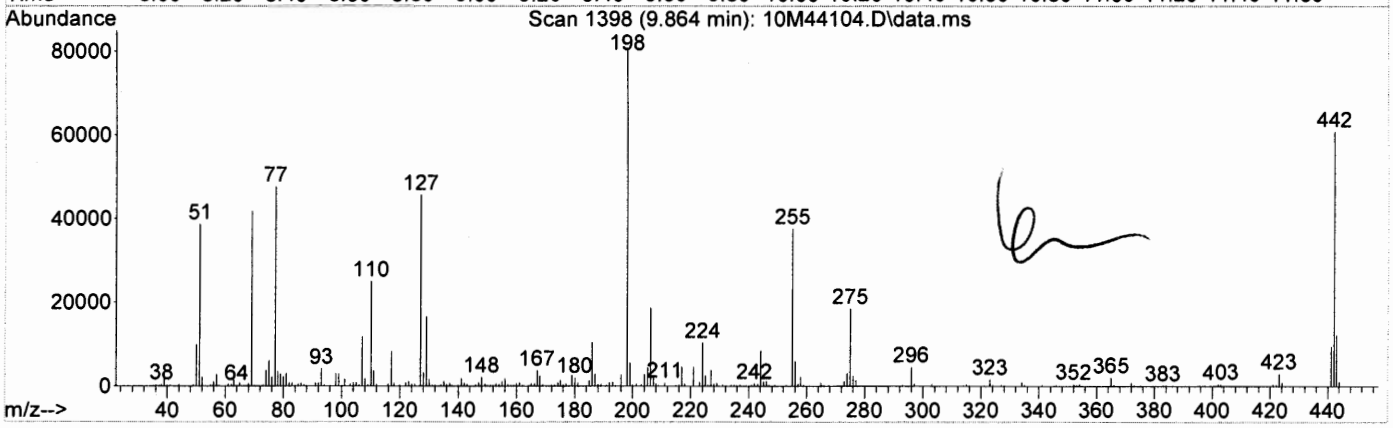
4052101 0830

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-19-14\
Data File : 10M44104.D
Acq On : 19 May 2014 8:51
Operator : AHD/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2014\GCMS_10\METHODQT\10M_0429.M
Title : @GCMS_10,mg,625,8270
Last Update : Tue Apr 29 15:05:41 2014





Spectrum Information: Scan 1398

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.8	38656	PASS
68	69	0.00	2	1.6	687	PASS
69	198	0.00	100	51.7	41848	PASS
70	69	0.00	2	0.5	213	PASS
127	198	40	60	56.5	45688	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	80872	PASS
199	198	5	9	6.9	5603	PASS
275	198	10	30	23.0	18568	PASS
365	198	1	100	2.5	2045	PASS
441	443	0.01	100	77.4	9458	PASS
442	198	40	100	75.3	60864	PASS
443	442	17	23	20.1	12227	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M56925.D
Instrument: GCMS 9 **Analysis Date:** 05/21/14 08:54
Method: EPA 8270D
Tune Scan/Time Range: Average of 10.075 to 10.085 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.2	24569	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.0	31715	PASS
70	69	0.00	2	0.8	238	PASS
127	198	40	60	56.5	37320	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	66080	PASS
199	198	5	9	7.0	4628	PASS
275	198	10	30	28.6	18912	PASS
365	198	1	100	4.2	2757	PASS
441	443	0.01	100	76.3	7891	PASS
442	198	40	100	78.4	51832	PASS
443	442	17	23	20.0	10344	PASS

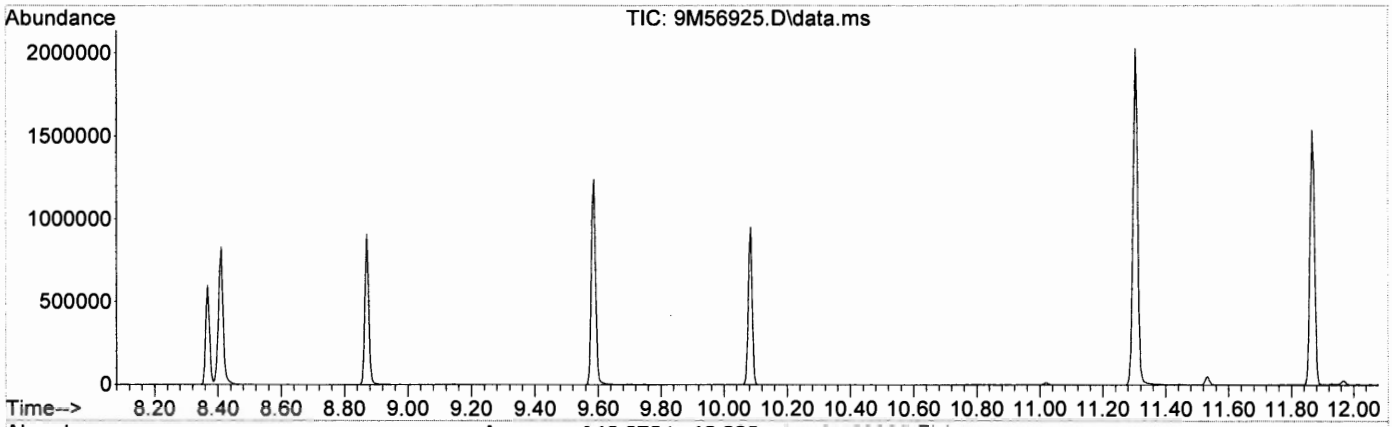
Data File	Sample Number	Analysis Date:
9M56926.D	CAL BNA@50PPM	05/21/14 09:18
9M56927.D	CAL BNA@10PPM	05/21/14 09:44
9M56928.D	CAL BNA@2PPM	05/21/14 10:07
9M56929.D	CAL BNA@.5PPM	05/21/14 10:31
9M56930.D	CAL BNA@20PPM	05/21/14 10:54
9M56931.D	CAL BNA@80PPM	05/21/14 11:18
9M56932.D	CAL BNA@120PP	05/21/14 11:41
9M56933.D	CAL BNA@160PP	05/21/14 12:05
9M56934.D	CAL BNA@196PP	05/21/14 12:29
9M56935.D	ICV BNA@50PPM	05/21/14 13:04

4052101 0832

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-21-14\
Data File : 9M56925.D
Acq On : 21 May 2014 8:54
Operator : AHD/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2014\GCMS_9\MethodQt\9M_0428.M
Title : @GCMS_9,mg,625,8270
Last Update : Mon Apr 28 15:09:33 2014



Spectrum Information: Average of 10.075 to 10.085 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.2	24569	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.0	31715	PASS
70	69	0.00	2	0.8	238	PASS
127	198	40	60	56.5	37320	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	66080	PASS
199	198	5	9	7.0	4628	PASS
275	198	10	30	28.6	18912	PASS
365	198	1	100	4.2	2757	PASS
441	443	0.01	100	76.3	7891	PASS
442	198	40	100	78.4	51832	PASS
443	442	17	23	20.0	10344	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10

Data File: 10M44240.D
Analysis Date: 05/23/14 08:48
Method: EPA 8270D

Tune Scan/Time Range: Average of 9.864 to 9.869 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.7	33976	PASS
68	69	0.00	2	1.6	571	PASS
69	198	0.00	100	50.6	36040	PASS
70	69	0.00	2	0.4	131	PASS
127	198	40	60	55.5	39484	PASS
197	198	0.00	1	0.5	348	PASS
198	198	100	100	100.0	71172	PASS
199	198	5	9	6.8	4875	PASS
275	198	10	30	23.2	16488	PASS
365	198	1	100	2.8	2007	PASS
441	443	0.01	100	74.1	9048	PASS
442	198	40	100	85.6	60936	PASS
443	442	17	23	20.0	12215	PASS

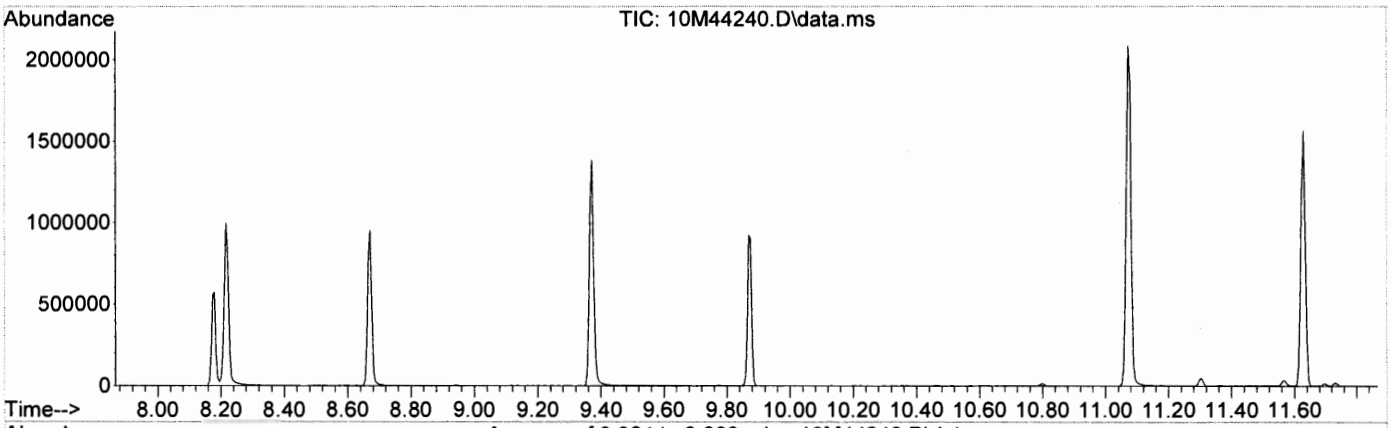
Data File	Sample Number	Analysis Date:
10M44241.D	CAL BNA@50PPM	05/23/14 09:17
10M44242.D	WMB33889(MS)	05/23/14 09:50
10M44243.D	WMB33889	05/23/14 10:12
10M44244.D	AC78787-003	05/23/14 10:52
10M44245.D	AC78787-003(MS)	05/23/14 11:14
10M44246.D	AC78787-003(MSD	05/23/14 11:36
10M44247.D	AC78787-016	05/23/14 11:58
10M44248.D	AC78787-005	05/23/14 12:20
10M44249.D	AC78787-009	05/23/14 12:42
10M44250.D	AC78787-011	05/23/14 13:05
10M44251.D	AC78773-002	05/23/14 13:26
10M44252.D	AC78788-003	05/23/14 13:49
10M44253.D	AC78788-004	05/23/14 14:11
10M44254.D	AC78788-005	05/23/14 14:33
10M44255.D	AC78787-016(3X)	05/23/14 14:55
10M44256.D	WMB33900(MS)	05/23/14 15:53
10M44257.D	WMB33900	05/23/14 16:15
10M44258.D	AC78793-001	05/23/14 16:39
10M44259.D	AC78793-001(MS)	05/23/14 17:01
10M44260.D	AC78793-001(MSD	05/23/14 17:24
10M44261.D	AC78790-003	05/23/14 17:45
10M44262.D	AC78792-009	05/23/14 18:07
10M44263.D	AC78818-003	05/23/14 18:29
10M44264.D	AC78798-001	05/23/14 18:51
10M44265.D	AC78798-002	05/23/14 19:13
10M44266.D	AC78800-013	05/23/14 19:35
10M44267.D	AC78807-001	05/23/14 19:57
10M44268.D	AC78807-002	05/23/14 20:19
10M44269.D	AC78805-001	05/23/14 20:41
10M44270.D	AC78805-002	05/23/14 21:03
10M44271.D	AC78808-001	05/23/14 21:25
10M44272.D	AC78808-002	05/23/14 21:47
10M44273.D	AC78809-001	05/23/14 22:09
10M44274.D	AC78809-002	05/23/14 22:31
10M44275.D	AC78815-002	05/23/14 22:53
10M44276.D	AC78817-001	05/23/14 23:15

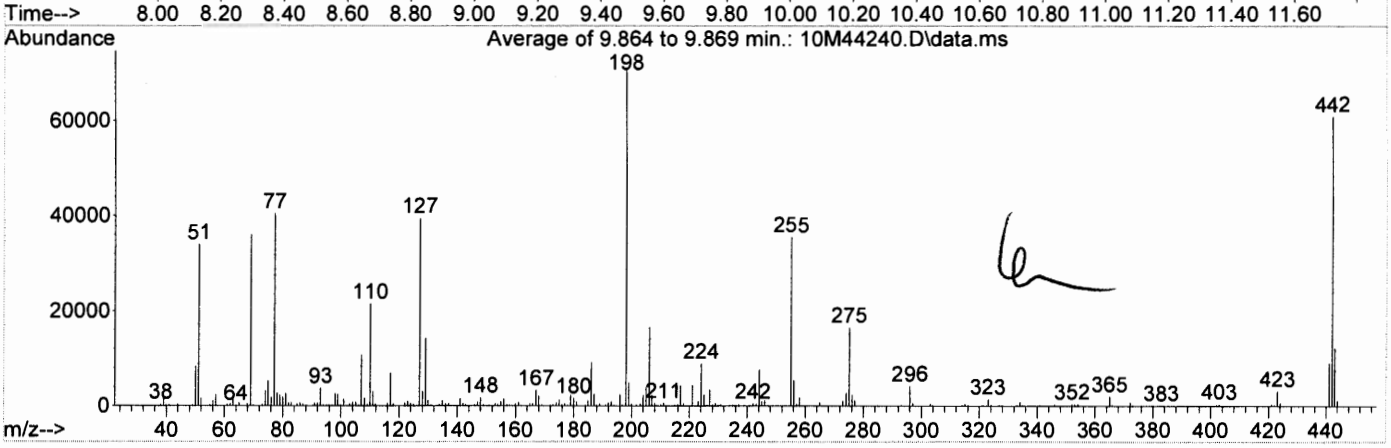
4052101 0834

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Data File : 10M44240.D
Acq On : 23 May 2014 8:48
Operator : AHD/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2014\GCMS_10\METHODQT\10M_0519.M
Title : @GCMS_10,mg,625,8270
Last Update : Mon May 19 13:46:08 2014





Spectrum Information: Average of 9.864 to 9.869 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.7	33976	PASS
68	69	0.00	2	1.6	571	PASS
69	198	0.00	100	50.6	36040	PASS
70	69	0.00	2	0.4	131	PASS
127	198	40	60	55.5	39484	PASS
197	198	0.00	1	0.5	348	PASS
198	198	100	100	100.0	71172	PASS
199	198	5	9	6.8	4875	PASS
275	198	10	30	23.2	16488	PASS
365	198	1	100	2.8	2007	PASS
441	443	0.01	100	74.1	9048	PASS
442	198	40	100	85.6	60936	PASS
443	442	17	23	20.0	12215	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10

Data File: 10M44277.D
Analysis Date: 05/27/14 08:26
Method: EPA 8270D

Tune Scan/Time Range: Scan 1398

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	49.2	45472	PASS
68	69	0.00	2	1.4	674	PASS
69	198	0.00	100	52.6	48632	PASS
70	69	0.00	2	0.6	296	PASS
127	198	40	60	56.4	52208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	92512	PASS
199	198	5	9	7.2	6663	PASS
275	198	10	30	22.4	20736	PASS
365	198	1	100	2.6	2374	PASS
441	443	0.01	100	72.4	10427	PASS
442	198	40	100	77.7	71840	PASS
443	442	17	23	20.0	14397	PASS

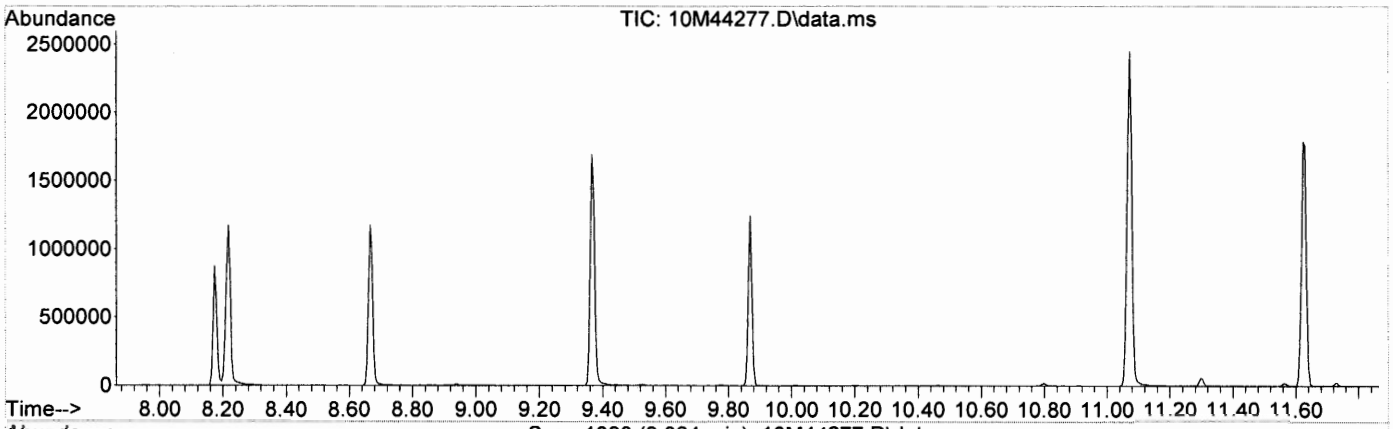
Data File	Sample Number	Analysis Date:
10M44278.D	CAL BNA@50PPM	05/27/14 09:02
10M44279.D	SMB33901	05/27/14 09:44
10M44280.D	WMB33905	05/27/14 10:06
10M44281.D	SMB33899	05/27/14 10:28
10M44282.D	AC78801-019	05/27/14 10:50
10M44283.D	AC78801-020	05/27/14 11:12
10M44284.D	AC78801-023	05/27/14 11:34
10M44285.D	AC78801-024	05/27/14 11:56
10M44286.D	AC78801-026	05/27/14 12:18
10M44287.D	AC78801-027	05/27/14 12:41
10M44288.D	AC78801-028	05/27/14 13:03
10M44289.D	AC78735-013	05/27/14 13:25
10M44290.D	AC78735-014	05/27/14 13:47
10M44291.D	AC78735-016	05/27/14 14:09
10M44292.D	AC78735-017	05/27/14 14:32
10M44293.D	AC78735-033	05/27/14 14:54
10M44294.D	AC78735-034	05/27/14 15:16
10M44295.D	WMB33918	05/27/14 15:43
10M44296.D	SMB33917	05/27/14 16:06
10M44297.D	AC78787-019	05/27/14 16:28
10M44298.D	AC78787-020	05/27/14 16:50
10M44299.D	AC78787-007	05/27/14 17:12
10M44300.D	AC78787-008	05/27/14 17:35
10M44301.D	AC78787-023	05/27/14 17:57
10M44302.D	AC78787-024	05/27/14 18:19
10M44303.D	AC78787-025	05/27/14 18:41
10M44304.D	AC78787-026	05/27/14 19:04

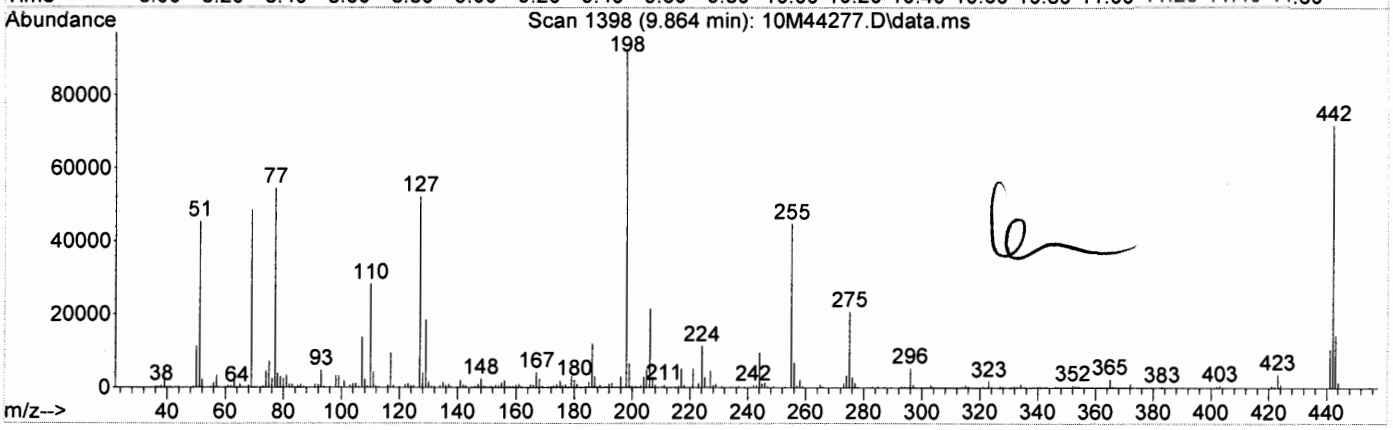
4052101 0836

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-27-14\
Data File : 10M44277.D
Acq On : 27 May 2014 8:26
Operator : AHD/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2014\GCMS_10\METHODQT\10M_0519.M
Title : @GCMS_10,mg,625,8270
Last Update : Mon May 19 13:46:08 2014





Spectrum Information: Scan 1398

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.2	45472	PASS
68	69	0.00	2	1.4	674	PASS
69	198	0.00	100	52.6	48632	PASS
70	69	0.00	2	0.6	296	PASS
127	198	40	60	56.4	52208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	92512	PASS
199	198	5	9	7.2	6663	PASS
275	198	10	30	22.4	20736	PASS
365	198	1	100	2.6	2374	PASS
441	443	0.01	100	72.4	10427	PASS
442	198	40	100	77.7	71840	PASS
443	442	17	23	20.0	14397	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M57019.D
Instrument: GCMS 9 **Analysis Date:** 05/27/14 09:01
Method: EPA 8270D

Tune Scan/Time Range: Average of 10.069 to 10.069 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	38.1	39912	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.9	51192	PASS
70	69	0.00	2	0.8	388	PASS
127	198	40	60	58.0	60728	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	104768	PASS
199	198	5	9	6.9	7244	PASS
275	198	10	30	27.7	29032	PASS
365	198	1	100	3.7	3869	PASS
441	443	0.01	100	74.7	10297	PASS
442	198	40	100	67.8	71016	PASS
443	442	17	23	19.4	13789	PASS

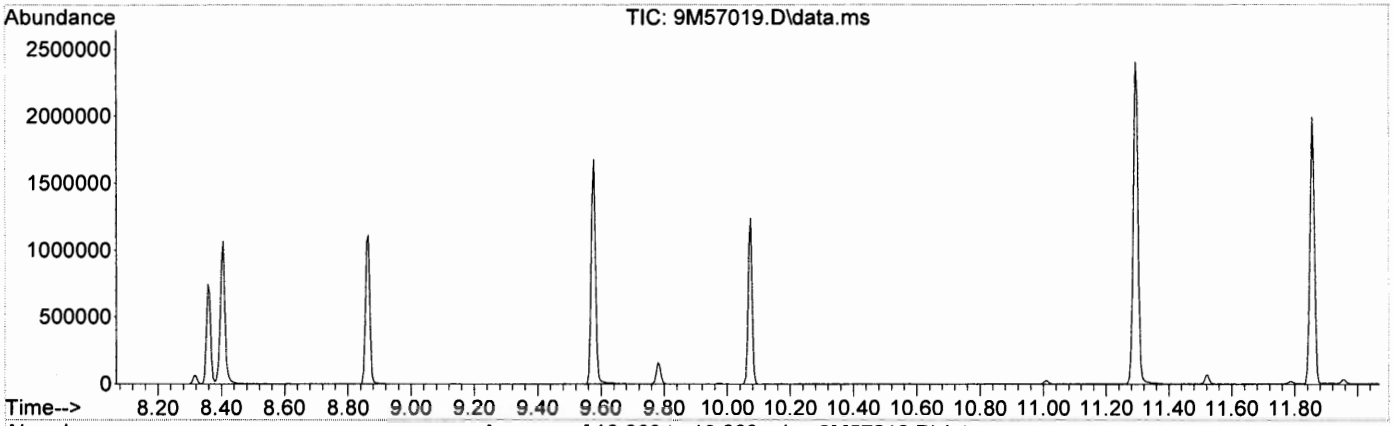
Data File	Sample Number	Analysis Date:
9M57020.D	CAL BNA@50PPM	05/27/14 09:26
9M57021.D	SMB33901(MS)	05/27/14 10:07
9M57022.D	SMB33901	05/27/14 10:30
9M57023.D	AC78735-011	05/27/14 10:54
9M57024.D	AC78735-011(MS)	05/27/14 11:17
9M57025.D	AC78735-011(MSD	05/27/14 11:41
9M57026.D	AC78774-001	05/27/14 12:04
9M57027.D	AC78801-022	05/27/14 12:28
9M57028.D	AC78801-025	05/27/14 12:52
9M57029.D	AC78733-004	05/27/14 13:15
9M57030.D	AC78735-037	05/27/14 13:39
9M57031.D	AC78735-038	05/27/14 14:03
9M57032.D	AC78735-039(3X)	05/27/14 14:27
9M57033.D	AC78735-041	05/27/14 14:50
9M57034.D	AC78801-019	05/27/14 15:14
9M57035.D	AC78735-029	05/27/14 15:38
9M57036.D	AC78735-030	05/27/14 16:01
9M57037.D	SMB33917(MS)	05/27/14 16:25
9M57038.D	SMB33917	05/27/14 16:49
9M57039.D	AC78692-028(3X)	05/27/14 17:13
9M57040.D	AC78692-028(3X)(	05/27/14 17:37
9M57041.D	AC78692-028(3X)(	05/27/14 18:01
9M57042.D	AC78787-014	05/27/14 18:25
9M57043.D	AC78787-015	05/27/14 18:48
9M57044.D	AC78787-022	05/27/14 19:12
9M57045.D	AC78787-021	05/27/14 19:36

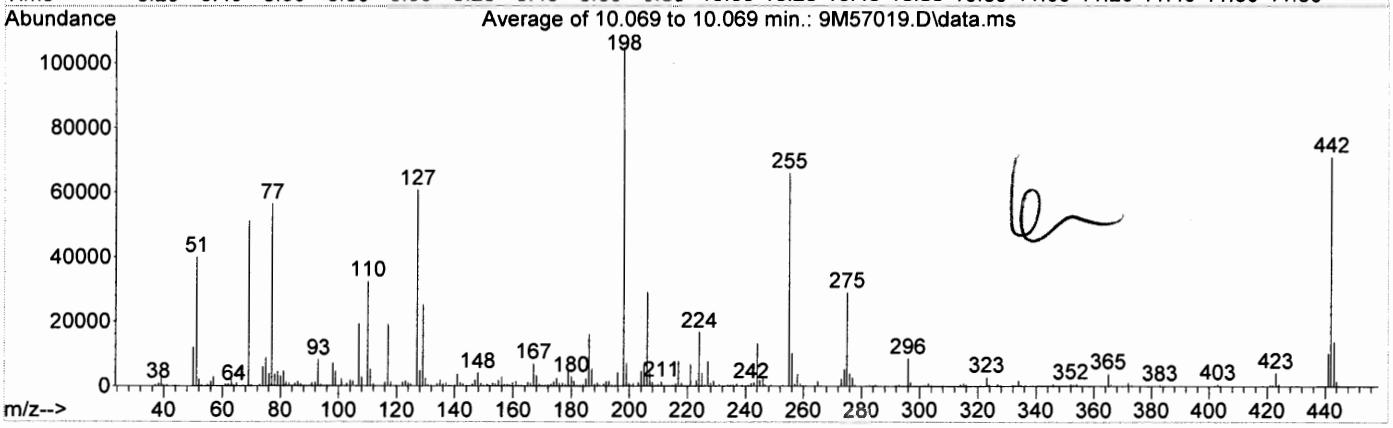
4052101 0838

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-27-14\
Data File : 9M57019.D
Acq On : 27 May 2014 9:01
Operator : AHD/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2014\GCMS_9\MethodQt\9M_0521.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed May 21 12:53:37 2014





Spectrum Information: Average of 10.069 to 10.069 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.1	39912	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.9	51192	PASS
70	69	0.00	2	0.8	388	PASS
127	198	40	60	58.0	60728	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	104768	PASS
199	198	5	9	6.9	7244	PASS
275	198	10	30	27.7	29032	PASS
365	198	1	100	3.7	3869	PASS
441	443	0.01	100	74.7	10297	PASS
442	198	40	100	67.8	71016	PASS
443	442	17	23	19.4	13789	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9

Data File: 9M57046.D
Analysis Date: 05/28/14 08:55
Method: EPA 8270D

Tune Scan/Time Range: Scan 1455

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	32.2	45344	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.5	59840	PASS
70	69	0.00	2	0.5	286	PASS
127	198	40	60	53.2	74944	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	140800	PASS
199	198	5	9	6.8	9597	PASS
275	198	10	30	29.1	40928	PASS
365	198	1	100	4.2	5884	PASS
441	443	0.01	100	73.2	16624	PASS
442	198	40	100	80.3	113080	PASS
443	442	17	23	20.1	22720	PASS

Data File	Sample Number	Analysis Date:
9M57047.D	CAL BNA@50PPM	05/28/14 09:27
9M57048.D	AC78787-001(10X)	05/28/14 11:59
9M57049.D	AC78787-002(50X)	05/28/14 12:22
9M57050.D	AC78774-001(R)	05/28/14 16:01
9M57051.D	SMB33927(MS)	05/28/14 17:04
9M57052.D	SMB33927	05/28/14 17:27
9M57053.D	AC78871-001	05/28/14 17:50
9M57054.D	AC78871-001(MS)	05/28/14 18:13
9M57055.D	AC78871-001(MSD	05/28/14 18:36
9M57056.D	AC78871-002	05/28/14 18:59
9M57057.D	AC78801-028(R)	05/28/14 19:23
9M57058.D	AC78801-019(R)	05/28/14 19:46
9M57059.D	AC78825-001	05/28/14 20:09
9M57060.D	AC78825-002	05/28/14 20:32
9M57061.D	AC78787-018	05/28/14 20:56

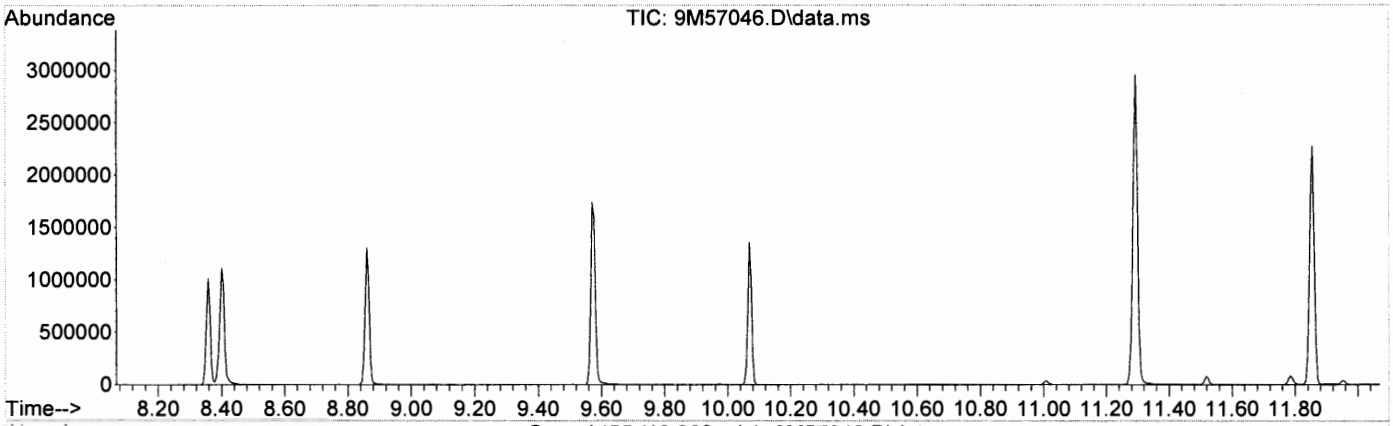
DFTPP

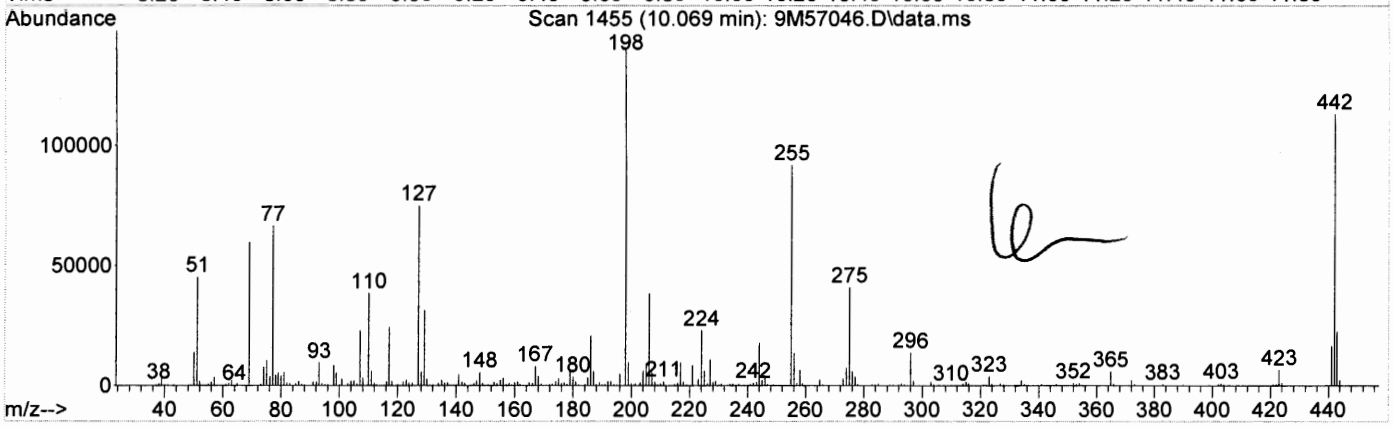
4052101 0840

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-28-14\
Data File : 9M57046.D
Acq On : 28 May 2014 8:55
Operator : AHD/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2014\GCMS_9\MethodQt\9M_0521.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed May 21 12:53:37 2014





Spectrum Information: Scan 1455

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.2	45344	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.5	59840	PASS
70	69	0.00	2	0.5	286	PASS
127	198	40	60	53.2	74944	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	140800	PASS
199	198	5	9	6.8	9597	PASS
275	198	10	30	29.1	40928	PASS
365	198	1	100	4.2	5884	PASS
441	443	0.01	100	73.2	16624	PASS
442	198	40	100	80.3	113080	PASS
443	442	17	23	20.1	22720	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 10M44305.D
Instrument: GCMS 10 **Analysis Date:** 05/28/14 08:55
Method: EPA 8270D
Tune Scan/Time Range: Average of 9.859 to 9.870 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	46.6	32522	PASS
68	69	0.00	2	1.5	517	PASS
69	198	0.00	100	49.5	34537	PASS
70	69	0.00	2	0.5	161	PASS
127	198	40	60	54.8	38231	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	69790	PASS
199	198	5	9	7.0	4873	PASS
275	198	10	30	23.5	16408	PASS
365	198	1	100	2.7	1918	PASS
441	443	0.01	100	73.9	9045	PASS
442	198	40	100	88.7	61871	PASS
443	442	17	23	19.8	12246	PASS

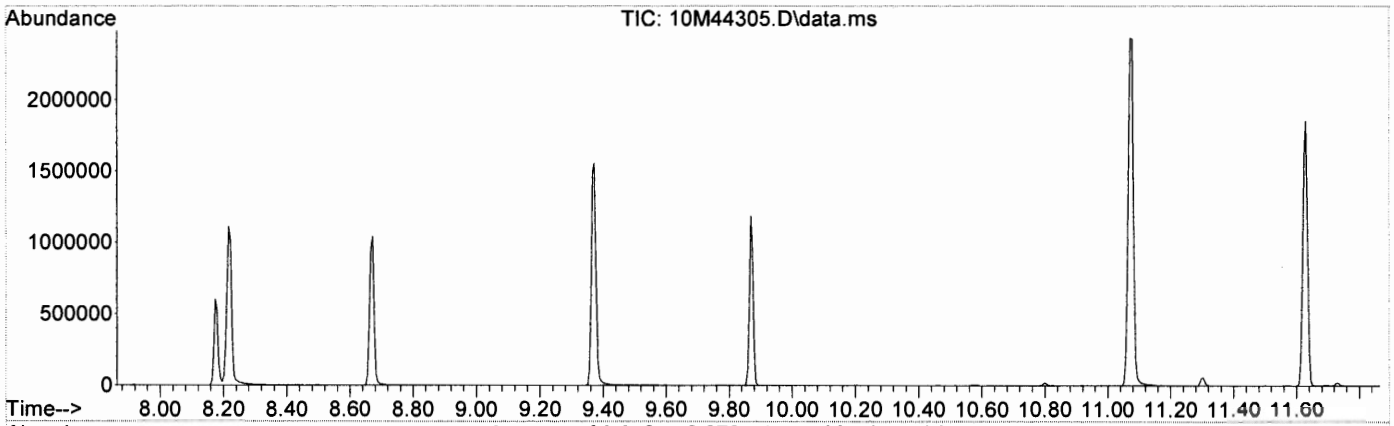
Data File	Sample Number	Analysis Date:
10M44306.D	CAL BNA@50PPM	05/28/14 09:24
10M44307.D	AC78832-002	05/28/14 11:00
10M44308.D	AC78787-008	05/28/14 11:22
10M44309.D	WMB33921(MS)	05/28/14 14:26
10M44310.D	WMB33921	05/28/14 14:48
10M44311.D	AC78855-005	05/28/14 15:09
10M44312.D	AC78847-001	05/28/14 15:31
10M44313.D	AC78847-002	05/28/14 15:53
10M44314.D	AC78858-001	05/28/14 16:15
10M44315.D	AC78858-002	05/28/14 16:37
10M44316.D	AC78858-003	05/28/14 16:59
10M44317.D	AC78858-004	05/28/14 17:21
10M44318.D	WMB33925(MS)	05/28/14 17:43
10M44319.D	WMB33925	05/28/14 18:05
10M44320.D	EF-SPLP V-185566	05/28/14 18:27
10M44321.D	AC78583-003(T)	05/28/14 18:48
10M44322.D	AC78581-009(T)	05/28/14 19:10
10M44323.D	SMB33927	05/28/14 19:32
10M44324.D	AC78801-020(R)	05/28/14 19:54
10M44325.D	AC78801-024(R)	05/28/14 20:16
10M44326.D	AC78801-026(R)	05/28/14 20:38
10M44327.D	AC78860-001	05/28/14 21:00
10M44328.D	AC78860-002	05/28/14 21:22

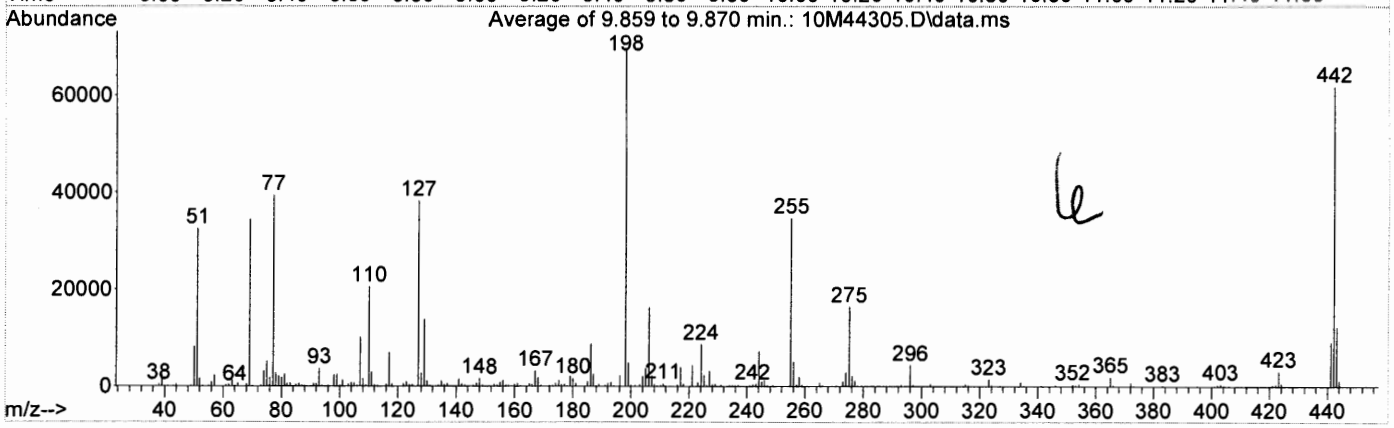
4052101 0842

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-28-14\
Data File : 10M44305.D
Acq On : 28 May 2014 8:55
Operator : AHD/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2014\GCMS_10\METHODQT\10M_0519.M
Title : @GCMS_10,mg,625,8270
Last Update : Mon May 19 13:46:08 2014





Spectrum Information: Average of 9.859 to 9.870 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.6	32522	PASS
68	69	0.00	2	1.5	517	PASS
69	198	0.00	100	49.5	34537	PASS
70	69	0.00	2	0.5	161	PASS
127	198	40	60	54.8	38231	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	69790	PASS
199	198	5	9	7.0	4873	PASS
275	198	10	30	23.5	16408	PASS
365	198	1	100	2.7	1918	PASS
441	443	0.01	100	73.9	9045	PASS
442	198	40	100	88.7	61871	PASS
443	442	17	23	19.8	12246	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10

Data File: 10M44329.D
Analysis Date: 05/29/14 08:58
Method: EPA 8270D

Tune Scan/Time Range: Scan 1398

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	46.9	46344	PASS
68	69	0.00	2	1.6	776	PASS
69	198	0.00	100	49.5	48920	PASS
70	69	0.00	2	0.6	300	PASS
127	198	40	60	55.3	54696	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	98848	PASS
199	198	5	9	6.9	6792	PASS
275	198	10	30	22.2	21912	PASS
365	198	1	100	2.4	2345	PASS
441	443	0.01	100	73.0	11216	PASS
442	198	40	100	76.8	75888	PASS
443	442	17	23	20.3	15369	PASS

Data File	Sample Number	Analysis Date:
10M44330.D	BNA@50PPM	05/29/14 09:26
10M44331.D	CAL BNA@50PPM	05/29/14 09:56
10M44332.D	MECL2 TEST	05/29/14 12:21
10M44333.D	AC78787-018	05/29/14 14:37
10M44334.D	SMB33935(MS)	05/29/14 15:30
10M44335.D	SMB33935	05/29/14 15:51
10M44336.D	AC78669-001	05/29/14 16:13
10M44337.D	WMB33941(MS)	05/29/14 16:35
10M44338.D	WMB33941	05/29/14 16:57
10M44339.D	AC78669-002	05/29/14 17:19
10M44340.D	AC78669-003	05/29/14 17:41
10M44341.D	AC78669-005	05/29/14 18:03
10M44342.D	AC78880-001	05/29/14 18:25
10M44343.D	AC78880-002	05/29/14 18:47
10M44344.D	AC78880-001(MS)	05/29/14 19:09
10M44345.D	AC78880-001(MSD	05/29/14 19:31
10M44346.D	AC78735-001(T)	05/29/14 19:53
10M44347.D	AC78735-001(T)(M	05/29/14 20:14
10M44348.D	AC78735-001(T)(M	05/29/14 20:36
10M44349.D	AC78832-002(R)	05/29/14 20:58

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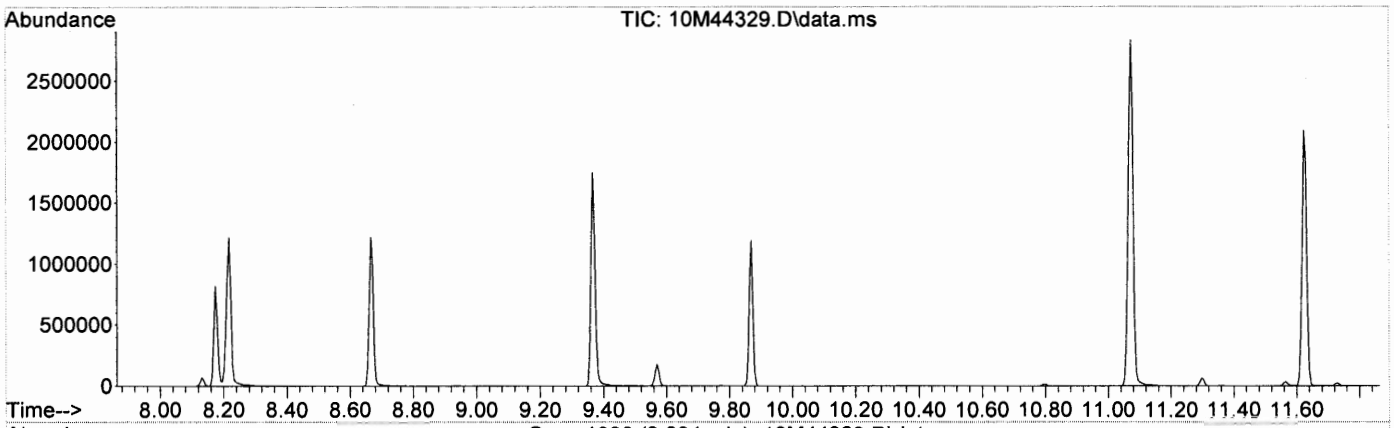
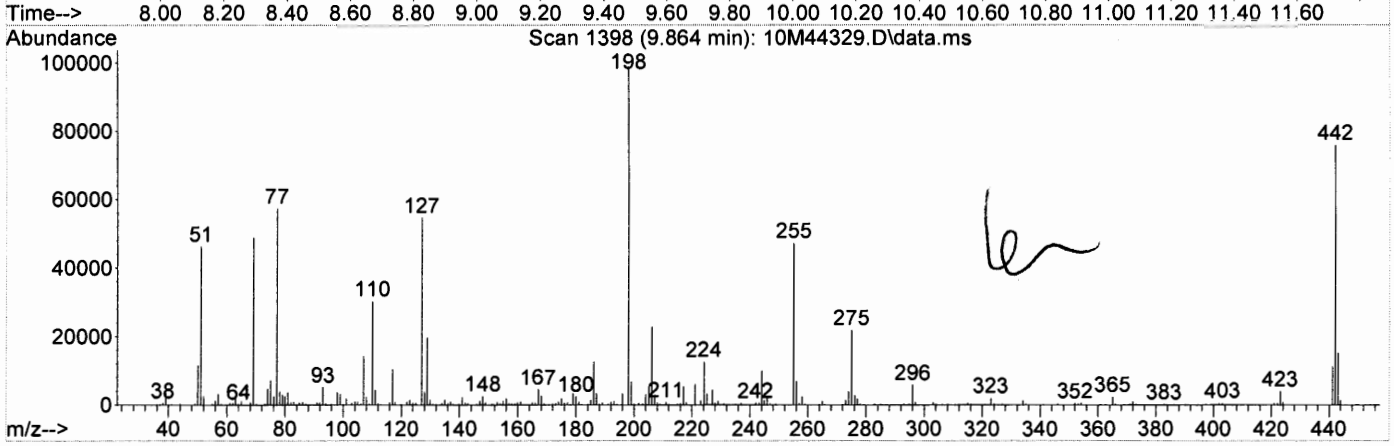
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-29-14\
Data File : 10M44329.D
Acq On : 29 May 2014 8:58
Operator : AHD/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2014\GCMS_10\METHODQT\10M_0519.M
Title : @GCMS_10,mg,625,8270
Last Update : Mon May 19 13:46:08 2014





Spectrum Information: Scan 1398

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.9	46344	PASS
68	69	0.00	2	1.6	776	PASS
69	198	0.00	100	49.5	48920	PASS
70	69	0.00	2	0.6	300	PASS
127	198	40	60	55.3	54696	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	98848	PASS
199	198	5	9	6.9	6792	PASS
275	198	10	30	22.2	21912	PASS
365	198	1	100	2.4	2345	PASS
441	443	0.01	100	73.0	11216	PASS
442	198	40	100	76.8	75888	PASS
443	442	17	23	20.3	15369	PASS

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB33889
Client Id:
Data File: 10M44243.D
Analysis Date: 05/23/14 10:12
Date Rec/Extracted: NA-05/22/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 304385

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT/LSC Reviewed)

4052101 0846

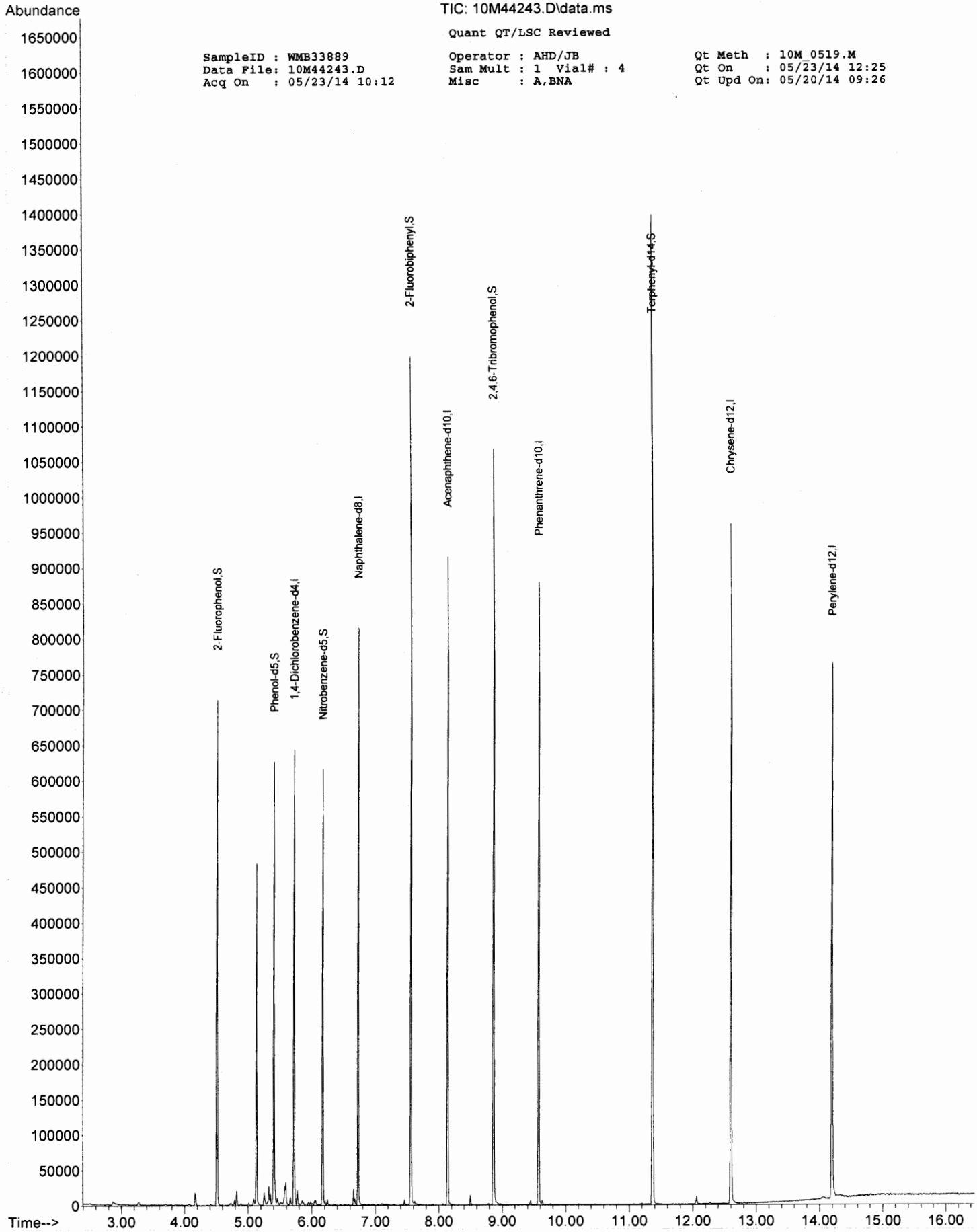
SampleID : WMB33889 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44243.D Sam Mult : 1 Vial# : 4 Qt On : 05/23/14 12:25
Acq On : 05/23/14 10:12 Misc : A,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	82803	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	331744	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	193129	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	353256	40.00	ng	0.00
88) Chrysene-d12	12.597	240	371459	40.00	ng	0.00
100) Perylene-d12	14.197	264	337325	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	193998	61.57	ng	0.00
Spiked Amount 100.000			Recovery = 61.57%			
15) Phenol-d5	5.403	99	200113	44.90	ng	0.00
Spiked Amount 100.000			Recovery = 44.90%			
30) Nitrobenzene-d5	6.168	128	75463	49.13	ng	0.00
Spiked Amount 50.000			Recovery = 98.26%			
52) 2-Fluorobiphenyl	7.559	172	317217	44.58	ng	0.00
Spiked Amount 50.000			Recovery = 89.16%			
77) 2,4,6-Tribromophenol	8.864	330	142202	109.24	ng	0.00
Spiked Amount 100.000			Recovery = 109.24%			
91) Terphenyl-d14	11.367	244	491558	61.37	ng	0.00
Spiked Amount 50.000			Recovery = 122.74%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44243.D\data.ms
Quant QT/LSC Reviewed
SampleID : WMB33889
Data File: 10M44243.D
Acq On : 05/23/14 10:12
Operator : AHD/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 10M_0519.M
Qt On : 05/23/14 12:25
Qt Upd On: 05/20/14 09:26
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB33917
Client Id:
Data File: 9M57038.D
Analysis Date: 05/27/14 16:49
Date Rec/Extracted: NA-05/27/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	207-08-9	Benzo[k]fluoranthene	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.0083	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.0083	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0083	U
95-48-7	2-Methylphenol	0.0083	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.017	U
106-44-5	3&4-Methylphenol	0.0083	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.033	U
106-47-8	4-Chloroaniline	0.016	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0083	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.0083	U
98-86-2	Acetophenone	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.033	U
120-12-7	Anthracene	0.033	U	87-86-5	Pentachlorophenol	0.17	U
1912-24-9	Atrazine	0.033	U	85-01-8	Phenanthrene	0.033	U
100-52-7	Benzaldehyde	0.033	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U
50-32-8	Benzo[a]pyrene	0.033	U				

Worksheet #: 304385

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT/LSC Reviewed)

4052101 0849

SampleID : SMB33917 Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57038.D Sam Mult : 1 Vial# : 20 Qt On : 05/28/14 10:05
Acq On : 05/27/14 16:49 Misc : S,BNA Qt Upd On: 05/22/14 09:17

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
7) 1,4-Dichlorobenzene-d4	5.870	152	70826	40.00 ng	-0.01
29) Naphthalene-d8	6.881	136	279026	40.00 ng	-0.01
47) Acenaphthene-d10	8.315	164	158873	40.00 ng	-0.02
74) Phenanthrene-d10	9.780	188	280379	40.00 ng	-0.02
88) Chrysene-d12	12.834	240	270385	40.00 ng	-0.02
100) Perylene-d12	14.460	264	229502	40.00 ng	-0.02
System Monitoring Compounds					
10) 2-Fluorophenol	4.678	112	146962	58.52 ng	0.00
Spiked Amount 100.000			Recovery = 58.52%		
15) Phenol-d5	5.560	99	196298	60.17 ng	0.00
Spiked Amount 100.000			Recovery = 60.17%		
30) Nitrobenzene-d5	6.320	128	43090	32.52 ng	-0.01
Spiked Amount 50.000			Recovery = 65.04%		
52) 2-Fluorobiphenyl	7.726	172	210062	35.42 ng	-0.01
Spiked Amount 50.000			Recovery = 70.84%		
77) 2,4,6-Tribromophenol	9.058	330	68902	69.12 ng	-0.02
Spiked Amount 100.000			Recovery = 69.12%		
91) Terphenyl-d14	11.583	244	244773	40.54 ng	-0.02
Spiked Amount 50.000			Recovery = 81.08%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

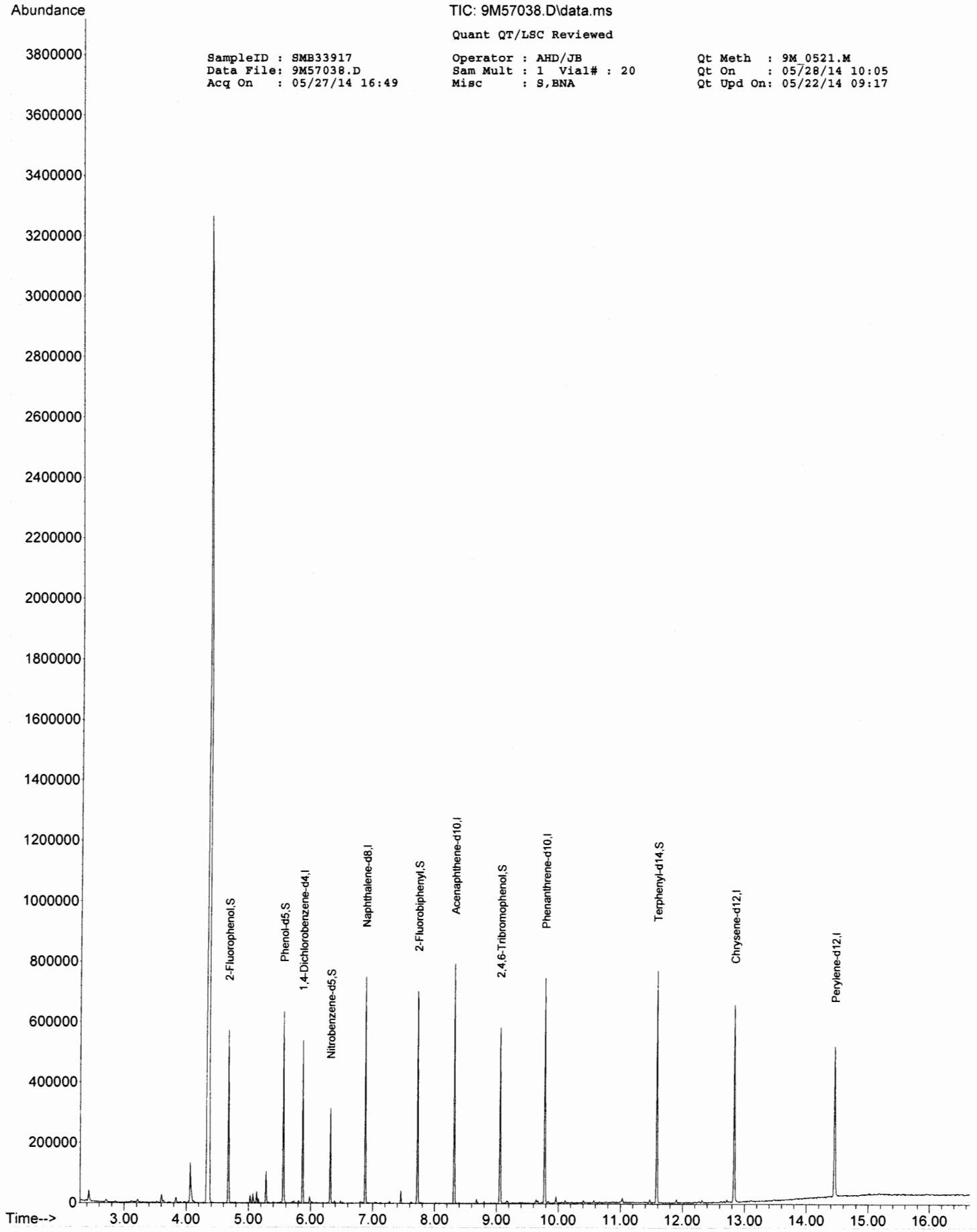
TIC: 9M57038.D\data.ms

Quant QT/LSC Reviewed

SampleID : SMB33917
Data File: 9M57038.D
Acq On : 05/27/14 16:49

Operator : AHD/JB
Sam Mult : 1 Vial# : 20
Misc : S,BNA

Qt Meth : 9M_0521.M
Qt On : 05/28/14 10:05
Qt Upd On: 05/22/14 09:17



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB33927
Client Id:
Data File: 10M44323.D
Analysis Date: 05/28/14 19:32
Date Rec/Extracted: NA-05/28/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	207-08-9	Benzo[k]fluoranthene	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.0083	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.0083	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0083	U
95-48-7	2-Methylphenol	0.0083	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.017	U
106-44-5	3&4-Methylphenol	0.0083	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.033	U
106-47-8	4-Chloroaniline	0.016	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0083	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.0083	U
98-86-2	Acetophenone	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.033	U
120-12-7	Anthracene	0.033	U	87-86-5	Pentachlorophenol	0.17	U
1912-24-9	Atrazine	0.033	U	85-01-8	Phenanthrene	0.033	U
100-52-7	Benzaldehyde	0.033	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U
50-32-8	Benzo[a]pyrene	0.033	U				

Worksheet #: 304385

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

4052101 0852

SampleID : SMB33927 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44323.D Sam Mult : 1 Vial# : 19 Qt On : 05/29/14 10:16
Acq On : 05/28/14 19:32 Misc : S,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-28-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	72236	40.00	ng	0.00
29) Naphthalene-d8	6.725	136	305717	40.00	ng	0.00
47) Acenaphthene-d10	8.131	164	188637	40.00	ng	0.00
74) Phenanthrene-d10	9.570	188	360775	40.00	ng	0.00
88) Chrysene-d12	12.597	240	418976	40.00	ng	0.00
100) Perylene-d12	14.191	264	390317	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	214100	77.88	ng	0.00
Spiked Amount 100.000			Recovery = 77.88%			
15) Phenol-d5	5.404	99	312594	80.39	ng	0.00
Spiked Amount 100.000			Recovery = 80.39%			
30) Nitrobenzene-d5	6.168	128	49925	35.27	ng	0.00
Spiked Amount 50.000			Recovery = 70.54%			
52) 2-Fluorobiphenyl	7.559	172	245346	35.30	ng	0.00
Spiked Amount 50.000			Recovery = 70.60%			
77) 2,4,6-Tribromophenol	8.859	330	81825	66.74	ng	0.00
Spiked Amount 100.000			Recovery = 66.74%			
91) Terphenyl-d14	11.362	244	331434	36.69	ng	0.00
Spiked Amount 50.000			Recovery = 73.38%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Kee

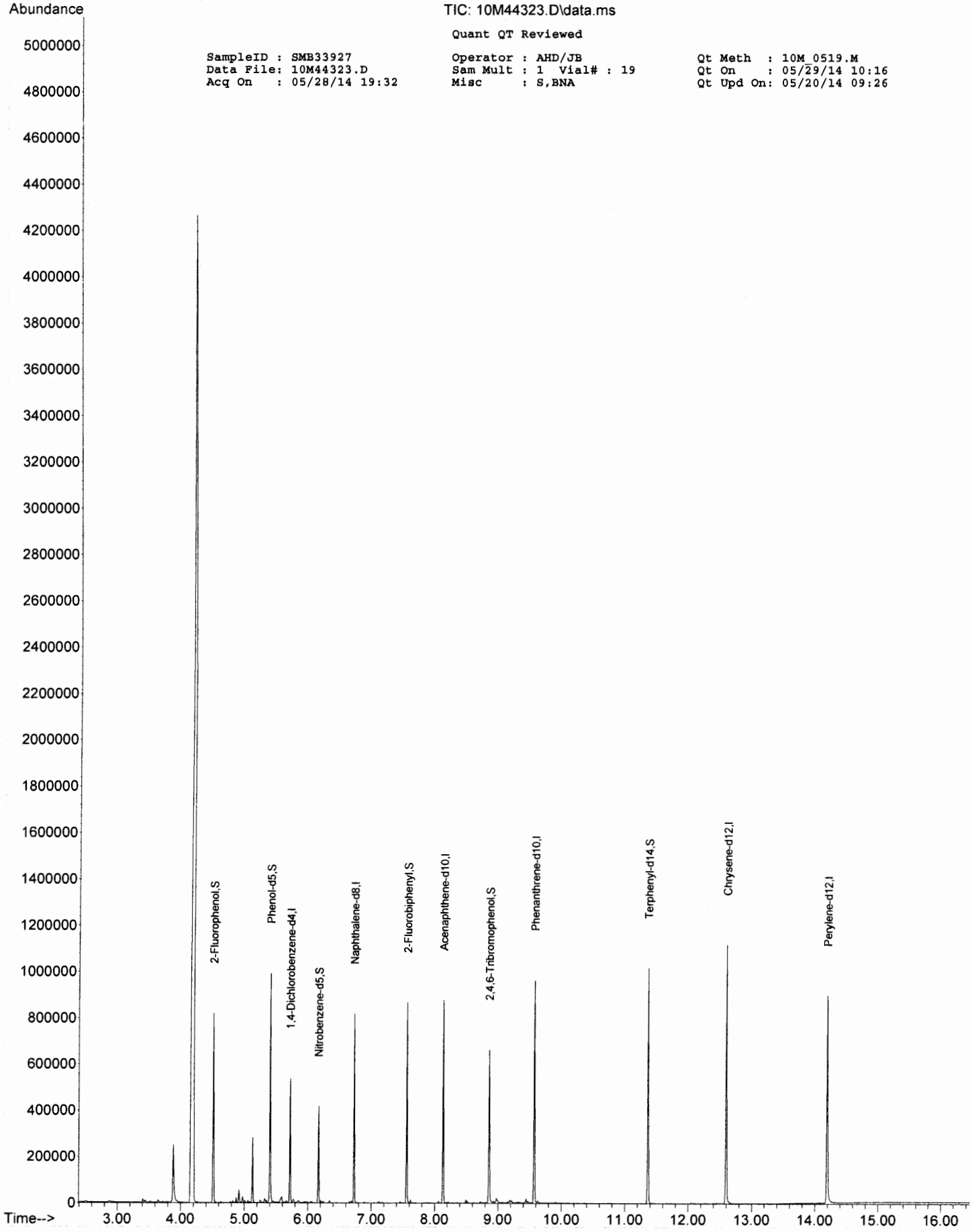
TIC: 10M44323.D\data.ms

Quant QT Reviewed

SampleID : SMB33927
Data File: 10M44323.D
Acq On : 05/28/14 19:32

Operator : AHD/JB
Sam Mult : 1 Vial# : 19
Misc : S,BNA

Qt Meth : 10M_0519.M
Qt On : 05/29/14 10:16
Qt Upd On: 05/20/14 09:26



Form3
Recovery Data
QC Batch: WMB33889

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M44242.D	WMB33889(MS)	5/23/2014 9:50:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	38.3292	0	100	38	10	130
Phenol	1	37.4537	0	100	37	20	130
2-Chlorophenol	1	75.3295	0	100	75	50	130
1,4-Dichlorobenzene	1	59.3275	0	100	59	50	130
2-Methylphenol	1	78.6821	0	100	79	50	130
Hexachloroethane	1	58.264	0	100	58	50	130
N-Nitroso-di-n-propylamine	1	84.4357	0	100	84	20	130
3&4-Methylphenol	1	78.5982	0	100	79	50	130
Nitrobenzene	1	78.0468	0	100	78	50	130
2,4-Dimethylphenol	1	78.954	0	100	79	50	130
1,2,4-Trichlorobenzene	1	68.5741	0	100	69	50	130
Naphthalene	1	73.2279	0	100	73	50	130
Hexachlorobutadiene	1	64.3521	0	100	64	50	130
4-Chloro-3-methylphenol	1	91.1274	0	100	91	50	130
2,4,6-Trichlorophenol	1	90.2884	0	100	90	50	130
2,4,5-Trichlorophenol	1	91.4497	0	100	91	50	130
Acenaphthene	1	81.5339	0	100	82	50	130
2,4-Dinitrotoluene	1	87.8976	0	100	88	50	130
4-Nitrophenol	1	44.4847	0	100	44	20	130
Fluorene	1	81.3531	0	100	81	50	130
Hexachlorobenzene	1	82.6574	0	100	83	50	130
Pentachlorophenol	1	93.6888	0	100	94	40	130
Pyrene	1	91.1502	0	100	91	50	130
Butylbenzylphthalate	1	96.6766	0	100	97	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (Not Reviewed)

4052101 0855

SampleID : WMB33889(MS) Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44242.D Sam Mult : 1 Vial# : 3 Qt On : 05/23/14 10:20
Acq On : 05/23/14 09:50 Misc : A,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	72682	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	285753	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	169329	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	310084	40.00	ng	0.00
88) Chrysene-d12	12.603	240	308838	40.00	ng	0.00
100) Perylene-d12	14.197	264	280667	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	185987	67.24	ng	0.00
Spiked Amount 100.000			Recovery = 67.24%			
15) Phenol-d5	5.403	99	201810	51.58	ng	0.00
Spiked Amount 100.000			Recovery = 51.58%			
30) Nitrobenzene-d5	6.174	128	65567	49.56	ng	0.00
Spiked Amount 50.000			Recovery = 99.12%			
52) 2-Fluorobiphenyl	7.559	172	163830	26.26	ng	0.00
Spiked Amount 50.000			Recovery = 52.52%			
77) 2,4,6-Tribromophenol	8.869	330	136793	117.86	ng	0.00
Spiked Amount 100.000			Recovery = 117.86%			
91) Terphenyl-d14	11.367	244	449814	67.55	ng	0.00
Spiked Amount 50.000			Recovery = 135.10%			
Target Compounds						Qvalue
8) Pyridine	2.916	79	135840	38.3292	ng	72
9) N-Nitrosodimethylamine	2.847	74	131994	61.9789	ng	74
11) Benzaldehyde	5.414	77	2418	1.1405	ng	11
14) bis(2-Chloroethyl)ether	5.494	93	228780	77.9559	ng	83
16) Phenol	5.419	94	157214	37.4537	ng	78
17) 2-Chlorophenol	5.537	128	217294	75.3295	ng	83
18) N-Decane	5.591	57	7276	2.3574	ng	83
19) 1,3-Dichlorobenzene	5.671	146	183034	59.7782	ng	97
20) 1,4-Dichlorobenzene	5.735	146	182393	59.3275	ng	99
21) 1,2-Dichlorobenzene	5.858	146	182740	62.7478	ng	99
23) bis(2-chloroisopropyl)...	5.949	45	277022	66.9877	ng	93
24) 2-Methylphenol	5.928	108	208201	78.6821	ng	95
26) Hexachloroethane	6.136	117	66669	58.2640	ng	85
27) N-Nitroso-di-n-propyla...	6.056	70	169914	84.4357	ng	67
28) 3&4-Methylphenol	6.051	108	207439	78.5982	ng	89
31) Nitrobenzene	6.190	77	236379	78.0468	ng	77
32) Isophorone	6.377	82	438888	79.5423	ng	87
33) 2-Nitrophenol	6.436	139	122159	82.8060	ng	87
34) 2,4-Dimethylphenol	6.468	107	219385	78.9540	ng	90
35) Benzoic Acid	6.532	105	52538	37.8313	ng	88
36) bis(2-Chloroethoxy)met...	6.543	93	294604	81.6440	ng	96
37) 2,4-Dichlorophenol	6.623	162	189986	87.7723	ng	87
38) 1,2,4-Trichlorobenzene	6.687	180	170245	68.5741	ng	98
39) Naphthalene	6.746	128	605702	73.2279	ng	99
40) 4-Chloroaniline	6.789	127	3114	0.8359	ng	40
41) Hexachlorobutadiene	6.837	225	85175	64.3521	ng	96
42) Caprolactam	7.142	113	6032	6.3212	ng	18
43) 4-Chloro-3-methylphenol	7.142	107	224327	91.1274	ng	80
49) Hexachlorocyclopentadiene	7.398	237	80405	59.0663	ng	99
50) 2,4,6-Trichlorophenol	7.495	196	149426	90.2884	ng	98
51) 2,4,5-Trichlorophenol	7.521	196	150863	91.4497	ng	99
53) 2-Chloronaphthalene	7.666	162	431253	82.9265	ng	92
57) 2-Nitroaniline	7.939	65	7526	3.9654	ng	45
59) Acenaphthylene	8.014	152	700269	85.3527	ng	99
60) Dimethylphthalate	7.885	163	516965	86.3369	ng	98
61) 2,6-Dinitrotoluene	7.944	165	116156	90.6600	ng	56
62) Acenaphthene	8.169	153	439087	81.5339	ng	98
64) 2,4-Dinitrophenol	8.179	184	62001	84.9572	ng	38
66) 2,4-Dinitrotoluene	8.297	165	160184	87.8976	ng	59
67) 4-Nitrophenol	8.217	65	50238	44.4847	ng	95
68) 2,3,4,6-Tetrachlorophenol	8.425	232	126296	88.8868	ng	85
69) Fluorene	8.639	166	505715	81.3531	ng	99
70) 4-Chlorophenyl-phenyle...	8.629	204	251238	84.0840	ng	82
71) Diethylphthalate	8.511	149	521794	88.5354	ng	95
72) 4-Nitroaniline	8.639	138	6501	3.8621	ng	16
73) Atrazine	9.372	200	18527	11.8615	ng	36
75) 4,6-Dinitro-2-methylph...	8.671	198	94951	93.0646	ng	60
76) n-Nitrosodiphenylamine	8.741	169	346738	64.9796	ng	100
78) 1,2-Diphenylhydrazine	8.784	77	565997	77.9297	ng	82
79) 4-Bromophenyl-phenylether	9.110	248	150422	82.7205	ng	78
80) Hexachlorobenzene	9.180	284	178695	82.6574	ng	59
82) Pentachlorophenol	9.372	266	122602	93.6888	ng	97

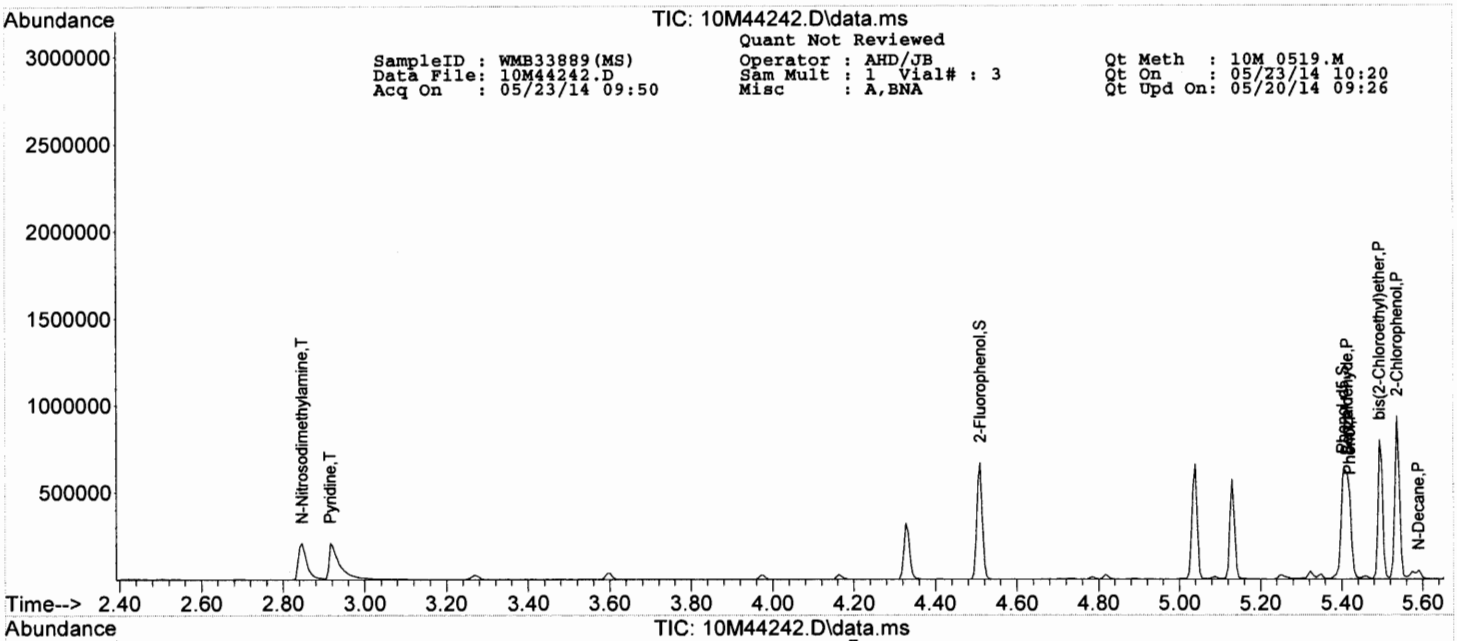
Quantitation Report (Not Reviewed)

SampleID : WMB33889(MS) Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44242.D Sam Mult : 1 Vial# : 3 Qt On : 05/23/14 10:20
Acq On : 05/23/14 09:50 Misc : A,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83)	Phenanthrene	9.602	178	775962	86.6960	ng	99
84)	Anthracene	9.656	178	753602	84.3328	ng	98
85)	Carbazole	9.816	167	10409	1.1635	ng	97
86)	Di-n-butylphthalate	10.206	149	967434	92.3573	ng	97
87)	Fluoranthene	10.918	202	867268	87.8501	ng	98
89)	Pyrene	11.180	202	871196	91.1502	ng	97
90)	Benzidine	11.068	184	71804	18.2795	ng	94
94)	Butylbenzylphthalate	11.955	149	439837	96.6766	ng	74
96)	3,3'-Dichlorobenzidine	12.565	252	282096	93.4903	ng	98
97)	Benzo[a]anthracene	12.592	228	798858	87.9094	ng	98
98)	Chrysene	12.635	228	773855	94.2141	ng	100
99)	bis(2-Ethylhexyl)phtha...	12.651	149	533527	94.1127	ng	91
101)	Di-n-octylphthalate	13.394	149	1016319	101.7845	ng	99
102)	Benzo[b]fluoranthene	13.801	252	784288	93.5292	ng	96
103)	Benzo[k]fluoranthene	13.833	252	748918	89.2844	ng	94
104)	Benzo[a]pyrene	14.143	252	706753	88.1259	ng	95
105)	Indeno[1,2,3-cd]pyrene	15.448	276	878323	95.5249	ng	88
106)	Dibenzo[a,h]anthracene	15.470	278	711906	93.4703	ng	91
107)	Benzo[g,h,i]perylene	15.806	276	711401	93.6488	ng	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed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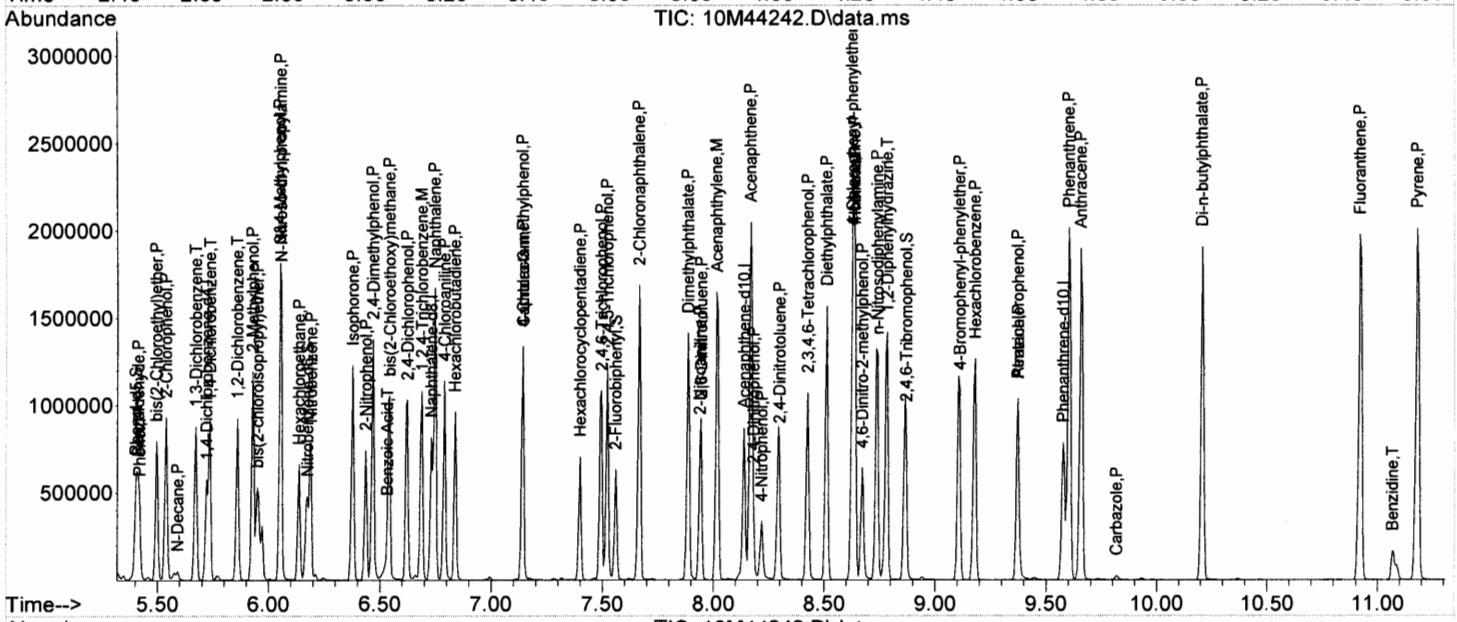
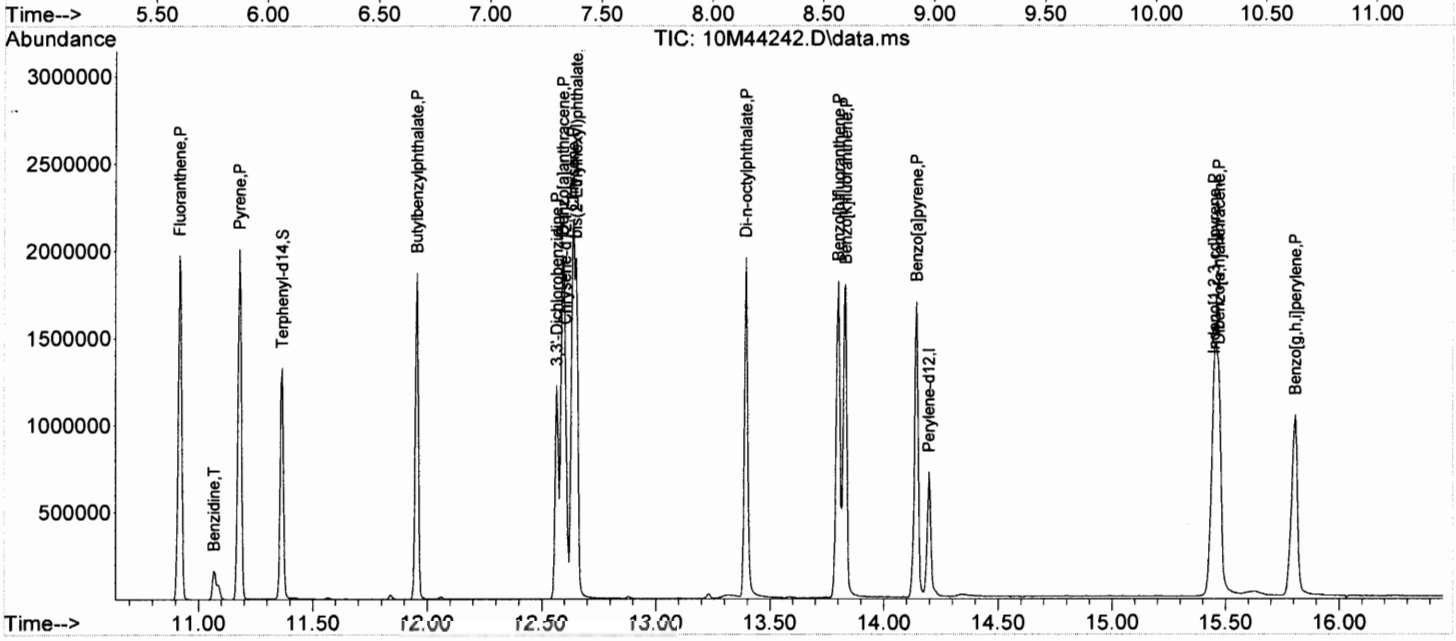
Quant Not Reviewed
SampleID : WMB33889(MS)
Data File: 10M44242.D
Acq On : 05/23/14 09:50
Operator : AHD/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/23/14 10:20
Qt Upd On: 05/20/14 09:26
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
bis(2-Chloroethyl)ether,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44242.D\data.ms
N-Decane,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
Naphthalene,P
4-Chloroaniline
Hexachlorobutadiene,P
Hexachlorocyclopentadiene,P
2-Chloronaphthalene,P
2-Fluorobiphenyl,S
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
2,4-Dinitrotoluene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4,6-Dinitro-2-methylphenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M44242.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form3
Recovery Data
QC Batch: SMB33917

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57037.D	SMB33917(MS)	5/27/2014 4:25:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	82.5426	0	100	83	20	130
2-Chlorophenol	1	89.9644	0	100	90	50	130
1,4-Dichlorobenzene	1	46.0654	0	50	92	50	130
2-Methylphenol	1	101.659	0	100	102	50	130
N-Nitroso-di-n-propylamine	1	47.8451	0	50	96	20	130
2,4-Dimethylphenol	1	103.0858	0	100	103	50	130
1,2,4-Trichlorobenzene	1	47.2583	0	50	95	50	130
Naphthalene	1	46.9562	0	50	94	50	130
4-Chloro-3-methylphenol	1	107.2856	0	100	107	50	130
Acenaphthene	1	49.6048	0	50	99	50	130
2,4-Dinitrotoluene	1	47.1673	0	50	94	50	130
4-Nitrophenol	1	94.5339	0	100	95	20	130
Fluorene	1	50.9936	0	50	102	50	130
Pentachlorophenol	1	103.8379	0	100	104	40	130
Pyrene	1	63.9013	0	50	128	50	130
Butylbenzylphthalate	1	54.6569	0	50	109	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

4052101 0859

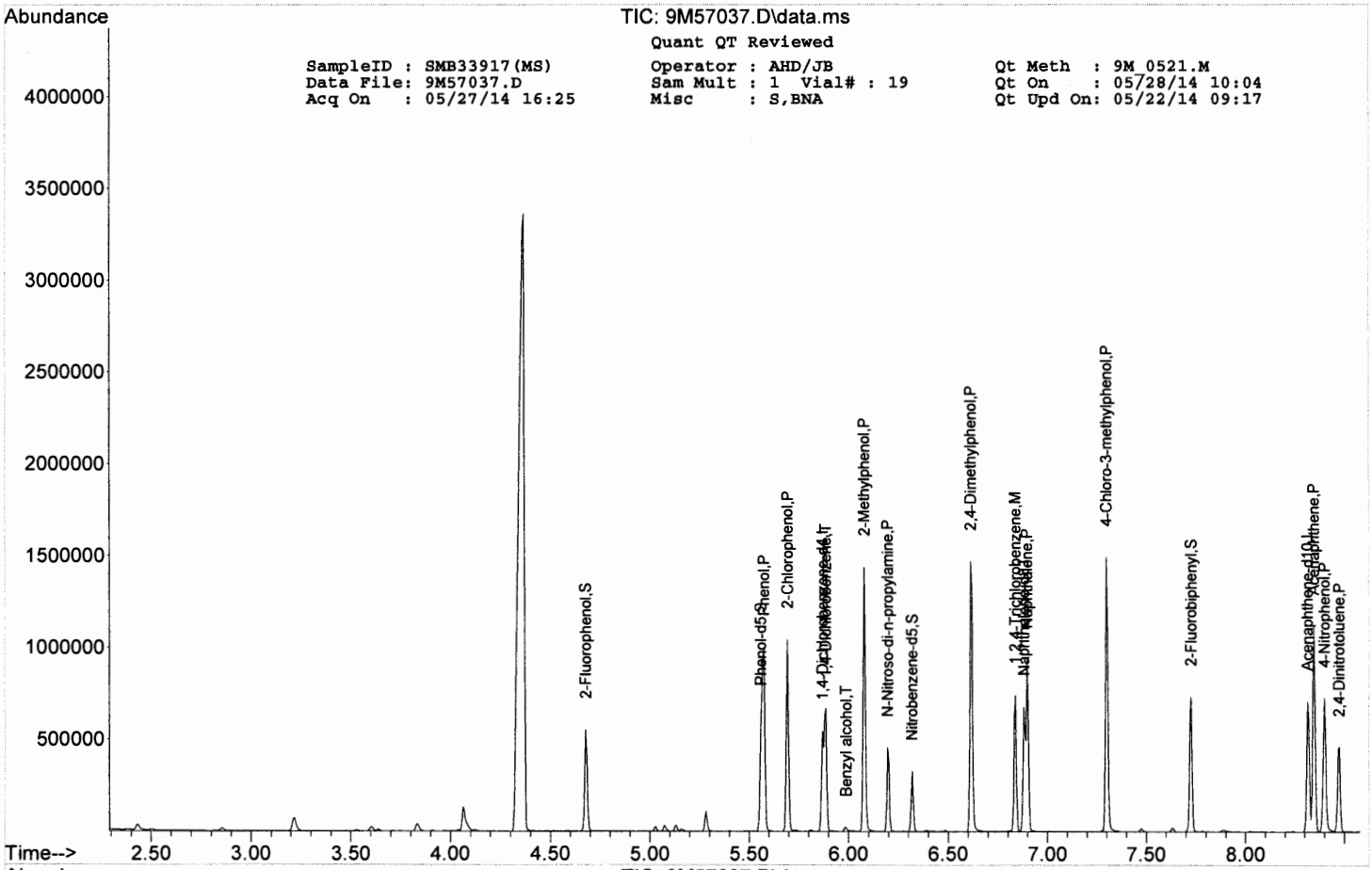
SampleID : SMB33917(MS) Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57037.D Sam Mult : 1 Vial# : 19 Qt On : 05/28/14 10:04
Acq On : 05/27/14 16:25 Misc : S,BNA Qt Upd On: 05/22/14 09:17

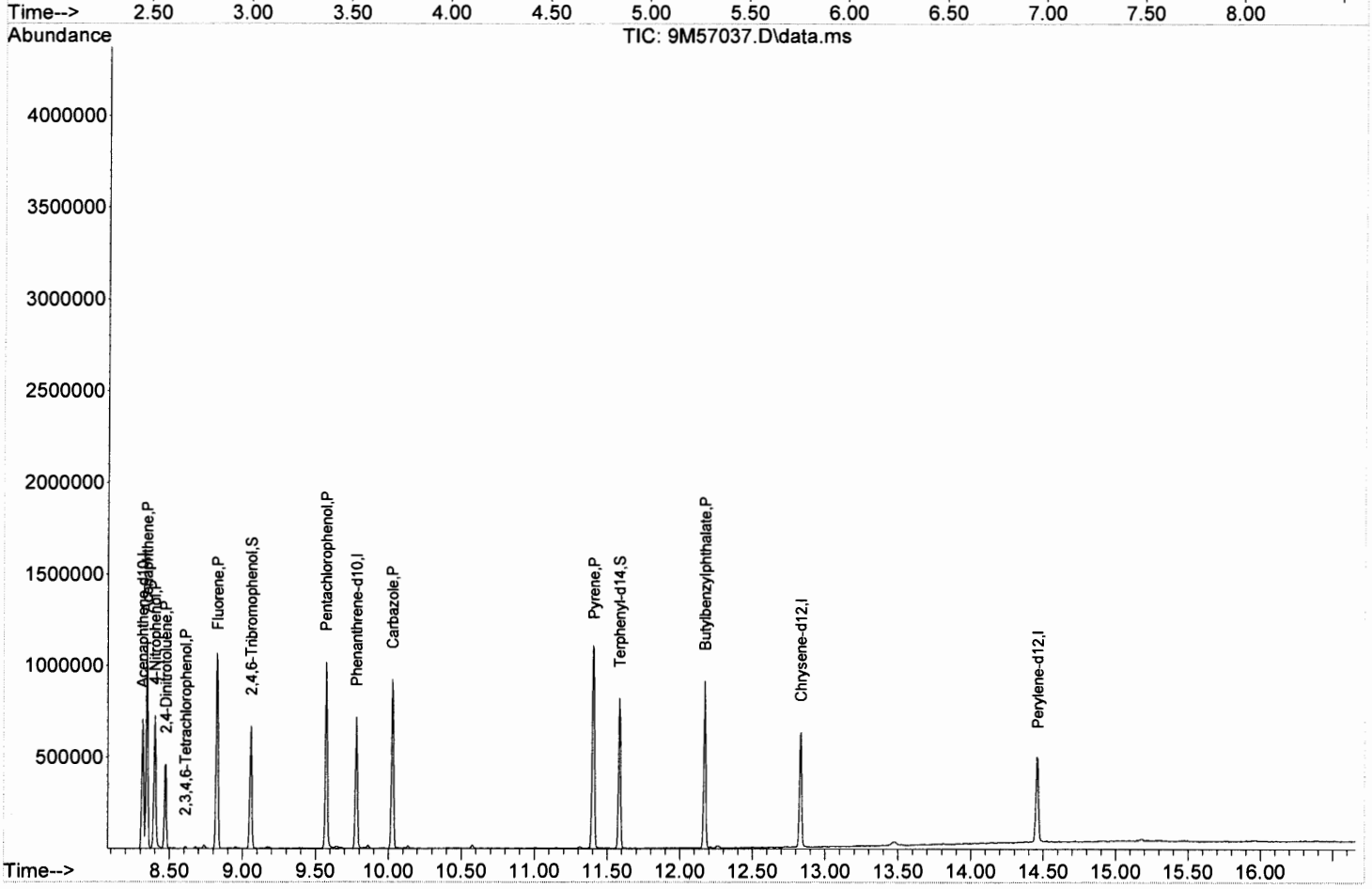
Data Path : G:\GcMsData\2014\GCMS_9\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.870	152	67424	40.00	ng	-0.01
29) Naphthalene-d8	6.881	136	251211	40.00	ng	-0.01
47) Acenaphthene-d10	8.315	164	150309	40.00	ng	-0.02
74) Phenanthrene-d10	9.780	188	258242	40.00	ng	-0.02
88) Chrysene-d12	12.834	240	253479	40.00	ng	-0.02
100) Perylene-d12	14.460	264	210960	40.00	ng	-0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.678	112	144195	60.32	ng	0.00
Spiked Amount 100.000			Recovery = 60.32%			
15) Phenol-d5	5.560	99	198387	63.88	ng	0.00
Spiked Amount 100.000			Recovery = 63.88%			
30) Nitrobenzene-d5	6.320	128	41460	34.76	ng	-0.01
Spiked Amount 50.000			Recovery = 69.52%			
52) 2-Fluorobiphenyl	7.726	172	206608	36.82	ng	-0.01
Spiked Amount 50.000			Recovery = 73.64%			
77) 2,4,6-Tribromophenol	9.058	330	76848	83.70	ng	-0.02
Spiked Amount 100.000			Recovery = 83.70%			
91) Terphenyl-d14	11.583	244	260316	45.98	ng	-0.02
Spiked Amount 50.000			Recovery = 91.96%			
Target Compounds						Qvalue
16) Phenol	5.576	94	273822	82.5426	ng	94
17) 2-Chlorophenol	5.694	128	245135	89.9644	ng	74
20) 1,4-Dichlorobenzene	5.886	146	136781	46.0654	ng	98
22) Benzyl alcohol	5.988	108	3864	2.4242	ng	75
24) 2-Methylphenol	6.079	108	235344	101.6590	ng	98
27) N-Nitroso-di-n-propyla...	6.197	70	82953	47.8451	ng	78
34) 2,4-Dimethylphenol	6.614	107	265521	103.0858	ng	95
38) 1,2,4-Trichlorobenzene	6.839	180	114147	47.2583	ng	95
39) Naphthalene	6.897	128	349300	46.9562	ng	99
43) 4-Chloro-3-methylphenol	7.299	107	245745	107.2856	ng	80
62) Acenaphthene	8.347	153	254766	49.6048	ng	96
66) 2,4-Dinitrotoluene	8.475	165	84028	47.1673	ng	63
67) 4-Nitrophenol	8.400	65	104181	94.5339	ng	62
68) 2,3,4,6-Tetrachlorophenol	8.609	232	1859	1.2182	ng	75
69) Fluorene	8.828	166	307193	50.9936	ng	98
82) Pentachlorophenol	9.572	266	121028	103.8379	ng	96
85) Carbazole	10.026	167	391939	52.1835	ng	97
89) Pyrene	11.406	202	505047	63.9013	ng	79
94) Butylbenzylphthalate	12.171	149	200711	54.6569	ng	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed

b


Abundance
TIC: 9M57037.D\data.ms
Quant QT Reviewed
SampleID : SMB33917(MS)
Data File: 9M57037.D
Acq On : 05/27/14 16:25
Operator : AHD/JB
Sam Mult : 1 Vial# : 19
Misc : S,BNA
Qt Meth : 9M_0521.M
Qt On : 05/28/14 10:04
Qt Upd On: 05/22/14 09:17
2-Fluorophenol,S
Phenol-d5,S
Phenol,P
2-Chlorophenol,P
Benzyl alcohol,T
2-Methylphenol,P
N-Nitroso-di-n-propylamine,P
Nitrobenzene-d5,S
2,4-Dimethylphenol,P
4-Chloro-3-methylphenol,P
2-Fluorobiphenyl,S
4-Nitrophenol,P
2,4-Dinitrotoluene,P
Time-->


Abundance
TIC: 9M57037.D\data.ms
2,4-Dinitrotoluene,P
2,3,4,6-Tetrachlorophenol,P
Fluorene,P
2,4,6-Tribromophenol,S
Pentachlorophenol,P
Phenanthrene-d10,I
Carbazole,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Chrysene-d12,I
Perylene-d12,I
Time-->

Form3
Recovery Data
QC Batch: SMB33927

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57051.D	SMB33927(MS)	5/28/2014 5:04:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	96.7133	0	100	97	20	130
2-Chlorophenol	1	108.4791	0	100	108	50	130
1,4-Dichlorobenzene	1	51.7301	0	50	103	50	130
2-Methylphenol	1	117.2471	0	100	117	50	130
N-Nitroso-di-n-propylamine	1	52.8653	0	50	106	20	130
2,4-Dimethylphenol	1	113.2588	0	100	113	50	130
1,2,4-Trichlorobenzene	1	54.2552	0	50	109	50	130
Naphthalene	1	52.8431	0	50	106	50	130
4-Chloro-3-methylphenol	1	110.0764	0	100	110	50	130
Acenaphthene	1	51.8113	0	50	104	50	130
2,4-Dinitrotoluene	1	49.5359	0	50	99	50	130
4-Nitrophenol	1	89.7387	0	100	90	20	130
Fluorene	1	51.2965	0	50	103	50	130
Pentachlorophenol	1	99.389	0	100	99	40	130
Pyrene	1	63.9653	0	50	128	50	130
Butylbenzylphthalate	1	62.5885	0	50	125	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

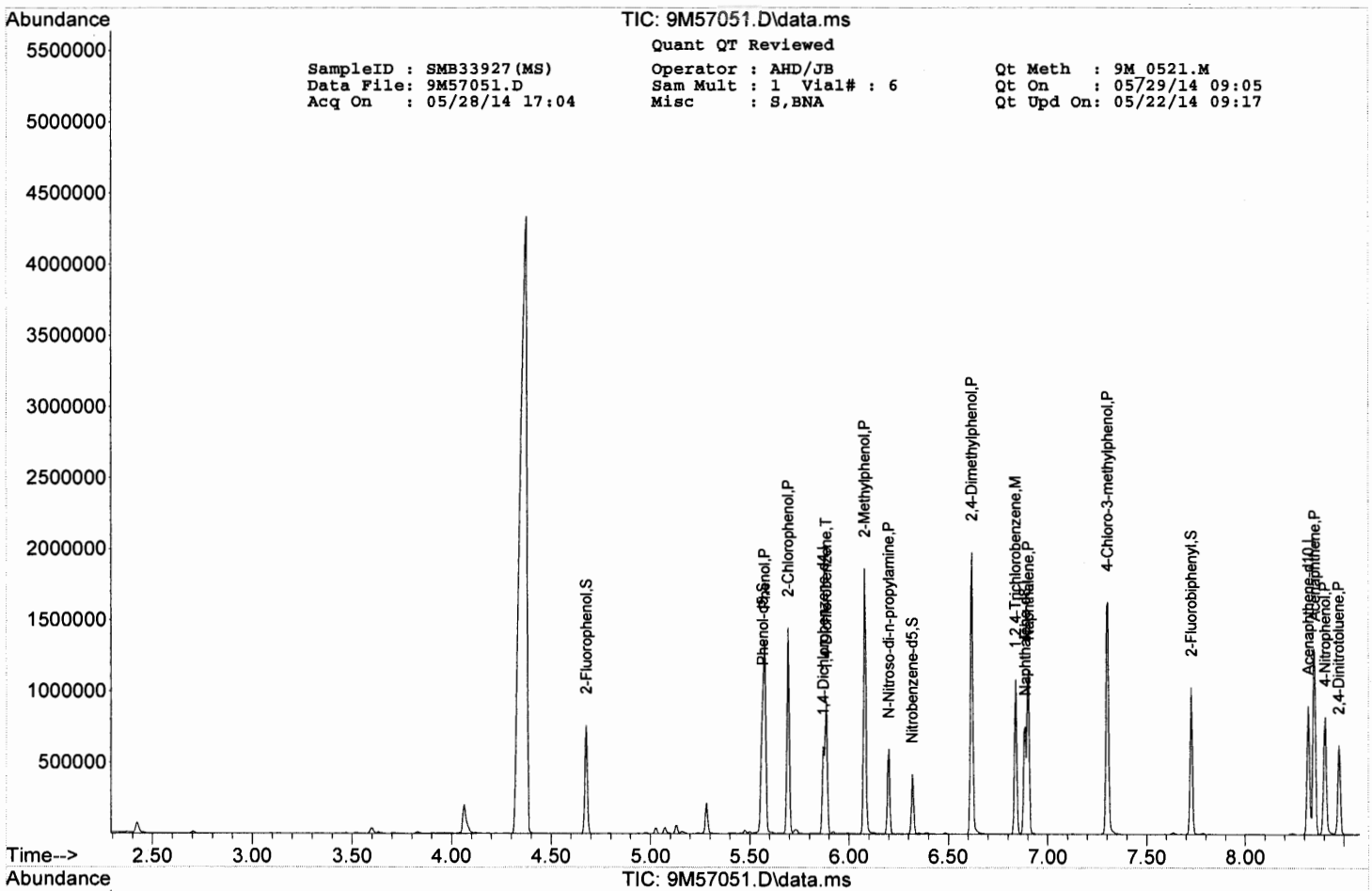
4052101 0862

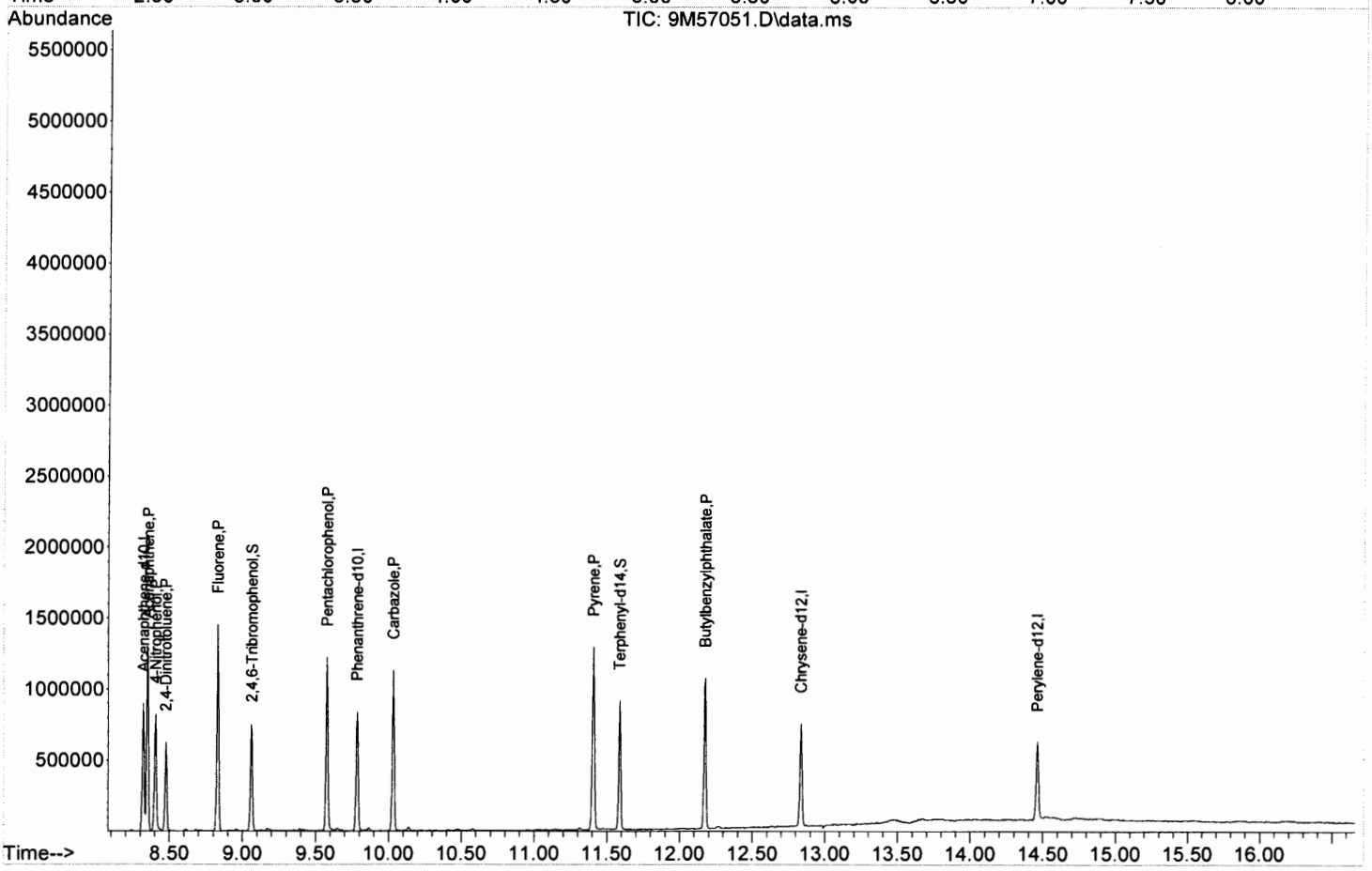
SampleID : SMB33927(MS) Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57051.D Sam Mult : 1 Vial# : 6 Qt On : 05/29/14 09:05
Acq On : 05/28/14 17:04 Misc : S,BNA Qt Upd On: 05/22/14 09:17

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-28-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.870	152	78306	40.00	ng	-0.01
29) Naphthalene-d8	6.887	136	298772	40.00	ng	0.00
47) Acenaphthene-d10	8.320	164	184797	40.00	ng	-0.01
74) Phenanthrene-d10	9.786	188	313537	40.00	ng	-0.01
88) Chrysene-d12	12.834	240	278368	40.00	ng	-0.02
100) Perylene-d12	14.460	264	245066	40.00	ng	-0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.678	112	197710	71.21	ng	0.00
Spiked Amount 100.000			Recovery = 71.21%			
15) Phenol-d5	5.566	99	260436	72.21	ng	0.00
Spiked Amount 100.000			Recovery = 72.21%			
30) Nitrobenzene-d5	6.320	128	52615	37.09	ng	-0.01
Spiked Amount 50.000			Recovery = 74.18%			
52) 2-Fluorobiphenyl	7.726	172	263821	38.24	ng	-0.01
Spiked Amount 50.000			Recovery = 76.48%			
77) 2,4,6-Tribromophenol	9.064	330	89405	80.21	ng	-0.01
Spiked Amount 100.000			Recovery = 80.21%			
91) Terphenyl-d14	11.588	244	276935	44.55	ng	-0.01
Spiked Amount 50.000			Recovery = 89.10%			
Target Compounds						Qvalue
16) Phenol	5.576	94	372612	96.7133	ng	93
17) 2-Chlorophenol	5.694	128	343290	108.4791	ng	74
20) 1,4-Dichlorobenzene	5.886	146	178392	51.7301	ng	98
24) 2-Methylphenol	6.079	108	315239	117.2471	ng	99
27) N-Nitroso-di-n-propyla...	6.202	70	106450	52.8653	ng	76
34) 2,4-Dimethylphenol	6.619	107	346955	113.2588	ng	91
38) 1,2,4-Trichlorobenzene	6.838	180	155858	54.2552	ng	97
39) Naphthalene	6.903	128	467515	52.8431	ng	98
43) 4-Chloro-3-methylphenol	7.304	107	299874	110.0764	ng	69
62) Acenaphthene	8.352	153	327154	51.8113	ng	96
66) 2,4-Dinitrotoluene	8.475	165	108496	49.5359	ng	70
67) 4-Nitrophenol	8.406	65	121588	89.7387	ng	59
69) Fluorene	8.828	166	379921	51.2965	ng	99
82) Pentachlorophenol	9.577	266	139078	99.3890	ng	96
85) Carbazole	10.032	167	465545	51.0522	ng	97
89) Pyrene	11.406	202	555193	63.9653	ng	81
94) Butylbenzylphthalate	12.176	149	252405	62.5885	ng	71

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M57051.D\data.ms
Quant QT Reviewed
SampleID : SMB33927(MS)
Data File: 9M57051.D
Acq On : 05/28/14 17:04
Operator : AHD/JB
Sam Mult : 1 Vial# : 6
Misc : S,BNA
Qt Meth : 9M_0521.M
Qt On : 05/29/14 09:05
Qt Upd On: 05/22/14 09:17
2-Fluorophenol,S
2-Chlorophenol,P
2-Methylphenol,P
N-Nitroso-di-n-propylamine,P
Nitrobenzene-d5,S
2,4-Dimethylphenol,P
4-Chloro-3-methylphenol,P
2-Fluorobiphenyl,S
4-Nitrophenol,P
2,4-Dinitrotoluene,P
Time-->


Abundance
TIC: 9M57051.D\data.ms
Fluorene,P
2,4,6-Tribromophenol,S
Pentachlorophenol,P
Phenanthrene-d10,I
Carbazole,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Chrysene-d12,I
Perylene-d12,I
Time-->

Form3
Recovery Data
QC Batch: WMB33889

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M44245.D	AC78787-003(MS)	5/23/2014 11:14:00 AM
Non Spike(If applicable):	10M44244.D	AC78787-003	5/23/2014 10:52:00 AM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	0	0	100	0*	10	130
Phenol	1	53.1196	0	100	53	20	130
2-Chlorophenol	1	76.7263	0	100	77	50	130
1,4-Dichlorobenzene	1	71.7424	0	100	72	50	130
2-Methylphenol	1	80.6315	0	100	81	50	130
Hexachloroethane	1	73.046	0	100	73	50	130
N-Nitroso-di-n-propylamine	1	80.4379	0	100	80	20	130
3&4-Methylphenol	1	83.1879	0	100	83	50	130
Nitrobenzene	1	80.5945	0	100	81	50	130
2,4-Dimethylphenol	1	77.4023	0	100	77	50	130
1,2,4-Trichlorobenzene	1	75.56	0	100	76	50	130
Naphthalene	1	77.6681	0	100	78	50	130
Hexachlorobutadiene	1	74.6579	0	100	75	50	130
4-Chloro-3-methylphenol	1	90.573	0	100	91	50	130
2,4,6-Trichlorophenol	1	81.4166	0	100	81	50	130
2,4,5-Trichlorophenol	1	85.5962	0	100	86	50	130
Acenaphthene	1	78.4132	0	100	78	50	130
2,4-Dinitrotoluene	1	84.6153	0	100	85	50	130
4-Nitrophenol	1	64.5162	0	100	65	20	130
Fluorene	1	77.8092	0	100	78	50	130
Hexachlorobenzene	1	81.0132	0	100	81	50	130
Pentachlorophenol	1	95.8472	0	100	96	40	130
Pyrene	1	87.3145	0	100	87	50	130
Butylbenzylphthalate	1	92.9568	0	100	93	50	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M44246.D	AC78787-003(MSD)	5/23/2014 11:36:00 AM
Non Spike(If applicable):	10M44244.D	AC78787-003	5/23/2014 10:52:00 AM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	0	0	100	0*	10	130
Phenol	1	54.141	0	100	54	20	130
2-Chlorophenol	1	79.3073	0	100	79	50	130
1,4-Dichlorobenzene	1	69.8594	0	100	70	50	130
2-Methylphenol	1	83.3554	0	100	83	50	130
Hexachloroethane	1	71.1892	0	100	71	50	130
N-Nitroso-di-n-propylamine	1	81.5898	0	100	82	20	130
3&4-Methylphenol	1	84.5725	0	100	85	50	130
Nitrobenzene	1	80.3045	0	100	80	50	130
2,4-Dimethylphenol	1	75.813	0	100	76	50	130
1,2,4-Trichlorobenzene	1	74.1288	0	100	74	50	130
Naphthalene	1	75.8596	0	100	76	50	130
Hexachlorobutadiene	1	71.7855	0	100	72	50	130
4-Chloro-3-methylphenol	1	89.798	0	100	90	50	130
2,4,6-Trichlorophenol	1	90.3178	0	100	90	50	130
2,4,5-Trichlorophenol	1	87.0167	0	100	87	50	130
Acenaphthene	1	77.4823	0	100	77	50	130
2,4-Dinitrotoluene	1	84.44	0	100	84	50	130
4-Nitrophenol	1	63.9715	0	100	64	20	130
Fluorene	1	76.9078	0	100	77	50	130
Hexachlorobenzene	1	78.7799	0	100	79	50	130
Pentachlorophenol	1	95.0599	0	100	95	40	130
Pyrene	1	85.7714	0	100	86	50	130
Butylbenzylphthalate	1	91.91	0	100	92	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: WMB33889

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M44246.D	AC78787-003(MSD)	5/23/2014 11:36:00 AM
Duplicate(If applicable):	10M44245.D	AC78787-003(MS)	5/23/2014 11:14:00 AM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Pyridine	1	0	0	NA	40
Phenol	1	54.141	53.1196	1.9	40
2-Chlorophenol	1	79.3073	76.7263	3.3	40
1,4-Dichlorobenzene	1	69.8594	71.7424	2.7	40
2-Methylphenol	1	83.3554	80.6315	3.3	40
Hexachloroethane	1	71.1892	73.046	2.6	40
N-Nitroso-di-n-propylamine	1	81.5898	80.4379	1.4	40
3&4-Methylphenol	1	84.5725	83.1879	1.7	40
Nitrobenzene	1	80.3045	80.5945	0.36	40
2,4-Dimethylphenol	1	75.813	77.4023	2.1	40
1,2,4-Trichlorobenzene	1	74.1288	75.56	1.9	40
Naphthalene	1	75.8596	77.6681	2.4	40
Hexachlorobutadiene	1	71.7855	74.6579	3.9	40
4-Chloro-3-methylphenol	1	89.798	90.573	0.86	40
2,4,6-Trichlorophenol	1	90.3178	81.4166	10	40
2,4,5-Trichlorophenol	1	87.0167	85.5962	1.6	40
Acenaphthene	1	77.4823	78.4132	1.2	40
2,4-Dinitrotoluene	1	84.44	84.6153	0.21	40
4-Nitrophenol	1	63.9715	64.5162	0.85	40
Fluorene	1	76.9078	77.8092	1.2	40
Hexachlorobenzene	1	78.7799	81.0132	2.8	40
Pentachlorophenol	1	95.0599	95.8472	0.82	40
Pyrene	1	85.7714	87.3145	1.8	40
Butylbenzylphthalate	1	91.91	92.9568	1.1	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Quantitation Report (QT Reviewed)

4052101 0866

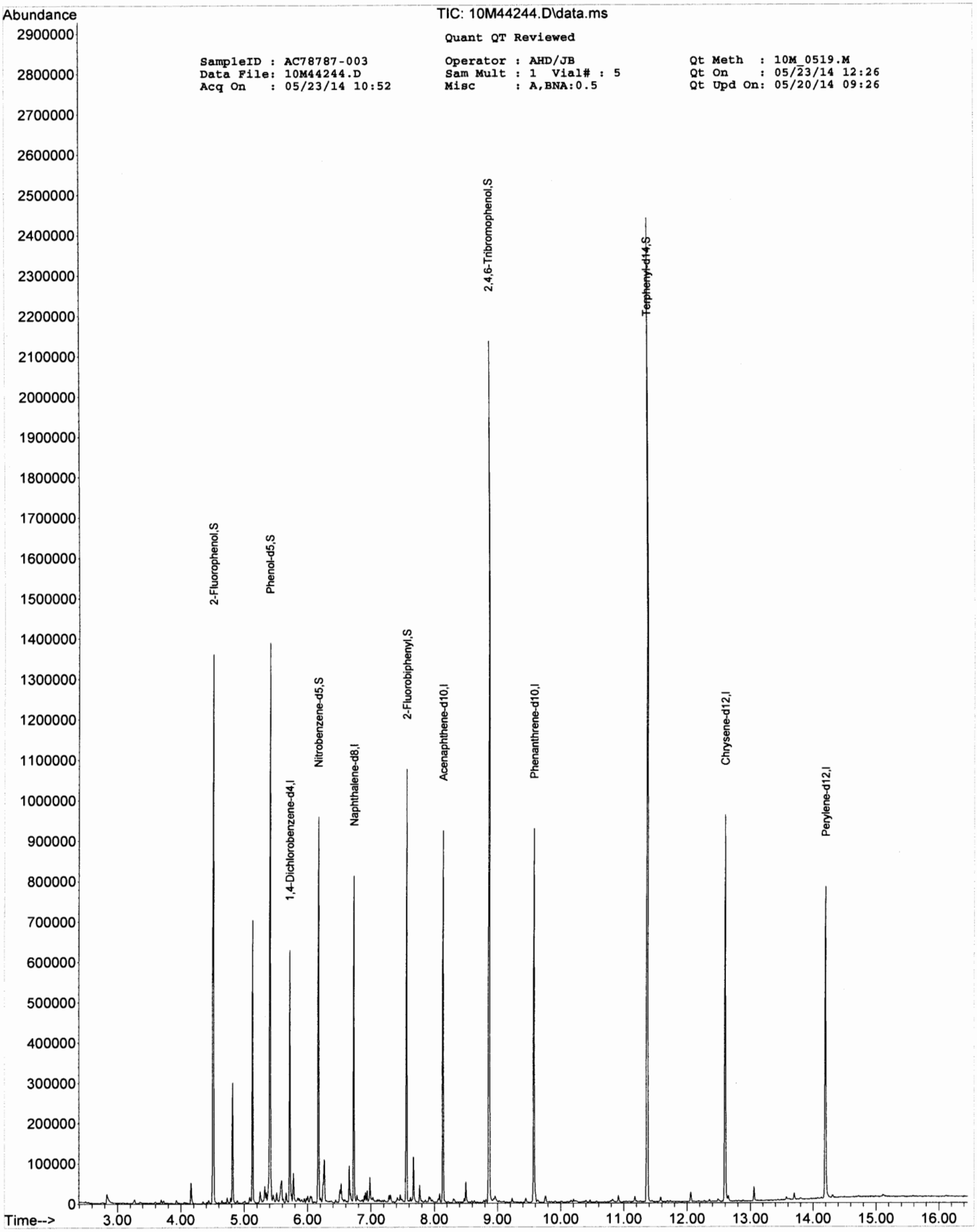
SampleID : AC78787-003 Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44244.D Sam Mult : 1 Vial# : 5 Qt On : 05/23/14 12:26
Acq On : 05/23/14 10:52 Misc : A,BNA:0.5 Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	80326	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	319127	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	186987	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	337425	40.00	ng	0.00
88) Chrysene-d12	12.597	240	354077	40.00	ng	0.00
100) Perylene-d12	14.197	264	323216	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	398060	130.22	ng	0.00
Spiked Amount 100.000			Recovery = 130.22%			
15) Phenol-d5	5.404	99	500613	115.78	ng	0.00
Spiked Amount 100.000			Recovery = 115.78%			
30) Nitrobenzene-d5	6.168	128	121733	82.39	ng	0.00
Spiked Amount 50.000			Recovery = 164.78%			
52) 2-Fluorobiphenyl	7.559	172	282827	41.06	ng	0.00
Spiked Amount 50.000			Recovery = 82.12%			
77) 2,4,6-Tribromophenol	8.864	330	282405	196.01	ng	0.00
Spiked Amount 100.000			Recovery = 196.01%			
91) Terphenyl-d14	11.367	244	831307	108.88	ng	0.00
Spiked Amount 50.000			Recovery = 217.76%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44244.D\data.ms
Quant QT Reviewed
SampleID : AC78787-003
Data File: 10M44244.D
Acq On : 05/23/14 10:52
Operator : AHD/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA:0.5
Qt Meth : 10M_0519.M
Qt On : 05/23/14 12:26
Qt Upd On: 05/20/14 09:26
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Quantitation Report (Not Reviewed)

4052101 0868

SampleID : AC78787-003(MS) Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44245.D Sam Mult : 1 Vial# : 6 Qt On : 05/23/14 12:26
Acq On : 05/23/14 11:14 Misc : A,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	85607	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	323859	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	193369	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	349436	40.00	ng	0.00
88) Chrysene-d12	12.603	240	344929	40.00	ng	0.00
100) Perylene-d12	14.197	264	306200	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	257786	79.13	ng	0.00
Spiked Amount 100.000			Recovery = 79.13%			
15) Phenol-d5	5.409	99	330298	71.67	ng	0.00
Spiked Amount 100.000			Recovery = 71.67%			
30) Nitrobenzene-d5	6.174	128	64827	43.24	ng	0.00
Spiked Amount 50.000			Recovery = 86.48%			
52) 2-Fluorobiphenyl	7.559	172	132279	18.57	ng	0.00
Spiked Amount 50.000			Recovery = 37.14%			
77) 2,4,6-Tribromophenol	8.864	330	152492	116.81	ng	0.00
Spiked Amount 100.000			Recovery = 116.81%			
91) Terphenyl-d14	11.367	244	477096	64.15	ng	0.00
Spiked Amount 50.000			Recovery = 128.30%			
Target Compounds						Qvalue
9) N-Nitrosodimethylamine	2.847	74	182909	72.9193	ng	75
11) Benzaldehyde	5.339	77	3313	1.3267	ng	49
14) bis(2-Chloroethyl)ether	5.500	93	265286	76.7473	ng	80
16) Phenol	5.420	94	262624	53.1196	ng	80
17) 2-Chlorophenol	5.537	128	260681	76.7263	ng	85
18) N-Decane	5.591	57	6591	1.8131	ng	77
19) 1,3-Dichlorobenzene	5.671	146	265193	73.5345	ng	96
20) 1,4-Dichlorobenzene	5.735	146	259783	71.7424	ng	98
21) 1,2-Dichlorobenzene	5.858	146	257971	75.2061	ng	98
23) bis(2-chloroisopropyl)...	5.949	45	328503	67.4431	ng	94
24) 2-Methylphenol	5.928	108	251301	80.6315	ng	97
26) Hexachloroethane	6.136	117	98447	73.0460	ng	85
27) N-Nitroso-di-n-propyla...	6.056	70	190654	80.4379	ng	67
28) 3&4-Methylphenol	6.056	108	258595	83.1879	ng	88
31) Nitrobenzene	6.184	77	276646	80.5945	ng	83
32) Isophorone	6.377	82	493855	78.9730	ng	88
33) 2-Nitrophenol	6.436	139	141746	84.5596	ng	86
34) 2,4-Dimethylphenol	6.468	107	243754	77.4023	ng	90
35) Benzoic Acid	6.553	105	155676	82.2662	ng	89
36) bis(2-Chloroethoxy)met...	6.543	93	328762	80.3900	ng	95
37) 2,4-Dichlorophenol	6.623	162	213866	87.1791	ng	87
38) 1,2,4-Trichlorobenzene	6.687	180	212604	75.5600	ng	98
39) Naphthalene	6.746	128	728099	77.6681	ng	99
40) 4-Chloroaniline	6.789	127	3599	0.8524	ng	38
41) Hexachlorobutadiene	6.837	225	111993	74.6579	ng	97
42) Caprolactam	7.078	113	646	0.6023	ng	68
43) 4-Chloro-3-methylphenol	7.142	107	252695	90.5730	ng	79
49) Hexachlorocyclopentadiene	7.399	237	98772	63.0621	ng	98
50) 2,4,6-Trichlorophenol	7.495	196	153873	81.4166	ng	98
51) 2,4,5-Trichlorophenol	7.522	196	161254	85.5962	ng	99
53) 2-Chloronaphthalene	7.666	162	478893	80.6388	ng	93
57) 2-Nitroaniline	7.666	65	1684	0.7770	ng	74
59) Acenaphthylene	8.014	152	769232	82.1021	ng	99
60) Dimethylphthalate	7.885	163	568722	83.1726	ng	98
61) 2,6-Dinitrotoluene	7.944	165	127318	87.0179	ng	54
62) Acenaphthene	8.163	153	482233	78.4132	ng	98
64) 2,4-Dinitrophenol	8.179	184	72997	87.0569	ng	36
66) 2,4-Dinitrotoluene	8.292	165	175395	84.6153	ng	68
67) 4-Nitrophenol	8.217	65	84666	64.5162	ng	96
68) 2,3,4,6-Tetrachlorophenol	8.425	232	141385	87.1356	ng	85
69) Fluorene	8.634	166	552355	77.8092	ng	99
70) 4-Chlorophenyl-phenyle...	8.629	204	277706	81.3875	ng	80
71) Diethylphthalate	8.511	149	572610	85.0788	ng	95
72) 4-Nitroaniline	8.634	138	6990	3.6364	ng	20
73) Atrazine	9.372	200	21772	12.2061	ng	35
75) 4,6-Dinitro-2-methylph...	8.671	198	105104	91.7028	ng	65
76) n-Nitrosodiphenylamine	8.736	169	374420	62.2654	ng	98
78) 1,2-Diphenylhydrazine	8.778	77	619588	75.7014	ng	87
79) 4-Bromophenyl-phenylether	9.105	248	164105	80.0821	ng	84
80) Hexachlorobenzene	9.174	284	197367	81.0132	ng	63
82) Pentachlorophenol	9.372	266	142063	95.8472	ng	97
83) Phenanthrene	9.602	178	843176	83.5966	ng	99

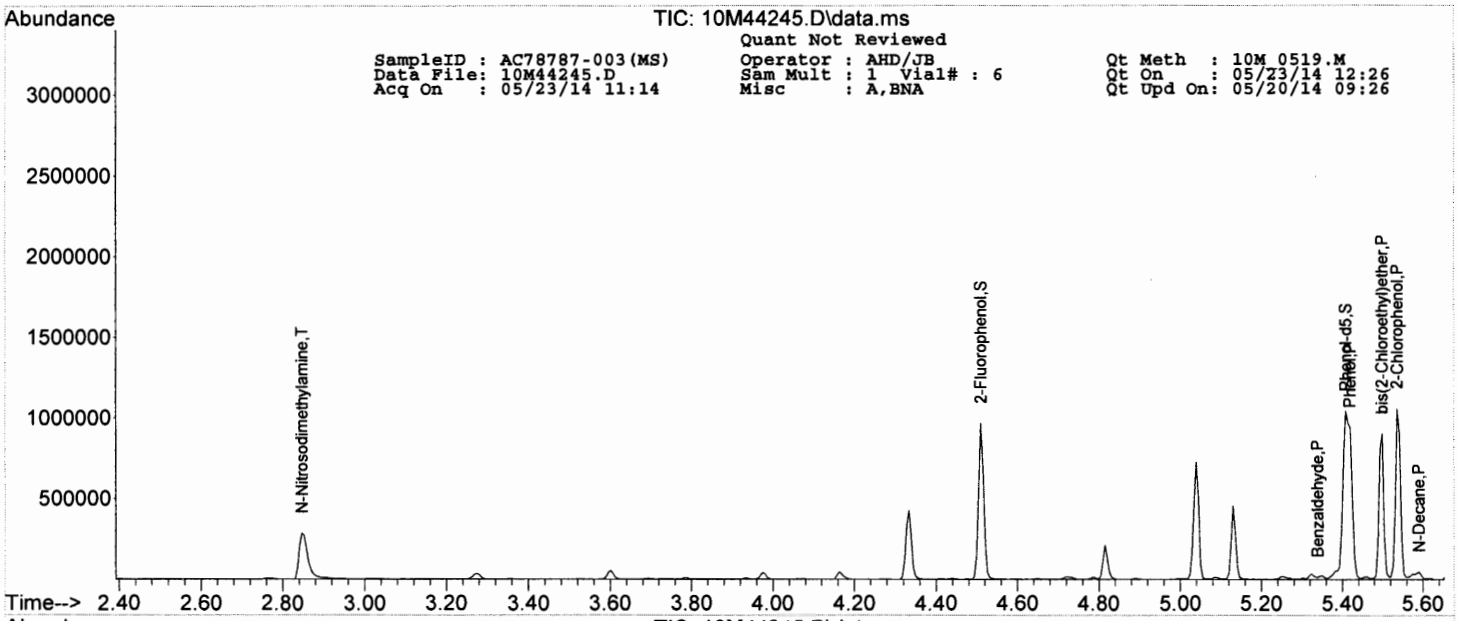
Quantitation Report (Not Reviewed)

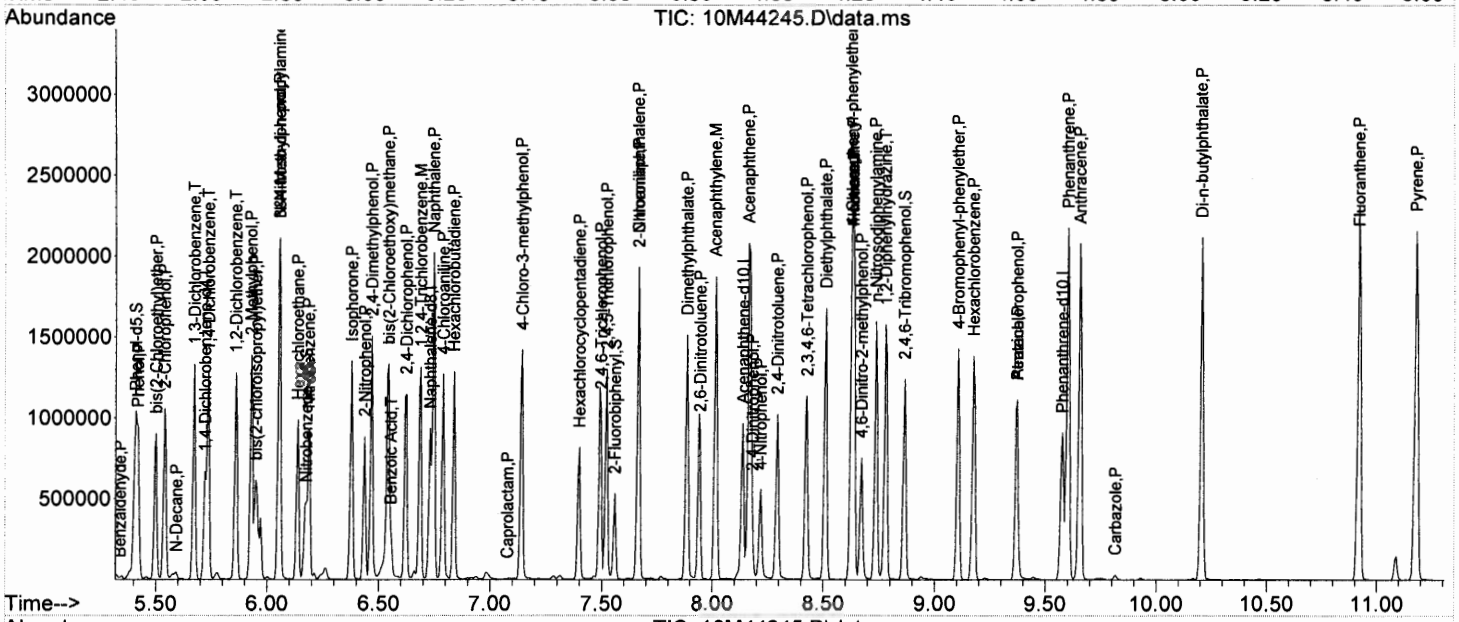
SampleID : AC78787-003(MS) Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44245.D Sam Mult : 1 Vial# : 6 Qt On : 05/23/14 12:26
Acq On : 05/23/14 11:14 Misc : A,BNA Qt Upd On: 05/20/14 09:26

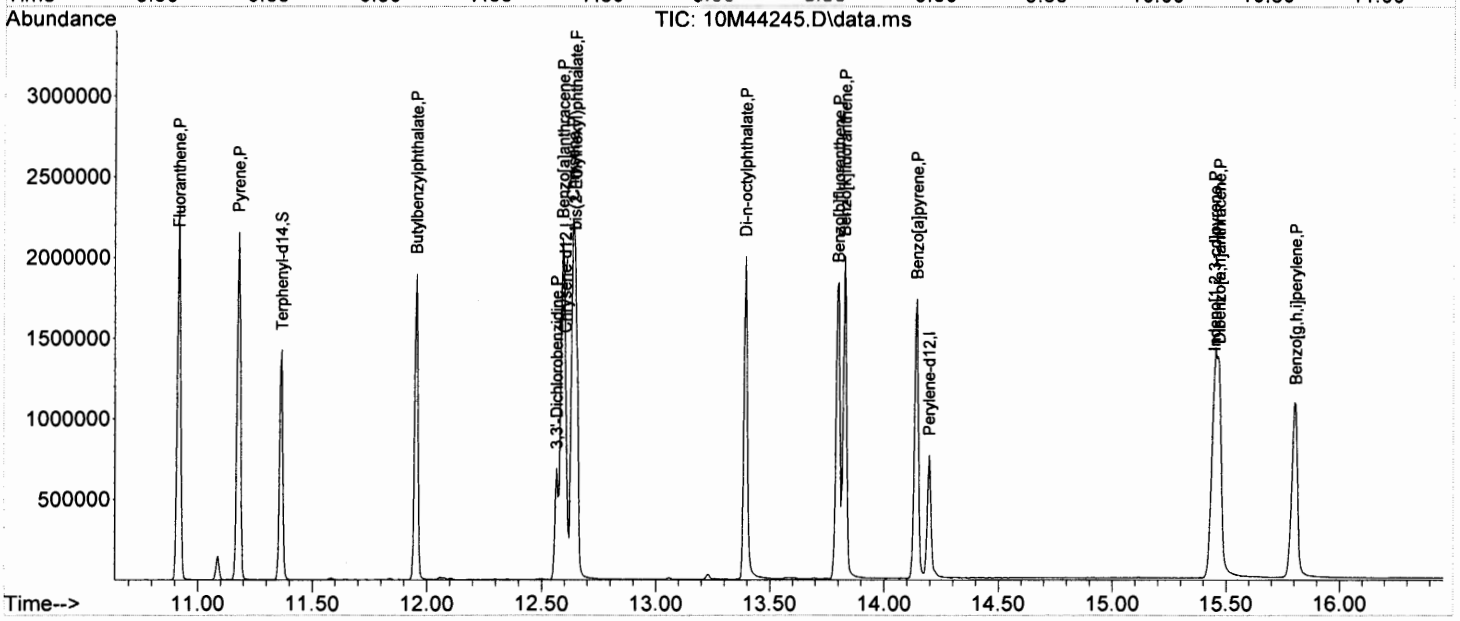
Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Anthracene	9.656	178	823324	81.7592	ng	98
85)	Carbazole	9.816	167	11733	1.1638	ng	96
86)	Di-n-butylphthalate	10.207	149	1052532	89.3324	ng	97
87)	Fluoranthene	10.918	202	941862	84.6619	ng	99
89)	Pyrene	11.180	202	932059	87.3145	ng	97
94)	Butylbenzylphthalate	11.956	149	470478	92.9568	ng	73
96)	3,3'-Dichlorobenzidine	12.565	252	156777	45.8525	ng	96
97)	Benzo[a]anthracene	12.592	228	856881	84.4282	ng	99
98)	Chrysene	12.635	228	811312	88.4393	ng	100
99)	bis(2-Ethylhexyl)phtha...	12.646	149	515264	82.1157	ng	92
101)	Di-n-octylphthalate	13.394	149	1070347	98.5478	ng	100
102)	Benzo[b]fluoranthene	13.801	252	819250	89.5518	ng	95
103)	Benzo[k]fluoranthene	13.828	252	758980	82.9388	ng	96
104)	Benzo[a]pyrene	14.143	252	775069	88.5855	ng	94
105)	Indeno[1,2,3-cd]pyrene	15.448	276	886536	88.3781	ng	86
106)	Dibenzo[a,h]anthracene	15.470	278	730386	87.9001	ng	91
107)	Benzo[g,h,i]perylene	15.807	276	726131	87.6171	ng	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M44245.D\data.ms
Quant Not Reviewed
SampleID : AC78787-003(MS)
Data File: 10M44245.D
Acq On : 05/23/14 11:14
Operator : AHD/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/23/14 12:26
Qt Upd On: 05/20/14 09:26
N-Nitrosodimethylamine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Phenol,P
bis(2-Chloroethyl)ether,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44245.D\data.ms
Benzaldehyde,P
N-Decane,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Hexachlorocyclopentadiene,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
2,4-Dinitrotoluene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
Time-->


Abundance
TIC: 10M44245.D\data.ms
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
3,3'-Dichlorobenzidine,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (Not Reviewed)

SampleID : AC78787-003(MSD) Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44246.D Sam Mult : 1 Vial# : 7 Qt On : 05/23/14 12:26
Acq On : 05/23/14 11:36 Misc : A,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.719	152	82887	40.00	ng	0.00
29) Naphthalene-d8	6.730	136	321606	40.00	ng	0.00
47) Acenaphthene-d10	8.137	164	192003	40.00	ng	0.00
74) Phenanthrene-d10	9.575	188	344387	40.00	ng	0.00
88) Chrysene-d12	12.603	240	338167	40.00	ng	0.00
100) Perylene-d12	14.197	264	301672	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.510	112	274606	87.06	ng	0.00
Spiked Amount 100.000			Recovery = 87.06%			
15) Phenol-d5	5.409	99	341630	76.57	ng	0.00
Spiked Amount 100.000			Recovery = 76.57%			
30) Nitrobenzene-d5	6.174	128	69868	46.92	ng	0.00
Spiked Amount 50.000			Recovery = 93.84%			
52) 2-Fluorobiphenyl	7.559	172	116006	16.40	ng	0.00
Spiked Amount 50.000			Recovery = 32.80%			
77) 2,4,6-Tribromophenol	8.864	330	153680	118.98	ng	0.00
Spiked Amount 100.000			Recovery = 118.98%			
91) Terphenyl-d14	11.367	244	485798	66.62	ng	0.00
Spiked Amount 50.000			Recovery = 133.24%			
Target Compounds						Qvalue
9) N-Nitrosodimethylamine	2.847	74	179229	73.7969	ng	76
11) Benzaldehyde	5.420	77	3182	1.3161	ng	11
14) bis(2-Chloroethyl)ether	5.500	93	262696	78.4919	ng	80
16) Phenol	5.420	94	259169	54.1410	ng	81
17) 2-Chlorophenol	5.537	128	260889	79.3073	ng	85
18) N-Decane	5.591	57	5548	1.5762	ng	85
19) 1,3-Dichlorobenzene	5.671	146	249929	71.5761	ng	97
20) 1,4-Dichlorobenzene	5.735	146	244927	69.8594	ng	98
21) 1,2-Dichlorobenzene	5.858	146	246426	74.1979	ng	99
23) bis(2-chloroisopropyl)...	5.949	45	319623	67.7734	ng	93
24) 2-Methylphenol	5.928	108	251536	83.3554	ng	96
25) Acetophenone	6.211	105	7138	1.5986	ng	56
26) Hexachloroethane	6.136	117	92896	71.1892	ng	85
27) N-Nitroso-di-n-propyla...	6.056	70	187240	81.5898	ng	67
28) 3&4-Methylphenol	6.056	108	254546	84.5725	ng	89
31) Nitrobenzene	6.184	77	273733	80.3045	ng	83
32) Isophorone	6.377	82	487046	78.4298	ng	88
33) 2-Nitrophenol	6.436	139	142292	85.3776	ng	85
34) 2,4-Dimethylphenol	6.468	107	237088	75.8130	ng	90
35) Benzoic Acid	6.554	105	157409	83.4051	ng	88
36) bis(2-Chloroethoxy)met...	6.543	93	322494	79.4098	ng	96
37) 2,4-Dichlorophenol	6.623	162	212003	87.0251	ng	87
38) 1,2,4-Trichlorobenzene	6.687	180	207126	74.1288	ng	98
39) Naphthalene	6.746	128	706198	75.8596	ng	99
40) 4-Chloroaniline	6.789	127	3659	0.8727	ng	42
41) Hexachlorobutadiene	6.837	225	106935	71.7855	ng	97
42) Caprolactam	7.078	113	614	0.5765	ng	87
43) 4-Chloro-3-methylphenol	7.142	107	248790	89.7980	ng	79
49) Hexachlorocyclopentadiene	7.399	237	94821	61.1856	ng	98
50) 2,4,6-Trichlorophenol	7.495	196	169490	90.3178	ng	99
51) 2,4,5-Trichlorophenol	7.522	196	162772	87.0167	ng	99
53) 2-Chloronaphthalene	7.666	162	474751	80.5101	ng	92
57) 2-Nitroaniline	7.666	65	1698	0.7890	ng	70
59) Acenaphthylene	8.014	152	745328	80.1167	ng	99
60) Dimethylphthalate	7.885	163	555270	81.7830	ng	98
61) 2,6-Dinitrotoluene	7.939	165	125305	86.2513	ng	62
62) Acenaphthene	8.163	153	473142	77.4823	ng	97
64) 2,4-Dinitrophenol	8.180	184	74933	89.3961	ng	35
66) 2,4-Dinitrotoluene	8.292	165	173758	84.4400	ng	68
67) 4-Nitrophenol	8.217	65	83319	63.9715	ng	97
68) 2,3,4,6-Tetrachlorophenol	8.426	232	139565	86.6259	ng	85
69) Fluorene	8.634	166	542099	76.9078	ng	98
70) 4-Chlorophenyl-phenyle...	8.629	204	271038	79.9984	ng	80
71) Diethylphthalate	8.511	149	561611	84.0382	ng	95
72) 4-Nitroaniline	8.634	138	6877	3.6030	ng	20
73) Atrazine	9.372	200	21480	12.1281	ng	35
75) 4,6-Dinitro-2-methylph...	8.672	198	103557	91.6821	ng	63
76) n-Nitrosodiphenylamine	8.736	169	364133	61.4424	ng	99
78) 1,2-Diphenylhydrazine	8.779	77	603318	74.7942	ng	86
79) 4-Bromophenyl-phenylether	9.105	248	159798	79.1236	ng	85
80) Hexachlorobenzene	9.174	284	189153	78.7799	ng	64
82) Pentachlorophenol	9.372	266	138604	95.0599	ng	95

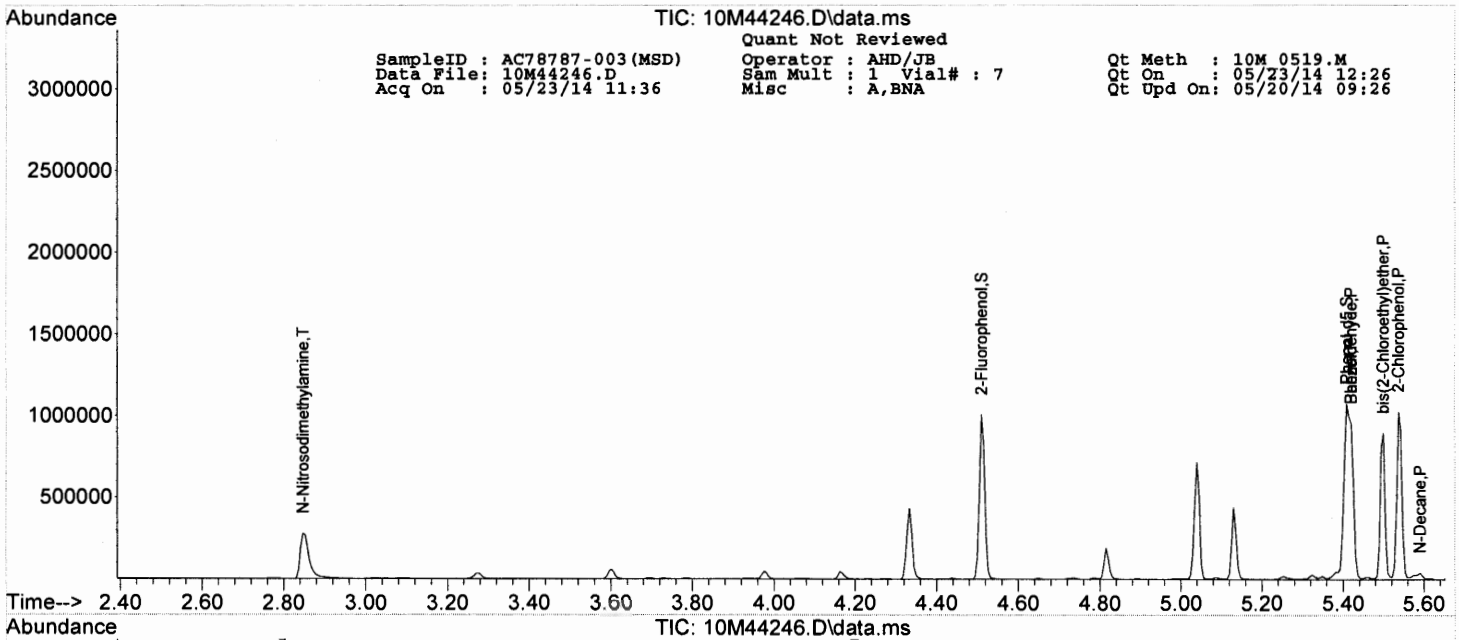
Quantitation Report (Not Reviewed)

SampleID : AC78787-003(MSD) Operator : AHD/JB Qt Meth : 10M_0519.M
Data File: 10M44246.D Sam Mult : 1 Vial# : 7 Qt On : 05/23/14 12:26
Acq On : 05/23/14 11:36 Misc : A,BNA Qt Upd On: 05/20/14 09:26

Data Path : G:\GcMsData\2014\GCMS_10\Data\05-23-14\
Qt Path : G:\GCMSDATA\2014\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83)	Phenanthrene	9.602	178	825553	83.0494	ng	99
84)	Anthracene	9.656	178	804131	81.0240	ng	98
85)	Carbazole	9.816	167	11226	1.1299	ng	97
86)	Di-n-butylphthalate	10.207	149	1025852	88.3957	ng	97
87)	Fluoranthene	10.918	202	913355	83.3031	ng	99
89)	Pyrene	11.180	202	897638	85.7714	ng	96
94)	Butylbenzylphthalate	11.956	149	455554	91.9100	ng	74
96)	3,3'-Dichlorobenzidine	12.565	252	197768	59.2370	ng	96
97)	Benzo[a]anthracene	12.592	228	829425	83.3571	ng	99
98)	Chrysene	12.635	228	783974	87.1681	ng	100
99)	bis(2-Ethylhexyl)phtha...	12.651	149	553304	89.4476	ng	90
101)	Di-n-octylphthalate	13.394	149	1039658	97.2725	ng	100
102)	Benzo[b]fluoranthene	13.801	252	797071	88.4352	ng	95
103)	Benzo[k]fluoranthene	13.833	252	761024	84.4104	ng	94
104)	Benzo[a]pyrene	14.143	252	756500	87.7609	ng	95
105)	Indeno[1,2,3-cd]pyrene	15.448	276	891376	90.1944	ng	86
106)	Dibenzo[a,h]anthracene	15.470	278	728328	88.9681	ng	91
107)	Benzo[g,h,i]perylene	15.801	276	718756	88.0289	ng	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed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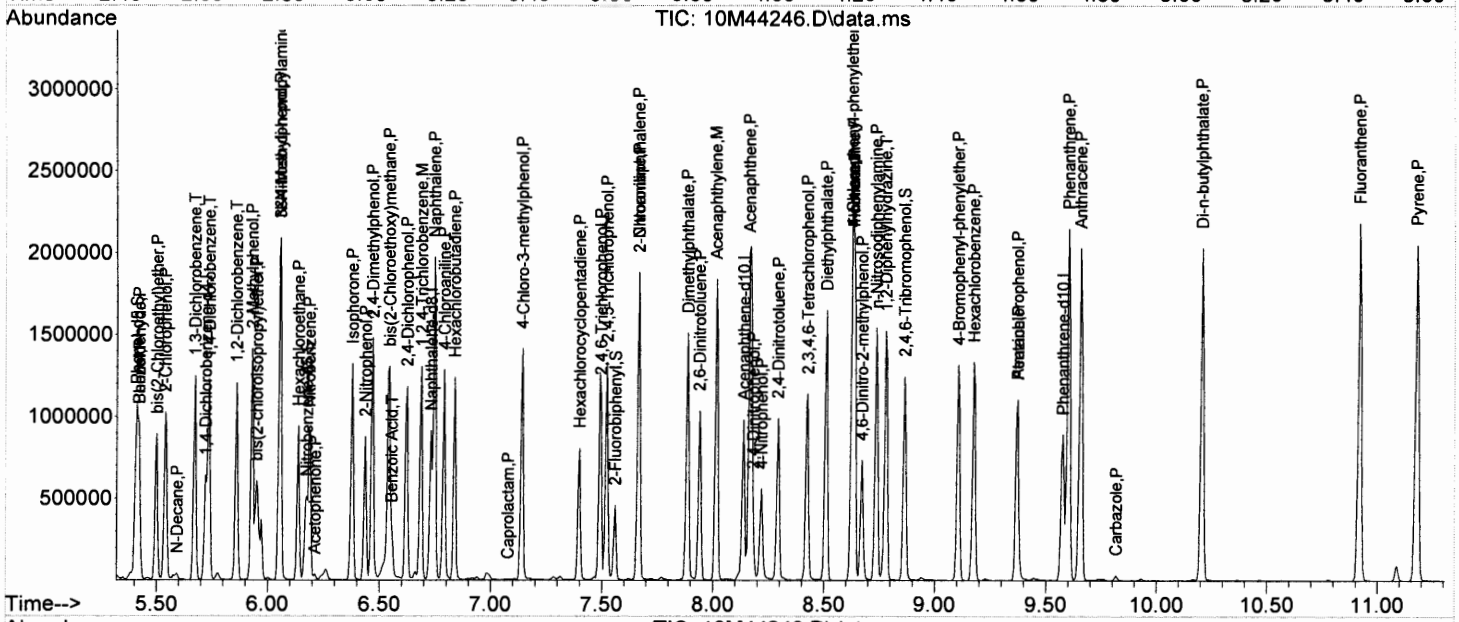
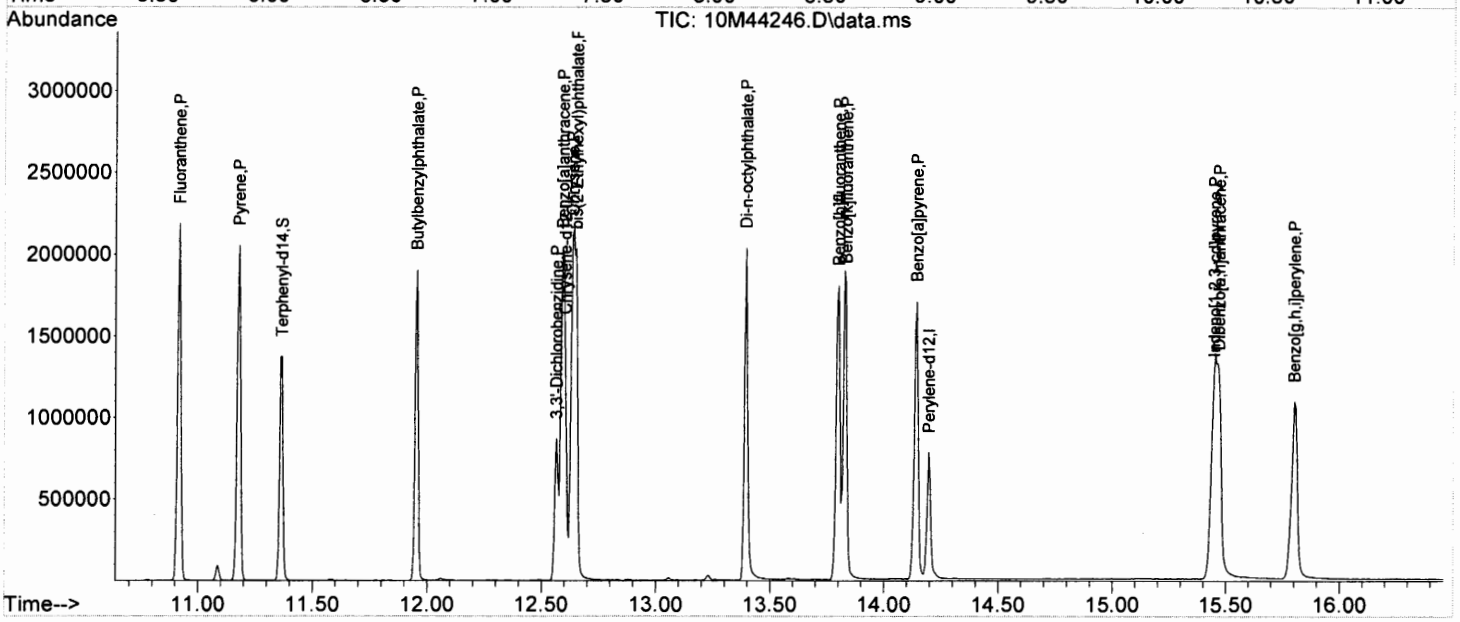
Quant Not Reviewed
SampleID : AC78787-003(MSD)
Data File: 10M44246.D
Acq On : 05/23/14 11:36
Operator : AHD/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 10M 0519.M
Qt On : 05/23/14 12:26
Qt Upd On: 05/20/14 09:26
N-Nitrosodimethylamine,T
2-Fluorophenol,S
bis(2-Chloroethyl)ether,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M44246.D\data.ms
N-Decane,P
1,3-Dichlorobenzene,T
1,2-Dichlorobenzene,T
bis(2-chloroisopropyl)ether,P
Hexachloroethane,P
Acetophenone,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
Benzoic Acid,T
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene,P
4-Chloroaniline,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Hexachlorocyclopentadiene,P
2-Fluorobiphenyl,S
Dimethylphthalate,P
2,6-Dinitrotoluene,P
Acenaphthylene,M
Acenaphthene,P
2,4-Dinitrotoluene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4,6-Dinitro-2-methylphenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
Time-->


Abundance
TIC: 10M44246.D\data.ms
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
3,3'-Dichlorobenzidine,P
Benzo[a]anthracene,P
bis(2-Ethylhexyl)phthalate,P
Di-n-octylphthalate,P
Benzo[b]fluoranthene,P
Benzo[k]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Dibenz[a,h]anthracene,P
Benzo[g,h,i]perylene,P
Time-->

Form3
Recovery Data
QC Batch: SMB33917

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57040.D	AC78692-028(3X)(MS)	5/27/2014 5:37:00 PM
Non Spike(If applicable):	9M57039.D	AC78692-028(3X)	5/27/2014 5:13:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	73.1127	0	100	73	20	130
2-Chlorophenol	1	79.602	0	100	80	50	130
1,4-Dichlorobenzene	1	43.71	0	50	87	50	130
2-Methylphenol	1	86.8878	0	100	87	50	130
N-Nitroso-di-n-propylamine	1	41.9277	0	50	84	20	130
2,4-Dimethylphenol	1	85.1604	0	100	85	50	130
1,2,4-Trichlorobenzene	1	39.2034	0	50	78	50	130
Naphthalene	1	42.5274	0	50	85	50	130
4-Chloro-3-methylphenol	1	78.6708	0	100	79	50	130
Acenaphthene	1	37.6902	0	50	75	50	130
2,4-Dinitrotoluene	1	31.7001	0	50	63	50	130
4-Nitrophenol	1	68.1861	0	100	68	20	130
Fluorene	1	37.3425	0	50	75	50	130
Pentachlorophenol	1	74.6172	0	100	75	40	130
Pyrene	1	42.1428	0	50	84	50	130
Butylbenzylphthalate	1	49.908	0	50	100	50	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57041.D	AC78692-028(3X)(MSD)	5/27/2014 6:01:00 PM
Non Spike(If applicable):	9M57039.D	AC78692-028(3X)	5/27/2014 5:13:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	48.5742	0	100	49	20	130
2-Chlorophenol	1	51.3846	0	100	51	50	130
1,4-Dichlorobenzene	1	28.2888	0	50	57	50	130
2-Methylphenol	1	54.7422	0	100	55	50	130
N-Nitroso-di-n-propylamine	1	31.1412	0	50	62	20	130
2,4-Dimethylphenol	1	56.016	0	100	56	50	130
1,2,4-Trichlorobenzene	1	25.3212	0	50	51	50	130
Naphthalene	1	27.3888	0	50	55	50	130
4-Chloro-3-methylphenol	1	52.1838	0	100	52	50	130
Acenaphthene	1	24.7794	0	50	50	50	130
2,4-Dinitrotoluene	1	17.937	0	50	36*	50	130
4-Nitrophenol	1	41.5992	0	100	42	20	130
Fluorene	1	24.3024	0	50	49*	50	130
Pentachlorophenol	1	0	0	100	0*	40	130
Pyrene	1	28.4604	0	50	57	50	130
Butylbenzylphthalate	1	65.466	0	50	131*	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: SMB33917

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57041.D	AC78692-028(3X)(MSD)	5/27/2014 6:01:00 PM
Duplicate(If applicable):	9M57040.D	AC78692-028(3X)(MS)	5/27/2014 5:37:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Phenol	1	48.5742	73.1127	40	40
2-Chlorophenol	1	51.3846	79.602	43*	40
1,4-Dichlorobenzene	1	28.2888	43.71	43*	40
2-Methylphenol	1	54.7422	86.8878	45*	40
N-Nitroso-di-n-propylamine	1	31.1412	41.9277	30	40
2,4-Dimethylphenol	1	56.016	85.1604	41*	40
1,2,4-Trichlorobenzene	1	25.3212	39.2034	43*	40
Naphthalene	1	27.3888	42.5274	43*	40
4-Chloro-3-methylphenol	1	52.1838	78.6708	40	40
Acenaphthene	1	24.7794	37.6902	41*	40
2,4-Dinitrotoluene	1	17.937	31.7001	55*	40
4-Nitrophenol	1	41.5992	68.1861	48*	40
Fluorene	1	24.3024	37.3425	42*	40
Pentachlorophenol	1	0	74.6172	200*	40
Pyrene	1	28.4604	42.1428	39	40
Butylbenzylphthalate	1	65.466	49.908	27	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Quantitation Report (QT/LSC Reviewed)

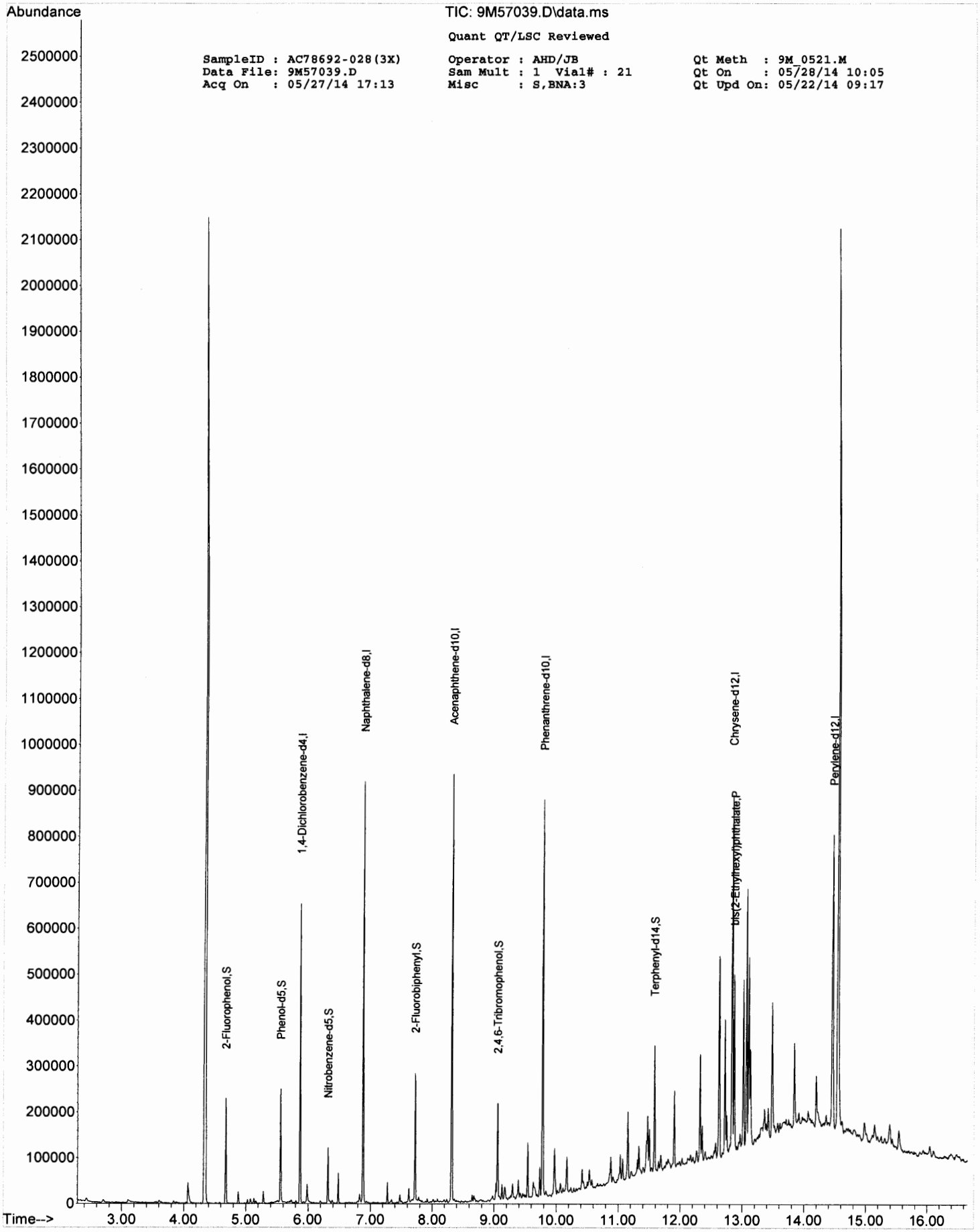
4052101 0876

SampleID : AC78692-028(3X) Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57039.D Sam Mult : 1 Vial# : 21 Qt On : 05/28/14 10:05
Acq On : 05/27/14 17:13 Misc : S,BNA:3 Qt Upd On: 05/22/14 09:17

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
7) 1,4-Dichlorobenzene-d4	5.870	152	84674	40.00 ng	-0.01
29) Naphthalene-d8	6.881	136	328528	40.00 ng	-0.01
47) Acenaphthene-d10	8.315	164	190152	40.00 ng	-0.02
74) Phenanthrene-d10	9.780	188	322082	40.00 ng	-0.02
88) Chrysene-d12	12.834	240	305057	40.00 ng	-0.02
100) Perylene-d12	14.460	264	291109	40.00 ng	-0.02
System Monitoring Compounds					
10) 2-Fluorophenol	4.678	112	59331	19.76 ng	0.00
Spiked Amount 100.000			Recovery = 19.76%		
15) Phenol-d5	5.560	99	79247	20.32 ng	0.00
Spiked Amount 100.000			Recovery = 20.32%		
30) Nitrobenzene-d5	6.320	128	15961	10.23 ng	-0.01
Spiked Amount 50.000			Recovery = 20.46%		
52) 2-Fluorobiphenyl	7.726	172	81195	11.44 ng	-0.01
Spiked Amount 50.000			Recovery = 22.88%		
77) 2,4,6-Tribromophenol	9.058	330	25125	21.94 ng	-0.02
Spiked Amount 100.000			Recovery = 21.94%		
91) Terphenyl-d14	11.583	244	83112	12.20 ng	-0.02
Spiked Amount 50.000			Recovery = 24.40%		
Target Compounds					Qvalue
99) bis(2-Ethylhexyl)phtha...	12.866	149	116548	18.8935 ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M57039.D\data.ms
Quant QT/LSC Reviewed
SampleID : AC78692-028(3X)
Data File: 9M57039.D
Acq On : 05/27/14 17:13
Operator : AHD/JB
Sam Mult : 1 Vial# : 21
Misc : S,BNA:3
Qt Meth : 9M_0521.M
Qt On : 05/28/14 10:05
Qt Upd On: 05/22/14 09:17
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
bis(2-Ethylhexyl)phthalate,P
Chrysene-d12,I
Perylene-d12,I
Time-->

Quantitation Report (QT Reviewed)

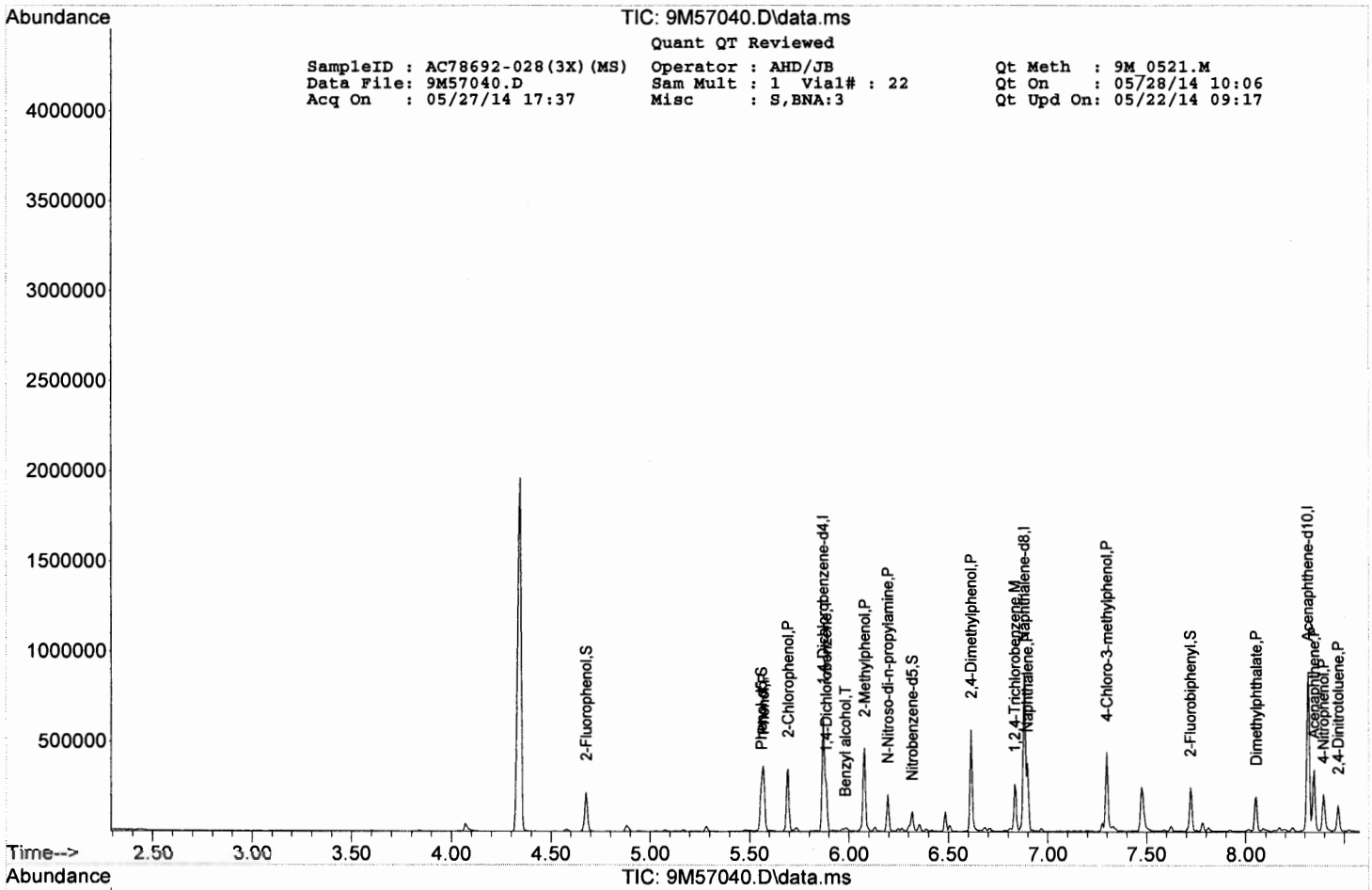
4052101 0878

SampleID : AC78692-028(3X)(MS) Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57040.D Sam Mult : 1 Vial# : 22 Qt On : 05/28/14 10:06
Acq On : 05/27/14 17:37 Misc : S,BNA:3 Qt Upd On: 05/22/14 09:17

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.870	152	81556	40.00	ng	-0.01
29) Naphthalene-d8	6.881	136	312568	40.00	ng	-0.01
47) Acenaphthene-d10	8.315	164	182268	40.00	ng	-0.02
74) Phenanthrene-d10	9.780	188	318061	40.00	ng	-0.02
88) Chrysene-d12	12.834	240	313669	40.00	ng	-0.02
100) Perylene-d12	14.460	264	299909	40.00	ng	-0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.678	112	51469	17.80	ng	0.00
Spiked Amount 100.000			Recovery = 17.80%			
15) Phenol-d5	5.560	99	67509	17.97	ng	0.00
Spiked Amount 100.000			Recovery = 17.97%			
30) Nitrobenzene-d5	6.320	128	13831	9.32	ng	-0.01
Spiked Amount 50.000			Recovery = 18.64%			
52) 2-Fluorobiphenyl	7.721	172	65365	9.61	ng	-0.02
Spiked Amount 50.000			Recovery = 19.22%			
77) 2,4,6-Tribromophenol	9.058	330	20813	18.41	ng	-0.02
Spiked Amount 100.000			Recovery = 18.41%			
91) Terphenyl-d14	11.583	244	71021	10.14	ng	-0.02
Spiked Amount 50.000			Recovery = 20.28%			
Target Compounds						Qvalue
16) Phenol	5.571	94	97792	24.3709	ng	95
17) 2-Chlorophenol	5.694	128	87454	26.5340	ng	73
20) 1,4-Dichlorobenzene	5.886	146	52330	14.5700	ng	99
22) Benzyl alcohol	5.983	108	3560	1.8465	ng	68
24) 2-Methylphenol	6.079	108	81103	28.9626	ng	100
27) N-Nitroso-di-n-propyla...	6.197	70	29310	13.9759	ng	78
34) 2,4-Dimethylphenol	6.614	107	90975	28.3868	ng	94
38) 1,2,4-Trichlorobenzene	6.833	180	39273	13.0678	ng	99
39) Naphthalene	6.897	128	131208	14.1758	ng	99
43) 4-Chloro-3-methylphenol	7.298	107	74738	26.2236	ng	76
60) Dimethylphthalate	8.053	163	70434	10.0390	ng	98
62) Acenaphthene	8.347	153	78244	12.5634	ng	95
66) 2,4-Dinitrotoluene	8.470	165	22827	10.5667	ng	71
67) 4-Nitrophenol	8.395	65	30374	22.7287	ng	63
69) Fluorene	8.823	166	90929	12.4475	ng	98
82) Pentachlorophenol	9.572	266	28635	24.8724	ng	95
85) Carbazole	10.026	167	115643	12.5012	ng	95
86) Di-n-butylphthalate	10.406	149	16652	1.4675	ng	97
89) Pyrene	11.401	202	137390	14.0476	ng	80
94) Butylbenzylphthalate	12.171	149	75597	16.6360	ng	73
99) bis(2-Ethylhexyl)phtha...	12.866	149	33574	5.2932	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed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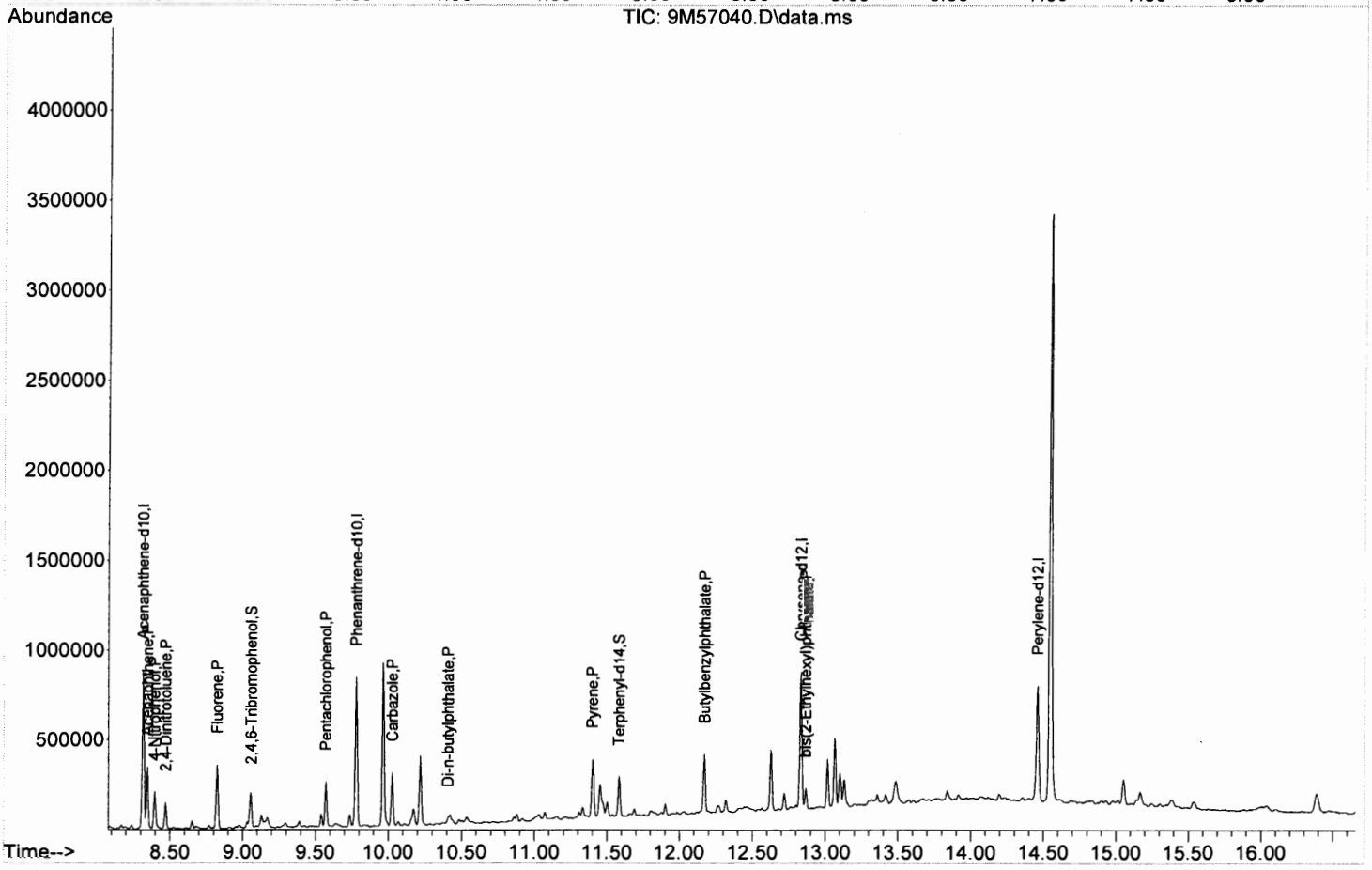
Quant QT Reviewed
SampleID : AC78692-028(3X)(MS)
Data File: 9M57040.D
Acq On : 05/27/14 17:37
Operator : AHD/JB
Sam Mult : 1 Vial# : 22
Misc : S,BNA:3
Qt Meth : 9M_0521.M
Qt On : 05/28/14 10:06
Qt Upd On: 05/22/14 09:17
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
2-Fluorophenol,S
2-Chlorophenol,P
Benzyl alcohol,T
2-Methylphenol,P
N-Nitroso-di-n-propylamine,P
Nitrobenzene-d5,S
2,4-Dimethylphenol,P
4-Chloro-3-methylphenol,P
2-Fluorobiphenyl,S
Dimethylphthalate,P
2,4-Dinitrotoluene,P
Time-->
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00


Abundance
TIC: 9M57040.D\data.ms
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3500000
3000000
2500000
2000000
1500000
1000000
500000
Acenaphthene-d10,I
2,4-Dinitrotoluene,P
Fluorene,P
2,4,6-Tribromophenol,S
Pentachlorophenol,P
Phenanthrene-d10,I
Carbazole,P
Di-n-butylphthalate,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Perylene-d12,I
Time-->
8.50
9.00
9.50
10.00
10.50
11.00
11.50
12.00
12.50
13.00
13.50
14.00
14.50
15.00
15.50
16.00

Quantitation Report (QT Reviewed)

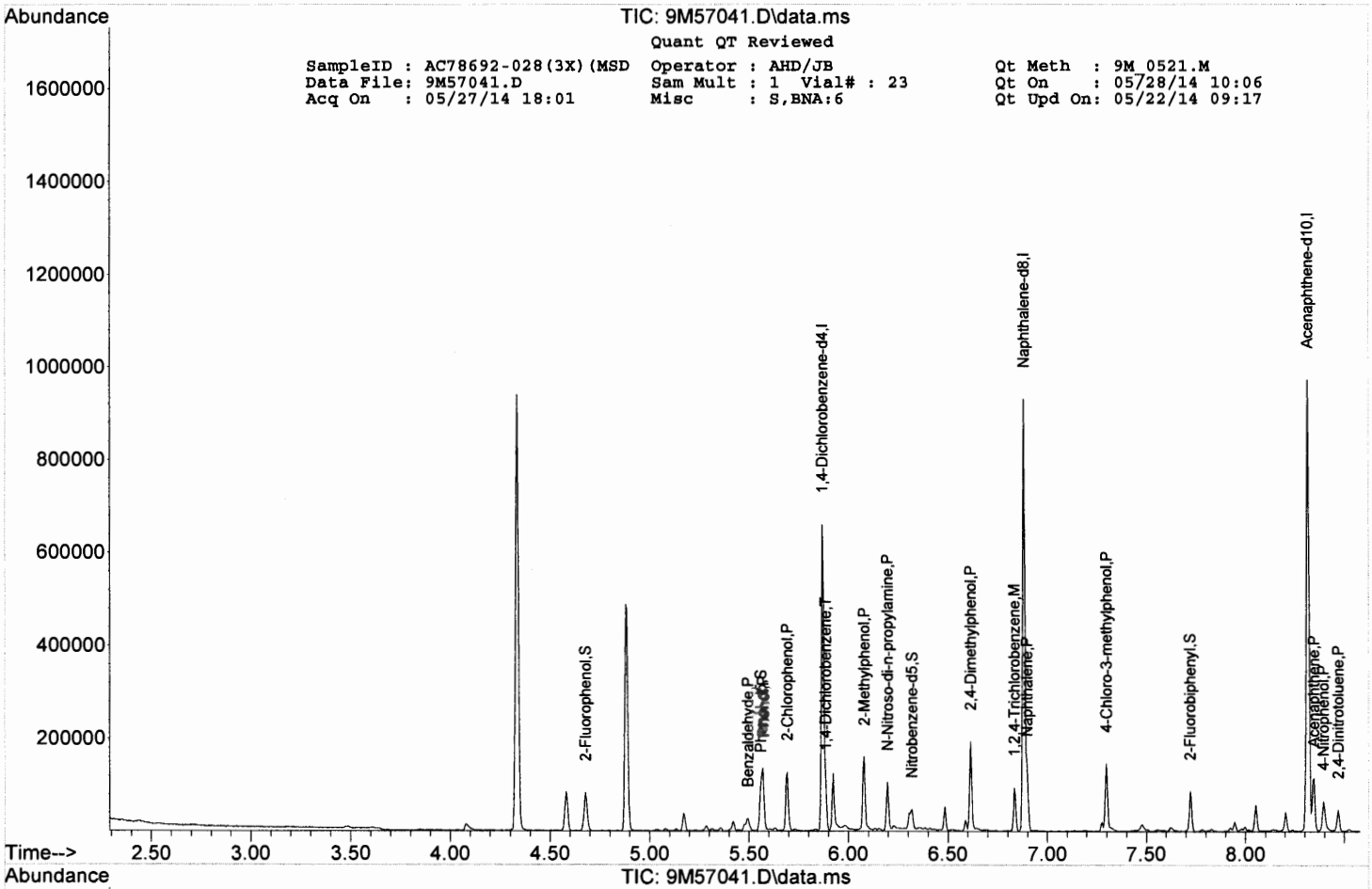
4052101 0880

SampleID : AC78692-028(3X)(MSD Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57041.D Sam Mult : 1 Vial# : 23 Qt On : 05/28/14 10:06
Acq On : 05/27/14 18:01 Misc : S,BNA:6 Qt Upd On: 05/22/14 09:17

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-27-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.870	152	87957	40.00	ng	-0.01
29) Naphthalene-d8	6.881	136	333886	40.00	ng	-0.01
47) Acenaphthene-d10	8.315	164	194145	40.00	ng	-0.02
74) Phenanthrene-d10	9.780	188	340066	40.00	ng	-0.02
88) Chrysene-d12	12.834	240	320985	40.00	ng	-0.02
100) Perylene-d12	14.460	264	312125	40.00	ng	-0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.678	112	18500	5.93	ng	0.00
Spiked Amount 100.000			Recovery = 5.93%			
15) Phenol-d5	5.560	99	23888	5.90	ng	0.00
Spiked Amount 100.000			Recovery = 5.90%			
30) Nitrobenzene-d5	6.320	128	4926	3.11	ng	-0.01
Spiked Amount 50.000			Recovery = 6.22%			
52) 2-Fluorobiphenyl	7.721	172	23866	3.29	ng	-0.02
Spiked Amount 50.000			Recovery = 6.58%			
77) 2,4,6-Tribromophenol	9.058	330	6981	5.77	ng	-0.02
Spiked Amount 100.000			Recovery = 5.77%			
91) Terphenyl-d14	11.583	244	23804	3.32	ng	-0.02
Spiked Amount 50.000			Recovery = 6.64%			
Target Compounds						Qvalue
11) Benzaldehyde	5.496	77	6186	3.0743	ng	65
16) Phenol	5.571	94	35035	8.0957	ng	94
17) 2-Chlorophenol	5.694	128	30442	8.5641	ng	75
20) 1,4-Dichlorobenzene	5.886	146	18263	4.7148	ng	96
24) 2-Methylphenol	6.079	108	27554	9.1237	ng	97
27) N-Nitroso-di-n-propyla...	6.197	70	11739	5.1902	ng	79
34) 2,4-Dimethylphenol	6.614	107	31961	9.3360	ng	96
38) 1,2,4-Trichlorobenzene	6.833	180	13548	4.2202	ng	97
39) Naphthalene	6.897	128	45132	4.5648	ng	97
43) 4-Chloro-3-methylphenol	7.298	107	26478	8.6973	ng	79
62) Acenaphthene	8.347	153	27397	4.1299	ng	96
66) 2,4-Dinitrotoluene	8.470	165	6879	2.9895	ng	71
67) 4-Nitrophenol	8.395	65	9869	6.9332	ng	70
69) Fluorene	8.823	166	31516	4.0504	ng	97
82) Pentachlorophenol	9.572	266	7797	6.7155	ng	92
85) Carbazole	10.026	167	40404	4.0851	ng	99
89) Pyrene	11.401	202	47474	4.7434	ng	82
94) Butylbenzylphthalate	12.171	149	50738	10.9110	ng	84
99) bis(2-Ethylhexyl)phtha...	12.866	149	27561	4.2462	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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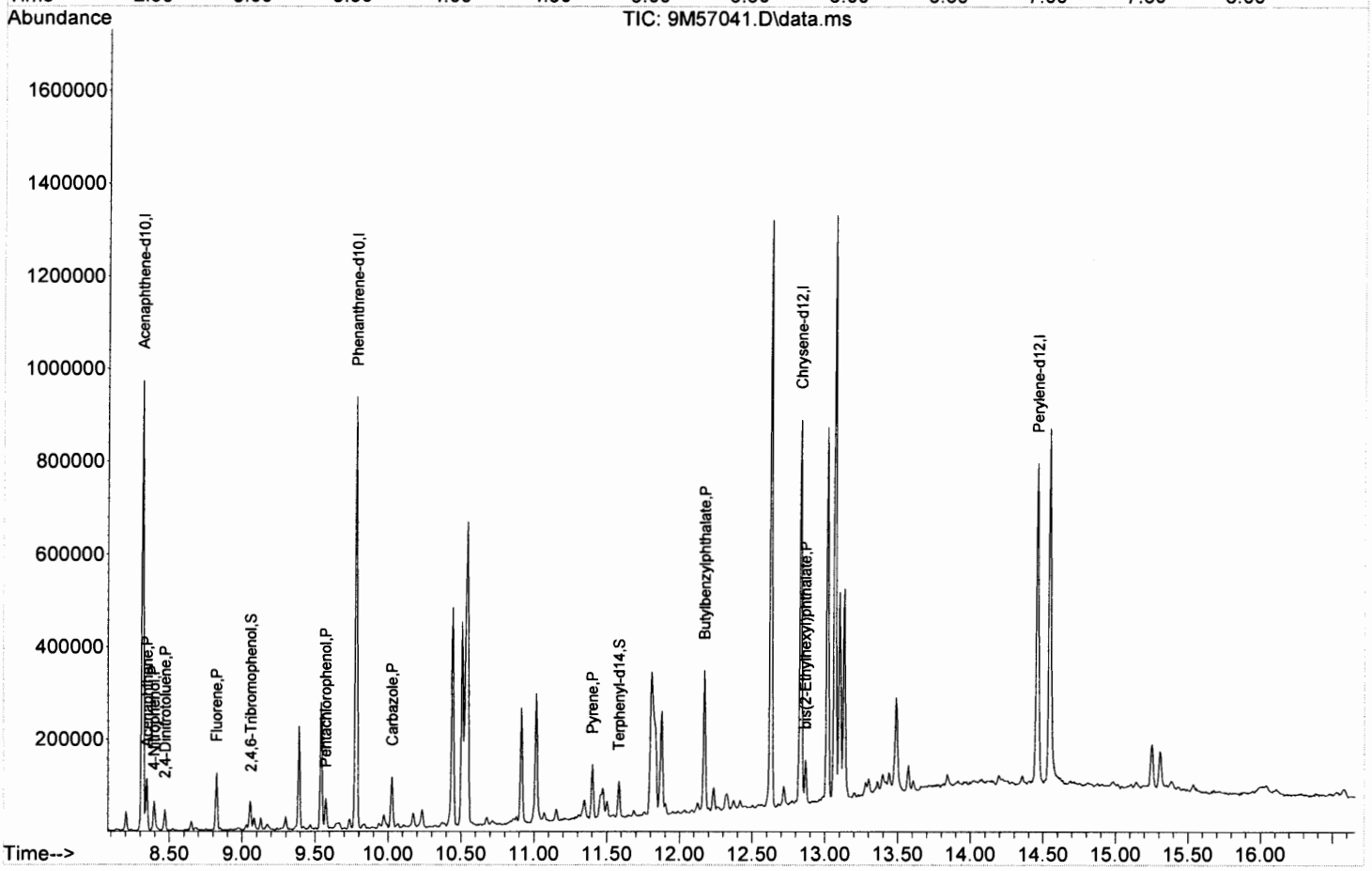
Quant QT Reviewed
SampleID : AC78692-028(3X)(MSD
Data File: 9M57041.D
Acq On : 05/27/14 18:01
Operator : AHD/JB
Sam Mult : 1 Vial# : 23
Misc : S,BNA:6
Qt Meth : 9M_0521.M
Qt On : 05/28/14 10:06
Qt Upd On: 05/22/14 09:17
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
1,4-Dichlorobenzene-d4,I
2-Methylphenol,P
N-Nitroso-di-n-propylamine,P
Nitrobenzene-d5,S
2,4-Dimethylphenol,P
1,2,4-Trichlorobenzene,M
Naphthalene-d8,I
4-Chloro-3-methylphenol,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
4-Nitrophenol,P
2,4-Dinitrotoluene,P
Time-->


Abundance
TIC: 9M57041.D\data.ms
Acenaphthene-d10,I
2,4-Dinitrotoluene,P
Fluorene,P
2,4,6-Tribromophenol,S
Pentachlorophenol,P
Phenanthrene-d10,I
Carbazole,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Chrysene-d12,I
Perylene-d12,I
Time-->

Form3
Recovery Data
QC Batch: SMB33927

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57054.D	AC78871-001(MS)	5/28/2014 6:13:00 PM
Non Spike(If applicable):	9M57053.D	AC78871-001	5/28/2014 5:50:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	85.8322	0	100	86	20	130
2-Chlorophenol	1	97.6296	0	100	98	50	130
1,4-Dichlorobenzene	1	46.6916	0	50	93	50	130
2-Methylphenol	1	105.5759	0	100	106	50	130
N-Nitroso-di-n-propylamine	1	48.156	0	50	96	20	130
2,4-Dimethylphenol	1	107.3022	0	100	107	50	130
1,2,4-Trichlorobenzene	1	48.1273	0	50	96	50	130
Naphthalene	1	46.7095	0	50	93	50	130
4-Chloro-3-methylphenol	1	95.2548	0	100	95	50	130
Acenaphthene	1	47.4555	0	50	95	50	130
2,4-Dinitrotoluene	1	41.7988	0	50	84	50	130
4-Nitrophenol	1	81.7998	0	100	82	20	130
Fluorene	1	45.8526	0	50	92	50	130
Pentachlorophenol	1	92.4522	0	100	92	40	130
Pyrene	1	57.9557	0	50	116	50	130
Butylbenzylphthalate	1	56.171	0	50	112	50	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57055.D	AC78871-001(MSD)	5/28/2014 6:36:00 PM
Non Spike(If applicable):	9M57053.D	AC78871-001	5/28/2014 5:50:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	96.3145	0	100	96	20	130
2-Chlorophenol	1	106.4026	0	100	106	50	130
1,4-Dichlorobenzene	1	50.3854	0	50	101	50	130
2-Methylphenol	1	118.1137	0	100	118	50	130
N-Nitroso-di-n-propylamine	1	52.6512	0	50	105	20	130
2,4-Dimethylphenol	1	119.3419	0	100	119	50	130
1,2,4-Trichlorobenzene	1	52.6044	0	50	105	50	130
Naphthalene	1	51.976	0	50	104	50	130
4-Chloro-3-methylphenol	1	109.0351	0	100	109	50	130
Acenaphthene	1	52.7804	0	50	106	50	130
2,4-Dinitrotoluene	1	47.795	0	50	96	50	130
4-Nitrophenol	1	94.8198	0	100	95	20	130
Fluorene	1	51.2465	0	50	102	50	130
Pentachlorophenol	1	107.2058	0	100	107	40	130
Pyrene	1	63.0943	0	50	126	50	130
Butylbenzylphthalate	1	62.7002	0	50	125	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: SMB33927

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M57055.D	AC78871-001(MSD)	5/28/2014 6:36:00 PM
Duplicate(If applicable):	9M57054.D	AC78871-001(MS)	5/28/2014 6:13:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Phenol	1	96.3145	85.8322	12	40
2-Chlorophenol	1	106.4026	97.6296	8.6	40
1,4-Dichlorobenzene	1	50.3854	46.6916	7.6	40
2-Methylphenol	1	118.1137	105.5759	11	40
N-Nitroso-di-n-propylamine	1	52.6512	48.156	8.9	40
2,4-Dimethylphenol	1	119.3419	107.3022	11	40
1,2,4-Trichlorobenzene	1	52.6044	48.1273	8.9	40
Naphthalene	1	51.976	46.7095	11	40
4-Chloro-3-methylphenol	1	109.0351	95.2548	13	40
Acenaphthene	1	52.7804	47.4555	11	40
2,4-Dinitrotoluene	1	47.795	41.7988	13	40
4-Nitrophenol	1	94.8198	81.7998	15	40
Fluorene	1	51.2465	45.8526	11	40
Pentachlorophenol	1	107.2058	92.4522	15	40
Pyrene	1	63.0943	57.9557	8.5	40
Butylbenzylphthalate	1	62.7002	56.171	11	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Quantitation Report (QT/LSC Reviewed)

4052101 0884

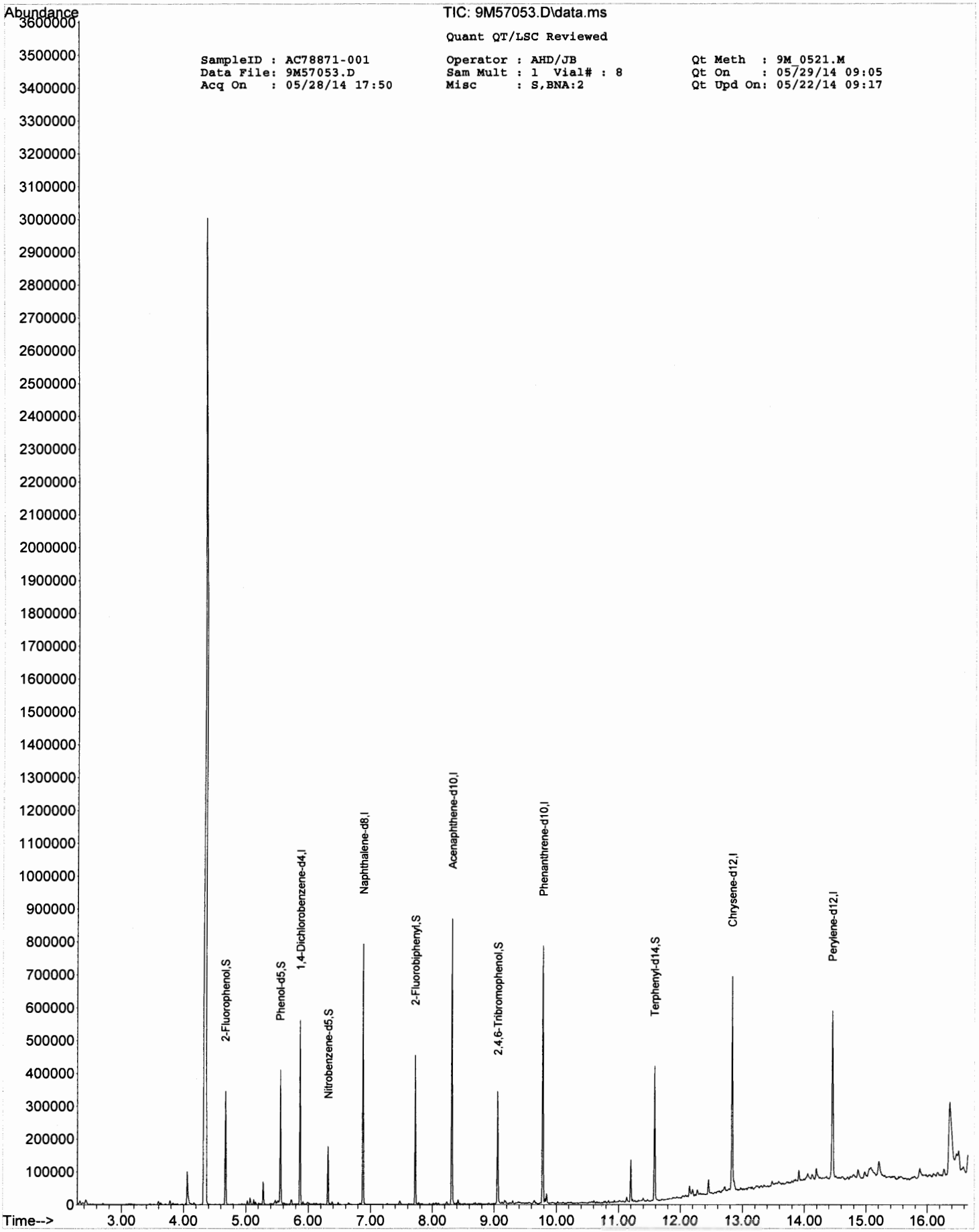
SampleID : AC78871-001 Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57053.D Sam Mult : 1 Vial# : 8 Qt On : 05/29/14 09:05
Acq On : 05/28/14 17:50 Misc : S,BNA:2 Qt Upd On: 05/22/14 09:17

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-28-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.870	152	75957	40.00	ng	-0.01
29) Naphthalene-d8	6.881	136	299337	40.00	ng	-0.01
47) Acenaphthene-d10	8.315	164	173120	40.00	ng	-0.02
74) Phenanthrene-d10	9.780	188	298462	40.00	ng	-0.02
88) Chrysene-d12	12.829	240	253671	40.00	ng	-0.02
100) Perylene-d12	14.455	264	232830	40.00	ng	-0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.672	112	87683	32.56	ng	-0.01
Spiked Amount 100.000			Recovery = 32.56%			
15) Phenol-d5	5.555	99	118642	33.91	ng	-0.01
Spiked Amount 100.000			Recovery = 33.91%			
30) Nitrobenzene-d5	6.320	128	25382	17.86	ng	-0.01
Spiked Amount 50.000			Recovery = 35.72%			
52) 2-Fluorobiphenyl	7.721	172	124130	19.21	ng	-0.02
Spiked Amount 50.000			Recovery = 38.42%			
77) 2,4,6-Tribromophenol	9.058	330	40466	38.14	ng	-0.02
Spiked Amount 100.000			Recovery = 38.14%			
91) Terphenyl-d14	11.583	244	127477	22.50	ng	-0.02
Spiked Amount 50.000			Recovery = 45.00%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT/LSC Reviewed
SampleID : AC78871-001
Data File: 9M57053.D
Acq On : 05/28/14 17:50
Operator : AHD/JB
Sam Mult : 1 Vial# : 8
Misc : S,BNA:2
Qt Meth : 9M_0521.M
Qt On : 05/29/14 09:05
Qt Upd On: 05/22/14 09:17
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Quantitation Report (QT Reviewed)

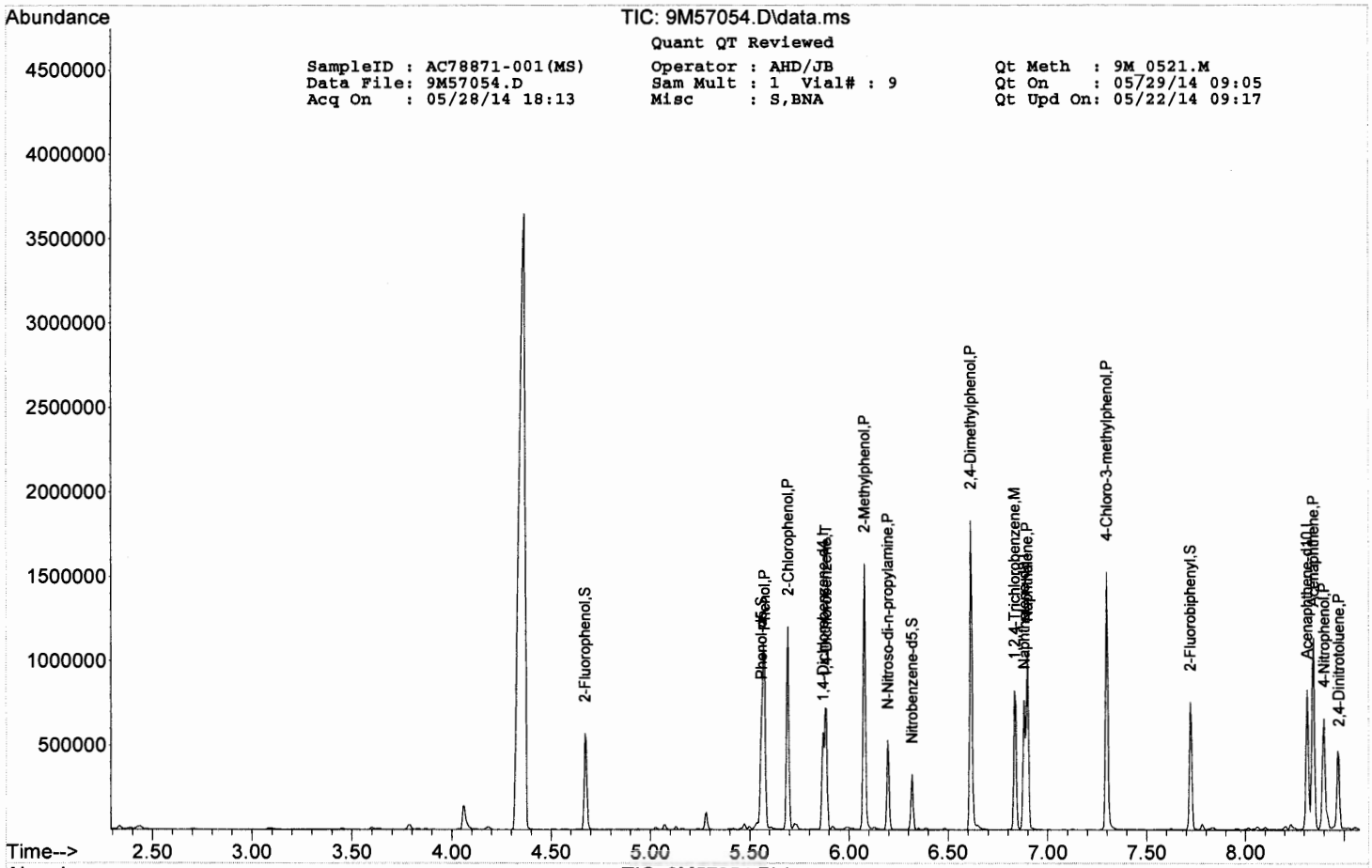
4052101 0886

SampleID : AC78871-001(MS) Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57054.D Sam Mult : 1 Vial# : 9 Qt On : 05/29/14 09:05
Acq On : 05/28/14 18:13 Misc : S,BNA Qt Upd On: 05/22/14 09:17

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-28-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.870	152	73370	40.00	ng	-0.01
29) Naphthalene-d8	6.881	136	281310	40.00	ng	-0.01
47) Acenaphthene-d10	8.315	164	162852	40.00	ng	-0.02
74) Phenanthrene-d10	9.780	188	265902	40.00	ng	-0.02
88) Chrysene-d12	12.834	240	231797	40.00	ng	-0.02
100) Perylene-d12	14.460	264	229147	40.00	ng	-0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.672	112	155683	59.84	ng	-0.01
Spiked Amount 100.000			Recovery = 59.84%			
15) Phenol-d5	5.560	99	209050	61.86	ng	0.00
Spiked Amount 100.000			Recovery = 61.86%			
30) Nitrobenzene-d5	6.320	128	41248	30.88	ng	-0.01
Spiked Amount 50.000			Recovery = 61.76%			
52) 2-Fluorobiphenyl	7.721	172	207477	34.13	ng	-0.02
Spiked Amount 50.000			Recovery = 68.26%			
77) 2,4,6-Tribromophenol	9.058	330	66860	70.73	ng	-0.02
Spiked Amount 100.000			Recovery = 70.73%			
91) Terphenyl-d14	11.583	244	196441	37.95	ng	-0.02
Spiked Amount 50.000			Recovery = 75.90%			
Target Compounds						Qvalue
16) Phenol	5.576	94	309845	85.8322	ng	91
17) 2-Chlorophenol	5.694	128	289481	97.6296	ng	72
20) 1,4-Dichlorobenzene	5.886	146	150867	46.6916	ng	99
24) 2-Methylphenol	6.079	108	265966	105.5759	ng	99
27) N-Nitroso-di-n-propyla...	6.197	70	90855	48.1560	ng	80
34) 2,4-Dimethylphenol	6.614	107	309496	107.3022	ng	93
38) 1,2,4-Trichlorobenzene	6.833	180	130174	48.1273	ng	99
39) Naphthalene	6.897	128	389097	46.7095	ng	98
43) 4-Chloro-3-methylphenol	7.298	107	244330	95.2548	ng	75
62) Acenaphthene	8.347	153	264066	47.4555	ng	95
66) 2,4-Dinitrotoluene	8.475	165	80678	41.7988	ng	61
67) 4-Nitrophenol	8.400	65	97670	81.7998	ng	60
69) Fluorene	8.823	166	299273	45.8526	ng	99
82) Pentachlorophenol	9.572	266	107786	92.4522	ng	95
85) Carbazole	10.026	167	360183	46.5740	ng	97
89) Pyrene	11.401	202	418875	57.9557	ng	80
94) Butylbenzylphthalate	12.171	149	188627	56.1710	ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed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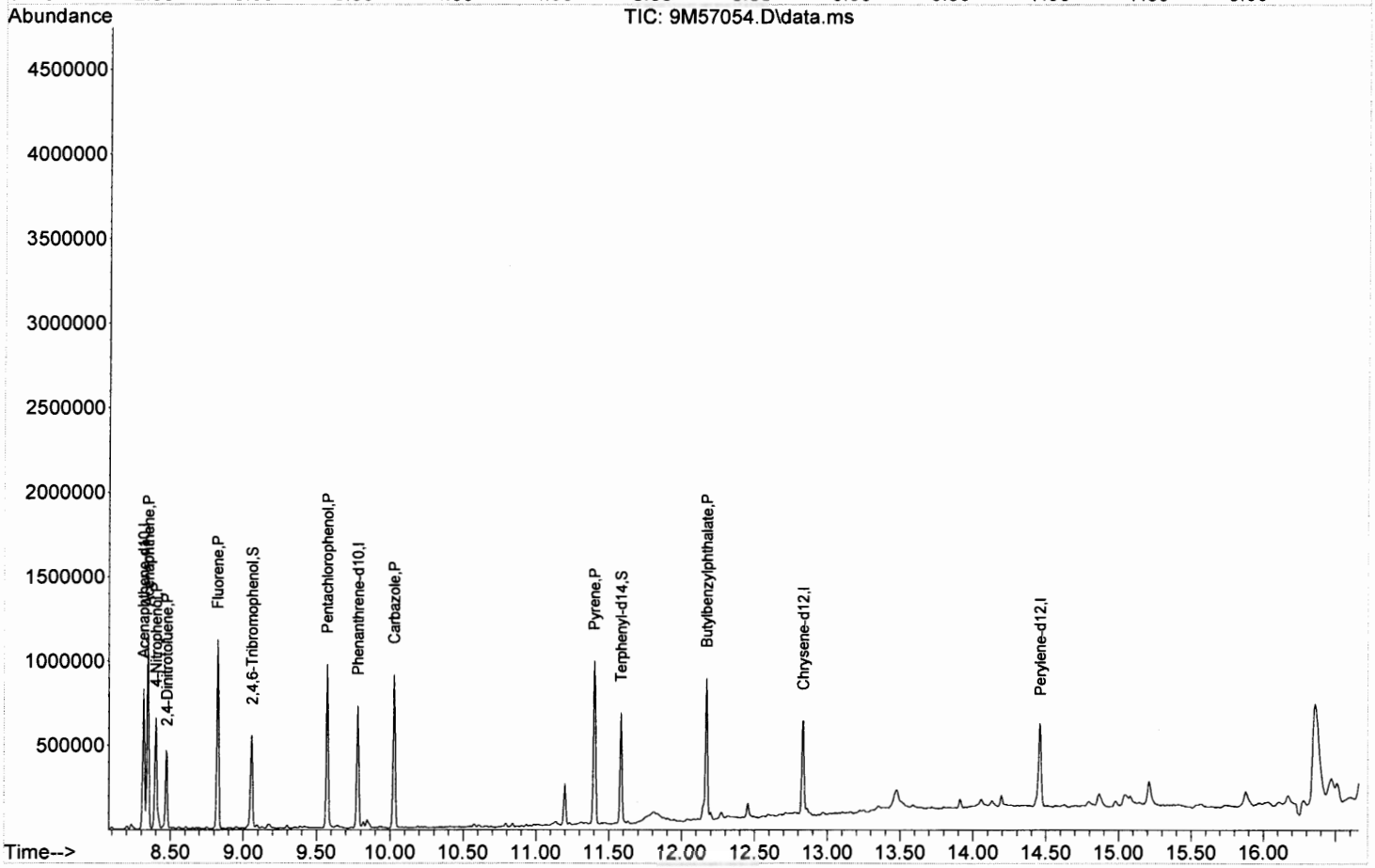
Quant QT Reviewed
SampleID : AC78871-001(MS)
Data File: 9M57054.D
Acq On : 05/28/14 18:13
Operator : AHD/JB
Sam Mult : 1 Vial# : 9
Misc : S,BNA
Qt Meth : 9M_0521.M
Qt On : 05/29/14 09:05
Qt Upd On: 05/22/14 09:17
2-Fluorophenol,S
2-Chlorophenol,P
2-Methylphenol,P
N-Nitroso-di-n-propylamine,P
Nitrobenzene-d5,S
2,4-Dimethylphenol,P
4-Chloro-3-methylphenol,P
2-Fluorobiphenyl,S
4-Nitrophenol,P
2,4-Dinitrotoluene,P
Time-->


Abundance
TIC: 9M57054.D\data.ms
4-Nitrophenol,P
2,4-Dinitrotoluene,P
Fluorene,P
2,4,6-Tribromophenol,S
Pentachlorophenol,P
Phenanthrene-d10,I
Carbazole,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Chrysene-d12,I
Perylene-d12,I
Time-->

Quantitation Report (QT Reviewed)

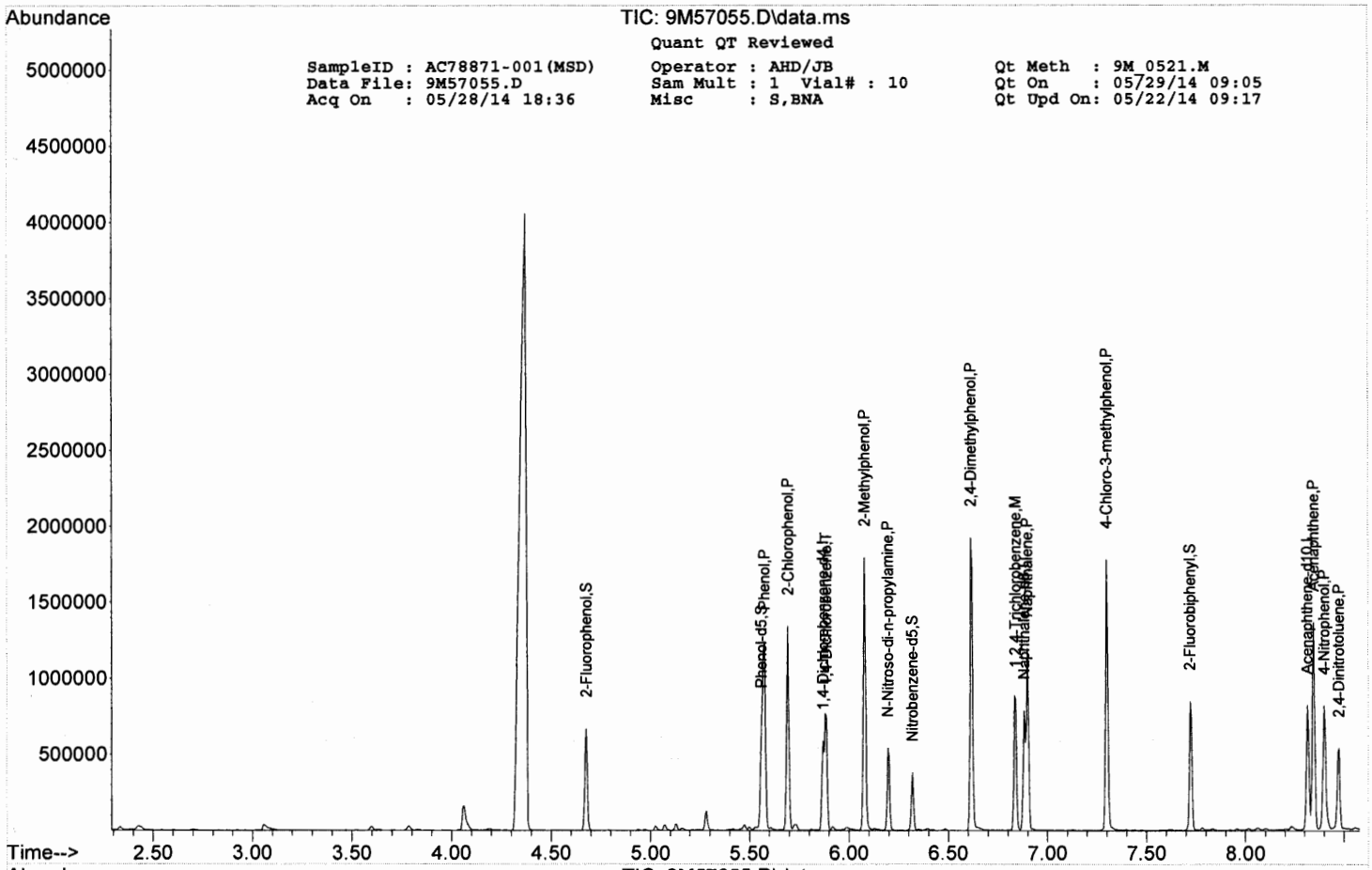
4052101 0888

SampleID : AC78871-001(MSD) Operator : AHD/JB Qt Meth : 9M_0521.M
Data File: 9M57055.D Sam Mult : 1 Vial# : 10 Qt On : 05/29/14 09:05
Acq On : 05/28/14 18:36 Misc : S,BNA Qt Upd On: 05/22/14 09:17

Data Path : G:\GcMsData\2014\GCMS_9\Data\05-28-14\
Qt Path : G:\GCMSDATA\2014\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.870	152	73890	40.00	ng	-0.01
29) Naphthalene-d8	6.881	136	283986	40.00	ng	-0.01
47) Acenaphthene-d10	8.315	164	168207	40.00	ng	-0.02
74) Phenanthrene-d10	9.780	188	282958	40.00	ng	-0.02
88) Chrysene-d12	12.834	240	261537	40.00	ng	-0.02
100) Perylene-d12	14.460	264	257244	40.00	ng	-0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.678	112	175061	66.82	ng	0.00
Spiked Amount 100.000			Recovery = 66.82%			
15) Phenol-d5	5.560	99	239656	70.42	ng	0.00
Spiked Amount 100.000			Recovery = 70.42%			
30) Nitrobenzene-d5	6.320	128	47902	35.52	ng	-0.01
Spiked Amount 50.000			Recovery = 71.04%			
52) 2-Fluorobiphenyl	7.721	172	237265	37.78	ng	-0.02
Spiked Amount 50.000			Recovery = 75.56%			
77) 2,4,6-Tribromophenol	9.058	330	80714	80.23	ng	-0.02
Spiked Amount 100.000			Recovery = 80.23%			
91) Terphenyl-d14	11.583	244	246733	42.24	ng	-0.02
Spiked Amount 50.000			Recovery = 84.48%			
Target Compounds						Qvalue
16) Phenol	5.576	94	350149	96.3145	ng	92
17) 2-Chlorophenol	5.694	128	317730	106.4026	ng	73
20) 1,4-Dichlorobenzene	5.886	146	163956	50.3854	ng	99
24) 2-Methylphenol	6.079	108	299660	118.1137	ng	99
27) N-Nitroso-di-n-propyla...	6.197	70	100040	52.6512	ng	80
34) 2,4-Dimethylphenol	6.614	107	347497	119.3419	ng	94
38) 1,2,4-Trichlorobenzene	6.838	180	143637	52.6044	ng	97
39) Naphthalene	6.897	128	437086	51.9760	ng	98
43) 4-Chloro-3-methylphenol	7.298	107	282337	109.0351	ng	75
62) Acenaphthene	8.347	153	303354	52.7804	ng	94
66) 2,4-Dinitrotoluene	8.475	165	95285	47.7950	ng	63
67) 4-Nitrophenol	8.400	65	116939	94.8198	ng	65
69) Fluorene	8.828	166	345477	51.2465	ng	99
82) Pentachlorophenol	9.572	266	138069	107.2058	ng	94
85) Carbazole	10.026	167	435921	52.9697	ng	97
89) Pyrene	11.401	202	514522	63.0943	ng	82
94) Butylbenzylphthalate	12.171	149	237567	62.7002	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed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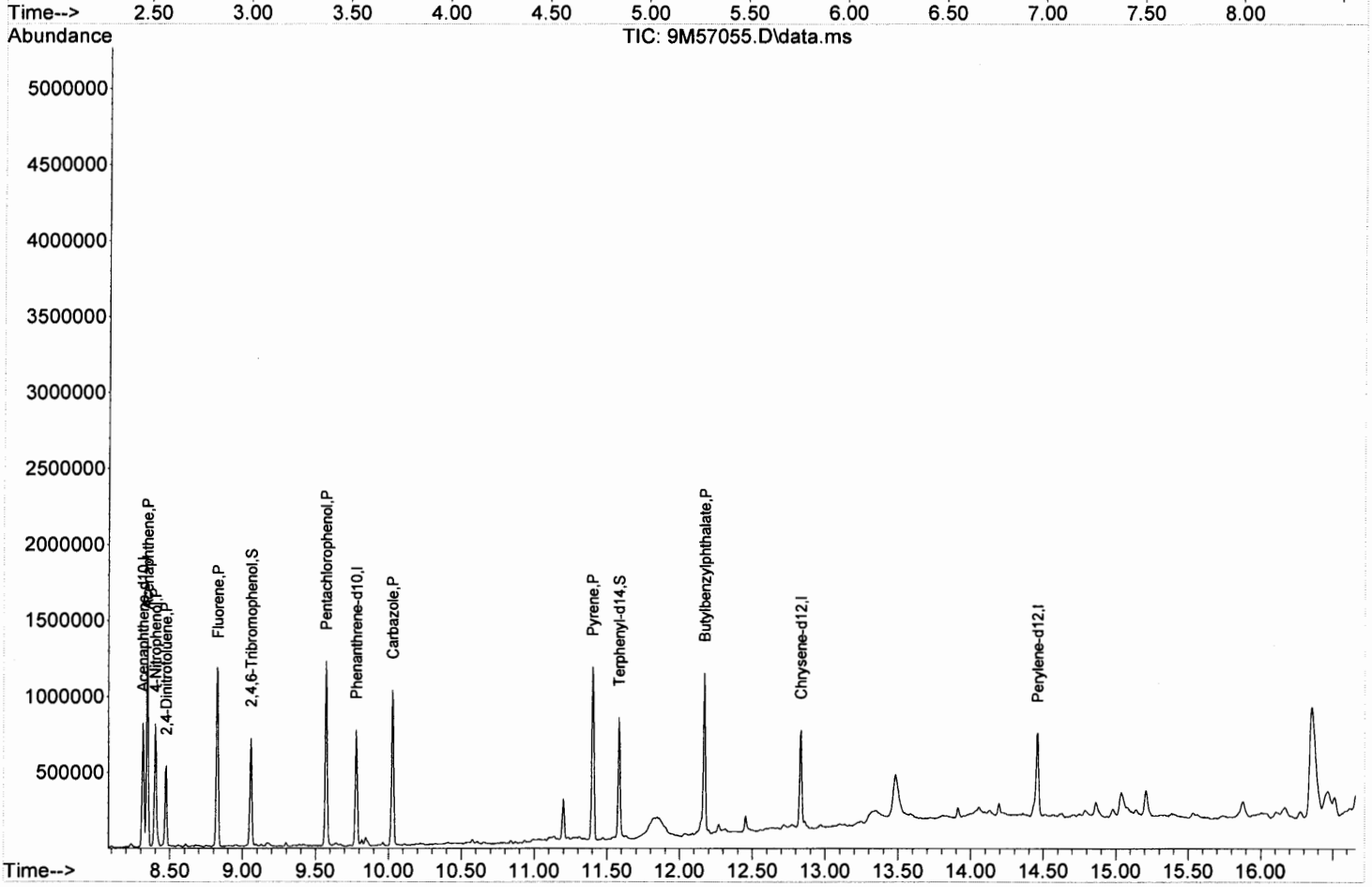
Quant QT Reviewed
SampleID : AC78871-001(MSD)
Data File: 9M57055.D
Acq On : 05/28/14 18:36
Operator : AHD/JB
Sam Mult : 1 Vial# : 10
Misc : S,BNA
Qt Meth : 9M_0521.M
Qt On : 05/29/14 09:05
Qt Upd On: 05/22/14 09:17
2-Fluorophenol,S
Phenol-d5,S
Phenol,P
2-Chlorophenol,P
2-Methylphenol,P
N-Nitroso-di-n-propylamine,P
Nitrobenzene-d5,S
2,4-Dimethylphenol,P
4-Chloro-3-methylphenol,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Acenaphthene,P
4-Nitrophenol,P
2,4-Dinitrotoluene,P
Time-->


Abundance
TIC: 9M57055.D\data.ms
Acenaphthene-d10,I
Acenaphthene,P
4-Nitrophenol,P
2,4-Dinitrotoluene,P
Fluorene,P
2,4,6-Tribromophenol,S
Pentachlorophenol,P
Phenanthrene-d10,I
Carbazole,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Chrysene-d12,I
Perylene-d12,I
Time-->

GC/MS Semi-Volatile Data
Logbook Data

QC33889

Hampton-Clarke/Veritech

Extraction of Semi-volatile - Aqueous
Method 3510 C

Method Blank No. WMB- _____ Date: 5-22-14
Blank Spike (MBS): _____ Matrix Spike: 33889

Sample Number	Number in Batch	Initial Volume	Final Volume	Fraction BN	Fraction BNA	Fraction AE	Extracted By/ Comments Extract	Ext. by	TCLP QC	Fluid
MB 33889	X	1000ml	1ml		X			LV		
MBS 33889	X	↓	↓		↓			↓		
MS 78787-003	X	500ml	↓		↓			↓		
MSD 78787-003	X	↓	↓		↓			↓		
AC78787-003	1	↓	0.5ml		↓		Full surr	↓		
AC78787-005	2	1000ml	1ml		↓			↓		
AC78787-009	3	↓	↓		↓			↓		
AC78787-011	4	↓	↓		↓			↓		
AC78787-016	5	810ml	0.5ml		↓		1/2 surr	↓		
AC78788-003	6	1000ml	1ml		↓			↓		
AC78788-004	7	↓	↓		↓			↓		
AC78788-005	8	950ml	↓		↓			↓		
AC78788-007	9	850ml	0.5ml		↓		1/2 surr	↓		
AC78785-002	10	500ml	↓	X	↓		↓	↓		
AC78785-004	11	↓	↓	↓	↓		↓	↓		
AC78785-005	12	↓	↓	↓	↓		↓	↓		
AC78785-006	13	↓	↓	↓	↓		↓	↓		
AC78785-007	14	↓	↓	↓	↓		↓	↓		
AC78785-008	15	↓	↓	↓	↓		↓	↓		
AC78773-002	16	1000ml	1.0ml	X	↓		↓	SIM		

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	2000	8660	BN, SPK
↓	↓	8659	Acid. comp
		182840	Pyridine

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	1000/2000	177793	BN, Surr

Reagent Lots: MeCl2 8662 Acetone _____ Hexane _____ Na2SO4 8665

Other _____

Relinquished By: LV / SIM Date: 5-22-14
Received By: _____ Date: 05/23/14

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Hampton-Clarke/Veritech

QC33917

Analysis: BN/ BNA /AE

Method Blank No. SMB- _____ Date: 5-27-14
Blank Spike (SMBS): _____ Matrix Spike: 33917
Blank Spike (SMBS): _____ Matrix Spike: _____

SONICATION EXTRACTION (3550B) UNLESS CHECKED HERE: ASE (3545)_____

Sample Number	# in Batch	Initial Weight (g)	Final Volume (ml)	Fraction			Extracted By	Extract Appearance			Comments
				BN	BNA	AE		Color	Clarity	Sediment	
MB 33917	X	30.0	0.5ml		X		LV				
MBS 33917	X			MB							
MS 78692-028	X			5/28							
MSD 78692-028	X		1.0ml								
AC 78692-028	1		0.5ml								
AC 78692-032	2										
AC 78692-034	3										
AC 78692-038	4										
AC 78692-039	5										
AC 78692-043	6										
AC 78787-001	7										
AC 78787-002	8										
AC 78787-007	9										
AC 78787-008	10										
AC 78787-014	11										
AC 78787-015	12										
AC 78787-019	13										
AC 78787-020	14										
AC 78787-021	15										
AC 78787-022	16										
AC 78787-023	17										
AC 78787-024	18										
AC 78787-025	19										
AC 78787-026	20										

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
25	Various	176649	BN,SPK

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
25	1000/2000	173793	BN,SUR

Reagent Lots: $MeCl_2$ 8662 Acetone 8696 Hexane _____ Na_2SO_4 8665 Ether _____

MTBE _____ $MeCl_2$:Acetone _____ Other _____

Relinquished By: LV Date: 5-27-14
Received By: [illegible] Date: 05/28/14

0026

Hampton-Clarke/Veritech

QC33927

Analysis: BN/ BNA /AE

Method Blank No. SMB- _____ Date: 5-28-14
Blank Spike (SMBS): _____ Matrix Spike: 33927
Blank Spike (SMBS): _____ Matrix Spike: _____

SONICATION EXTRACTION (3550B) UNLESS CHECKED HERE: ASE (3545)_____

Sample Number	# in Batch	Initial Weight (g)	Final Volume (ml)	Fraction			Extracted By	Extract Appearance			Comments
				BN	BNA	AE		Color	Clarity	Sediment	
MB 33927	X	30g	0.5ml		X		LV				
MBS 33927	X										
MS 78871-001	X										
MSD 78871-001	X										
AC28871-001	1		1ml								
AC28871-002	2		0.5ml								
AC78825-001	3			X							
AC78825-002	4										
AC78777-005	5										
AC78780-001	6				X						
AC78780-003	7										
AC78787-018	8										
AC78789-003	9										
AC78789-009	10		1ml								
AC78790-001	11		0.5ml								
AC78790-002	12										
AC78801-019	R		1ml	X							
AC78801-020	R		0.5ml								
AC78801-024	R										
AC78801-026	R										
AC78801-028	R										
AC28774-001	R		0.5ml								

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
25	Various	V176649	BN,SPK

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
25	1000/2000	177793	BN,surr

Reagent Lots: $MeCl_2$ V-8662 Acetone V-8696 Hexane _____ Na_2SO_4 8665 Ether _____

MTBE _____ $MeCl_2$:Acetone _____ Other _____

Relinquished By: LV. Date: 5-28-14
Received By: CM Date: 05/28/14

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Veritech Internally Prepared Standard Log

Veritech Lot Number: V-176649

Prepared By:	Hamid, Akmal	Department:	Organics	ApprovedBy:	akmal
Description:	BNA SOIL SPIKE MIX	BatchNumber:		ApproveDate:	11/13/13
Prep Date:	11/13/2013	Concentration:	Various	Checked:	Yes
Expiration Date:	11/13/2014	Final Volume:	200 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8254	Acetone	200 ml	neat neat	
7458	Pentachlorophenol	.4 g	Neat neat	2000 ppm
7455	4-Nitrophenol	.4 g	Neat neat	2000 ppm
8261	Phenol	.4 g	Neat neat	2000 ppm
7456	4-Chloro-3-methylphenol	.4 g	Neat neat	2000 ppm
7459	2-Chlorophenol	.4 g	Neat neat	2000 ppm
7457	2-Methylphenol	.4 g	Neat neat	2000 ppm
7463	2,4-Dimethylphenol	.4 g	Neat neat	2000 ppm
7450	1,2,4-Trichlorobenzene	.2 g	Neat neat	1000 ppm
7449	1,4- Dichlorobenzene	.2 g	Neat neat	1000 ppm
7464	Carbazole	.2 g	Neat neat	1000 ppm
7465	Butyl benzyl phthalate	.2 g	Neat neat	1000 ppm
5376	Fluorene	.2 g	neat neat	1000 ppm
6409	NAPHTHALENE	.2 g	NEAT neat	1000 ppm
7451	N-Nitrosodi-n-propylamine	.2 g	Neat neat	1000 ppm
5377	2,4-Dinitrotoluene	.2 g	Neat neat	1000 ppm
6410	PYRENE	.2 g	NEAT neat	1000 ppm
7452	Acenaphthene	.2 g	Neat neat	1000 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-166277

Prepared By: Bis, Yolanta
Description: Pyridine Stock Std.
Prep Date: 5/31/2013
Expiration Date: 5/31/2014
Department: Organics
BatchNumber:
Concentration: 10,000 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/31/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7488	PYRIDINE	10 ul	NEAT neat	10000 ppm
7898	Dichloromethane	990 ul	neat neat	

Veritech Lot Number: V-171229

Prepared By: Hamid, Akmal
Description: DFTPP STOCK STD.
Prep Date: 8/20/2013
Expiration Date: 8/20/2014
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 08/20/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7314	DFTPP	.01 g	Neat neat	2000 ppm
7926	Dichloromethane	5 ml	neat neat	

Veritech Lot Number: V-173793

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.
Prep Date: 9/29/2013
Expiration Date: 9/29/2014
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 10/02/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5304	2-Fluorobiphenyl	1 g	neat neat	1000 ppm
5306	p-Terphenyl-d14	1 g	neat neat	1000 ppm
7905	Phenol-2,3,4,5,6-d5	2 g	Neat neat	2000 ppm
5302	2-Fluorophenol	1.6 ml	neat neat	2000 ppm
5305	Nitrobenzene-d5	800 ul	neat neat	1000 ppm
6491	2,4,6-Tribromophenol	2 g	neat neat	2000 ppm
8148	Acetone	1000 ml	neat neat	

Veritech Lot Number: V-177829

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1
Prep Date: 12/4/2013
Expiration Date: 12/4/2014
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/04/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7453	Atrazine	.1 g	Neat neat	10000 ppm
5557	Acetophenone	.1 g	NEAT	10000 ppm
1810	1,2,4,5-TETRACHLOROBENZENE	.1 g	NEAT	10000 ppm
4629	Diphenyl ether	.1 g	neat neat	10000 ppm
5558	Caprolactam	.1 g	NEAT	10000 ppm
4619	Benzaldehyde	.1 g	NEAT neat	10000 ppm
8277	Acetone	10 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-177830

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)
Prep Date: 12/4/2013
Expiration Date: 12/4/2014
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/04/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7453	Atrazine	.1 g	Neat neat	10000 ppm
5557	Acetophenone	.1 g	NEAT	10000 ppm
1810	1,2,4,5-TETRACHLOROBENZENE	.1 g	NEAT	10000 ppm
4629	Diphenyl ether	.1 g	neat neat	10000 ppm
5558	Caprolactam	.1 g	NEAT	10000 ppm
4619	Benzaldehyde	.1 g	NEAT neat	10000 ppm
8277	Acetone	10 ml	neat neat	

Veritech Lot Number: V-177835

Prepared By: Hamid, Akmal
Description: BNA-8 MIX
Prep Date: 12/4/2013
Expiration Date: 11/30/2014
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/04/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
6609	Pentachloroethane	.05 g	NEAT neat	5000 ppm
7454	n-Octadecane	.05 g	Neat neat	5000 ppm
7942	n-Decane	.05 g	neat	5000 ppm
5661	Biphenyl	.05 g	neat neat	5000 ppm
6610	1,4-Dimethylnaphthalene	.0518 g	NEAT neat	5000 ppm
4992	COUMARIN	.05 g	NEAT	5000 ppm
5648	3,4-Dichlorophenol	.05 g	NEAT	5000 ppm
7460	2,3,4,6,-Tetrachlorophenol	.05 g	Neat neat	5000 ppm
8277	Acetone	10 ml	neat neat	

Veritech Lot Number: V-177844

Prepared By: Hamid, Akmal
Description: BNA-7 MIX
Prep Date: 12/4/2013
Expiration Date: 11/30/2014
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/04/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
6609	Pentachloroethane	.05 g	NEAT neat	5000 ppm
7454	n-Octadecane	.05 g	Neat neat	5000 ppm
7942	n-Decane	.05 g	neat	5000 ppm
5661	Biphenyl	.05 g	neat neat	5000 ppm
6610	1,4-Dimethylnaphthalene	.0518 g	NEAT neat	5000 ppm
4992	COUMARIN	.05 g	NEAT	5000 ppm
5648	3,4-Dichlorophenol	.05 g	NEAT	5000 ppm
8277	Acetone	10 ml	neat neat	

Veritech Lot Number: V-182840

Prepared By: Bis, Yolanta
Description: Pyridine Spiking Std.
Prep Date: 3/11/2014
Expiration Date: 11/26/2014
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 03/24/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7488	PYRIDINE	200 ul	NEAT neat	2000 ppm
8512	Acetone	100 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-183918

Prepared By: Hamid, Akmal
Description: BNA Internal Std.
Prep Date: 3/26/2014
Expiration Date: 2/20/2015
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 03/26/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8601	Naphthalene (D8, 99%)	1 g	NEAT neat	2000 ppm
8604	Phenanthrene (D10, 98%)	1 g	NEAT neat	2000 ppm
8599	Chrysene(D12, 98%)	1 g	NEAT neat	2000 ppm
8603	Perylene (D12, 98%)	1 g	NEAT neat	2000 ppm
6948	1,4-Dichlorobenzene(D4)	1 g	neat neat	2000 ppm
6949	Acenaphthene(D10)	1 g	neat neat	2000 ppm
8590	Methylene Chloride	500 ml	neat neat	

Veritech Lot Number: V-184503

Prepared By: Bis, Yolanta
Description: DFTPP Mix
Prep Date: 4/3/2014
Expiration Date: 8/20/2014
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 3 ml
ApprovedBy: akmal
ApproveDate: 04/09/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-171229	DFTPP STOCK STD.	75 ul	2000 ppm	50 ppm
7676	DDT/Endrin Mix	600 ul	500 ppm	100 ppm
7726	TCL Phenols/Benzidines	150 ul	2000 ppm	100 ppm
8540	Methylene Chloride	2175 ul	neat neat	

Veritech Lot Number: V-184785

Prepared By: Hamid, Akmal
Description: BNA-Pest Mix
Prep Date: 4/9/2014
Expiration Date: 4/9/2015
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/09/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7907	4,4'-DDD	.05 g	neat neat	5000 ppm
7908	4,4'-DDE	.05 g	neat neat	5000 ppm
7909	4,4'-DDT	.05 g	neat neat	5000 ppm
8620	Methylene Chloride	10 ml	neat neat	

Veritech Lot Number: V-185712

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.A
Prep Date: 4/23/2014
Expiration Date: 7/31/2014
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 1.2 ml
ApprovedBy: akmal
ApproveDate: 04/29/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7895	8270MegaMix	300 ul	1000 ppm	250 ppm
6834	Benzoic Acid Mix	150 ul	2000 ppm	250 ppm
8190	TCL Benzidines Mix	150 ul	2000 ppm	250 ppm
v-173793	BNA Surrog.Std.	150 ul	1000-2000 pp	125-250 pp
V-184785	BNA-Pest Mix	60 ul	5000 ppm	250 ppm
V-177844	BNA-7 MIX	60 ul	5000 ppm	250 ppm
8620	Methylene Chloride	330 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-185724

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.B
Prep Date: 4/23/2014
Expiration Date: 5/31/2014
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 1.2 ml
ApprovedBy: akmal
ApproveDate: 04/29/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7896	TCL PAH Mix	150 ul	2000 ppm	250 ppm
7726	TCL Phenols/Benzidines	150 ul	2000 ppm	250 ppm
7725	TCL Hazardous Substances Mix	150 ul	2000 ppm	250 ppm
7090	TCL Base-Neutral Mix	150 ul	2000 ppm	250 ppm
V-173793	BNA Surrog.Std.	150 ul	1000-2000 pp	125-250 pp
v-166277	Pyridine Stock Std.	30 ul	10,000 ppm	250 ppm
V-177835	BNA-8 MIX	60 ul	5000 ppm	250 ppm
8620	Methylene Chloride	360 ul	neat neat	

Veritech Lot Number: V-187022

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.
Prep Date: 5/19/2014
Expiration Date: 7/31/2014
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 500 ul
ApprovedBy: akmal
ApproveDate: 05/20/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-177829	8270 EXTRA MIX#1	10 ul	10000 ppm	200 ppm
V-185712	BNA STOCK Std.A	400 ul	250 ppm	200 ppm
8662	Methylene Chloride	90 ul	neat neat	

Veritech Lot Number: V-187023

Prepared By: Bis, Yolanta
Description: BNA 10 ppm curve
Prep Date: 5/19/2014
Expiration Date: 7/31/2014
Department: Organics
BatchNumber: B-17389
Concentration: 10 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 05/20/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187022	BNA STOCK Std.	5 ul	200 ppm	10 ppm
V-183918	BNA Internal Std.	2 ul	2000 ppm	40 ppm
8662	Methylene Chloride	93 ul	neat neat	

Veritech Lot Number: V-187024

Prepared By: Bis, Yolanta
Description: BNA 20 ppm curve
Prep Date: 5/19/2014
Expiration Date: 7/31/2014
Department: Organics
BatchNumber: B-17389
Concentration: 20 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 05/20/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187022	BNA STOCK Std.	10 ul	200 ppm	20 ppm
V-183918	BNA Internal Std.	2 ul	2000 ppm	40 ppm
8662	Methylene Chloride	88 ul	neat neat	

Veritech Lot Number: V-187025

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve
Prep Date: 5/19/2014
Expiration Date: 7/31/2014
Department: Organics
BatchNumber: B-17389
Concentration: 50 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 05/20/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187022	BNA STOCK Std.	150 ul	200 ppm	50 ppm
V-183918	BNA Internal Std.	12 ul	2000 ppm	40 ppm
8662	Methylene Chloride	438 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187026

Prepared By: Bis, Yolanta
Description: BNA 80 ppm curve
Prep Date: 5/19/2014
Expiration Date: 7/31/2014
Department: Organics
BatchNumber: B-17389
Concentration: 80 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 05/20/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187022	BNA STOCK Std.	40 ul	200 ppm	80 ppm
V-183918	BNA Internal Std.	2 ul	2000 ppm	40 ppm
8662	Methylene Chloride	58 ul	neat neat	

Veritech Lot Number: V-187027

Prepared By: Bis, Yolanta
Description: BNA 120 ppm curve
Prep Date: 5/19/2014
Expiration Date: 7/31/2014
Department: Organics
BatchNumber: B-17389
Concentration: 120 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 05/20/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187022	BNA STOCK Std.	60 ul	200 ppm	120 ppm
V-183918	BNA Internal Std.	2 ul	2000 ppm	40 ppm
8662	Methylene Chloride	38 ul	neat neat	

Veritech Lot Number: V-187028

Prepared By: Bis, Yolanta
Description: BNA 160 ppm curve
Prep Date: 5/19/2014
Expiration Date: 7/31/2014
Department: Organics
BatchNumber: B-17389
Concentration: 160 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 05/20/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187022	BNA STOCK Std.	80 ul	200 ppm	160 ppm
V-183918	BNA Internal Std.	2 ul	2000 ppm	40 ppm
8662	Methylene Chloride	18 ul	neat neat	

Veritech Lot Number: V-187029

Prepared By: Bis, Yolanta
Description: BNA 196 ppm curve
Prep Date: 5/19/2014
Expiration Date: 7/31/2014
Department: Organics
BatchNumber: B-17389
Concentration: 196 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 05/20/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187022	BNA STOCK Std.	98 ul	200 ppm	196 ppm
V-183918	BNA Internal Std.	2 ul	2000 ppm	40 ppm
8662	Methylene Chloride	0	neat neat	

Veritech Lot Number: V-187030

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve
Prep Date: 5/19/2014
Expiration Date: 7/31/2014
Department: Organics
BatchNumber: B-17389
Concentration: 50 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 05/20/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187022	BNA STOCK Std.	25 ul	200 ppm	50 ppm
8662	Methylene Chloride	75 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187031

Prepared By: Bis, Yolanta
Description: BNA 2 ppm curve
Prep Date: 5/19/2014
Expiration Date: 7/31/2014
Department: Organics
BatchNumber: B-17389
Concentration: 2 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 05/20/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187030	BNA 50 ppm curve	4 ul	50 ppm	2 ppm
V-183918	BNA Internal Std.	2 ul	2000 ppm	40 ppm
8662	Methylene Chloride	94 ul	neat neat	

Veritech Lot Number: V-187032

Prepared By: Bis, Yolanta
Description: BNA 0.5 ppm curve
Prep Date: 5/19/2014
Expiration Date: 7/31/2014
Department: Organics
BatchNumber: B-17389
Concentration: 0.5 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 05/20/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187030	BNA 50 ppm curve	1 ul	50 ppm	2 ppm
V-183918	BNA Internal Std.	2 ul	2000 ppm	40 ppm
8662	Methylene Chloride	97 ul	neat neat	

Veritech Lot Number: V-187033

Prepared By: Bis, Yolanta
Description: BNA ICV CAL@50PPM
Prep Date: 5/19/2014
Expiration Date: 5/31/2014
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 0.2 ml
ApprovedBy: akmal
ApproveDate: 05/20/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-185724	BNA STOCK Std.B	40 ul	250 ppm	50 ppm
V-177830	8270 EXTRA MIX#1(2nd Source)	1 ul	10000 ppm	50 ppm
V-183918	BNA Internal Std.	4 ul	2000 ppm	40 ppm
8662	Methylene Chloride	155 ul	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 1810

Description
1,2,4,5-TETRACHLOROBENZENE

ApprovedBy: jean
ApproveDate: 07/30/09
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ALDRICH	131857-5G	06024AI	06/27/06	06/27/20	Revolus, Jean	1	5G	NEAT	

Veritech Control/Receipt Number: 4619

Description
Benzaldehyde

ApprovedBy: jean
ApproveDate: 01/15/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma Aldrich	B1334-5G	62097IJ	01/15/10	01/15/20	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 4629

Description
Diphenyl ether

ApprovedBy: jean
ApproveDate: 01/22/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	240834-5g	MKAA1526	01/19/10	10/26/20	Hamid, Akmal	1	5g	neat	neat

Veritech Control/Receipt Number: 4992

Description
COUMARIN

ApprovedBy: jean
ApproveDate: 06/10/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	O-829	410-72B	06/10/10	09/30/16	Revolus, Jean	1	2g	NEAT	

Veritech Control/Receipt Number: 5302

Description
2-Fluorophenol

ApprovedBy: jean
ApproveDate: 10/04/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	F1,280-4	S69178	09/29/10	09/29/20	Hamid, Akmal	1	10g	neat	neat

Veritech Control/Receipt Number: 5304

Description
2-Fluorobiphenyl

ApprovedBy: jean
ApproveDate: 10/04/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	102741-10G	MKBD5199V	09/29/10	09/29/20	Hamid, Akmal	1	10g	neat	neat

Veritech Control/Receipt Number: 5305

Description
Nitrobenzene-d5

ApprovedBy: jean
ApproveDate: 10/04/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	151955-5G	EW0529	09/29/10	09/29/20	Hamid, Akmal	1	5g	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 5306

Description
p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 03/22/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Isotec	364630-500MG	SZ0999	09/29/10	09/29/15	Hamid, Akmal	4	500m	neat	neat

Veritech Control/Receipt Number: 5557

Description
Acetophenone

ApprovedBy: jean
ApproveDate: 01/19/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	O-821	440-129B	01/18/11	04/30/15	Revolus, Jean	1	10g	NEAT	

Veritech Control/Receipt Number: 5558

Description
Caprolactam

ApprovedBy: jean
ApproveDate: 01/19/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	O-828	431-20B	01/18/11	09/30/15	Revolus, Jean	1	5g	NEAT	

Veritech Control/Receipt Number: 5648

Description
3,4-Dichlorophenol

ApprovedBy: jean
ApproveDate: 02/18/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	O-2310	452-36A	02/18/11	09/30/16	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 5661

Description
Biphenyl

ApprovedBy: jean
ApproveDate: 03/01/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	F1062	432-55B	02/23/11	11/30/15	Hamid, Akmal	1	5g	neat	neat

Veritech Control/Receipt Number: 6491

Description
2,4,6-Tribromophenol

ApprovedBy: akmal
ApproveDate: 11/28/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	137715-5g	1383140V	11/28/11	11/28/18	Hamid, Akmal	1	5g	neat	neat

Veritech Control/Receipt Number: 6609

Description
Pentachloroethane

ApprovedBy: jean
ApproveDate: 01/19/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	F937	451-75A	01/19/12	09/30/15	Revolus, Jean	1	5g	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 6610

Description
1,4-Dimethylnaphthalene

ApprovedBy: jean
ApproveDate: 01/19/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	F1020	451-146A	01/19/12	11/30/14	Revolus, Jean	5	100m	NEAT	NEAT

Veritech Control/Receipt Number: 6834

Description
Benzoic Acid Mix

ApprovedBy: jean
ApproveDate: 03/16/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	31879	A086070	03/08/12	01/31/16	Hamid, Akmal	2	1m	2000	PPM

Veritech Control/Receipt Number: 6948

Description
1,4-Dichlorobenzene(D4)

ApprovedBy: akmal
ApproveDate: 04/23/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM-268-0	PR-18488/07257CB2	04/19/12	04/19/20	Hamid, Akmal	1	5g	neat	neat

Veritech Control/Receipt Number: 6949

Description
Acenaphthene(D10)

ApprovedBy: akmal
ApproveDate: 04/23/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM-108-0	PR-19991	04/19/12	04/19/20	Hamid, Akmal	2	1g	neat	neat

Veritech Control/Receipt Number: 7090

Description
TCL Base-Neutral Mix

ApprovedBy: jean
ApproveDate: 06/22/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	47991-U	LB89136	06/14/12	12/31/14	Hamid, Akmal	1	1ml	2000	ppm

Veritech Control/Receipt Number: 7314

Description
DFTPP

ApprovedBy: akmal
ApproveDate: 09/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2543	LB94210V	09/11/12	07/31/15	Hamid, Akmal	2	100 m	Neat	Neat

Veritech Control/Receipt Number: 7453

Description
Atrazine

ApprovedBy: akmal
ApproveDate: 11/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-11106-250MG	904600	11/09/12	05/31/15	Hamid, Akmal	4	250m	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7454

Description
n-Octadecane

ApprovedBy: akmal
ApproveDate: 11/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-12582-2G	462100	11/09/12	05/31/18	Hamid, Akmal	1	2g	Neat	Neat

Veritech Control/Receipt Number: 7460

Description
2,3,4,6,-Tetrachlorophenol

ApprovedBy: akmal
ApproveDate: 11/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10599-50MG	973100	11/09/12	11/30/18	Hamid, Akmal	10	50mg	Neat	Neat

Veritech Control/Receipt Number: 7488

Description
PYRIDINE

ApprovedBy: aurora
ApproveDate: 05/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
FISHER	P368-1	123063	11/27/12	05/30/17	Trivedi, Beena	2	1L	NEAT	NEAT

Veritech Control/Receipt Number: 7676

Description
DDT/Endrin Mix

ApprovedBy: jean
ApproveDate: 02/19/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4-8282	LB86671	02/06/13	08/31/14	Hamid, Akmal	2	1ml	500	ppm

Veritech Control/Receipt Number: 7725

Description
TCL Hazardous Substances Mix

ApprovedBy: akmal
ApproveDate: 02/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	47990-U	LB85585	02/21/13	06/30/14	Hamid, Akmal	2	1ml	2000	ppm

Veritech Control/Receipt Number: 7726

Description
TCL Phenols/Benzidines

ApprovedBy: akmal
ApproveDate: 02/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	47992-U	LB47992-U	02/21/13	05/31/15	Hamid, Akmal	2	1ml	2000	ppm

Veritech Control/Receipt Number: 7895

Description
8270MegaMix

ApprovedBy: akmal
ApproveDate: 05/15/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	31850	A092773	05/15/13	07/31/14	Hamid, Akmal	1	1ml	1000	ppm

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7896

Description
TCL PAH Mix

ApprovedBy: akmal
ApproveDate: 05/15/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	48905-U	LB92157	05/15/13	04/30/15	Hamid, Akmal	2	1ml	2000	ppm

Veritech Control/Receipt Number: 7898

Description
Dichloromethane

ApprovedBy: jean
ApproveDate: 05/17/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Macron	H485-10	40911	05/17/13	03/26/18	Lopez, Jose	120	4L	neat	neat

Veritech Control/Receipt Number: 7905

Description
Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 05/21/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	425370-5G	CC0167V	05/21/13	02/25/22	Hamid, Akmal	1	5g	Neat	Neat

Veritech Control/Receipt Number: 7907

Description
4,4'-DDD

ApprovedBy: akmal
ApproveDate: 05/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-10874-250MG	1520000	05/22/13	08/30/18	Hamid, Akmal	4	250m	neat	neat

Veritech Control/Receipt Number: 7908

Description
4,4'-DDE

ApprovedBy: akmal
ApproveDate: 05/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-10875-100MG	1487800	05/22/13	11/30/18	Hamid, Akmal	5	100m	neat	neat

Veritech Control/Receipt Number: 7909

Description
4,4'-DDT

ApprovedBy: akmal
ApproveDate: 05/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-10876-100MG	1485400	05/22/13	01/31/16	Hamid, Akmal	5	100m	neat	neat

Veritech Control/Receipt Number: 7926

Description
Dichloromethane

ApprovedBy: jean
ApproveDate: 05/31/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Macron	H485-10	40911	05/31/13	03/26/18	Lopez, Jose	120	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7942

Description
n-Decane

ApprovedBy: akmal
ApproveDate: 06/05/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-12526-1G	1605900	06/05/13	06/30/17	Hamid, Akmal	1	1g	neat	

Veritech Control/Receipt Number: 8148

Description
Acetone

ApprovedBy: jean
ApproveDate: 09/29/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	51403	09/24/13	07/01/16	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 8190

Description
TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 10/10/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4-8906	LB95197	10/10/13	09/30/15	Hamid, Akmal	1	1ml	2000	ppm

Veritech Control/Receipt Number: 8277

Description
Acetone

ApprovedBy: jean
ApproveDate: 12/18/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T. Baker	9254-03	55353	11/19/13	08/01/16	Batts, Alvin	32	4L	neat	neat

Veritech Control/Receipt Number: 8512

Description
Acetone

ApprovedBy: jean
ApproveDate: 02/27/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	64130	02/25/14	11/07/16	Lopez, Jose	24	4L	neat	neat

Veritech Control/Receipt Number: 8540

Description
Methylene Chloride

ApprovedBy: jean
ApproveDate: 03/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T Baker	9264-03	65358	03/06/14	02/20/15	Batts, Alvin	100	1L	neat	neat

Veritech Control/Receipt Number: 8590

Description
Methylene Chloride

ApprovedBy: jean
ApproveDate: 04/20/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9264-03	65358	03/24/14	02/20/15	Lopez, Jose	120	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8599

Description
Chrysene(D12, 98%)

ApprovedBy: akmal
ApproveDate: 03/25/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM-261-0	PR-24875	03/25/14	05/09/23	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 8601

Description
Naphthalene (D8, 99%)

ApprovedBy: akmal
ApproveDate: 03/25/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM-365-0	PR-20618/07299NP1	03/25/14	08/03/19	Hamid, Akmal	3	1G	NEAT	NEAT

Veritech Control/Receipt Number: 8603

Description
Perylene (D12, 98%)

ApprovedBy: akmal
ApproveDate: 03/25/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM-366-0	PR-24113	03/25/14	10/10/22	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 8604

Description
Phenanthrene (D10, 98%)

ApprovedBy: akmal
ApproveDate: 03/25/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM-371-0	PR-19222	03/25/14	04/15/18	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 8620

Description
Methylene Chloride

ApprovedBy: jean
ApproveDate: 04/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9264-03	73090	04/03/14	05/15/15	Lopez, Jose	78	4L	neat	neat

Veritech Control/Receipt Number: 8662

Description
Methylene Chloride

ApprovedBy: jean
ApproveDate: 05/02/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9464-03	73090	04/28/14	05/15/15	Lopez, Jose	120	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 5376

Description
Fluorene

ApprovedBy: akmal
ApproveDate: 10/22/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	F80	447-146B	10/22/10	08/31/15	Hamid, Akmal	2	1g	neat	neat

Veritech Control/Receipt Number: 5377

Description
2,4-Dinitrotoluene

ApprovedBy: akmal
ApproveDate: 10/22/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	F35	440-37D	10/22/10	03/31/15	Hamid, Akmal	2	1g	Neat	Neat

Veritech Control/Receipt Number: 6409

Description
NAPHTHALENE

ApprovedBy: akmal
ApproveDate: 10/28/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	F55	451-68A	10/28/11	09/27/15	Shah, Meghaben	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 6410

Description
PYRENE

ApprovedBy: akmal
ApproveDate: 10/28/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	F84	461-150B	10/28/11	03/27/16	Shah, Meghaben	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 7449

Description
1,4- Dichlorobenzene

ApprovedBy: akmal
ApproveDate: 11/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10216-5G	150800	11/09/12	04/30/17	Hamid, Akmal	1	5g	Neat	Neat

Veritech Control/Receipt Number: 7450

Description
1,2,4-Trichlorobenzene

ApprovedBy: akmal
ApproveDate: 11/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N10179-1G	291500	11/09/12	11/30/16	Hamid, Akmal	2	1G	Neat	Neat

Veritech Control/Receipt Number: 7451

Description
N-Nitrosodi-n-propylamine

ApprovedBy: akmal
ApproveDate: 11/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-12568-1G	221600	11/09/12	06/30/15	Hamid, Akmal	2	1g	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7452

Description
Acenaphthene

ApprovedBy: akmal
ApproveDate: 11/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10999-5G	474500	11/09/12	04/30/17	Hamid, Akmal	1	5g	Neat	Neat

Veritech Control/Receipt Number: 7455

Description
4-Nitrophenol

ApprovedBy: akmal
ApproveDate: 11/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10855-5G	973800	11/09/12	11/30/18	Hamid, Akmal	1	5g	Neat	Neat

Veritech Control/Receipt Number: 7456

Description
4-Chloro-3-methylphenol

ApprovedBy: akmal
ApproveDate: 11/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10815-5g	974000	11/09/12	11/30/18	Hamid, Akmal	1	5g	Neat	Neat

Veritech Control/Receipt Number: 7457

Description
2-Methylphenol

ApprovedBy: akmal
ApproveDate: 11/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10429-5G	938600	11/09/12	10/31/16	Hamid, Akmal	1	5g	Neat	Neat

Veritech Control/Receipt Number: 7458

Description
Pentachlorophenol

ApprovedBy: akmal
ApproveDate: 11/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-12831-5G	975900	11/09/12	09/30/15	Hamid, Akmal	1	5g	Neat	Neat

Veritech Control/Receipt Number: 7459

Description
2-Chlorophenol

ApprovedBy: akmal
ApproveDate: 11/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10324-10G	185900	11/09/12	08/31/15	Hamid, Akmal	1	10G	Neat	Neat

Veritech Control/Receipt Number: 7463

Description
2,4-Dimethylphenol

ApprovedBy: akmal
ApproveDate: 11/13/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10639-1G	671700	11/13/12	10/30/16	Hamid, Akmal	2	1G	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7464

Description
Carbazole

ApprovedBy: akmal
ApproveDate: 11/13/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-11403-2G	694700	11/13/12	11/30/16	Hamid, Akmal	1	2G	Neat	Neat

Veritech Control/Receipt Number: 7465

Description
Butyl benzyl phthalate

ApprovedBy: akmal
ApproveDate: 11/13/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	11360-1G	957500	11/13/12	10/31/17	Hamid, Akmal	1	1G	Neat	Neat

Veritech Control/Receipt Number: 8254

Description
Acetone

ApprovedBy: jean
ApproveDate: 11/11/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	55353	11/05/13	08/01/16	Lopez, Jose	28	4L	neat	neat

Veritech Control/Receipt Number: 8261

Description
Phenol

ApprovedBy: akmal
ApproveDate: 11/08/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-13000-5G	1436000	11/08/13	03/31/19	Hamid, Akmal	1	5g	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8659

Description
Acid Comp Mix

ApprovedBy: jean
ApproveDate: 04/20/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	clp-hc-a-r-pak	213121432	04/18/14	01/06/17	Revolus, Jean	5	1ml	2000	PPM

Veritech Control/Receipt Number: 8660

Description
Base Neutral Mix

ApprovedBy: jean
ApproveDate: 05/02/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-BN-PAK	214041030	04/22/14	04/15/15	Revolus, Jean	5	1ml	2000	PPM

Veritech Control/Receipt Number: 8662

Description
Methylene Chloride

ApprovedBy: jean
ApproveDate: 05/02/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9464-03	73090	04/28/14	05/15/15	Lopez, Jose	120	4L	neat	neat

Veritech Control/Receipt Number: 8665

Description
Sodium Sulfate

ApprovedBy: jean
ApproveDate: 05/02/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Seidler	SC-3375-1C	342501	04/28/14	04/27/19	Lopez, Jose	4	100L	neat	neat

Veritech Control/Receipt Number: 8696

Description
Acetone

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T Baker	9254-03	70846	05/13/14	01/01/17	Batts, Alvin	20	4L	neat	neat

RUN LOG

Instrument: GCMS_10Year: 2014
4052101 0912

1-1-10M44104

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
10M44104.	CAL DFTPP	Ed1=2.6;	OK, V-184503	JB 05/20/14		Aqueous	1	1		05/19 08:51
10M44105.	CAL BNA@196PPM		OK, V-187029	JB 05/20/14		Aqueous	1	1	625\827	05/19 09:38
10M44106.	CAL BNA@50PPM	Is	RR	JB 05/20/14		Aqueous	1	1	625\827	05/19 10:01
10M44107.	CAL BNA@160PPM		OK, V-187028	JB 05/20/14		Aqueous	1	1	625\827	05/19 10:26
10M44108.	CAL BNA@120PPM		OK, V-187027	JB 05/20/14		Aqueous	1	1	625\827	05/19 10:49
10M44109.	CAL BNA@80PPM		OK, V-187026	JB 05/20/14		Aqueous	1	1	625\827	05/19 11:13
10M44110.	CAL BNA@20PPM		OK, V-187024	JB 05/20/14		Aqueous	1	1	625\827	05/19 11:39
10M44111.	CAL BNA@10PPM		OK, V-187022	JB 05/20/14		Aqueous	1	1	625\827	05/19 12:01
10M44112.	CAL BNA@2PPM		OK, V-187031	JB 05/20/14		Aqueous	1	1	625\827	05/19 12:28
10M44113.	CAL BNA@.5PPM		OK, V-187032	JB 05/20/14		Aqueous	1	1	625\827	05/19 12:50
10M44114.	CAL BNA@50PPM		OK, V-187025	JB 05/20/14		Aqueous	1	1	625\827	05/19 13:13
10M44115.	ICV BNA@50PPM	Is	OK, V-187033	JB 05/20/14		Aqueous	1	1	625\827	05/19 13:50

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
An	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning..Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-9M56925

RUN LOG

Instrument: GCMS_9 Year: 2014

4052101 0913

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
9M56925.D	CAL DFTPP	Ed1=3.1;	OK, V-184503	JB 05/22/14		Aqueous	1	1		05/21 08:54
9M56926.D	CAL BNA@50PPM		OK, V-187025	JB 05/22/14		Aqueous	1	1	625\827	05/21 09:18
9M56927.D	CAL BNA@10PPM		OK, V-187023	JB 05/22/14		Aqueous	1	1	625\827	05/21 09:44
9M56928.D	CAL BNA@2PPM		OK, V-187031	JB 05/22/14		Aqueous	1	1	625\827	05/21 10:07
9M56929.D	CAL BNA@.5PPM		OK, V-187032	JB 05/22/14		Aqueous	1	1	625\827	05/21 10:31
9M56930.D	CAL BNA@20PPM		OK, V-187024	JB 05/22/14		Aqueous	1	1	625\827	05/21 10:54
9M56931.D	CAL BNA@80PPM		OK, V-187026	JB 05/22/14		Aqueous	1	1	625\827	05/21 11:18
9M56932.D	CAL BNA@120PPM		OK, V-187027	JB 05/22/14		Aqueous	1	1	625\827	05/21 11:41
9M56933.D	CAL BNA@160PPM		OK, V-187028	JB 05/22/14		Aqueous	1	1	625\827	05/21 12:05
9M56934.D	CAL BNA@196PPM		OK, V-187029	JB 05/22/14		Aqueous	1	1	625\827	05/21 12:29
9M56935.D	ICV BNA@50PPM	Islvo	OK, V-187033	JB 05/22/14		Aqueous	1	1	625\827	05/21 13:04

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or eoddo
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning..Ini cal file <> method..	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GCMS_10Year: 2014
4052101 0914

1-1-10M44240

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
10M44240.	CAL DFTPP	Ed1=3.1;	OK, V-184503	JB 05/23/14		Aqueous	1	1		05/23 08:48
10M44241.	CAL BNA@50PPM		OK, V-187025	JB 05/23/14		Aqueous	1	1	625\827	05/23 09:17
10M44242.	WMB33889(MS)		OK WMB33889	JB 05/23/14		Aqueous	1	1	625\827	05/23 09:50
10M44243.	WMB33889		OK	JB 05/23/14		Aqueous	1	1	625\827	05/23 10:12
10M44244.	AC78787-003	SdOc	OK, DOUBLE SURR ADDED WMB33889	JB 05/23/14	BNA-8270	Aqueous	0.5	1	8270D	05/23 10:52
10M44245.	AC78787-003(MS)	Sb6Sb8M18	OK WMB33889	JB 05/23/14	BNA-8270	Aqueous	1	1	625\827	05/23 11:14
10M44246.	AC78787-003(MSD)	Sb6Sb8M18	OK WMB33889	JB 05/23/14	BNA-8270	Aqueous	1	1	625\827	05/23 11:36
10M44247.	AC78787-016	Ocf	RR 3X	JB 05/23/14	BNA-8270	Aqueous	1	1	8270D	05/23 11:58
10M44248.	AC78787-005		OK	JB 05/23/14	BNA-8270	Aqueous	1	1	8270D	05/23 12:20
10M44249.	AC78787-009		OK	JB 05/23/14	BNA-8270	Aqueous	1	1	8270D	05/23 12:42
10M44250.	AC78787-011		OK	JB 05/23/14	BNA-8270	Aqueous	1	1	8270D	05/23 13:05
10M44251.	AC78773-002		OK	JB 05/23/14	BN-8270	Aqueous	1	1	8270D	05/23 13:26
10M44252.	AC78788-003		OK	JB 05/23/14	BNA15-625	Aqueous	1	1	625	05/23 13:49
10M44253.	AC78788-004		OK	JB 05/23/14	BNA15-625	Aqueous	1	1	625	05/23 14:11
10M44254.	AC78788-005		OK	JB 05/23/14	BNA15-625	Aqueous	1	1	625	05/23 14:33
10M44255.	AC78787-016(3X)		OK	JB 05/23/14	BNA-8270	Aqueous	3	3	8270D	05/23 14:55
10M44256.	WMB33900(MS)	Sb6Sb8	OK WMB33900	JB 05/23/14		Aqueous	1	1	625\827	05/23 15:53
10M44257.	WMB33900	Sa6Sa8	OK	JB 05/27/14		Aqueous	1	1	625\827	05/23 16:15
10M44258.	AC78793-001		OK WMB33900	JB 05/27/14	BNA15-625	Aqueous	1	1	625	05/23 16:39
10M44259.	AC78793-001(MS)		OK WMB33900	JB 05/27/14	BNA15-625	Aqueous	1	1	625\827	05/23 17:01
10M44260.	AC78793-001(MSD)		OK WMB33900	JB 05/27/14	BNA15-625	Aqueous	1	1	625\827	05/23 17:24
10M44261.	AC78790-003	Sa8	OK	JB 05/27/14	BNA15-8270	Aqueous	1	1	8270D	05/23 17:45
10M44262.	AC78792-009	Sa8	RE-EXTRACT	JB 05/27/14	BNA25-8270	Aqueous	1	1	8270D	05/23 18:07
10M44263.	AC78818-003	Sa8	OK	JB 05/27/14	BNA15-8270	Aqueous	1	1	8270D	05/23 18:29
10M44264.	AC78798-001		OK	JB 05/27/14	BN15-625	Aqueous	1	1	625	05/23 18:51
10M44265.	AC78798-002		OK	JB 05/27/14	BN15-625	Aqueous	1	1	625	05/23 19:13
10M44266.	AC78800-013		OK	JB 05/27/14	BN15-625	Aqueous	1	1	625	05/23 19:35
10M44267.	AC78807-001		OK	JB 05/27/14	BN15-625	Aqueous	1	1	625	05/23 19:57
10M44268.	AC78807-002		OK	JB 05/27/14	BN15-625	Aqueous	1	1	625	05/23 20:19
10M44269.	AC78805-001		OK	JB 05/27/14	BN15-625	Aqueous	1	1	625	05/23 20:41
10M44270.	AC78805-002		OK	JB 05/27/14	BN15-625	Aqueous	1	1	625	05/23 21:03
10M44271.	AC78808-001		OK	JB 05/27/14	BN15-625	Aqueous	1	1	625	05/23 21:25
10M44272.	AC78808-002		OK	JB 05/27/14	BN15-625	Aqueous	1	1	625	05/23 21:47
10M44273.	AC78809-001		OK	JB 05/27/14	BN15-625	Aqueous	1	1	625	05/23 22:09
10M44274.	AC78809-002		OK	JB 05/27/14	BN15-625	Aqueous	1	1	625	05/23 22:31
10M44275.	AC78815-002	Sa6	OK	JB 05/27/14	ERROR	Aqueous	1	1	625	05/23 22:53
10M44276.	AC78817-001	Sa6	OK	JB 05/27/14	BNA-625	Aqueous	1	1	625	05/23 23:15

Anc	Area Not Checked	En	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eoh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing drft or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16,R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I26	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 sedes)	Iw	Initial cal warning..Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

1-1-9M57019

RUN LOG

Instrument: GCMS_9 Year: 2014

4052101 0915

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
9M57019.D	CAL DFTPP	Ed1=3.5;	OK, V-184503	JB 05/27/14		Aqueous	1	1		05/27 09:01
9M57020.D	CAL BNA@50PPM		OK, V-187025	JB 05/27/14		Aqueous	1	1	625\827	05/27 09:26
9M57021.D	SMB33901(MS)		OK SMB33901	JB 05/27/14		Soil	1	1	8270D	05/27 10:07
9M57022.D	SMB33901		OK	JB 05/27/14		Soil	1	1	8270D	05/27 10:30
9M57023.D	AC78735-011		OK SMB33901	JB 05/27/14	ERROR	Soil	1	1	8270D	05/27 10:54
9M57024.D	AC78735-011(MS)		OK SMB33901	JB 05/27/14	ERROR	Soil	1	1	8270D	05/27 11:17
9M57025.D	AC78735-011(MSD)		OK SMB33901	JB 05/27/14	ERROR	Soil	1	1	8270D	05/27 11:41
9M57026.D	AC78774-001	Sa8Eba	RE-EXTRACT	JB 05/27/14	BNA-8270	Soil	1	1	8270D	05/27 12:04
9M57027.D	AC78801-022		OK	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 12:28
9M57028.D	AC78801-025		OK	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 12:52
9M57029.D	AC78733-004		OK	JB 05/27/14	BNA-8270	Soil	1	1	8270D	05/27 13:15
9M57030.D	AC78735-037		OK	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 13:39
9M57031.D	AC78735-038		OK	JB 05/27/14	ERROR	Soil	1	1	8270D	05/27 14:03
9M57032.D	AC78735-039(3X)		OK	JB 05/27/14	BNPAH-8270	Soil	6	3	8270D	05/27 14:27
9M57033.D	AC78735-041		OK	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 14:50
9M57034.D	AC78801-019	Sb8Eba	RE-EXTRACT	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 15:14
9M57035.D	AC78735-029		OK	JB 05/28/14	BNPAH-8270	Soil	1	1	8270D	05/27 15:38
9M57036.D	AC78735-030		OK	JB 05/28/14	ERROR	Soil	1	1	8270D	05/27 16:01
9M57037.D	SMB33917(MS)		OK SMB33917	JB 05/28/14		Soil	1	1	8270D	05/27 16:25
9M57038.D	SMB33917		OK	JB 05/28/14		Soil	1	1	8270D	05/27 16:49
9M57039.D	AC78692-028(3X)		OK SMB33917	JB 05/28/14	BNA15-8270	Soil	3	3	8270D	05/27 17:13
9M57040.D	AC78692-028(3X)(M		OK SMB33917	JB 05/28/14	BNA15-8270	Soil	3	3	8270D	05/27 17:37
9M57041.D	AC78692-028(3X)(MSdR18M18		OK SMB33917	JB 05/28/14	BNA15-8270	Soil	6	3	8270D	05/27 18:01
9M57042.D	AC78787-014		OK	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/27 18:25
9M57043.D	AC78787-015	Sa8	OK	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/27 18:48
9M57044.D	AC78787-022		OK	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/27 19:12
9M57045.D	AC78787-021		OK	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/27 19:36

Anc	Area Not Checked	En	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing drft or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GCMS_10Year: 2014
4052101 0916

1-1-10M44277

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
10M44277.	CAL DFTPP	Ed1=3;	OK, V-184503	JB 05/27/14		Aqueous	1	1		05/27 08:26
10M44278.	CAL BNA@50PPM		OK, V-187025	JB 05/27/14		Aqueous	1	1	625\827	05/27 09:02
10M44279.	SMB33901		OK	JB 05/27/14		Soil	1	1	8270D	05/27 09:44
10M44280.	WMB33905		OK	JB 05/27/14		Aqueous	1	1	625\827	05/27 10:06
10M44281.	SMB33899		OK	JB 05/27/14		Soil	1	1	8270D	05/27 10:28
10M44282.	AC78801-019	Sb8	RE-EXTRACT	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 10:50
10M44283.	AC78801-020	Sb8	RE-EXTRACT	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 11:12
10M44284.	AC78801-023	Sb8	OK	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 11:34
10M44285.	AC78801-024	Sb8	RE-EXTRACT	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 11:56
10M44286.	AC78801-026	Sb8	RE-EXTRACT	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 12:18
10M44287.	AC78801-027		OK	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 12:41
10M44288.	AC78801-028	Sb8	RE-EXTRACT	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 13:03
10M44289.	AC78735-013		OK	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 13:25
10M44290.	AC78735-014		OK	JB 05/27/14	ERROR	Soil	1	1	8270D	05/27 13:47
10M44291.	AC78735-016		OK	JB 05/27/14	ERROR	Soil	1	1	8270D	05/27 14:09
10M44292.	AC78735-017		OK	JB 05/27/14	ERROR	Soil	1	1	8270D	05/27 14:32
10M44293.	AC78735-033		OK	JB 05/27/14	BNPAH-8270	Soil	1	1	8270D	05/27 14:54
10M44294.	AC78735-034		OK	JB 05/27/14	ERROR	Soil	1	1	8270D	05/27 15:16
10M44295.	WMB33918		OK	JB 05/28/14		Aqueous	1	1	625\827	05/27 15:43
10M44296.	SMB33917		OK	JB 05/28/14		Soil	1	1	8270D	05/27 16:06
10M44297.	AC78787-019		OK	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/27 16:28
10M44298.	AC78787-020		OK	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/27 16:50
10M44299.	AC78787-007		OK	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/27 17:12
10M44300.	AC78787-008	Sa8Sb8AoRo	RR	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/27 17:35
10M44301.	AC78787-023	Sa8	OK	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/27 17:57
10M44302.	AC78787-024	Sa8	OK	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/27 18:19
10M44303.	AC78787-025		OK	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/27 18:41
10M44304.	AC78787-026	Sa8	OK	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/27 19:04

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eob
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16,R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I26	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

1-1-10M44305

RUN LOG

Instrument: GCMS_10Year: 2014
4052101 0917

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
10M44305.	CAL DFTPP	Ed1=2.9;	OK, V-184503	JB 05/28/14		Aqueous	1	1		05/28 08:55
10M44306.	CAL BNA@50PPM		OK, V-187025	JB 05/28/14		Aqueous	1	1	625\827	05/28 09:24
10M44307.	AC78832-002		RE-EXTRACT	JB 05/28/14	BN15-625	Aqueous	1	1	625	05/28 11:00
10M44308.	AC78787-008	Sa8	OK	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/28 11:22
10M44309.	WMB33921(MS)	Sa6Sa8	OK WMB33921	JB 05/28/14		Aqueous	1	1	625\827	05/28 14:26
10M44310.	WMB33921	Sa6Sa8	OK	JB 05/29/14		Aqueous	1	1	625\827	05/28 14:48
10M44311.	AC78855-005		OK	JB 05/29/14	BN15-8270	Aqueous	1	1	8270D	05/28 15:09
10M44312.	AC78847-001		OK	JB 05/29/14	BN15-625	Aqueous	1	1	625	05/28 15:31
10M44313.	AC78847-002		OK	JB 05/29/14	BN15-625	Aqueous	1	1	625	05/28 15:53
10M44314.	AC78858-001	Sb6	RE-EXTRACT	JB 05/29/14	BN15-625	Aqueous	1	1	625	05/28 16:15
10M44315.	AC78858-002	Sb6	RE-EXTRACT	JB 05/29/14	BN15-625	Aqueous	1	1	625	05/28 16:37
10M44316.	AC78858-003	Sb6	RE-EXTRACT	JB 05/29/14	BN15-625	Aqueous	1	1	625	05/28 16:59
10M44317.	AC78858-004		OK	JB 05/29/14	BN15-625	Aqueous	1	1	625	05/28 17:21
10M44318.	WMB33925(MS)	Sb6Sb8	OK, FOR SPLP WMB33925	JB 05/29/14		Aqueous	1	1	625\827	05/28 17:43
10M44319.	WMB33925	Sb6Sb8	OK	JB 05/29/14		Aqueous	1	1	625\827	05/28 18:05
10M44320.	EF-SPLP V-185566(		OK	JB 05/29/14		Aqueous	1	5	8270D	05/28 18:27
10M44321.	AC78583-003(T)	Eo	OK	JB 05/29/14	BNPAH-8270	Aqueous	1	1	8270D	05/28 18:48
10M44322.	AC78581-009(T)	Eo	OK	JB 05/29/14	BNPSPLP-82	Aqueous	1	1	8270D	05/28 19:10
10M44323.	SMB33927		OK	JB 05/29/14		Soil	1	1	8270D	05/28 19:32
10M44324.	AC78801-020(R)	Sb8	SURR CONFIRMED	JB 05/29/14	BNPAH-8270	Soil	1	1	8270D	05/28 19:54
10M44325.	AC78801-024(R)	Sb8	SURR CONFIRMED	JB 05/29/14	BNPAH-8270	Soil	1	1	8270D	05/28 20:16
10M44326.	AC78801-026(R)		OK	JB 05/29/14	BNPAH-8270	Soil	1	1	8270D	05/28 20:38
10M44327.	AC78860-001		OK	JB 05/29/14	BN15-625	Aqueous	1	1	625	05/28 21:00
10M44328.	AC78860-002		OK	JB 05/29/14	BN15-625	Aqueous	1	1	625	05/28 21:22

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eob
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Pmb with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning, loi cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-9M57046

RUN LOG

Instrument: GCMS_9 Year: 2014

4052101 0918

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
9M57046.D	CAL DFTPP	Ed1=3.4;	OK, V-184503	JB 05/28/14		Aqueous	1	1		05/28 08:55
9M57047.D	CAL BNA@50PPM		OK, V-187025	JB 05/28/14		Aqueous	1	1	625\827	05/28 09:27
9M57048.D	AC78787-001(10X)		OK	JB 05/28/14	BNA-8270	Soil	10	10	8270D	05/28 11:59
9M57049.D	AC78787-002(50X)	Sd	OK	JB 05/28/14	BNA-8270	Soil	50	50	8270D	05/28 12:22
9M57050.D	AC78774-001(R)	Sa8	SURR CONFIRMED	JB 05/28/14	BNA-8270	Soil	1	1	8270D	05/28 16:01
9M57051.D	SMB33927(MS)		OK SMB33927	JB 05/29/14		Soil	1	1	8270D	05/28 17:04
9M57052.D	SMB33927		OK	JB 05/29/14		Soil	1	1	8270D	05/28 17:27
9M57053.D	AC78871-001		OK SMB33927	JB 05/29/14	BNA15-8270	Soil	2	1	8270D	05/28 17:50
9M57054.D	AC78871-001(MS)		OK SMB33927	JB 05/29/14	BNA15-8270	Soil	1	1	8270D	05/28 18:13
9M57055.D	AC78871-001(MSD)		OK SMB33927	JB 05/29/14	BNA15-8270	Soil	1	1	8270D	05/28 18:36
9M57056.D	AC78871-002		RR	JB 05/29/14	BNA15-8270	Soil	1	1	8270D	05/28 18:59
9M57057.D	AC78801-028(R)	Sb8Ao	RR	JB 05/29/14	BNPAH-8270	Soil	1	1	8270D	05/28 19:23
9M57058.D	AC78801-019(R)		OK	JB 05/29/14	BNPAH-8270	Soil	2	1	8270D	05/28 19:46
9M57059.D	AC78825-001		OK	JB 05/29/14	BNPAH-8270	Soil	1	1	8270D	05/28 20:09
9M57060.D	AC78825-002		OK	JB 05/29/14	BNPAH-8270	Soil	1	1	8270D	05/28 20:32
9M57061.D	AC78787-018	Ti8	RR	JB 05/29/14	BNA-8270	Soil	1	1	8270D	05/28 20:56

Anc	Area Not Checked	En	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eob
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GCMS_10Year_2014

4052101_0919

1-1-10M44329

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
10M44329.	CAL DFTPP	Ed1=2.9;	OK, V-184503	JB 05/29/14		Aqueous	1	1		05/29 08:58
10M44330.	BNA@50PPM	CnAnc	NOT USED	JB 05/29/14		Aqueous	1	1	625\827	05/29 09:26
10M44331.	CAL BNA@50PPM		OK, V-187025	JB 05/29/14		Aqueous	1	1	625\827	05/29 09:56
10M44332.	MECL2 TEST		TEST	JB 05/29/14		Aqueous	1	1	625\827	05/29 12:21
10M44333.	AC78787-018		OK	JB 05/29/14	BNA-8270	Soil	1	1	8270D	05/29 14:37
10M44334.	SMB33935(MS)		OK SMB33935	JB 05/29/14		Soil	1	1	8270D	05/29 15:30
10M44335.	SMB33935		OK	JB 05/29/14		Soil	1	1	8270D	05/29 15:51
10M44336.	AC78669-001	Eo	OK	JB 05/29/14	BNPAH-8270	Soil	1	1	8270D	05/29 16:13
10M44337.	WMB33941(MS)	Sb6Sb8	OK WMB33941	JB 05/29/14		Aqueous	1	1	625\827	05/29 16:35
10M44338.	WMB33941	Sb6Sb8	OK	JB 05/30/14		Aqueous	1	1	625\827	05/29 16:57
10M44339.	AC78669-002	Eo	OK	JB 05/30/14	BNPAH-8270	Soil	1	1	8270D	05/29 17:19
10M44340.	AC78669-003	Eo	OK	JB 05/30/14	BNPAH-8270	Soil	1	1	8270D	05/29 17:41
10M44341.	AC78669-005	Eo	OK	JB 05/30/14	BNPAH-8270	Soil	1	1	8270D	05/29 18:03
10M44342.	AC78880-001		OK SMB33935	JB 05/30/14	BNPAH-8270	Soil	1	1	8270D	05/29 18:25
10M44343.	AC78880-002		OK	JB 05/30/14	BNPAH-8270	Soil	1	1	8270D	05/29 18:47
10M44344.	AC78880-001(MS)		OK SMB33935	JB 05/30/14	BNPAH-8270	Soil	1	1	8270D	05/29 19:09
10M44345.	AC78880-001(MSD)		OK SMB33935	JB 05/30/14	BNPAH-8270	Soil	1	1	8270D	05/29 19:31
10M44346.	AC78735-001(T)		OK WMB33941	JB 05/30/14	BNPAH-8270	Aqueous	1	1	8270D	05/29 19:53
10M44347.	AC78735-001(T)(M	Sb6Sb8	OK WMB33941	JB 05/30/14	BNPAH-8270	Aqueous	1	1	625\827	05/29 20:14
10M44348.	AC78735-001(T)(M	Sb6Sb8	OK WMB33941	JB 05/30/14	BNPAH-8270	Aqueous	1	1	625\827	05/29 20:36
10M44349.	AC78832-002(R)		OK	JB 05/30/14	BN15-625	Aqueous	1	1	625	05/29 20:58

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eob
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing drft or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16,R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I26	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endpo Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method.	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

GC PCB Data

GC PCB Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8082A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3G84479.D	WMB33881	Aqueous	05/23/14 09:04	1		68	64	95	97		
3G84565.D	SMB33931	Soil	05/28/14 17:06	1		80	70	90	87		
3G84586.D	SMB33934	Soil	05/29/14 15:23	1		116	98	115	106		
2G90213.D	AC78787-001	Soil	05/30/14 10:55	1		81	81	83	126		
2G90214.D	AC78787-002	Soil	05/30/14 11:10	1		67	77	75	76		
3G84504.D	AC78787-003	Aqueous	05/23/14 15:51	1		101	62	111	107		
3G84505.D	AC78787-005	Aqueous	05/23/14 16:06	1		105	89	109	106		
2G90217.D	AC78787-007	Soil	05/30/14 11:55	1		55	54	71	77		
3G84591.D	AC78787-008	Soil	05/29/14 16:38	1		117	97	110	99		
3G84506.D	AC78787-009	Aqueous	05/23/14 16:21	1		77	70	105	102		
3G84507.D	AC78787-011	Aqueous	05/23/14 16:37	1		76	64	109	106		
3G84592.D	AC78787-014	Soil	05/29/14 16:53	1		110	94	106	95		
3G84593.D	AC78787-015	Soil	05/29/14 17:08	1		106	92	105	95		
3G84508.D	AC78787-016	Aqueous	05/23/14 16:52	1		72	65	103	99		
3G84594.D	AC78787-018	Soil	05/29/14 17:24	1		81	71	108	101		
3G84635.D	AC78787-019	Soil	06/02/14 15:31	1		60	53	41	38		
3G84605.D	AC78787-020	Soil	05/30/14 10:37	1		86	80	84	79		
2G90215.D	AC78787-021	Soil	05/30/14 11:25	1		75	68	88	166		
2G90216.D	AC78787-022	Soil	05/30/14 11:40	1		83	77	89	76		
3G84606.D	AC78787-023	Soil	05/30/14 10:52	1		79	73	81	76		
3G84607.D	AC78787-024	Soil	05/30/14 11:07	1		82	75	85	80		
3G84604.D	AC78787-025	Soil	05/30/14 10:22	1		92	84	89	85		
3G84608.D	AC78787-026	Soil	05/30/14 11:22	1		73	67	75	70		
2G90190.D	AC78780-001	Soil	05/29/14 20:37	1		100	97	97	89		
3G84480.D	WMB33881(M	Aqueous	05/23/14 09:20	1		64	61	93	93		
3G84485.D	AC78788-004	Aqueous	05/23/14 10:36	1		79	81	109	109		
3G84490.D	AC78788-004(	Aqueous	05/23/14 12:02	1		87	79	107	109		
3G84491.D	AC78788-004(	Aqueous	05/23/14 12:17	1		54	51	109	109		
3G84567.D	SMB33931(M	Soil	05/28/14 17:37	1		93	80	100	95		
3G84587.D	SMB33934(M	Soil	05/29/14 15:38	1		117	97	117	110		
3G84588.D	AC78780-001(	Soil	05/29/14 15:53	1		122	104	115	99		
3G84589.D	AC78780-001(	Soil	05/29/14 16:08	1		102	87	91	80		
3G84634.D	AC78787-019(	Soil	06/02/14 15:16	1		88	76	56	52		
3G84636.D	AC78787-019(	Soil	06/02/14 15:46	1		92	78	59	56		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8082A

Soil Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	31-155
S2=TCMX-Surrogate	100	31-155
S3=DCB-Surrogate	100	12-172
S4=DCB-Surrogate	100	12-172

Aqueous Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	39-132
S2=TCMX-Surrogate	100	39-132
S3=DCB-Surrogate	100	39-142
S4=DCB-Surrogate	100	39-142

Form3
Recovery Data
QC Batch: WMB33881

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84480.D	WMB33881(MS)	5/23/2014 9:20:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	716.184	0	1000	72	60	130
Aroclor-1260 -Total	2	844.868	0	1000	84	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: SMB33931

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84567.D	SMB33931(MS)	5/28/2014 5:37:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	900.712	0	1000	90	30	163
Aroclor-1260 -Total	2	916.572	0	1000	92	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: SMB33934

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84587.D	SMB33934(MS)	5/29/2014 3:38:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	1024.478	0	1000	102	30	163
Aroclor-1260 -Total	2	1039.868	0	1000	104	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: WMB33881

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84490.D	AC78788-004(MS)	5/23/2014 12:02:00 PM
Non Spike(If applicable):	3G84485.D	AC78788-004	5/23/2014 10:36:00 AM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	912.306	0	1000	91	60	130
Aroclor-1260 -Total	2	1005.956	0	1000	101	60	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84491.D	AC78788-004(MSD)	5/23/2014 12:17:00 PM
Non Spike(If applicable):	3G84485.D	AC78788-004	5/23/2014 10:36:00 AM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	883.82	0	1000	88	60	130
Aroclor-1260 -Total	2	972.954	0	1000	97	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: WMB33881

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84491.D	AC78788-004(MSD)	5/23/2014 12:17:00 PM
Duplicate(If applicable):	3G84490.D	AC78788-004(MS)	5/23/2014 12:02:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	2	883.82	912.306	3.2	24
Aroclor-1260 -Total	2	972.954	1005.956	3.3	19

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data
QC Batch: SMB33931

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84634.D	AC78787-019(MS)	6/2/2014 3:16:00 PM
Non Spike(If applicable):	3G84635.D	AC78787-019	6/2/2014 3:31:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	805.488	0	1000	81	30	163
Aroclor-1260 -Total	2	796.255	0	1000	80	25	166

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84636.D	AC78787-019(MSD)	6/2/2014 3:46:00 PM
Non Spike(If applicable):	3G84635.D	AC78787-019	6/2/2014 3:31:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	853.644	0	1000	85	30	163
Aroclor-1260 -Total	2	816.2175	0	1000	82	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: SMB33931

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84636.D	AC78787-019(MSD)	6/2/2014 3:46:00 PM
Duplicate(If applicable):	3G84634.D	AC78787-019(MS)	6/2/2014 3:16:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	2	853.644	805.488	5.8	40
Aroclor-1260 -Total	2	816.2175	796.255	2.5	37

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data
QC Batch: SMB33934

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84588.D	AC78780-001(MS)	5/29/2014 3:53:00 PM
Non Spike(If applicable):	2G90190.D	AC78780-001	5/29/2014 8:37:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	1041.304	0	1000	104	30	163
Aroclor-1260 -Total	2	960.194	0	1000	96	25	166

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84589.D	AC78780-001(MSD)	5/29/2014 4:08:00 PM
Non Spike(If applicable):	2G90190.D	AC78780-001	5/29/2014 8:37:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	887.502	0	1000	89	30	163
Aroclor-1260 -Total	2	825.904	0	1000	83	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: SMB33934

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84589.D	AC78780-001(MSD)	5/29/2014 4:08:00 PM
Duplicate(If applicable):	3G84588.D	AC78780-001(MS)	5/29/2014 3:53:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	2	887.502	1041.304	16	40
Aroclor-1260 -Total	2	825.904	960.194	15	37

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: WMB33881
Blank Data File: 3G84479.D
Matrix: Aqueous

Blank Analysis Date: 05/23/14 09:04
Blank Extraction Date: 05/22/14
(If Applicable)
Method: EPA 8082A

Sample Number	Data File	Analysis Date
AC78787-003	3G84504.D	05/23/14 15:51
AC78787-005	3G84505.D	05/23/14 16:06
AC78787-009	3G84506.D	05/23/14 16:21
AC78787-011	3G84507.D	05/23/14 16:37
AC78787-016	3G84508.D	05/23/14 16:52
AC78788-004(MSD	3G84491.D	05/23/14 12:17
AC78788-004(MS)	3G84490.D	05/23/14 12:02
AC78788-004	3G84485.D	05/23/14 10:36
WMB33881(MS)	3G84480.D	05/23/14 09:20

FORM 4
Blank Summary

Blank Number: SMB33931
Blank Data File: 3G84565.D
Matrix: Soil

Blank Analysis Date: 05/28/14 17:06
Blank Extraction Date: 05/28/14
(If Applicable)
Method: EPA 8082A

Sample Number	Data File	Analysis Date
AC78787-001	2G90213.D	05/30/14 10:55
AC78787-002	2G90214.D	05/30/14 11:10
AC78787-007	2G90217.D	05/30/14 11:55
AC78787-019	3G84635.D	06/02/14 15:31
AC78787-020	3G84605.D	05/30/14 10:37
AC78787-021	2G90215.D	05/30/14 11:25
AC78787-022	2G90216.D	05/30/14 11:40
AC78787-023	3G84606.D	05/30/14 10:52
AC78787-024	3G84607.D	05/30/14 11:07
AC78787-025	3G84604.D	05/30/14 10:22
AC78787-026	3G84608.D	05/30/14 11:22
AC78787-019(MS)	3G84634.D	06/02/14 15:16
AC78787-019(MSD	3G84636.D	06/02/14 15:46
SMB33931(MS)	3G84567.D	05/28/14 17:37

FORM 4
Blank Summary

Blank Number: SMB33934
Blank Data File: 3G84586.D
Matrix: Soil

Blank Analysis Date: 05/29/14 15:23
Blank Extraction Date: 05/29/14
(If Applicable)
Method: EPA 8082A

Sample Number	Data File	Analysis Date
AC78787-008	3G84591.D	05/29/14 16:38
AC78787-014	3G84592.D	05/29/14 16:53
AC78787-015	3G84593.D	05/29/14 17:08
AC78787-018	3G84594.D	05/29/14 17:24
AC78780-001(MS)	3G84588.D	05/29/14 15:53
SMB33934(MS)	3G84587.D	05/29/14 15:38
AC78780-001(MSD	3G84589.D	05/29/14 16:08
AC78780-001	2G90190.D	05/29/14 20:37

Form 5

Method: EPA 8082A

Instrument: GC_2

Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
2G89548.D	200PPB	05/02/14 08:42	Soil					
2G89549.D	TEST	05/02/14 16:47	Soil					
2G89550.D	BLK	05/02/14 17:02	Soil					
2G89551.D	BLK	05/02/14 17:17	Soil					
2G89552.D	BLK	05/02/14 17:32	Soil					
2G89553.D	BLK	05/02/14 17:47	Soil					
2G89554.D	BLK	05/02/14 18:02	Soil					
2G89555.D	BLK	05/02/14 18:17	Soil					
2G89556.D	BLK	05/02/14 18:33	Soil					
2G89557.D	BLK	05/02/14 18:48	Soil					
2G89558.D	BLK	05/02/14 19:03	Soil					
2G89559.D	BLK	05/02/14 19:18	Soil					
2G89560.D	CAL 3268@500PPB	05/02/14 19:33	Soil	2G89565.	10.2115	0.0117	11.0089	0.0009
2G89561.D	CAL 1242@500PPB	05/02/14 19:48	Soil	2G89565.	10.2119	0.0078	11.0087	0.0009
2G89562.D	CAL 1248@500PPB	05/02/14 20:03	Soil	2G89565.	10.2121	0.0059	11.0087	0.0009
2G89563.D	CAL 2154@500PPB	05/02/14 20:19	Soil	2G89565.	10.2117	0.0098	11.0090	0.0018
2G89564.D	CAL 1262@500PPB	05/02/14 20:34	Soil	2G89565.	10.2110	0.0166	11.0085	0.0027
2G89565.D	CAL 1660@50PPB	05/02/14 20:49	Soil	2G89565.	10.2127	0	11.0088	0
2G89566.D	CAL 1660@200PPB	05/02/14 21:04	Soil	2G89565.	10.2122	0.0049	11.0083	0.0045
2G89567.D	CAL 1660@500PPB	05/02/14 21:19	Soil	2G89565.	10.2112	0.0147	11.0079	0.0082
2G89568.D	CAL 1660@1000PPB	05/02/14 21:34	Soil	2G89565.	10.2107	0.0196	11.0074	0.0127
2G89569.D	CAL 1660@2000PPB	05/02/14 21:49	Soil	2G89565.	10.2098	0.0284	11.0083	0.0045
2G89570.D	CAL 1660@4000PPB	05/02/14 22:05	Soil	2G89565.	10.2097	0.0294	11.0093	0.0045
2G89571.D	ICV	05/02/14 22:20	Soil	2G89565.	10.2105	0.0215	11.0076	0.0109
2G89572.D	PEST WS	05/02/14 22:35	Soil	2G89565.	0.0000	200 *	0.0000	200 *
2G89573.D	MDL-1(1242) ST	05/02/14 22:50	Soil	2G89565.	10.2104	0.0225	11.0072	0.0145
2G89574.D	MDL-2(1242) ST	05/02/14 23:05	Soil	2G89565.	10.2108	0.0186	11.0071	0.0154
2G89575.D	MDL-3(1242) ST	05/02/14 23:20	Soil	2G89565.	10.2096	0.0304	11.0078	0.0091
2G89576.D	MDL-4(1242) ST	05/02/14 23:35	Soil	2G89565.	10.2095	0.0313	11.0064	0.0218
2G89577.D	MDL-5(1242) ST	05/02/14 23:51	Soil	2G89565.	10.2090	0.0362	11.0080	0.0073
2G89578.D	MDL-7(1242) ST	05/03/14 00:06	Soil	2G89565.	10.2094	0.0323	11.0084	0.0036
2G89579.D	MDL-8(1242) ST	05/03/14 00:21	Soil	2G89565.	10.2083	0.0431	11.0064	0.0218
2G89580.D	MDL-9(1242) ST	05/03/14 00:36	Soil	2G89565.	10.2098	0.0284	11.0081	0.0064
2G89581.D	MDL-VERI(1242) ST	05/03/14 00:51	Soil	2G89565.	10.2086	0.0402	11.0061	0.0245
2G89582.D	CAL 1660@1000PPB	05/03/14 01:06	Soil	2G89565.	10.2097	0.0294	11.0059	0.0263
2G89583.D	CAL 1660@2000PPB	05/03/14 01:21	Soil	2G89582.	10.2089	0.0078	11.0065	0.0055
2G89584.D	MDL-1(1262) ST	05/03/14 01:36	Soil	2G89582.	10.2097	0	11.0071	0.0109
2G89585.D	MDL-2(1262) ST	05/03/14 01:51	Soil	2G89582.	10.2094	0.0029	11.0078	0.0173
2G89586.D	MDL-3(1262) ST	05/03/14 02:06	Soil	2G89582.	10.2097	0	11.0068	0.0082
2G89587.D	MDL-4(1262) ST	05/03/14 02:21	Soil	2G89582.	10.2101	0.0039	11.0078	0.0173
2G89588.D	MDL-5(1262) ST	05/03/14 02:36	Soil	2G89582.	10.2110	0.0127	11.0083	0.0218
2G89589.D	MDL-6(1262) ST	05/03/14 02:51	Soil	2G89582.	10.2097	0	11.0078	0.0173
2G89590.D	MDL-7(1262) ST	05/03/14 03:07	Soil	2G89582.	10.2082	0.0147	11.0068	0.0082
2G89591.D	MDL-8(1262) ST	05/03/14 03:22	Soil	2G89582.	10.2095	0.002	11.0067	0.0073
2G89592.D	MDL-9(1262) ST	05/03/14 03:37	Soil	2G89582.	10.2089	0.0078	11.0062	0.0027
2G89593.D	MDL-VERI(1262) ST	05/03/14 03:52	Soil	2G89582.	10.2091	0.0059	11.0067	0.0073
2G89594.D	1000PPB	05/03/14 04:07	Soil	2G89582.	10.2093	0.0039	11.0071	0.0109
2G89595.D	CAL 1660@2000PPB	05/03/14 04:22	Soil	2G89582.	10.2085	0.0118	11.0082	0.0209

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G84214.D	2000PPB	05/07/14 08:44	Aqueous					
3G84215.D	CAL 1660@50PPB	05/07/14 10:35	Aqueous	3G84215.	9.8826	0	10.6367	0
3G84216.D	CAL 1660@200PPB	05/07/14 10:50	Aqueous	3G84215.	9.8747	0.08	10.6364	0.0028
3G84217.D	CAL 1660@500PPB	05/07/14 11:05	Aqueous	3G84215.	9.8729	0.0982	10.6365	0.0019
3G84218.D	CAL 1660@1000PPB	05/07/14 11:20	Aqueous	3G84215.	9.8717	0.1104	10.6359	0.0075
3G84219.D	CAL 1660@2000PPB	05/07/14 11:35	Aqueous	3G84215.	9.8707	0.1205	10.6353	0.0132
3G84220.D	CAL 1660@4000PPB	05/07/14 11:50	Aqueous	3G84215.	9.8693	0.1347	10.6344	0.0216
3G84221.D	CAL 3268@500PPB	05/07/14 12:05	Aqueous	3G84215.	9.8713	0.1144	10.6351	0.015
3G84222.D	CAL 1242@500PPB	05/07/14 12:20	Aqueous	3G84215.	9.8718	0.1093	10.6360	0.0066
3G84223.D	CAL 1248@500PPB	05/07/14 12:35	Aqueous	3G84215.	9.8723	0.1043	10.6362	0.0047
3G84224.D	CAL 2154@500PPB	05/07/14 12:50	Aqueous	3G84215.	9.8718	0.1093	10.6362	0.0047
3G84225.D	CAL 1262@500PPB	05/07/14 13:05	Aqueous	3G84215.	9.8717	0.1104	10.6355	0.0113
3G84226.D	CAL ICV	05/07/14 13:19	Aqueous	3G84215.	9.8712	0.1154	10.6360	0.0066
3G84227.D	PEST WS	05/07/14 13:35	Aqueous	3G84215.	0.0000	200 *	0.0000	200 *
3G84228.D	SMB30792	05/07/14 15:56	Soil	3G84215.	9.8807	0.0192	10.6388	0.0197
3G84229.D	MDL-1(3268) ST	05/07/14 16:11	Soil	3G84215.	9.8708	0.1195	10.6362	0.0047
3G84230.D	MDL-2(3268) ST	05/07/14 16:26	Soil	3G84215.	9.8720	0.1073	10.6361	0.0056
3G84231.D	MDL-3(3268) ST	05/07/14 16:41	Soil	3G84215.	9.8704	0.1235	10.6358	0.0085
3G84232.D	MDL-4(3268) ST	05/07/14 16:57	Soil	3G84215.	9.8721	0.1063	10.6366	0.0009
3G84233.D	MDL-5(3268) ST	05/07/14 17:12	Soil	3G84215.	9.8711	0.1164	10.6356	0.0103
3G84234.D	MDL-6(3268) ST	05/07/14 17:27	Soil	3G84215.	9.8708	0.1195	10.6360	0.0066
3G84235.D	MDL-7(3268) ST	05/07/14 17:42	Soil	3G84215.	9.8709	0.1185	10.6356	0.0103
3G84236.D	MDL-VERI(3268) ST	05/07/14 17:58	Soil	3G84215.	9.8709	0.1185	10.6356	0.0103
3G84237.D	CAL 1660@1000PPB	05/07/14 18:13	Soil	3G84215.	9.8714	0.1134	10.6356	0.0103
3G84238.D	2000PPB	05/07/14 18:28	Soil	3G84237.	9.8712	0.002	10.6363	0.0066

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G84478.D	CAL 1660@2000PPB	05/23/14 08:41	Soil	3G84478.	9.8629	0	10.6343	0
3G84479.D	WMB33881	05/23/14 09:04	Aqueous	3G84478.	9.8698	0.0699	10.6366	0.0216
3G84480.D	WMB33881(MS)	05/23/14 09:20	Aqueous	3G84478.	9.8656	0.0274	10.6348	0.0047
3G84481.D	AC78812-001	05/23/14 09:35	Aqueous	3G84478.	9.8634	0.0051	10.6337	0.0056
3G84482.D	AC78812-002	05/23/14 09:50	Aqueous	3G84478.	9.8633	0.0041	10.6342	0.0009
3G84483.D	AC78799-001	05/23/14 10:05	Aqueous	3G84478.	9.8634	0.0051	10.6339	0.0038
3G84484.D	AC78788-003	05/23/14 10:20	Aqueous	3G84478.	9.8631	0.002	10.6351	0.0075
3G84485.D	AC78788-004	05/23/14 10:36	Aqueous	3G84478.	9.8620	0.0091	10.6351	0.0075
3G84486.D	AC78788-005	05/23/14 10:51	Aqueous	3G84478.	9.8646	0.0172	10.6351	0.0075
3G84487.D	AC78812-001(10X)	05/23/14 11:06	Aqueous	3G84478.	9.8659	0.0304	10.6359	0.015
3G84488.D	AC78812-002(20X)	05/23/14 11:22	Aqueous	3G84478.	9.8669	0.0406	10.6354	0.0103
3G84489.D	CAL 1660@2000PPB	05/23/14 11:36	Aqueous	3G84478.	9.8634	0.0051	10.6348	0.0047
3G84490.D	AC78788-004(MS)	05/23/14 12:02	Aqueous	3G84489.	9.8703	0.0699	10.6374	0.0244
3G84491.D	AC78788-004(MSD)	05/23/14 12:17	Aqueous	3G84489.	9.8640	0.0061	10.6353	0.0047
3G84492.D	AC78788-007	05/23/14 12:32	Aqueous	3G84489.	9.8641	0.0071	10.6355	0.0066
3G84493.D	AC78793-001	05/23/14 12:48	Aqueous	3G84489.	9.8634	0	10.6343	0.0047
3G84494.D	AC78713-028(10X)	05/23/14 13:03	Soil	3G84489.	9.8640	0.0061	10.6366	0.0169
3G84495.D	AC78713-031(10X)	05/23/14 13:19	Soil	3G84489.	9.8634	0	10.6348	0
3G84496.D	AC78713-026(10X)	05/23/14 13:34	Soil	3G84489.	9.8642	0.0081	10.6363	0.0141
3G84497.D	AC78713-029(10X)(MS:	05/23/14 13:49	Soil	3G84489.	9.8658	0.0243	10.6362	0.0132
3G84498.D	AC78713-030(10X)(MSD	05/23/14 14:04	Soil	3G84489.	9.8639	0.0051	10.6355	0.0066
3G84499.D	AC78790-003	05/23/14 14:19	Aqueous	3G84489.	9.8640	0.0061	10.6353	0.0047
3G84500.D	AC78792-009	05/23/14 14:34	Aqueous	3G84489.	9.8650	0.0162	10.6354	0.0056
3G84501.D	SMB33891(MS)	05/23/14 14:49	Soil	3G84489.	9.8644	0.0101	10.6367	0.0179
3G84502.D	SMB33891	05/23/14 15:04	Soil	3G84489.	9.8648	0.0142	10.6364	0.015
3G84503.D	CAL 1660@2000PPB	05/23/14 15:19	Soil	3G84489.	9.8643	0.0091	10.6356	0.0075
3G84504.D	AC78787-003	05/23/14 15:51	Aqueous	3G84503.	9.8712	0.0699	10.6387	0.0291
3G84505.D	AC78787-005	05/23/14 16:06	Aqueous	3G84503.	9.8662	0.0193	10.6365	0.0085
3G84506.D	AC78787-009	05/23/14 16:21	Aqueous	3G84503.	9.8621	0.0223	10.6348	0.0075
3G84507.D	AC78787-011	05/23/14 16:37	Aqueous	3G84503.	9.8634	0.0091	10.6347	0.0085
3G84508.D	AC78787-016	05/23/14 16:52	Aqueous	3G84503.	9.8645	0.002	10.6366	0.0094
3G84509.D	SMB33893(MS)	05/23/14 17:07	Soil	3G84503.	9.8653	0.0101	10.6370	0.0132
3G84510.D	SMB33893	05/23/14 17:22	Soil	3G84503.	9.8657	0.0142	10.6356	0
3G84511.D	AC78676-022(MS)	05/23/14 17:38	Soil	3G84503.	9.8652	0.0091	10.6366	0.0094
3G84512.D	AC78676-022(MSD)	05/23/14 17:53	Soil	3G84503.	9.8650	0.0071	10.6365	0.0085
3G84513.D	AC78676-022	05/23/14 18:08	Soil	3G84503.	9.8654	0.0112	10.6367	0.0103
3G84514.D	1000PPB	05/23/14 18:24	Soil	3G84503.	9.8659	0.0162	10.6365	0.0085
3G84515.D	CAL 1660@2000PPB	05/23/14 18:38	Soil	3G84503.	9.8640	0.003	10.6358	0.0019
3G84516.D	AC78676-021	05/23/14 18:54	Soil	3G84515.	9.8643	0.003	10.6353	0.0047
3G84517.D	AC78676-023	05/23/14 19:09	Soil	3G84515.	9.8643	0.003	10.6360	0.0019
3G84518.D	AC78676-024	05/23/14 19:24	Soil	3G84515.	9.8649	0.0091	10.6365	0.0066
3G84519.D	AC78676-025	05/23/14 19:40	Soil	3G84515.	9.8646	0.0061	10.6374	0.015
3G84520.D	AC78676-026	05/23/14 19:55	Soil	3G84515.	9.8652	0.0122	10.6373	0.0141
3G84521.D	AC78676-027	05/23/14 20:10	Soil	3G84515.	9.8652	0.0122	10.6376	0.0169
3G84522.D	AC78676-028	05/23/14 20:26	Soil	3G84515.	9.8647	0.0071	10.6379	0.0197
3G84523.D	AC78676-029	05/23/14 20:41	Soil	3G84515.	9.8660	0.0203	10.6381	0.0216
3G84524.D	AC78676-030	05/23/14 20:56	Soil	3G84515.	9.8656	0.0162	10.6372	0.0132
3G84525.D	AC78676-031	05/23/14 21:11	Soil	3G84515.	9.8646	0.0061	10.6359	0.0009
3G84526.D	1000PPB	05/23/14 21:27	Soil	3G84515.	9.8667	0.0274	10.6384	0.0244
3G84527.D	CAL 1660@2000PPB	05/23/14 21:42	Soil	3G84515.	9.8646	0.0061	10.6360	0.0019

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_3

Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G84554.D	CAL 1660@2000PPB	05/28/14 09:27	Soil	3G84554.	9.8659	0	10.6397	0
3G84555.D	AC78718-003	05/28/14 10:10	Soil	3G84554.	9.8750	0.0922	10.6418	0.0197
3G84556.D	AC78718-005	05/28/14 10:26	Soil	3G84554.	9.8675	0.0162	10.6403	0.0056
3G84557.D	AC78718-001	05/28/14 10:41	Soil	3G84554.	9.8676	0.0172	10.6394	0.0028
3G84558.D	AC78725-001(10X)	05/28/14 10:56	Soil	3G84554.	9.8670	0.0111	10.6386	0.0103
3G84559.D	AC78718-003(MS)	05/28/14 11:12	Soil	3G84554.	9.8686	0.0274	10.6405	0.0075
3G84560.D	AC78718-003(MSD)	05/28/14 11:27	Soil	3G84554.	9.8680	0.0213	10.6397	0
3G84561.D	AC78676-027(100X)	05/28/14 11:43	Soil	3G84554.	0.0000	200 *	0.0000	200 *
3G84562.D	CAL 1660@2000PPB	05/28/14 12:42	Soil	3G84554.	9.8759	0.1013	10.6432	0.0329
3G84563.D	WMB33923	05/28/14 16:36	Aqueous	3G84562.	9.8592	0.1692	10.6338	0.0884
3G84564.D	WMB33923(MS)	05/28/14 16:52	Aqueous	3G84562.	9.8621	0.1398	10.6347	0.0799
3G84565.D	SMB33931	05/28/14 17:06	Soil	3G84562.	9.8613	0.1479	10.6332	0.094
3G84566.D	MB	05/28/14 17:22	Soil	3G84562.	9.8617	0.1439	10.6343	0.0837
3G84567.D	SMB33931(MS)	05/28/14 17:37	Soil	3G84562.	9.8615	0.1459	10.6340	0.0865
3G84568.D	MBS	05/28/14 17:52	Soil	3G84562.	9.8624	0.1368	10.6347	0.0799
3G84569.D	AC78817-001	05/28/14 18:07	Aqueous	3G84562.	9.8625	0.1358	10.6349	0.078
3G84570.D	AC78872-009	05/28/14 18:23	Aqueous	3G84562.	9.8614	0.1469	10.6333	0.0931
3G84571.D	AC78829-014	05/28/14 18:38	Aqueous	3G84562.	9.8614	0.1469	10.6344	0.0827
3G84572.D	AC78818-003	05/28/14 18:53	Aqueous	3G84562.	9.8619	0.1419	10.6343	0.0837
3G84573.D	1000PPB	05/28/14 19:09	Aqueous	3G84562.	9.8614	0.1469	10.6344	0.0827
3G84574.D	CAL 1660@2000PPB	05/28/14 19:24	Aqueous	3G84562.	9.8599	0.1621	10.6327	0.0987

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_3

Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G84575.D	CAL 1660@2000PPB	05/29/14 09:12	Aqueous	3G84575.	9.8582	0	10.6337	0
3G84576.D	OMB33937	05/29/14 11:51	OIL/OTHER	3G84575.	9.8691	0.1105	10.6362	0.0235
3G84577.D	OMB33937(MS)	05/29/14 12:06	OIL/OTHER	3G84575.	9.8625	0.0436	10.6356	0.0179
3G84578.D	AC78877-001	05/29/14 12:21	OIL/OTHER	3G84575.	9.8603	0.0213	10.6342	0.0047
3G84579.D	CAL 1660@2000PPB	05/29/14 12:44	OIL/OTHER	3G84575.	9.8663	0.0821	10.6353	0.015
3G84580.D	SMB-ST(JR)	05/29/14 13:35	Soil	3G84579.	9.8685	0.0223	10.6364	0.0103
3G84581.D	MBS1-ST	05/29/14 13:50	Soil	3G84579.	9.8615	0.0487	10.6332	0.0197
3G84582.D	MBS2-ST	05/29/14 14:05	Soil	3G84579.	9.8613	0.0507	10.6344	0.0085
3G84583.D	MBS3-ST	05/29/14 14:19	Soil	3G84579.	9.8605	0.0588	10.6337	0.015
3G84584.D	MBS4-ST	05/29/14 14:34	Soil	3G84579.	9.8597	0.0669	10.6336	0.016
3G84585.D	MBS5-ST	05/29/14 14:49	Soil	3G84579.	9.8596	0.0679	10.6331	0.0207
3G84586.D	SMB33934	05/29/14 15:23	Soil	3G84579.	9.8683	0.0203	10.6379	0.0245
3G84587.D	SMB33934(MS)	05/29/14 15:38	Soil	3G84579.	9.8618	0.0456	10.6343	0.0094
3G84588.D	AC78780-001(MS)	05/29/14 15:53	Soil	3G84579.	9.8605	0.0588	10.6350	0.0028
3G84589.D	AC78780-001(MSD)	05/29/14 16:08	Soil	3G84579.	9.8612	0.0517	10.6361	0.0075
3G84590.D	AC78780-003	05/29/14 16:23	Soil	3G84579.	9.8627	0.0365	10.6371	0.0169
3G84591.D	AC78787-008	05/29/14 16:38	Soil	3G84579.	9.8631	0.0324	10.6366	0.0122
3G84592.D	AC78787-014	05/29/14 16:53	Soil	3G84579.	9.8615	0.0487	10.6348	0.0047
3G84593.D	AC78787-015	05/29/14 17:08	Soil	3G84579.	9.8617	0.0466	10.6355	0.0019
3G84594.D	AC78787-018	05/29/14 17:24	Soil	3G84579.	9.8632	0.0314	10.6360	0.0066
3G84595.D	AC78792-001	05/29/14 17:39	Soil	3G84579.	9.8616	0.0476	10.6361	0.0075
3G84596.D	AC78792-003	05/29/14 17:54	Soil	3G84579.	9.8624	0.0395	10.6362	0.0085
3G84597.D	AC78826-001	05/29/14 18:09	Soil	3G84579.	9.8625	0.0385	10.6366	0.0122
3G84598.D	AC78824-001	05/29/14 18:24	Soil	3G84579.	9.8632	0.0314	10.6362	0.0085
3G84599.D	AC78824-003	05/29/14 18:39	Soil	3G84579.	9.8628	0.0355	10.6365	0.0113
3G84600.D	AC78824-005	05/29/14 18:55	Soil	3G84579.	9.8634	0.0294	10.6368	0.0141
3G84601.D	1000PPB	05/29/14 19:10	Soil	3G84579.	9.8632	0.0314	10.6357	0.0038
3G84602.D	CAL 1660@2000PPB	05/29/14 19:25	Soil	3G84579.	9.8637	0.0264	10.6366	0.0122

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_2 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
2G90154.D	1000PPB	05/29/14 09:19	Soil					
2G90155.D	CAL 1660@1000PPB	05/29/14 11:03	Soil	2G90155.	10.1879	0	10.9976	0
2G90156.D	MDL-1 (1248)	05/29/14 11:26	Aqueous	2G90155.	10.1964	0.0834	11.0004	0.0255
2G90157.D	MDL-2 (1248)	05/29/14 11:41	Aqueous	2G90155.	10.1909	0.0294	10.9978	0.0018
2G90158.D	MDL-3 (1248)	05/29/14 11:56	Aqueous	2G90155.	10.1913	0.0334	10.9991	0.0136
2G90159.D	MDL-4 (1248)	05/29/14 12:11	Aqueous	2G90155.	10.1904	0.0245	10.9987	0.01
2G90160.D	MDL-5 (1248)	05/29/14 12:26	Aqueous	2G90155.	10.1897	0.0177	10.9993	0.0155
2G90161.D	MDL-6 (1248)	05/29/14 12:41	Aqueous	2G90155.	10.1906	0.0265	10.9987	0.01
2G90162.D	MDL-7 (1248)	05/29/14 12:56	Aqueous	2G90155.	10.1913	0.0334	10.9999	0.0209
2G90163.D	MDL-8 (1248)	05/29/14 13:12	Aqueous	2G90155.	10.1914	0.0343	11.0003	0.0246
2G90164.D	AC78871-001	05/29/14 13:27	Soil	2G90155.	10.1885	0.0059	11.0003	0.0246
2G90165.D	AC78871-002	05/29/14 13:42	Soil	2G90155.	10.1893	0.0137	10.9988	0.0109
2G90166.D	1000PPB	05/29/14 13:59	Soil	2G90155.	10.1922	0.0422	11.0002	0.0236
2G90167.D	CAL 1660@1000PPB	05/29/14 14:26	Soil	2G90155.	10.1952	0.0716	10.9992	0.0145
2G90168.D	MDL- 9(1248)	05/29/14 14:56	Soil	2G90167.	10.1963	0.0108	11.0008	0.0145
2G90169.D	MDL- VERI(1248)	05/29/14 15:11	Soil	2G90167.	10.1919	0.0324	10.9990	0.0018
2G90170.D	MDL- 1(2154)	05/29/14 15:26	Soil	2G90167.	10.1906	0.0451	10.9978	0.0127
2G90171.D	MDL- 2(2154)	05/29/14 15:41	Soil	2G90167.	10.1900	0.051	10.9982	0.0091
2G90172.D	MDL- 3(2154)	05/29/14 15:56	Soil	2G90167.	10.1916	0.0353	10.9993	0.0009
2G90173.D	MDL- 4(2154)	05/29/14 16:11	Soil	2G90167.	10.1900	0.051	11.0000	0.0073
2G90174.D	MDL- 5(2154)	05/29/14 16:27	Soil	2G90167.	10.1908	0.0432	10.9994	0.0018
2G90175.D	MDL- 6(2154)	05/29/14 16:51	Soil	2G90167.	10.1957	0.0049	11.0010	0.0164
2G90176.D	MDL- 7(2154)	05/29/14 17:06	Soil	2G90167.	10.1920	0.0314	11.0003	0.01
2G90177.D	MDL- 8(2154)	05/29/14 17:21	Soil	2G90167.	10.1902	0.0491	10.9981	0.01
2G90178.D	CAL 1660@1000PPB	05/29/14 17:36	Soil	2G90167.	10.1912	0.0392	11.0012	0.0182
2G90179.D	2000PPB	05/29/14 17:51	Soil	2G90178.	10.1897	0.0147	10.9991	0.0191
2G90180.D	MDL-9(2154)	05/29/14 18:06	Soil	2G90178.	10.1913	0.001	11.0009	0.0027
2G90181.D	MDL-VERI(2154)	05/29/14 18:21	Soil	2G90178.	10.1912	0	11.0008	0.0036
2G90182.D	AC78787-025	05/29/14 18:37	Soil	2G90178.	10.1882	0.0294	11.0001	0.01
2G90183.D	AC78787-024	05/29/14 18:52	Soil	2G90178.	10.1898	0.0137	10.9995	0.0154
2G90184.D	AC78787-026	05/29/14 19:07	Soil	2G90178.	10.1903	0.0088	11.0003	0.0082
2G90185.D	AC78787-022	05/29/14 19:22	Soil	2G90178.	10.1908	0.0039	11.0002	0.0091
2G90186.D	AC78787-023	05/29/14 19:37	Soil	2G90178.	10.1901	0.0108	10.9995	0.0154
2G90187.D	AC78787-020	05/29/14 19:52	Soil	2G90178.	10.1900	0.0118	11.0002	0.0091
2G90188.D	AC78790-001	05/29/14 20:07	Soil	2G90178.	10.1912	0	11.0019	0.0064
2G90189.D	AC78790-002	05/29/14 20:22	Soil	2G90178.	10.1907	0.0049	11.0023	0.01
2G90190.D	AC78780-001	05/29/14 20:37	Soil	2G90178.	10.1923	0.0108	11.0023	0.01
2G90191.D	AC78792-007	05/29/14 20:52	Soil	2G90178.	10.1916	0.0039	11.0023	0.01
2G90192.D	AC78818-002	05/29/14 21:08	Soil	2G90178.	10.1922	0.0098	11.0015	0.0027
2G90193.D	AC78818-001	05/29/14 21:23	Soil	2G90178.	10.1930	0.0177	11.0031	0.0173
2G90194.D	AC78826-002	05/29/14 21:38	Soil	2G90178.	10.1923	0.0108	11.0033	0.0191
2G90195.D	CAL 1660@1000PPB	05/29/14 21:53	Soil	2G90178.	10.1920	0.0079	11.0009	0.0027
2G90196.D	2000PPB	05/29/14 22:08	Soil	2G90195.	10.1905	0.0147	11.0005	0.0036
2G90197.D	AC78787-019(MS)	05/29/14 22:23	Soil	2G90195.	10.1922	0.002	11.0021	0.0109
2G90198.D	AC78787-019(MSD)	05/29/14 22:38	Soil	2G90195.	10.1914	0.0059	11.0022	0.0118
2G90199.D	AC78787-019	05/29/14 22:53	Soil	2G90195.	0.0000	200 *	11.0035	0.0236
2G90200.D	AC78744-001	05/29/14 23:08	Soil	2G90195.	10.1969	0.0481	11.0061	0.0473
2G90201.D	AC78744-002	05/29/14 23:24	Soil	2G90195.	10.1970	0.049	11.0057	0.0436
2G90202.D	AC78787-001	05/29/14 23:39	Soil	2G90195.	10.1952	0.0314	11.0037	0.0254
2G90203.D	AC78787-002	05/29/14 23:54	Soil	2G90195.	10.1938	0.0177	11.0055	0.0418
2G90204.D	AC78787-021	05/30/14 00:09	Soil	2G90195.	10.1955	0.0343	11.0048	0.0354
2G90205.D	AC78792-005	05/30/14 00:24	Soil	2G90195.	10.1957	0.0363	11.0031	0.02
2G90206.D	AC78871-002	05/30/14 00:39	Soil	2G90195.	10.1954	0.0334	11.0037	0.0254
2G90207.D	AC78871-001	05/30/14 00:54	Soil	2G90195.	10.1933	0.0128	11.0024	0.0136
2G90208.D	CAL 1660@1000PPB	05/30/14 01:09	Soil	2G90195.	10.1943	0.0226	11.0031	0.02
2G90209.D	2000PPB	05/30/14 08:50	Soil	2G90208.	10.1851	0.0903	10.9935	0.0873

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G84603.D	CAL 1660@2000PPB	05/30/14 08:45	Soil	3G84603.	9.8604	0	10.6358	0
3G84604.D	AC78787-025	05/30/14 10:22	Soil	3G84603.	9.8712	0.1095	10.6388	0.0282
3G84605.D	AC78787-020	05/30/14 10:37	Soil	3G84603.	9.8636	0.0324	10.6359	0.0009
3G84606.D	AC78787-023	05/30/14 10:52	Soil	3G84603.	9.8630	0.0264	10.6370	0.0113
3G84607.D	AC78787-024	05/30/14 11:07	Soil	3G84603.	9.8638	0.0345	10.6372	0.0132
3G84608.D	AC78787-026	05/30/14 11:22	Soil	3G84603.	9.8622	0.0182	10.6359	0.0009
3G84609.D	CAL 1660@2000PPB	05/30/14 12:34	Soil	3G84603.	9.8718	0.1155	10.6403	0.0423
3G84610.D	AC78890-004(MS)	05/30/14 16:55	Aqueous	3G84609.	9.8709	0.0091	10.6388	0.0141
3G84611.D	AC78890-004(MSD)	05/30/14 17:10	Aqueous	3G84609.	9.8645	0.074	10.6372	0.0291
3G84612.D	WMB33950 (MS)	05/30/14 17:25	Aqueous	3G84609.	9.8646	0.073	10.6367	0.0338
3G84613.D	AC78872-009	05/30/14 17:41	Aqueous	3G84609.	9.8641	0.078	10.6374	0.0273
3G84614.D	AC78890-001	05/30/14 17:56	Aqueous	3G84609.	9.8625	0.0943	10.6365	0.0357
3G84615.D	AC78890-002	05/30/14 18:11	Aqueous	3G84609.	9.8634	0.0851	10.6375	0.0263
3G84616.D	AC78890-003	05/30/14 18:27	Aqueous	3G84609.	9.8629	0.0902	10.6362	0.0385
3G84617.D	AC78890-004	05/30/14 18:42	Aqueous	3G84609.	9.8620	0.0993	10.6361	0.0395
3G84618.D	AC78890-005	05/30/14 18:57	Aqueous	3G84609.	9.8628	0.0912	10.6364	0.0367
3G84619.D	AC78890-006	05/30/14 19:12	Aqueous	3G84609.	9.8623	0.0963	10.6357	0.0432
3G84620.D	AC78890-007	05/30/14 19:28	Aqueous	3G84609.	9.8645	0.074	10.6364	0.0367
3G84621.D	1000PPB	05/30/14 19:43	Aqueous	3G84609.	9.8634	0.0851	10.6374	0.0273
3G84622.D	CAL 1660@2000PPB	05/30/14 19:58	Aqueous	3G84609.	9.8636	0.0831	10.6365	0.0357

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_2 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
2G90210.D	CAL 1660@1000PPB	05/30/14 09:16	Soil	2G90210.	10.1917	0	10.9958	0
2G90211.D	AC78744-001	05/30/14 10:24	Soil	2G90210.	10.1950	0.0324	10.9982	0.0218
2G90212.D	AC78744-002	05/30/14 10:39	Soil	2G90210.	10.1906	0.0108	10.9985	0.0246
2G90213.D	AC78787-001	05/30/14 10:55	Soil	2G90210.	10.1870	0.0461	10.9967	0.0082
2G90214.D	AC78787-002	05/30/14 11:10	Soil	2G90210.	10.1837	0.0785	10.9957	0.0009
2G90215.D	AC78787-021	05/30/14 11:25	Soil	2G90210.	10.1880	0.0363	10.9971	0.0118
2G90216.D	AC78787-022	05/30/14 11:40	Soil	2G90210.	10.1878	0.0383	10.9963	0.0045
2G90217.D	AC78787-007	05/30/14 11:55	Soil	2G90210.	10.1862	0.054	10.9957	0.0009
2G90218.D	CAL 1660@1000PPB	05/30/14 12:35	Soil	2G90210.	10.1941	0.0235	10.9969	0.01
2G90219.D	SMB33952	05/30/14 15:48	Soil	2G90218.	10.1870	0.0697	10.9940	0.0264
2G90220.D	SMB33952(MS)	05/30/14 16:03	Soil	2G90218.	10.1858	0.0815	10.9942	0.0246
2G90221.D	AC78829-001(MS)	05/30/14 16:18	Soil	2G90218.	10.1871	0.0687	10.9974	0.0046
2G90222.D	AC78829-001(MSD)	05/30/14 16:33	Soil	2G90218.	10.1863	0.0765	10.9955	0.0127
2G90223.D	AC78829-001	05/30/14 16:48	Soil	2G90218.	10.1863	0.0765	10.9958	0.01
2G90224.D	AC78829-002	05/30/14 17:03	Soil	2G90218.	10.1864	0.0756	10.9954	0.0136
2G90225.D	AC78829-003	05/30/14 17:18	Soil	2G90218.	10.1874	0.0658	10.9972	0.0027
2G90226.D	AC78829-005	05/30/14 17:33	Soil	2G90218.	10.1876	0.0638	10.9977	0.0073
2G90227.D	AC78829-011	05/30/14 17:48	Soil	2G90218.	10.1875	0.0648	10.9957	0.0109
2G90228.D	AC78863-001	05/30/14 18:04	Soil	2G90218.	10.1867	0.0726	10.9961	0.0073
2G90229.D	AC78863-003	05/30/14 18:19	Soil	2G90218.	10.1883	0.0569	10.9984	0.0136
2G90230.D	AC78863-005	05/30/14 18:34	Soil	2G90218.	10.1870	0.0697	10.9966	0.0027
2G90231.D	AC78863-006	05/30/14 18:49	Soil	2G90218.	10.1872	0.0677	10.9963	0.0055
2G90232.D	BLK	05/30/14 19:04	Soil	2G90218.	10.1867	0.0726	10.9961	0.0073
2G90233.D	BLK	05/30/14 19:19	Soil	2G90218.	10.1866	0.0736	10.9970	0.0009
2G90234.D	CAL 1660@1000PPB	05/30/14 19:34	Soil	2G90218.	10.1872	0.0677	10.9966	0.0027
2G90235.D	2000PPB	05/30/14 19:50	Soil	2G90234.	10.1848	0.0236	10.9945	0.0191
2G90236.D	AC78863-004	05/30/14 20:05	Soil	2G90234.	10.1866	0.0059	10.9961	0.0045
2G90237.D	AC78879-001	05/30/14 20:20	Soil	2G90234.	10.1868	0.0039	10.9964	0.0018
2G90238.D	AC78854-014	05/30/14 20:35	Soil	2G90234.	10.1869	0.0029	10.9970	0.0036
2G90239.D	AC78854-009	05/30/14 20:50	Soil	2G90234.	10.1877	0.0049	10.9970	0.0036
2G90240.D	AC78854-006	05/30/14 21:05	Soil	2G90234.	10.1870	0.002	10.9971	0.0045
2G90241.D	SMB33946	05/30/14 21:20	Soil	2G90234.	10.1867	0.0049	10.9960	0.0055
2G90242.D	SMB33946(MS)	05/30/14 21:35	Soil	2G90234.	10.1863	0.0088	10.9966	0
2G90243.D	BLK	05/30/14 21:51	Soil	2G90234.	10.1867	0.0049	10.9963	0.0027
2G90244.D	BLK	05/30/14 22:06	Soil	2G90234.	10.1864	0.0078	10.9961	0.0045
2G90245.D	1000PPB	05/30/14 22:21	Soil	2G90234.	10.1859	0.0128	10.9955	0.01
2G90246.D	CAL 1660@2000PPB	05/30/14 22:36	Soil	2G90234.	10.1856	0.0157	10.9956	0.0091
2G90247.D	AC78854-001	05/30/14 22:51	Soil	2G90246.	10.1864	0.0079	10.9966	0.0091
2G90248.D	AC78895-002	05/30/14 23:06	Soil	2G90246.	10.1873	0.0167	10.9980	0.0218
2G90249.D	AC78793-002	05/30/14 23:21	Soil	2G90246.	10.1869	0.0128	10.9971	0.0136
2G90250.D	AC78854-017	05/30/14 23:36	Soil	2G90246.	10.1878	0.0216	10.9987	0.0282
2G90251.D	AC78829-013	05/30/14 23:51	Soil	2G90246.	10.1875	0.0186	10.9972	0.0146
2G90252.D	AC78829-004	05/31/14 00:06	Soil	2G90246.	10.1875	0.0186	10.9971	0.0136
2G90253.D	AC78829-006	05/31/14 00:21	Soil	2G90246.	10.1876	0.0196	10.9981	0.0227
2G90254.D	AC78829-007	05/31/14 00:37	Soil	2G90246.	10.1871	0.0147	10.9960	0.0036
2G90255.D	AC78829-008	05/31/14 00:52	Soil	2G90246.	10.1879	0.0226	10.9978	0.02
2G90256.D	AC78829-010	05/31/14 01:07	Soil	2G90246.	10.1879	0.0226	10.9980	0.0218
2G90257.D	AC78829-012	05/31/14 01:22	Soil	2G90246.	10.1879	0.0226	10.9982	0.0236
2G90258.D	AC78862-001	05/31/14 01:37	Soil	2G90246.	10.1862	0.0059	10.9974	0.0164
2G90259.D	AC78863-002	05/31/14 01:52	Soil	2G90246.	10.1874	0.0177	10.9989	0.03
2G90260.D	AC78863-009	05/31/14 02:07	Soil	2G90246.	10.1872	0.0157	10.9989	0.03
2G90261.D	BLK	05/31/14 02:22	Soil	2G90246.	10.1868	0.0118	10.9970	0.0127
2G90262.D	BLK	05/31/14 02:37	Soil	2G90246.	10.1877	0.0206	10.9968	0.0109
2G90263.D	BLK	05/31/14 02:53	Soil	2G90246.	10.1863	0.0069	10.9955	0.0009
2G90264.D	CAL 1660@1000PPB	05/31/14 03:08	Soil	2G90246.	10.1883	0.0265	10.9983	0.0246
2G90265.D	2000PPB	05/31/14 03:23	Soil	2G90264.	10.1869	0.0137	10.9976	0.0064

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G84623.D	CAL 1660@2000PPB	06/02/14 09:06	Aqueous	3G84623.	9.8596	0	10.6348	0
3G84624.D	MB	06/02/14 09:56	Aqueous	3G84623.	9.8698	0.1034	10.6390	0.0395
3G84625.D	AC78895-003	06/02/14 10:10	Aqueous	3G84623.	9.8629	0.0335	10.6361	0.0122
3G84626.D	TEST	06/02/14 11:05	Aqueous	3G84623.	9.8698	0.1034	10.6389	0.0385
3G84627.D	AC78862-001(5X)	06/02/14 11:57	Aqueous	3G84623.	9.8700	0.1054	10.6398	0.047
3G84628.D	SMB33963(MS)	06/02/14 13:46	Soil	3G84623.	9.8709	0.1145	10.6389	0.0385
3G84629.D	SMB33964(MS)	06/02/14 14:01	Soil	3G84623.	9.8635	0.0395	10.6361	0.0122
3G84630.D	SMB33963	06/02/14 14:16	Soil	3G84623.	9.8623	0.0274	10.6369	0.0197
3G84631.D	SMB33964	06/02/14 14:31	Soil	3G84623.	9.8624	0.0284	10.6359	0.0103
3G84632.D	AC78920-001	06/02/14 14:46	Soil	3G84623.	9.8621	0.0253	10.6377	0.0273
3G84633.D	AC78906-001	06/02/14 15:01	Soil	3G84623.	9.8640	0.0446	10.6367	0.0179
3G84634.D	AC78787-019(MS)	06/02/14 15:16	Soil	3G84623.	9.8628	0.0324	10.6376	0.0263
3G84635.D	AC78787-019	06/02/14 15:31	Soil	3G84623.	9.8605	0.0091	10.6375	0.0254
3G84636.D	AC78787-019(MSD)	06/02/14 15:46	Soil	3G84623.	9.8628	0.0324	10.6370	0.0207
3G84637.D	CAL 1660@2000PPB	06/02/14 16:19	Soil	3G84623.	9.8598	0.002	10.6341	0.0066

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

GC PCB Data
Sample Data

Form1

ORGANICS PCB REPORT

Sample Number: AC78787-001
Client Id: EXT1(0-2')
Data File: 2G90213.D
Analysis Date: 05/30/14 10:55
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.030	U	11097-69-1	Aroclor-1254	0.030	U
11104-28-2	Aroclor-1221	0.030	U	11096-82-5	Aroclor-1260	0.030	U
11141-16-5	Aroclor-1232	0.030	U	37324-23-5	Aroclor-1262	0.030	U
53469-21-9	Aroclor-1242	0.030	U	11100-14-4	Aroclor-1268	0.030	U
12672-29-6	Aroclor-1248	0.030	U	1336-36-3	Aroclor (Total)	0.030	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0946

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90213.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 10:55
Operator : MAS
Sample : AC78787-001
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:40:07 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

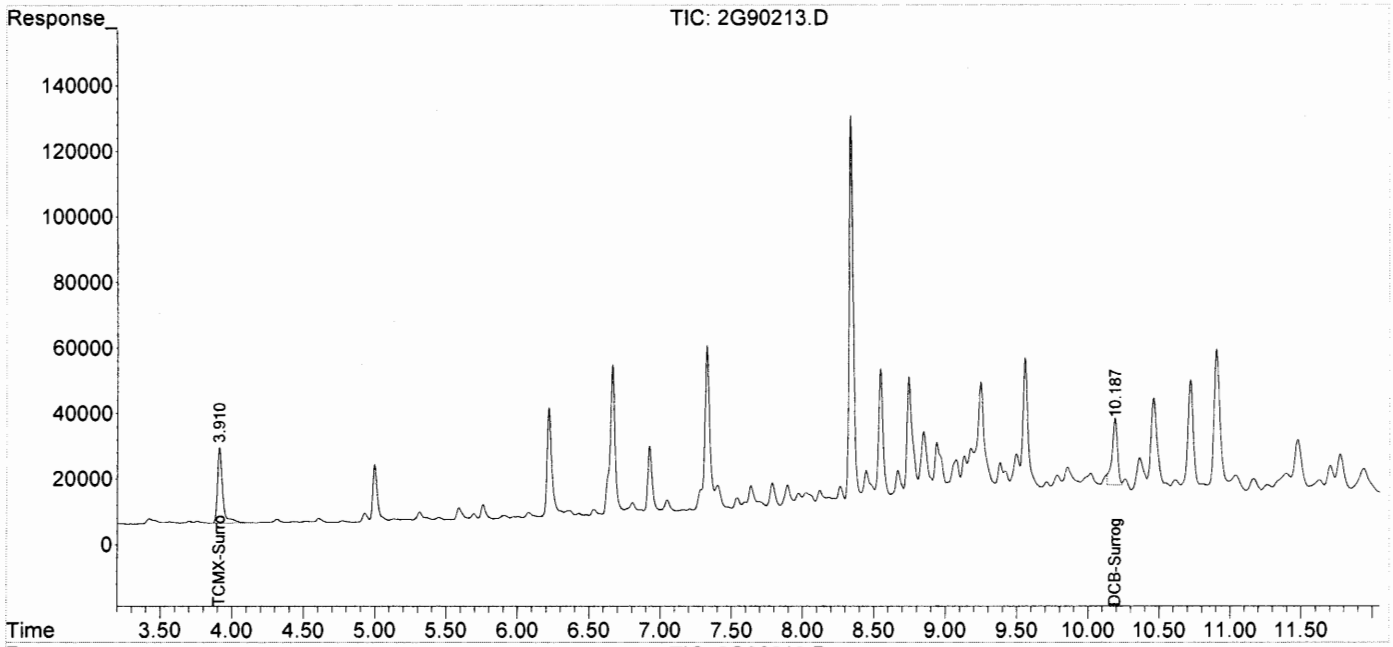
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.911	3.987	583555	273697	80.930	80.601
45)DCB-Surrogate	10.187	10.997	542168	459188	82.651m	125.497 #

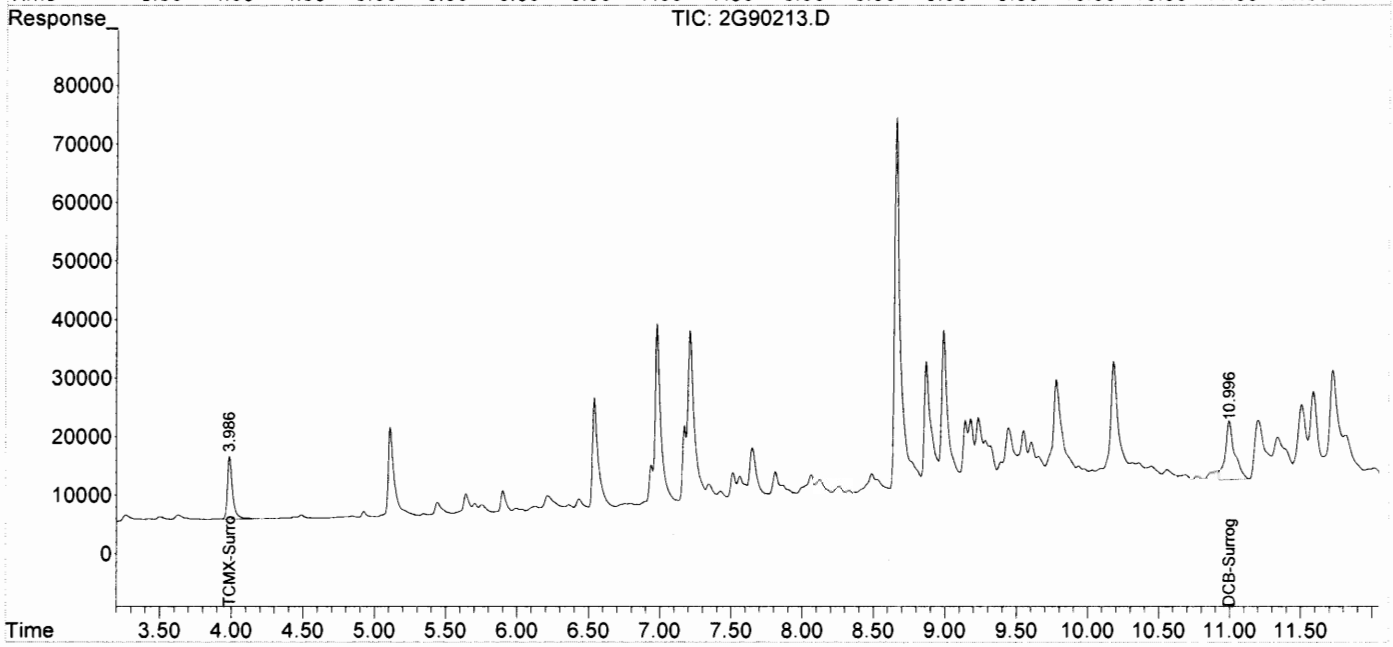
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90213.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 10:55
Operator : MAS
Sample : AC78787-001
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:40:07 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-002
Client Id: EXT1(15-17')
Data File: 2G90214.D
Analysis Date: 05/30/14 11:10
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.029	U	11097-69-1	Aroclor-1254	0.029	U
11104-28-2	Aroclor-1221	0.029	U	11096-82-5	Aroclor-1260	0.029	U
11141-16-5	Aroclor-1232	0.029	U	37324-23-5	Aroclor-1262	0.029	U
53469-21-9	Aroclor-1242	0.029	U	11100-14-4	Aroclor-1268	0.029	U
12672-29-6	Aroclor-1248	0.029	U	1336-36-3	Aroclor (Total)	0.029	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0949

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90214.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 11:10
Operator : MAS
Sample : AC78787-002
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:40:44 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

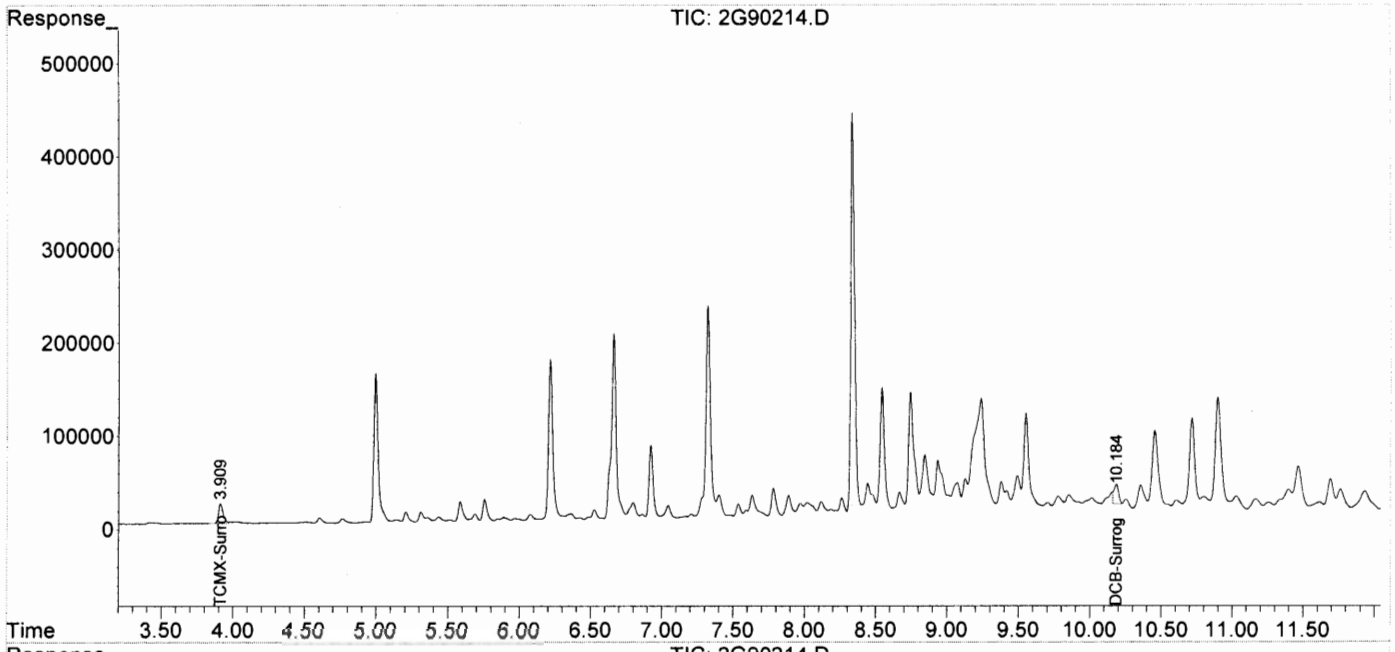
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.910	3.986	485599	259797	67.345	76.508
45)DCB-Surrogate	10.184	10.996	492495	280773	74.769m	75.630m

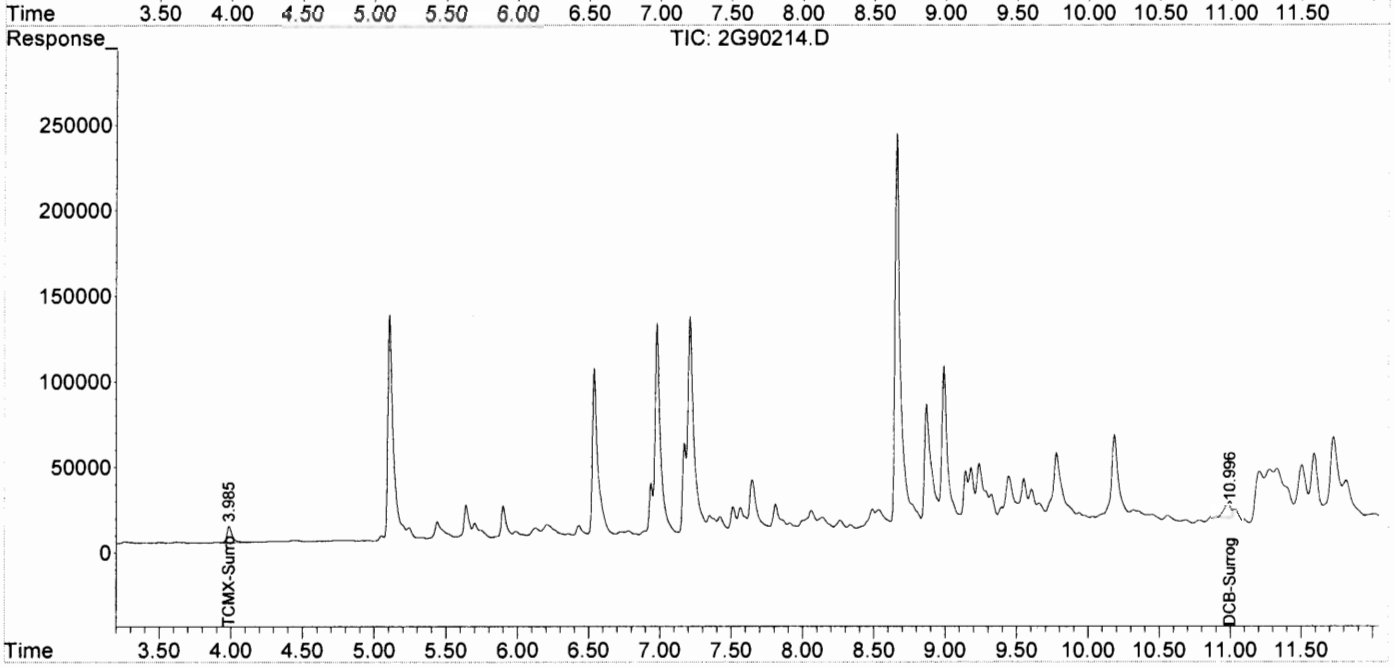
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90214.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 11:10
Operator : MAS
Sample : AC78787-002
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:40:44 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-003
Client Id: EXT 1 U
Data File: 3G84504.D
Analysis Date: 05/23/14 15:51
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0952

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84504.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 15:51
Operator : MLC/MAS
Sample : AC78787-003
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 12:20:14 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

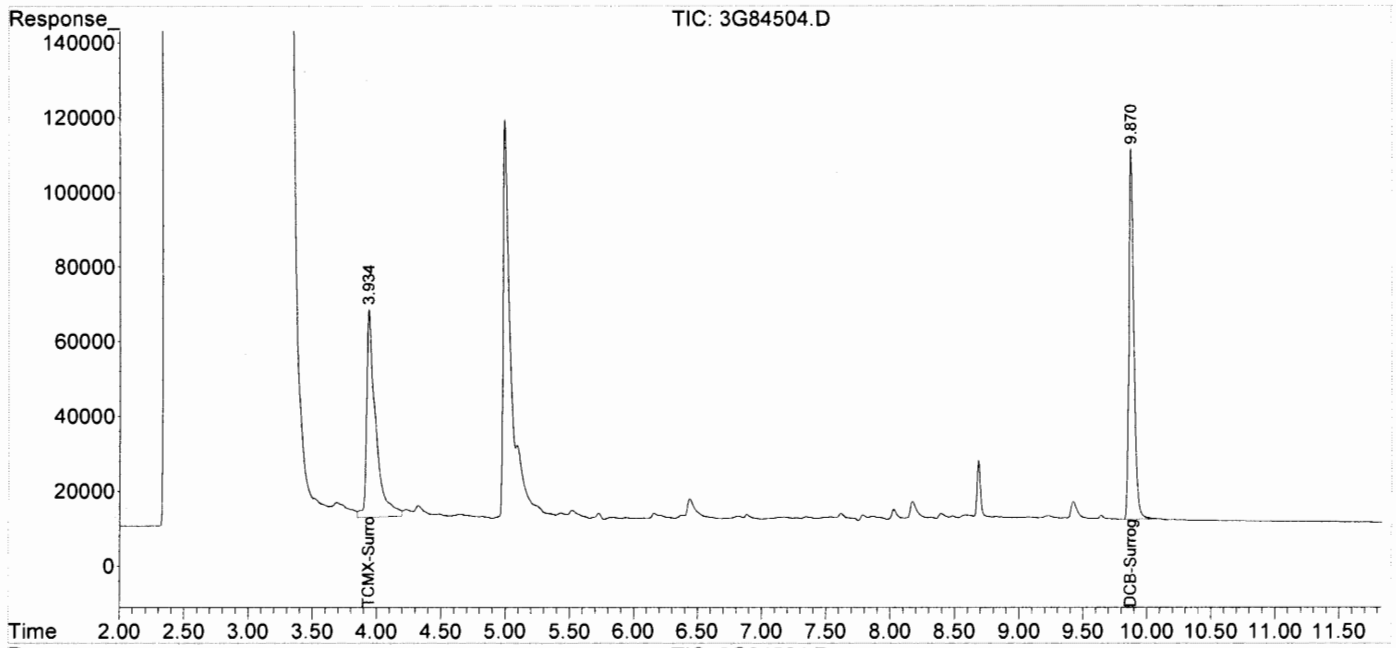
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.935	3.920	2719079	2048262	101.427	61.994 #
45)DCB-Surrogate	9.871	10.639	2648265	3747634	110.849	106.988

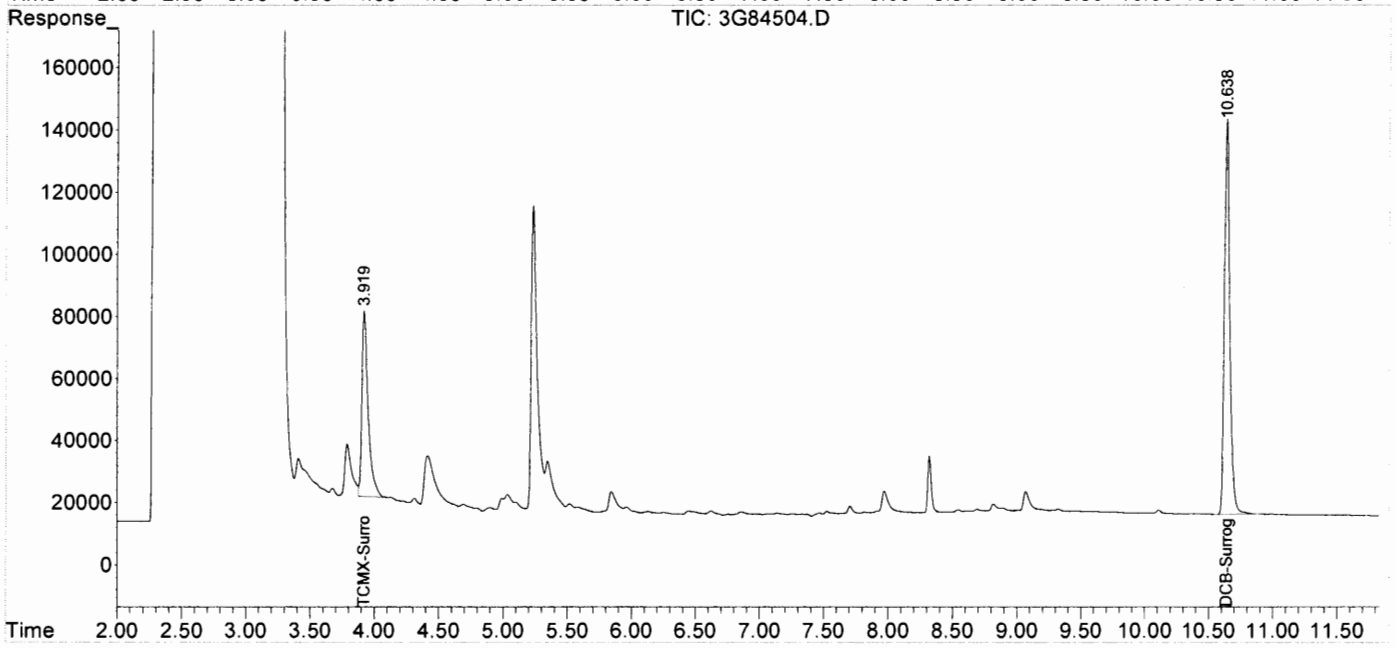
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84504.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 15:51
Operator : MLC/MAS
Sample : AC78787-003
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 12:20:14 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-005
Client Id: FB052014 U
Data File: 3G84505.D
Analysis Date: 05/23/14 16:06
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0955

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84505.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 16:06
Operator : MLC/MAS
Sample : AC78787-005
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 12:20:37 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

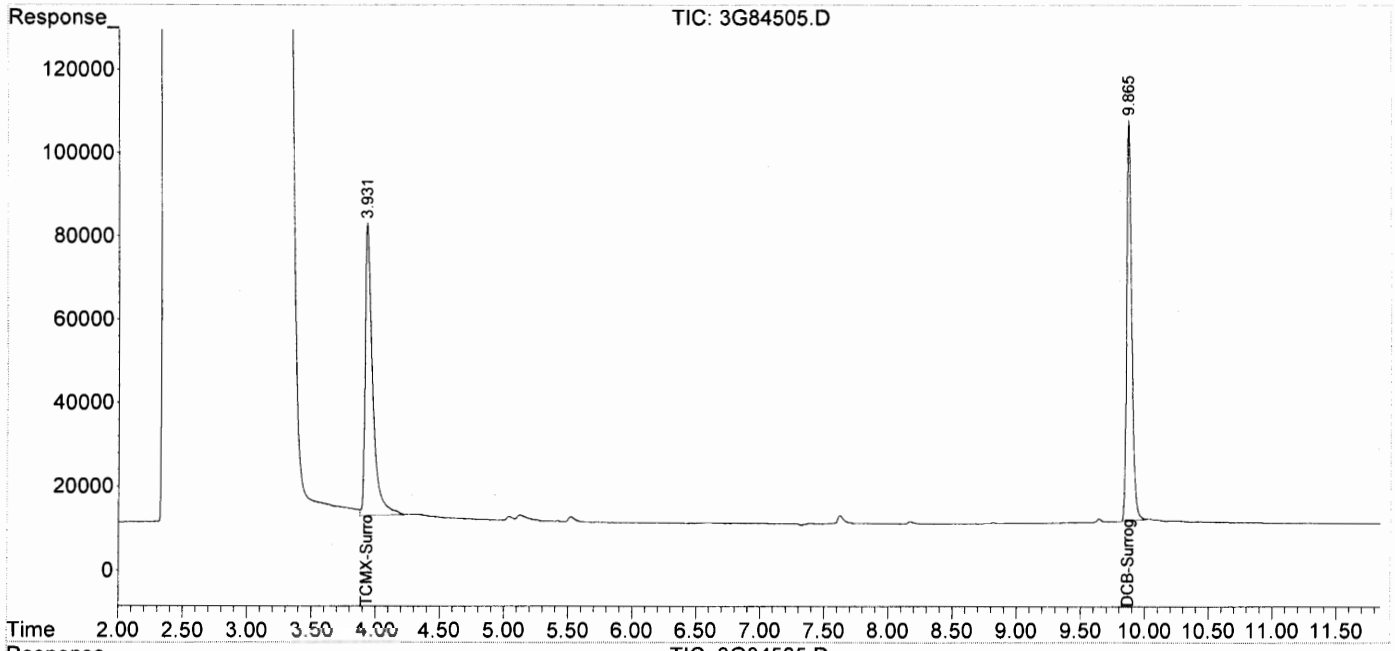
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.932	3.919	2816585	2911941	105.181	88.657
45)DCB-Surrogate	9.866	10.637	2597729	3722417	108.646	106.249

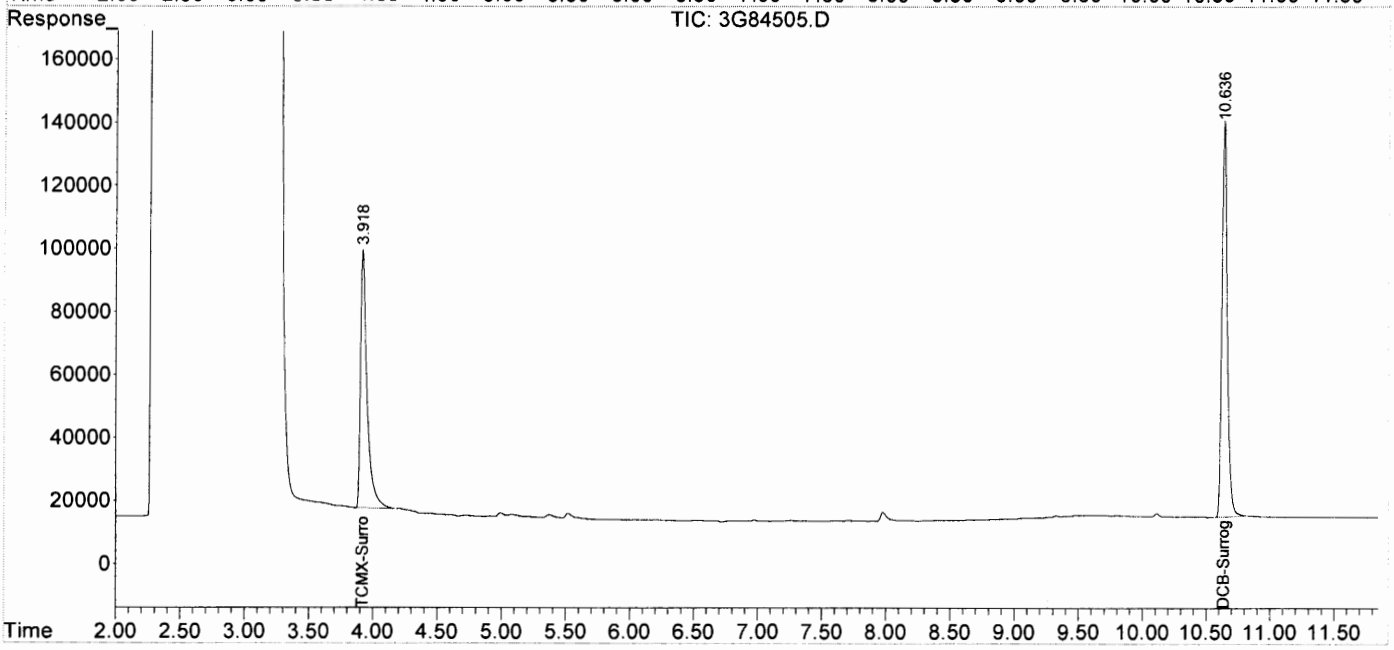
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84505.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 16:06
Operator : MLC/MAS
Sample : AC78787-005
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 12:20:37 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-007
Client Id: EXT 2(0-2')
Data File: 2G90217.D
Analysis Date: 05/30/14 11:55
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.030	U	11097-69-1	Aroclor-1254	0.030	U
11104-28-2	Aroclor-1221	0.030	U	11096-82-5	Aroclor-1260	0.030	U
11141-16-5	Aroclor-1232	0.030	U	37324-23-5	Aroclor-1262	0.030	U
53469-21-9	Aroclor-1242	0.030	U	11100-14-4	Aroclor-1268	0.030	U
12672-29-6	Aroclor-1248	0.030	U	1336-36-3	Aroclor (Total)	0.030	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0958

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90217.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 11:55
Operator : MAS
Sample : AC78787-007
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:43:15 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.914	3.992	397254	182736	55.093m	53.814
45)DCB-Surrogate	10.186	10.996	470230	286916	71.257m	77.323m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

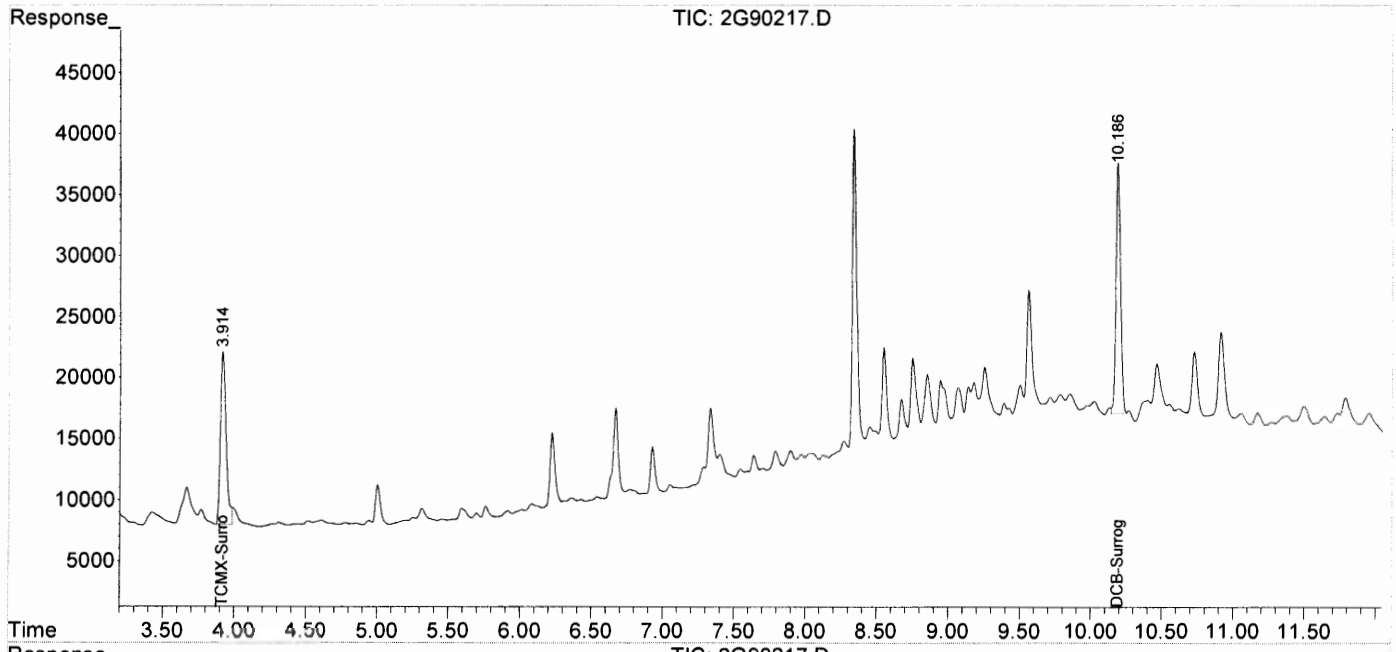
Quantitation Report (QT Reviewed)

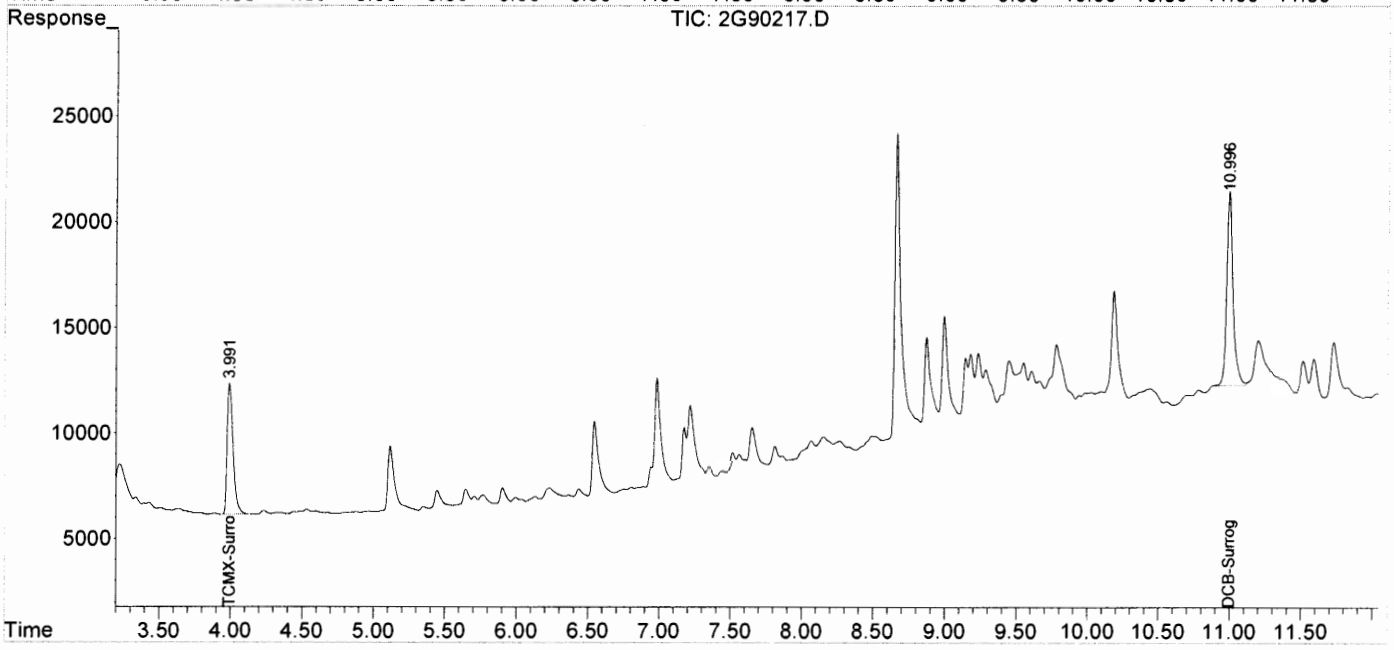
4052101 0959

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90217.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 11:55
Operator : MAS
Sample : AC78787-007
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:43:15 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-008
Client Id: EXT 2(15-17')
Data File: 3G84591.D
Analysis Date: 05/29/14 16:38
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.026	U	11097-69-1	Aroclor-1254	0.026	U
11104-28-2	Aroclor-1221	0.026	U	11096-82-5	Aroclor-1260	0.026	U
11141-16-5	Aroclor-1232	0.026	U	37324-23-5	Aroclor-1262	0.026	U
53469-21-9	Aroclor-1242	0.026	U	11100-14-4	Aroclor-1268	0.026	U
12672-29-6	Aroclor-1248	0.026	U	1336-36-3	Aroclor (Total)	0.026	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0961

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84591.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 16:38
Operator : MLC/MAS
Sample : AC78787-008
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:48:09 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.920	3.910	3132488	3188100	117.404	97.251
45)DCB-Surrogate	9.863	10.637	2628283	3490894	109.978	99.469

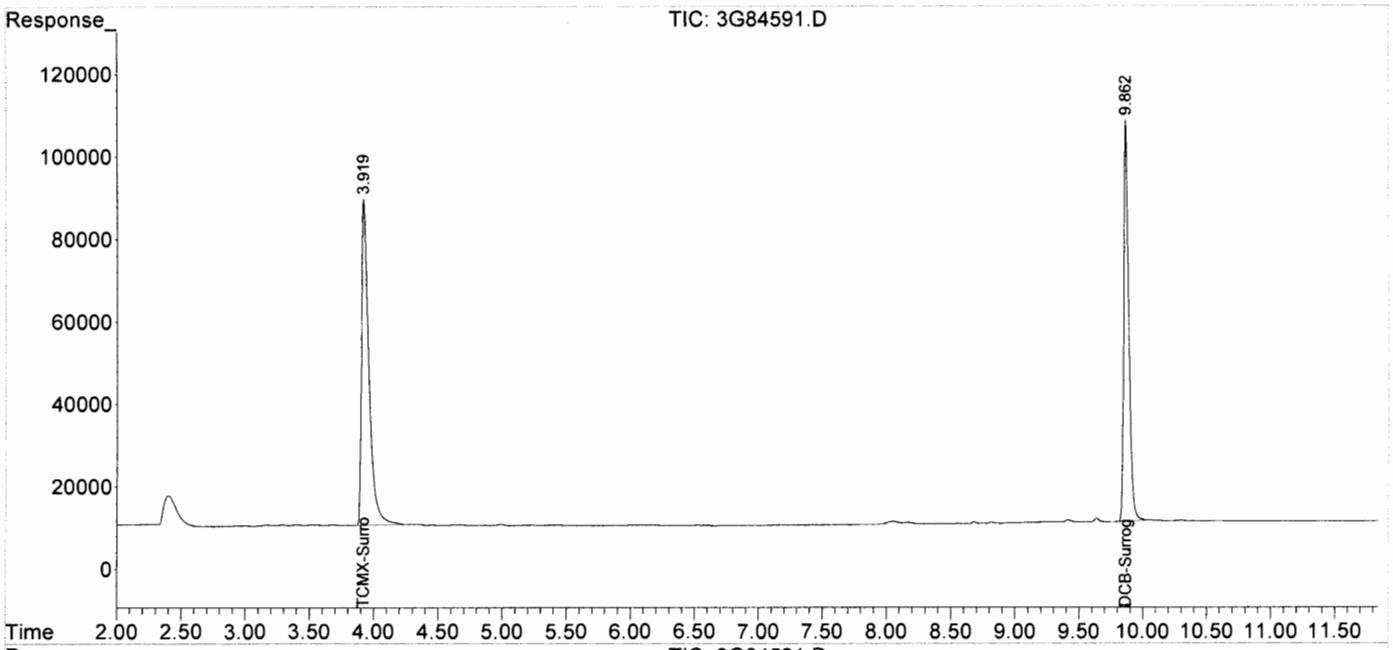
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

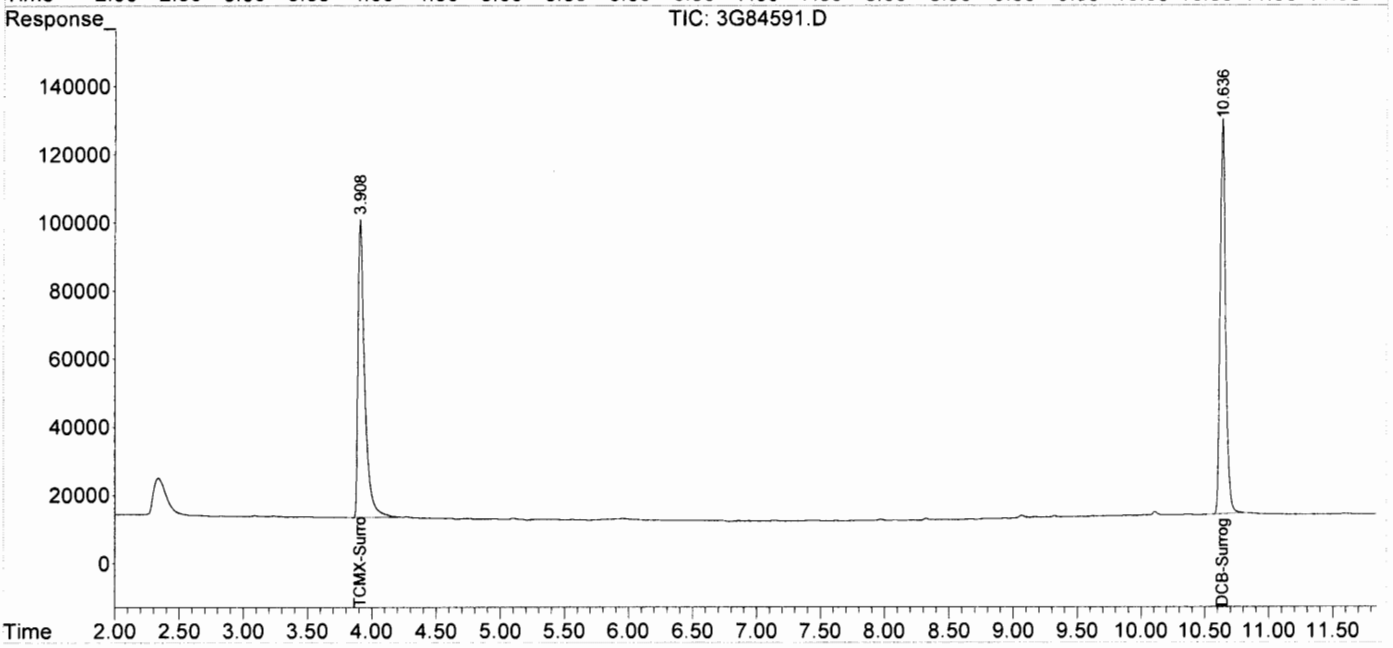
15

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84591.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 16:38
Operator : MLC/MAS
Sample : AC78787-008
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:48:09 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-009
Client Id: DUP052014 U
Data File: 3G84506.D
Analysis Date: 05/23/14 16:21
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0964

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84506.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 16:21
Operator : MLC/MAS
Sample : AC78787-009
Misc : A,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 08:57:38 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.934	3.921	2076549	2311861	76.901	70.098
45)DCB-Surrogate	9.862	10.635	2509038	3587577	104.788	102.297

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

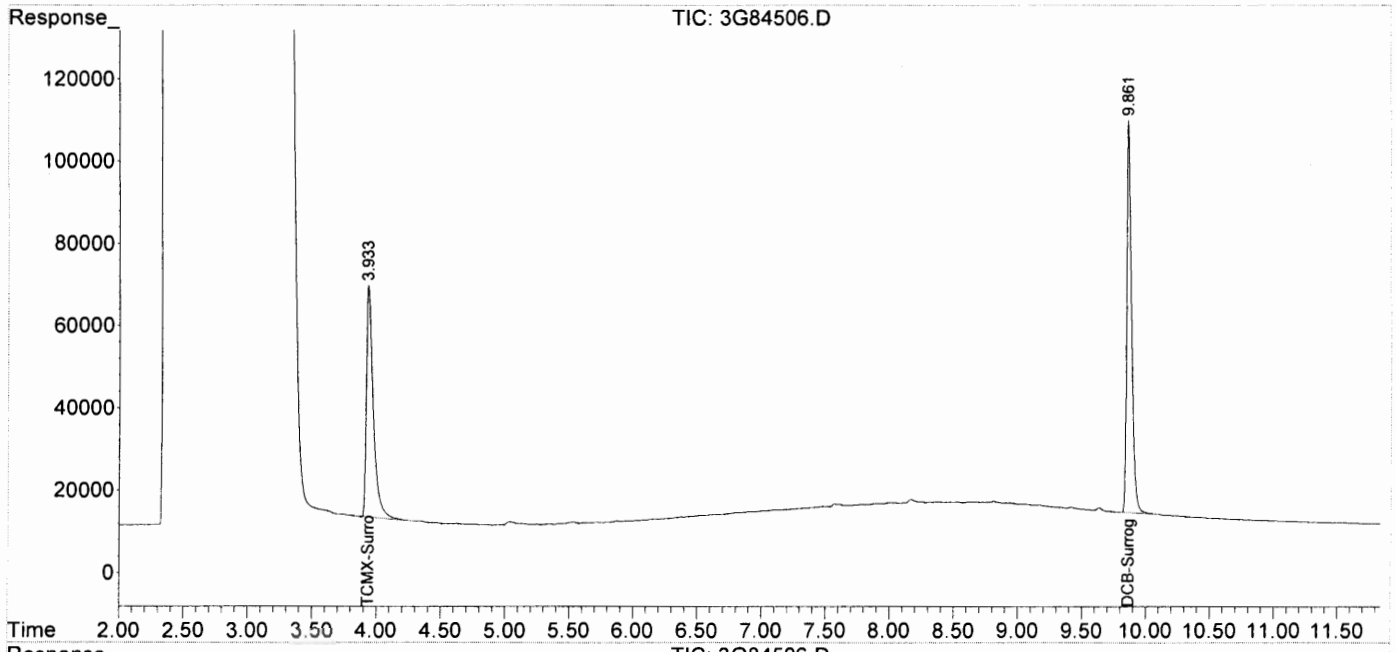
Quantitation Report (QT Reviewed)

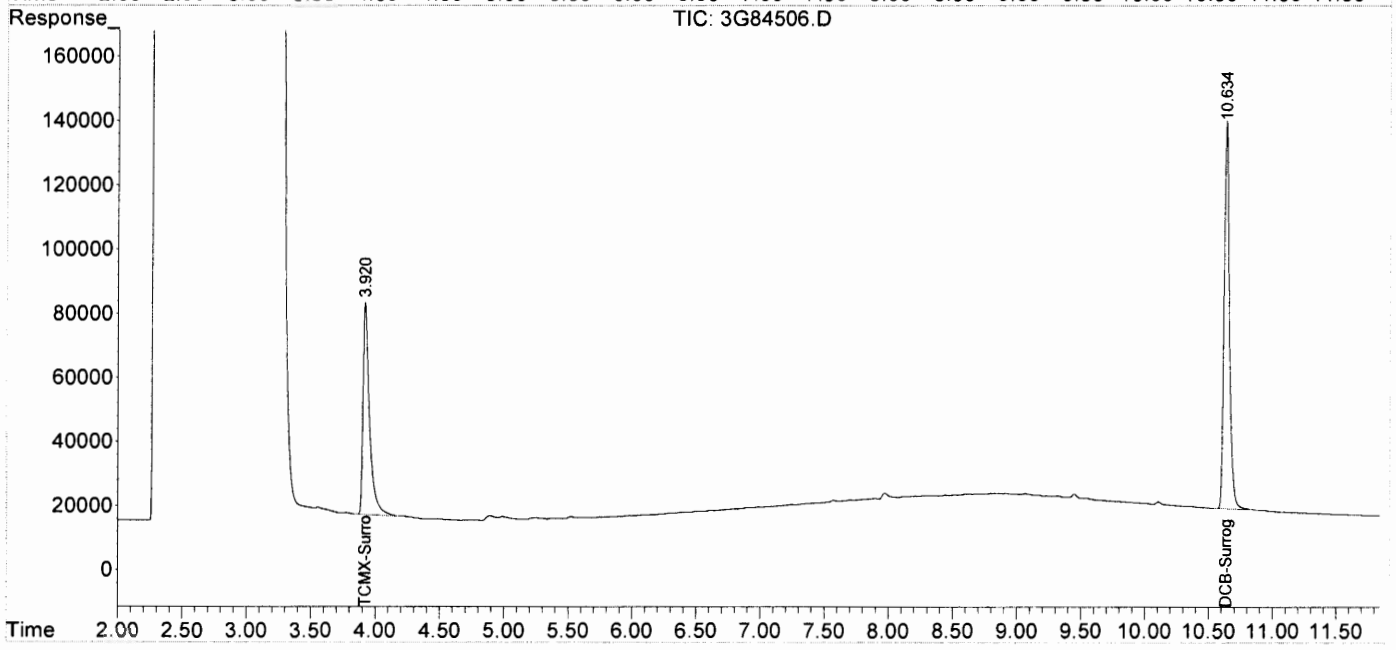
4052101 0965

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84506.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 16:21
Operator : MLC/MAS
Sample : AC78787-009
Misc : A,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 08:57:38 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-011
Client Id: EXT 2 U
Data File: 3G84507.D
Analysis Date: 05/23/14 16:37
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0967

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84507.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 16:37
Operator : MLC/MAS
Sample : AC78787-011
Misc : A,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 12:21:00 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

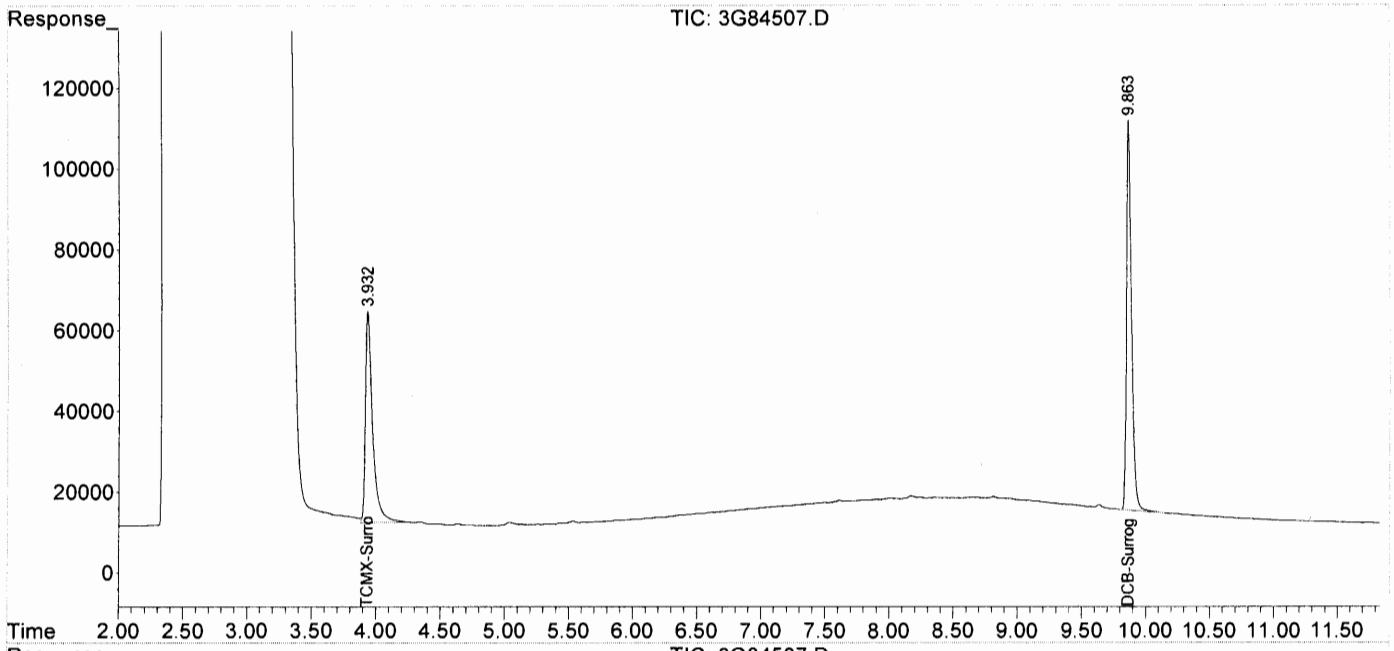
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.933	3.919	2040079	2104776	75.519	63.729
45)DCB-Surrogate	9.863	10.635	2610146	3716554	109.187	106.077

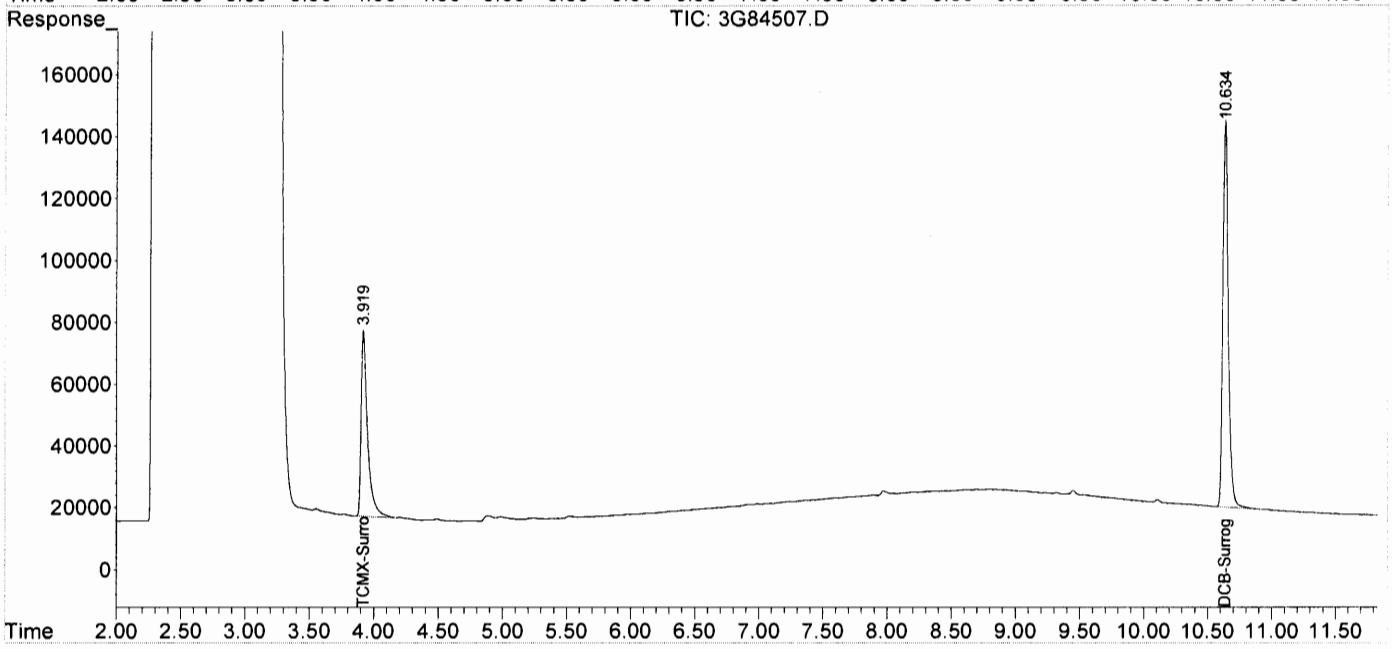
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84507.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 16:37
Operator : MLC/MAS
Sample : AC78787-011
Misc : A,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 12:21:00 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-014
Client Id: EXT 3(0-2')
Data File: 3G84592.D
Analysis Date: 05/29/14 16:53
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0970

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84592.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 16:53
Operator : MLC/MAS
Sample : AC78787-014
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 10:10:46 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

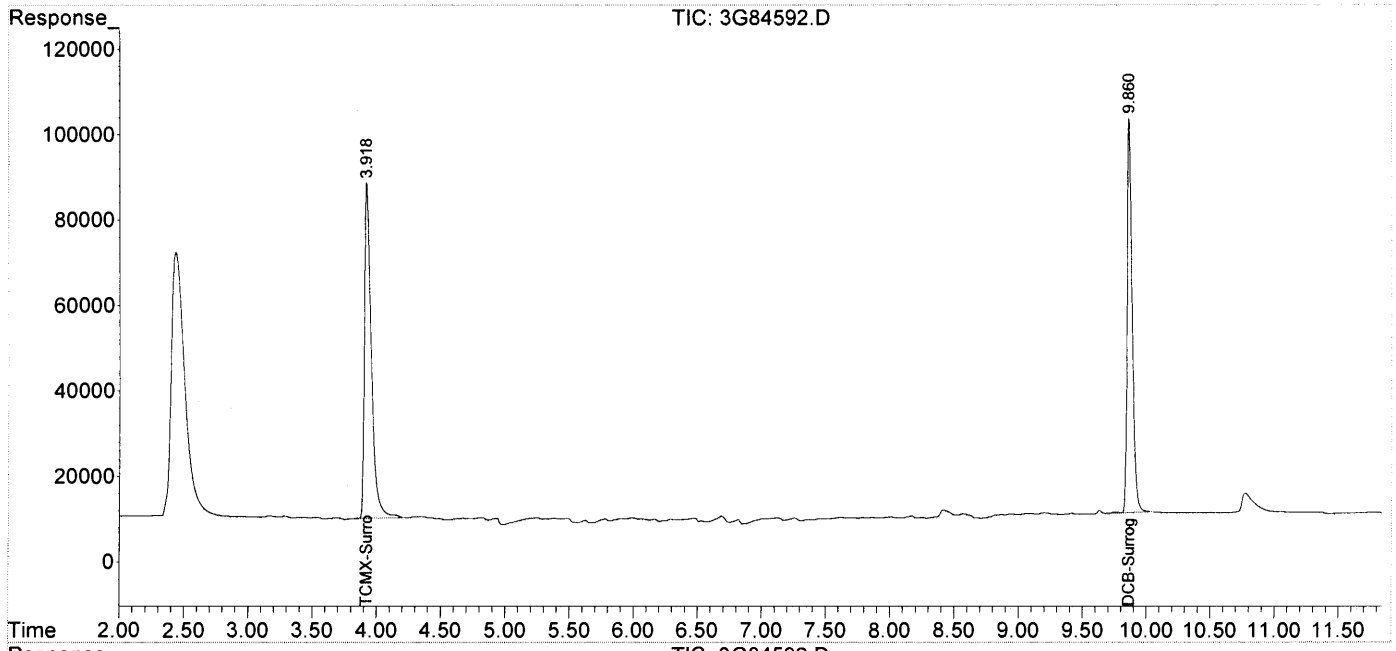
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.919	3.910	2938619	3099472	109.892	94.489
45)DCB-Surrogate	9.862	10.635	2538239	3347668	106.057	95.287

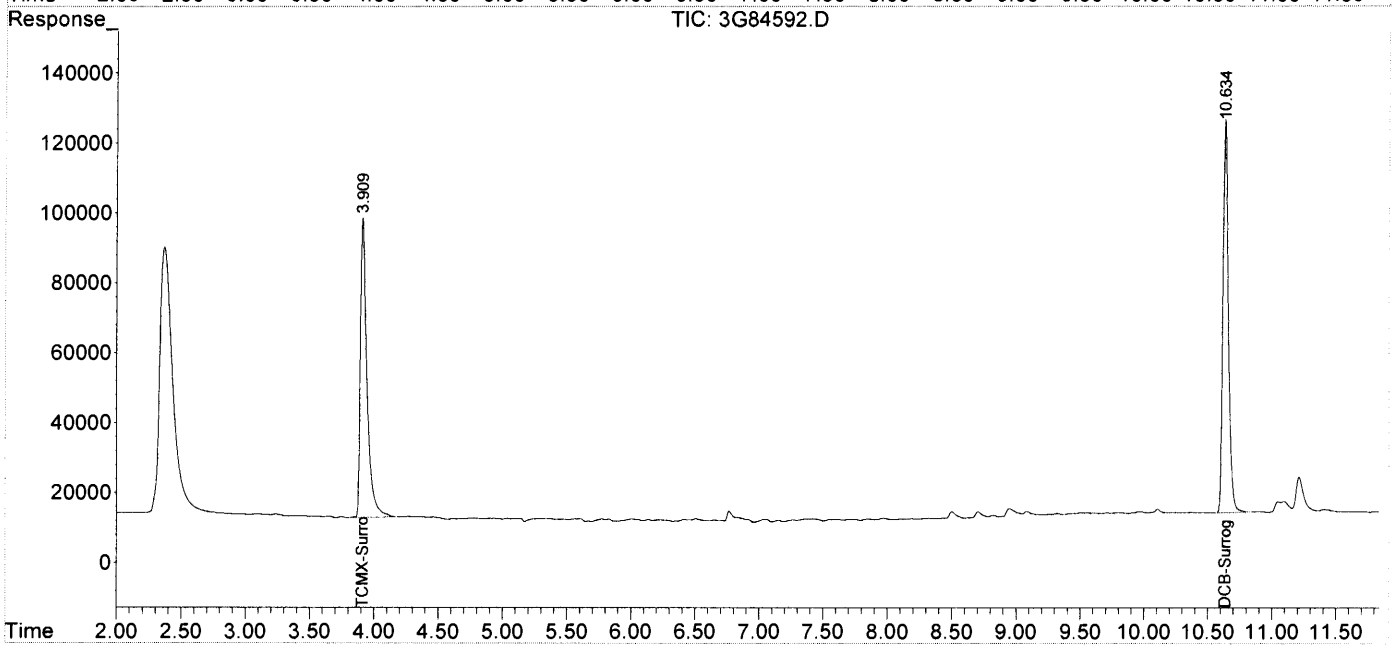
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84592.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 16:53
Operator : MLC/MAS
Sample : AC78787-014
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 10:10:46 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-015
Client Id: EXT 3(15-17')
Data File: 3G84593.D
Analysis Date: 05/29/14 17:08
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.028	U	11097-69-1	Aroclor-1254	0.028	U
11104-28-2	Aroclor-1221	0.028	U	11096-82-5	Aroclor-1260	0.028	U
11141-16-5	Aroclor-1232	0.028	U	37324-23-5	Aroclor-1262	0.028	U
53469-21-9	Aroclor-1242	0.028	U	11100-14-4	Aroclor-1268	0.028	U
12672-29-6	Aroclor-1248	0.028	U	1336-36-3	Aroclor (Total)	0.028	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0973

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84593.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 17:08
Operator : MLC/MAS
Sample : AC78787-015
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 10:10:58 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.919	3.910	2845512	3020449	106.297	92.030
45)DCB-Surrogate	9.862	10.635	2504720	3347255	104.600	95.275

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

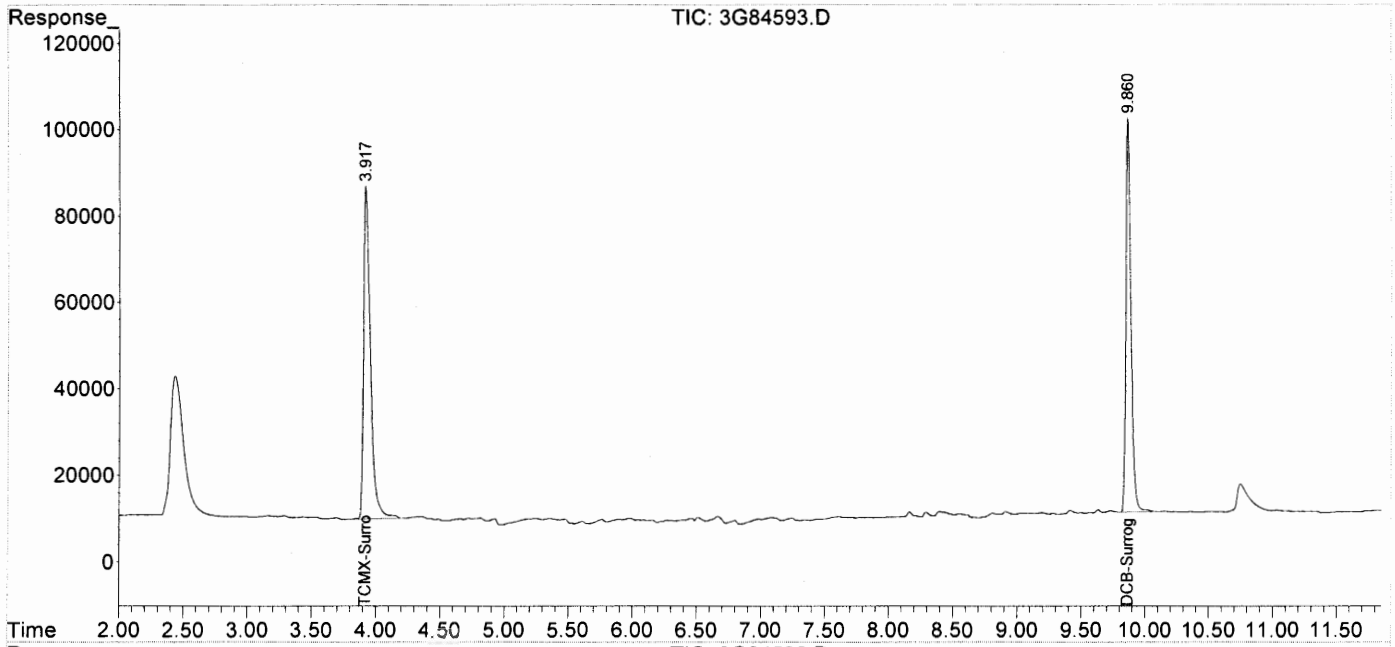
Quantitation Report (QT Reviewed)

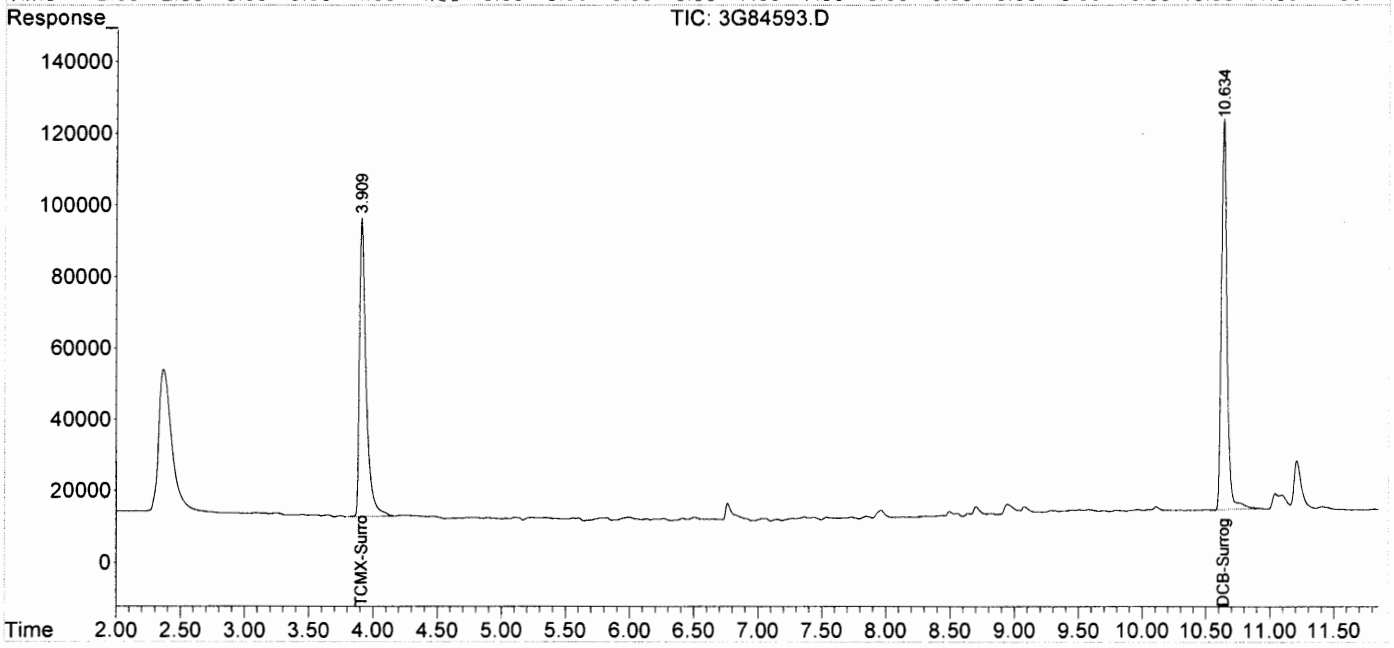
4052101 0974

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84593.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 17:08
Operator : MLC/MAS
Sample : AC78787-015
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 10:10:58 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-016
Client Id: EXT 3 U
Data File: 3G84508.D
Analysis Date: 05/23/14 16:52
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 900ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.28	U	11097-69-1	Aroclor-1254	0.28	U
11104-28-2	Aroclor-1221	0.28	U	11096-82-5	Aroclor-1260	0.28	U
11141-16-5	Aroclor-1232	0.28	U	37324-23-5	Aroclor-1262	0.28	U
53469-21-9	Aroclor-1242	0.28	U	11100-14-4	Aroclor-1268	0.28	U
12672-29-6	Aroclor-1248	0.28	U	1336-36-3	Aroclor (Total)	0.28	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0976

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84508.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 16:52
Operator : MLC/MAS
Sample : AC78787-016
Misc : A,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 08:57:43 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.920	3.923	1957564	2131354	72.398	64.546
45)DCB-Surrogate	9.865	10.637	2475904	3459161	103.350	98.541

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

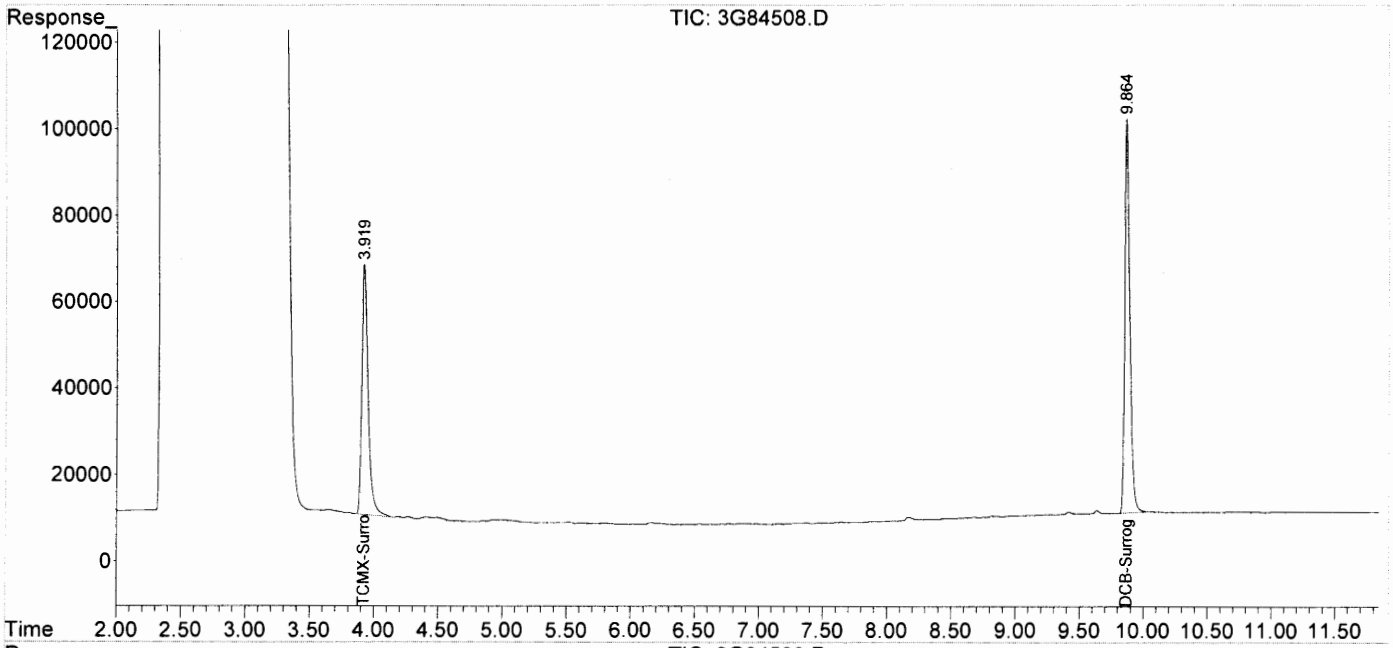
Quantitation Report (QT Reviewed)

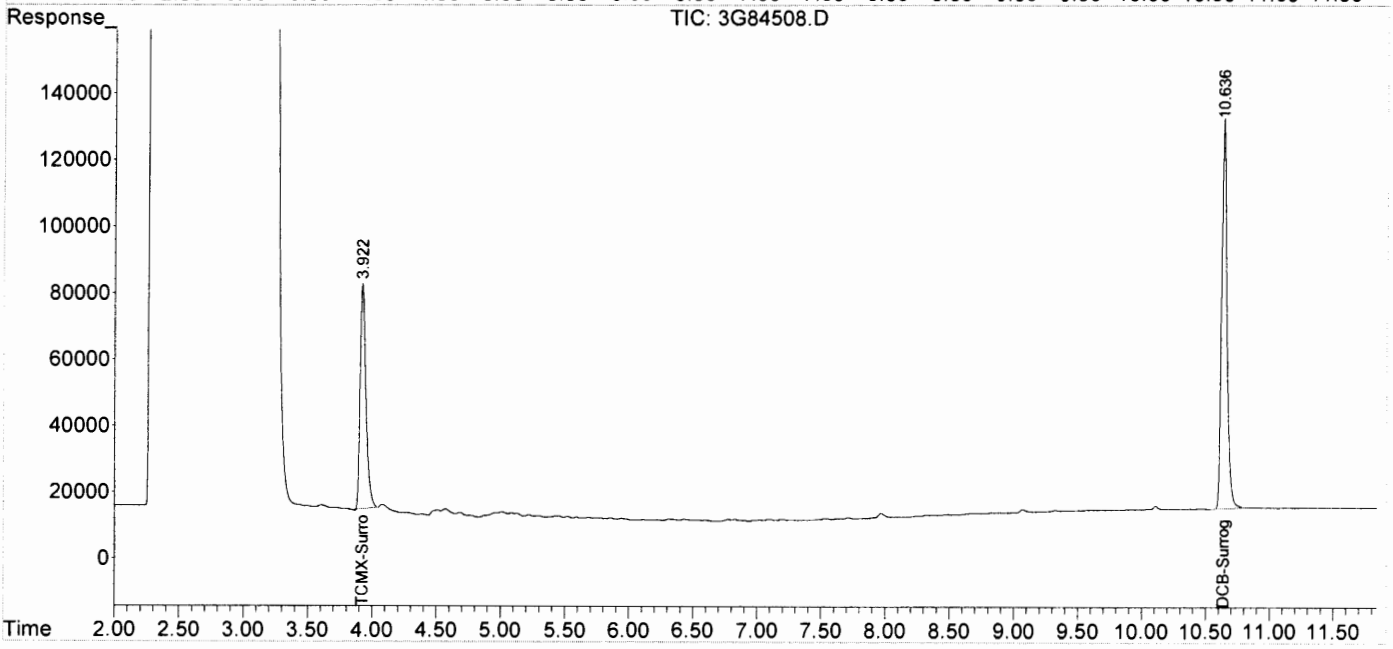
4052101 0977

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84508.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 16:52
Operator : MLC/MAS
Sample : AC78787-016
Misc : A,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 08:57:43 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-018
Client Id: EXT 3(27-29')
Data File: 3G84594.D
Analysis Date: 05/29/14 17:24
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.029	U	11097-69-1	Aroclor-1254	0.029	U
11104-28-2	Aroclor-1221	0.029	U	11096-82-5	Aroclor-1260	0.029	U
11141-16-5	Aroclor-1232	0.029	U	37324-23-5	Aroclor-1262	0.029	U
53469-21-9	Aroclor-1242	0.029	U	11100-14-4	Aroclor-1268	0.029	U
12672-29-6	Aroclor-1248	0.029	U	1336-36-3	Aroclor (Total)	0.029	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0979

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84594.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 17:24
Operator : MLC/MAS
Sample : AC78787-018
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:48:14 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.914	3.909	2196857	2351391	81.465	71.316
45)DCB-Surrogate	9.863	10.636	2579824	3535061	107.866	100.760

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

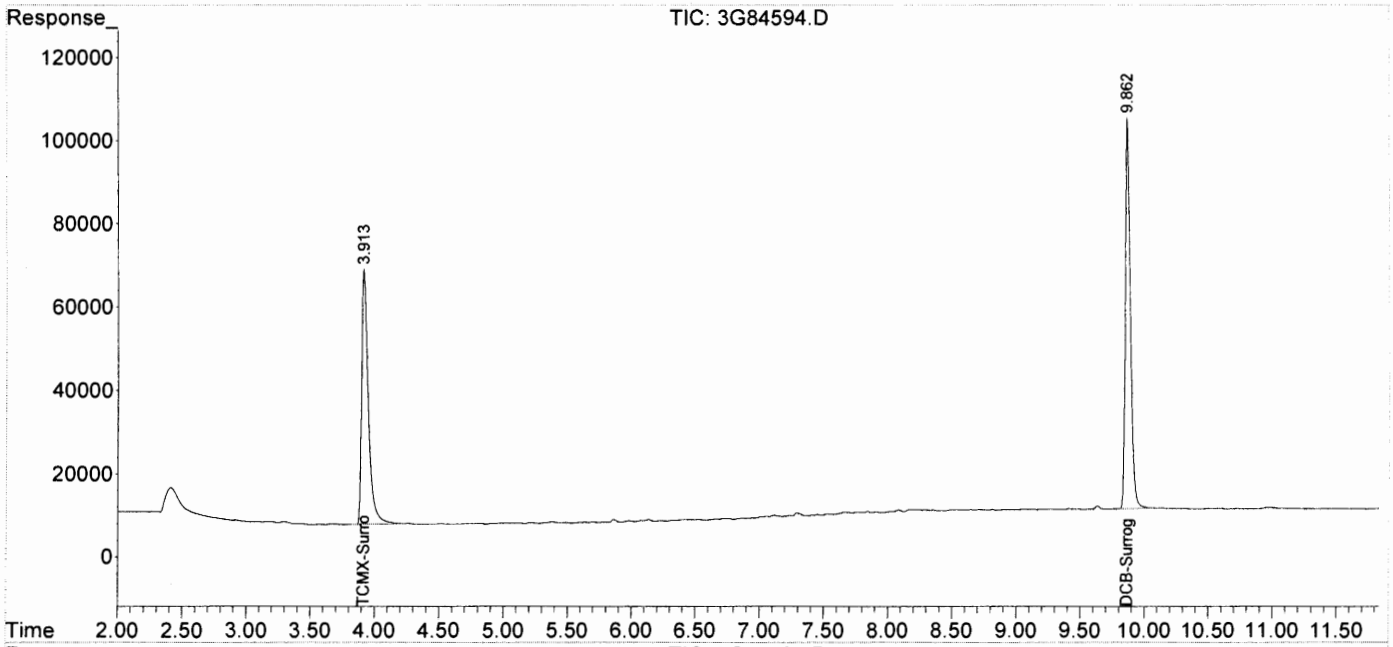
Quantitation Report (QT Reviewed)

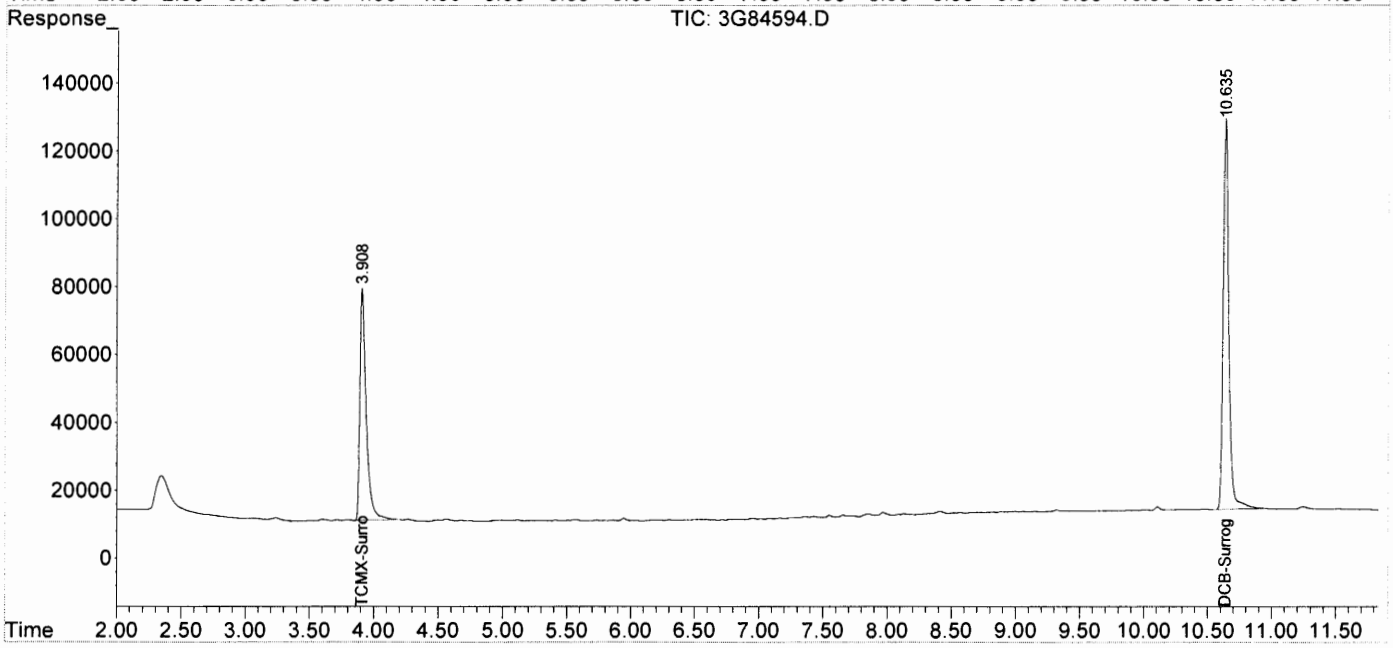
4052101 0980

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84594.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 17:24
Operator : MLC/MAS
Sample : AC78787-018
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:48:14 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-019
Client Id: SUMP1(0-2')
Data File: 3G84635.D
Analysis Date: 06/02/14 15:31
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304509

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\06-02-14\
Data File : 3G84635.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Jun 2014 15:31
Operator : MLC/MAS
Sample : AC78787-019
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Jun 02 15:55:03 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

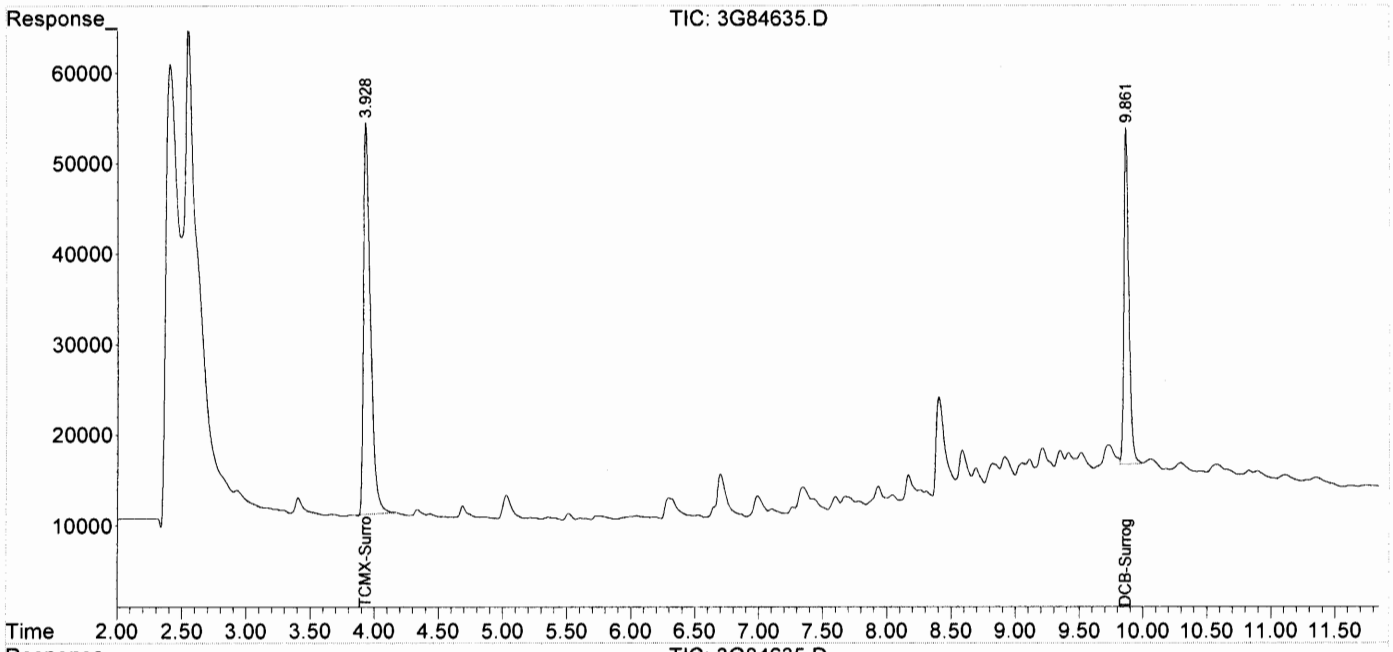
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.929	3.919	1628929	1742016	60.026	52.616
45)DCB-Surrogate	9.861	10.638	997697	1357464	40.710m	38.086

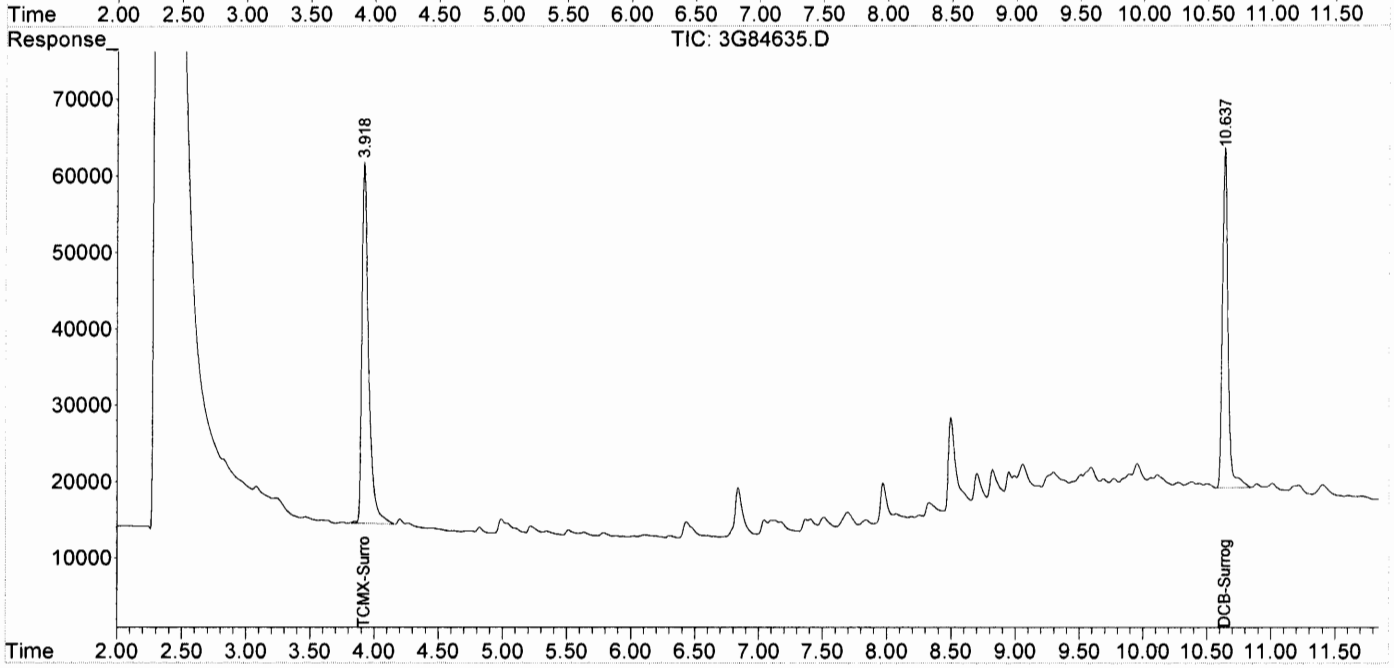
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\06-02-14\
Data File : 3G84635.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Jun 2014 15:31
Operator : MLC/MAS
Sample : AC78787-019
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Jun 02 15:55:03 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-020
Client Id: SUMP1(3-5')
Data File: 3G84605.D
Analysis Date: 05/30/14 10:37
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 94

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 0985

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84605.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 10:37
Operator : MLC/MAS
Sample : AC78787-020
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:48:21 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.924	3.912	2322926	2631681	86.262	79.970m
45)DCB-Surrogate	9.864	10.636	2030795	2800887	84.178	79.404

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

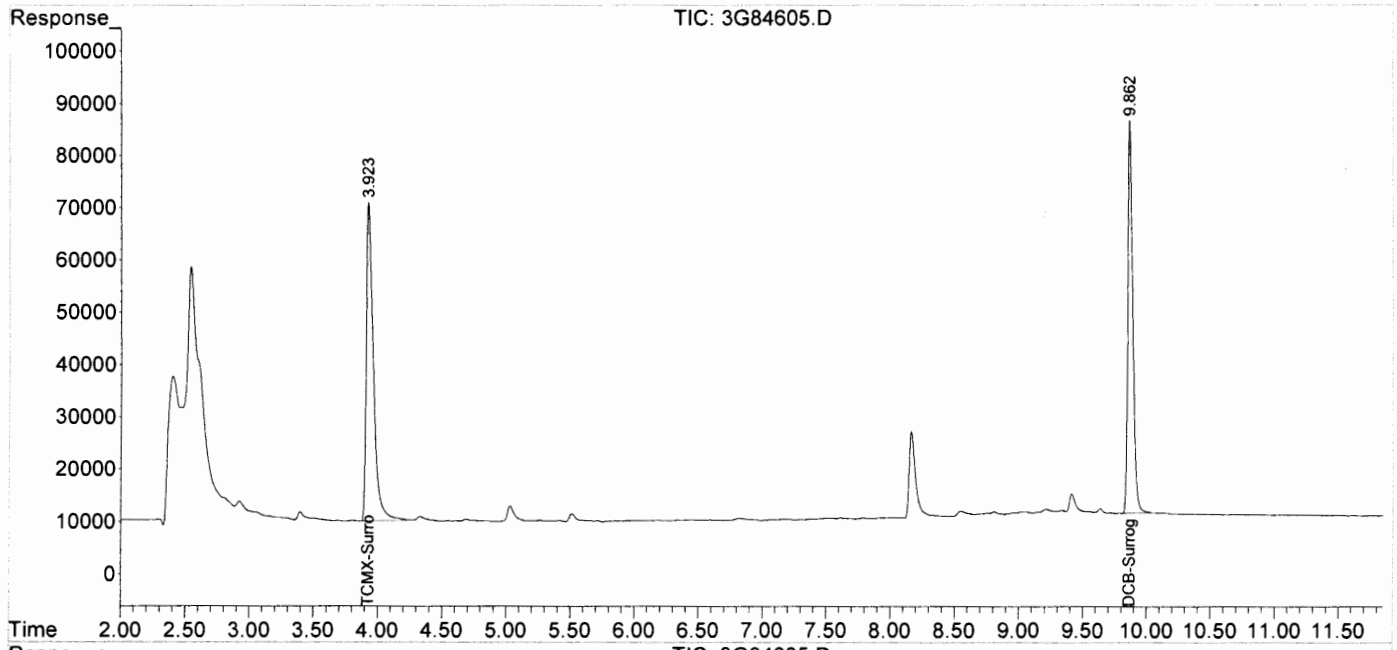
Quantitation Report (QT Reviewed)

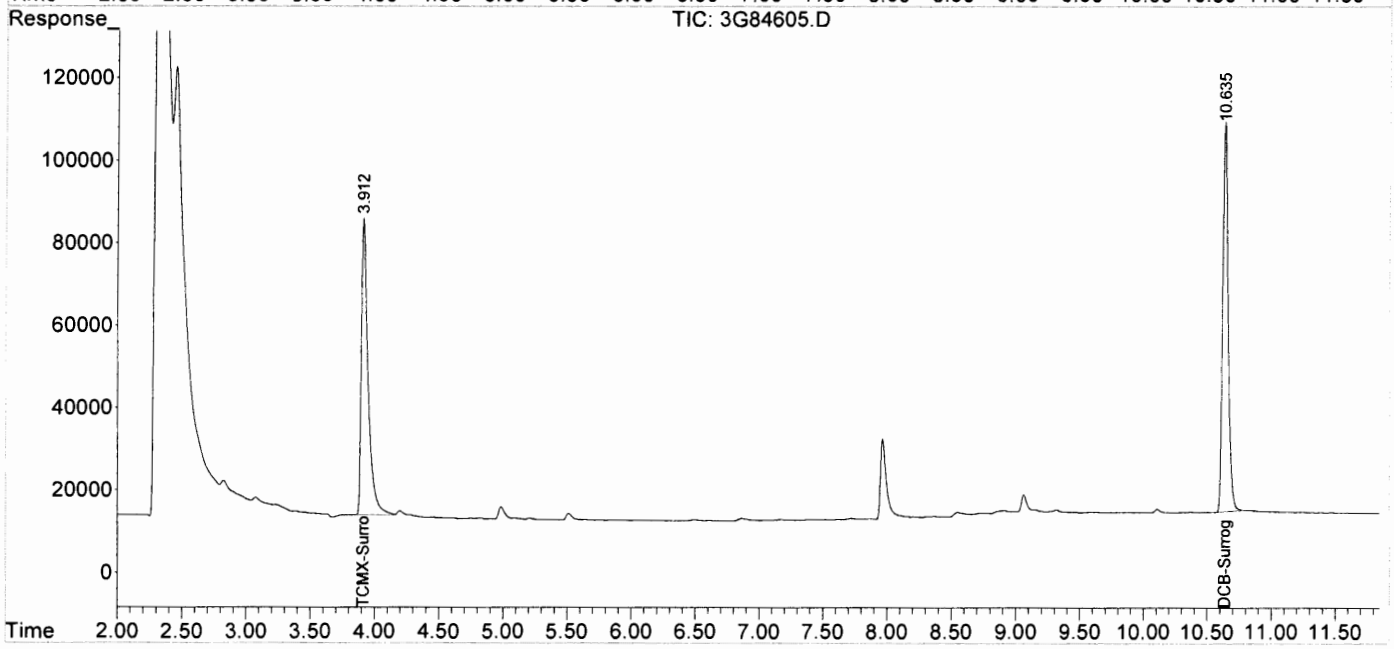
4052101 0986

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84605.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 10:37
Operator : MLC/MAS
Sample : AC78787-020
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:48:21 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-021
Client Id: BASE 1(0-2')
Data File: 2G90215.D
Analysis Date: 05/30/14 11:25
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.028	U	11097-69-1	Aroclor-1254	0.028	U
11104-28-2	Aroclor-1221	0.028	U	11096-82-5	Aroclor-1260	0.028	U
11141-16-5	Aroclor-1232	0.028	U	37324-23-5	Aroclor-1262	0.028	U
53469-21-9	Aroclor-1242	0.028	U	11100-14-4	Aroclor-1268	0.028	U
12672-29-6	Aroclor-1248	0.028	U	1336-36-3	Aroclor (Total)	0.028	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 0988

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90215.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 11:25
Operator : MAS
Sample : AC78787-021
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:42:18 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

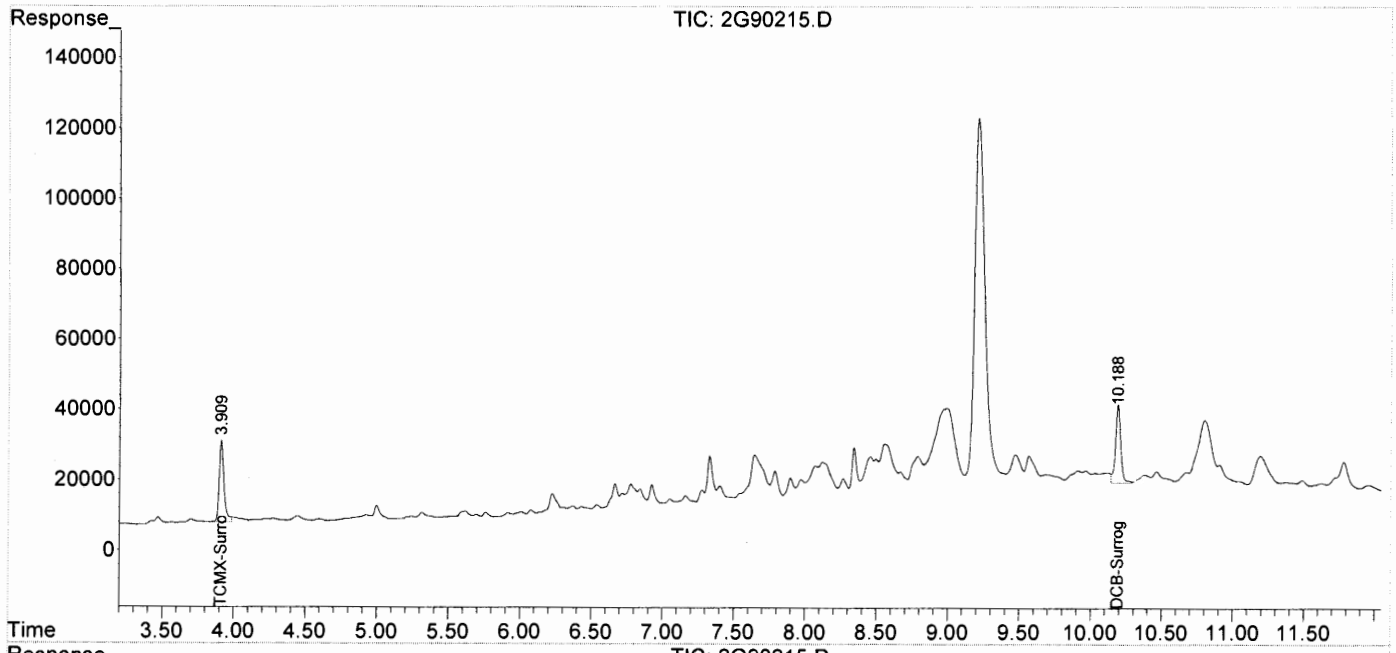
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.909	3.985	542877	232190	75.289m	68.378m
45)DCB-Surrogate	10.188	10.997	576325	598834	88.111m	165.610m#

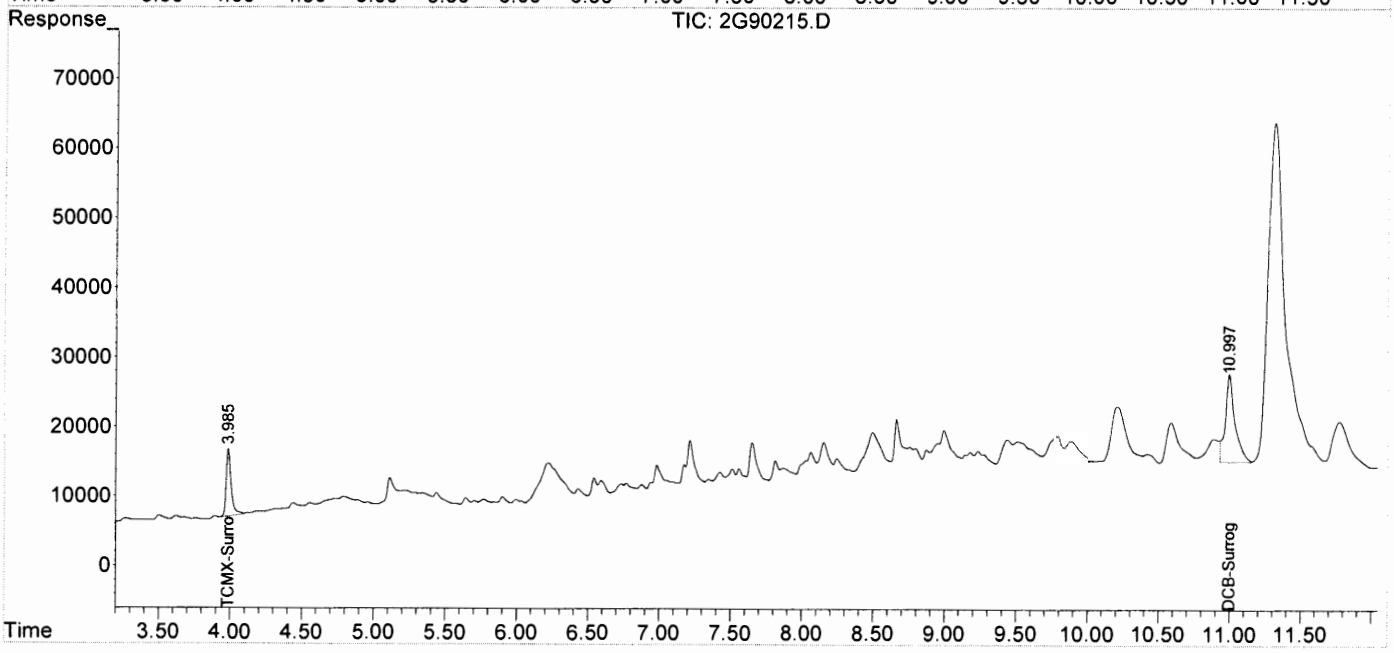
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90215.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 11:25
Operator : MAS
Sample : AC78787-021
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:42:18 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-022
Client Id: BASE 1(3-5')
Data File: 2G90216.D
Analysis Date: 05/30/14 11:40
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 0991

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90216.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 11:40
Operator : MAS
Sample : AC78787-022
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:42:44 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

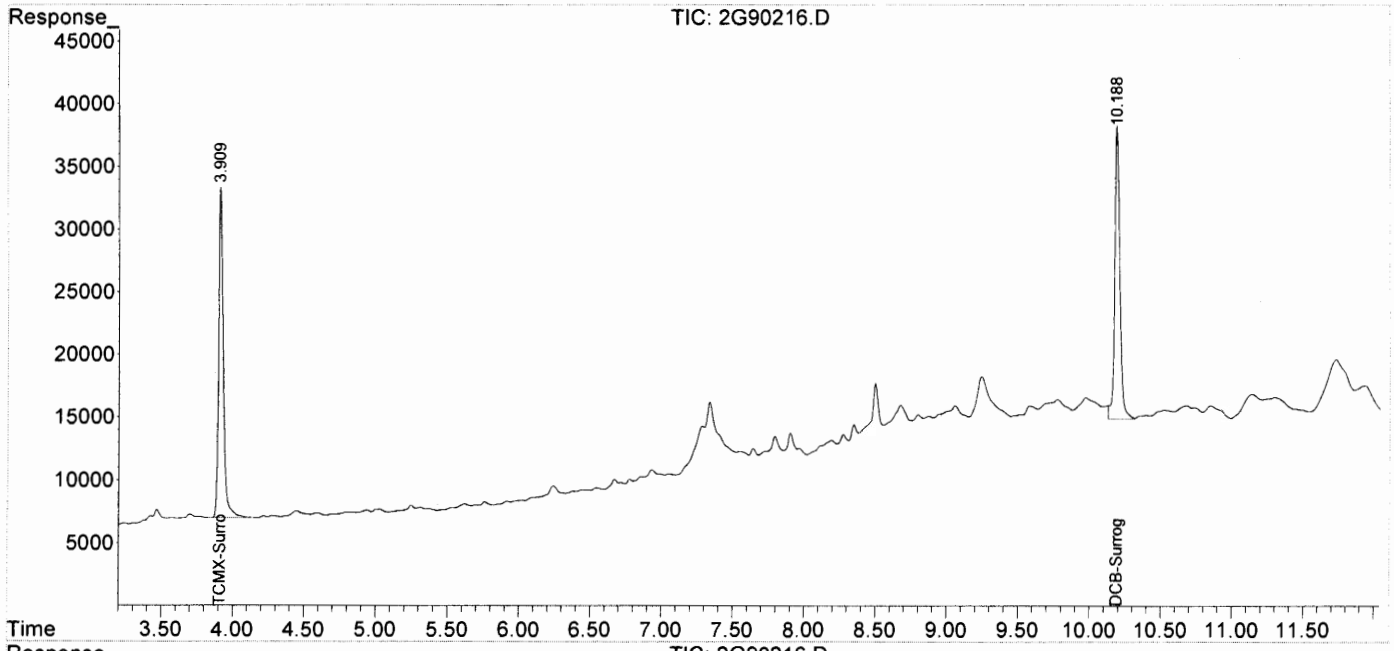
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.910	3.986	595236	262927	82.550	77.429
45)DCB-Surrogate	10.188	10.996	580208	282228	88.734m	76.031m

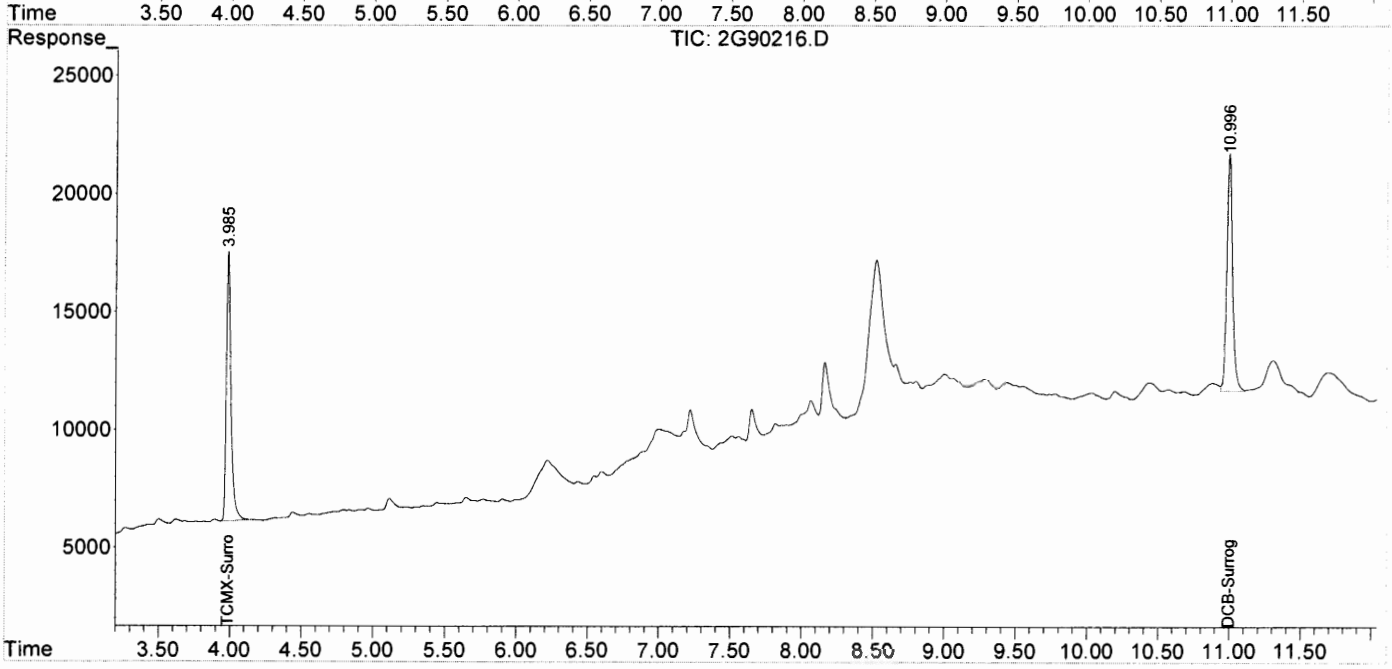
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90216.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 11:40
Operator : MAS
Sample : AC78787-022
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:42:44 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-023
Client Id: BASE 2 (0-2')
Data File: 3G84606.D
Analysis Date: 05/30/14 10:52
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 0994

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84606.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 10:52
Operator : MLC/MAS
Sample : AC78787-023
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:48:43 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.925	3.913	2124288	2403498	78.710	72.922m
45)DCB-Surrogate	9.863	10.637	1946363	2687162	80.572	76.117

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

5

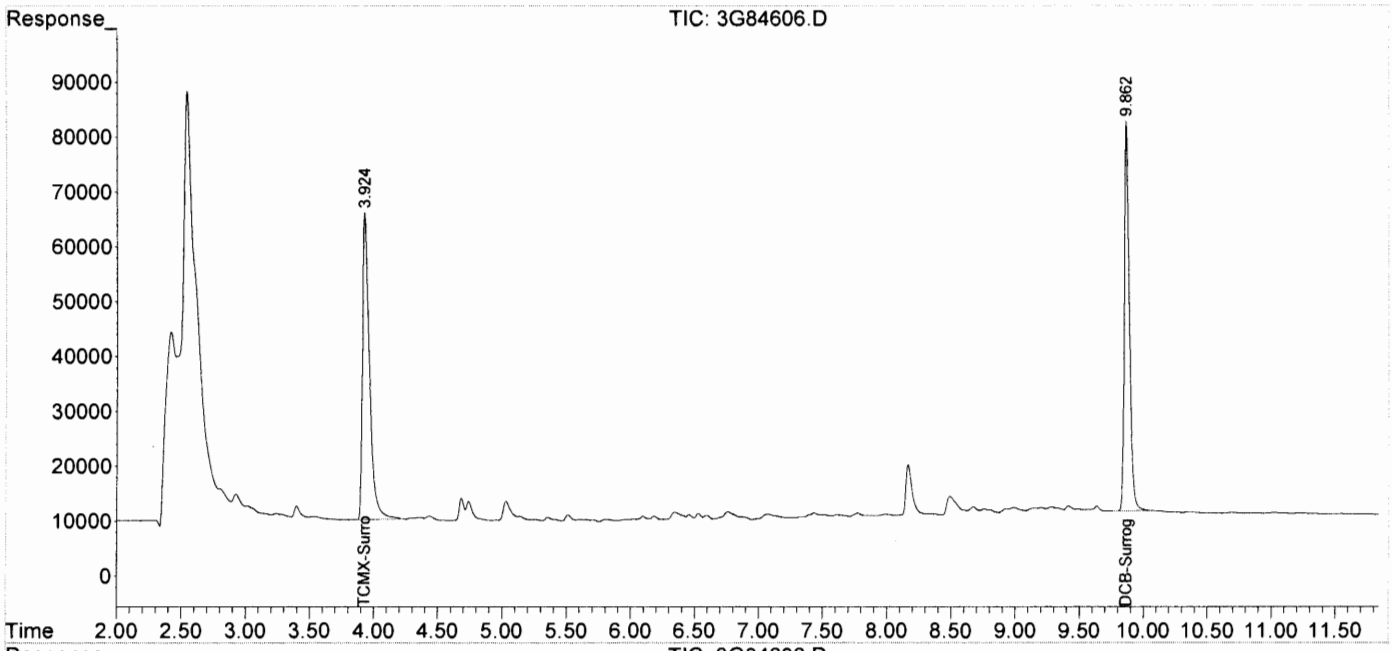
Quantitation Report (QT Reviewed)

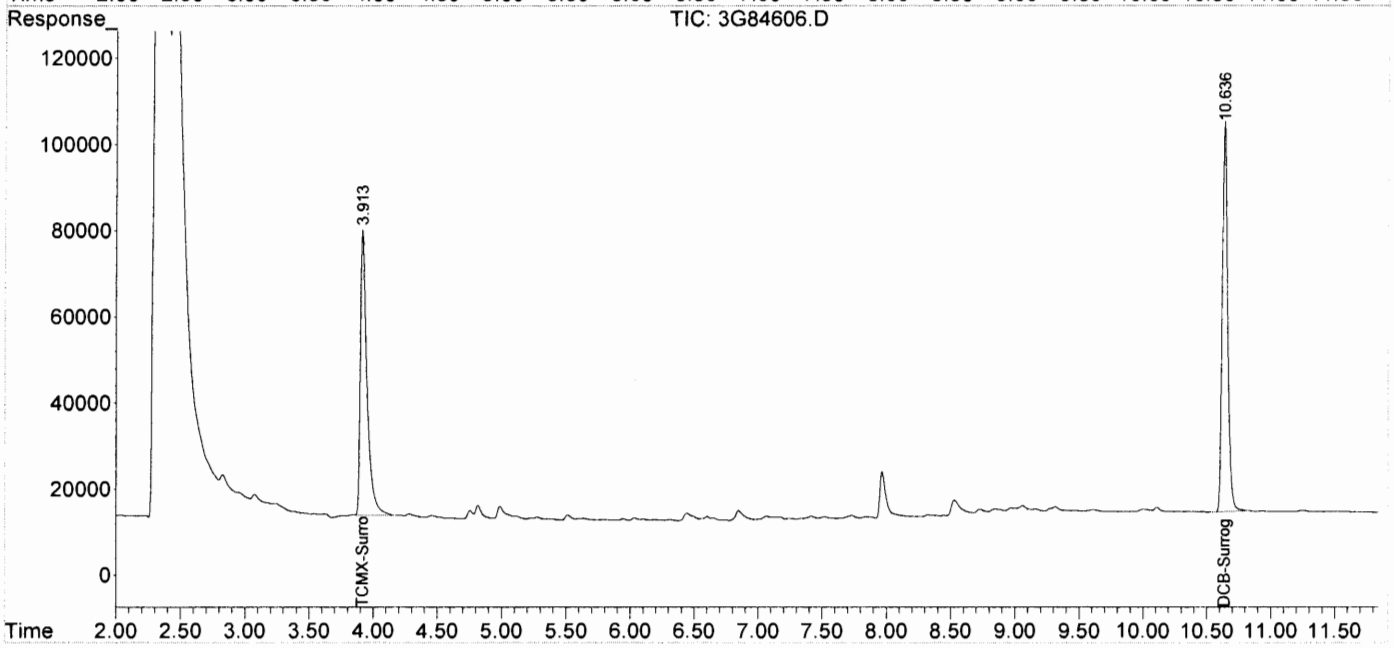
4052101 0995

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84606.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 10:52
Operator : MLC/MAS
Sample : AC78787-023
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:48:43 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-024
Client Id: BASE 2 (3-5')
Data File: 3G84607.D
Analysis Date: 05/30/14 11:07
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.026	U	11097-69-1	Aroclor-1254	0.026	U
11104-28-2	Aroclor-1221	0.026	U	11096-82-5	Aroclor-1260	0.026	U
11141-16-5	Aroclor-1232	0.026	U	37324-23-5	Aroclor-1262	0.026	U
53469-21-9	Aroclor-1242	0.026	U	11100-14-4	Aroclor-1268	0.026	U
12672-29-6	Aroclor-1248	0.026	U	1336-36-3	Aroclor (Total)	0.026	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 0997

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84607.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 11:07
Operator : MLC/MAS
Sample : AC78787-024
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:48:56 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

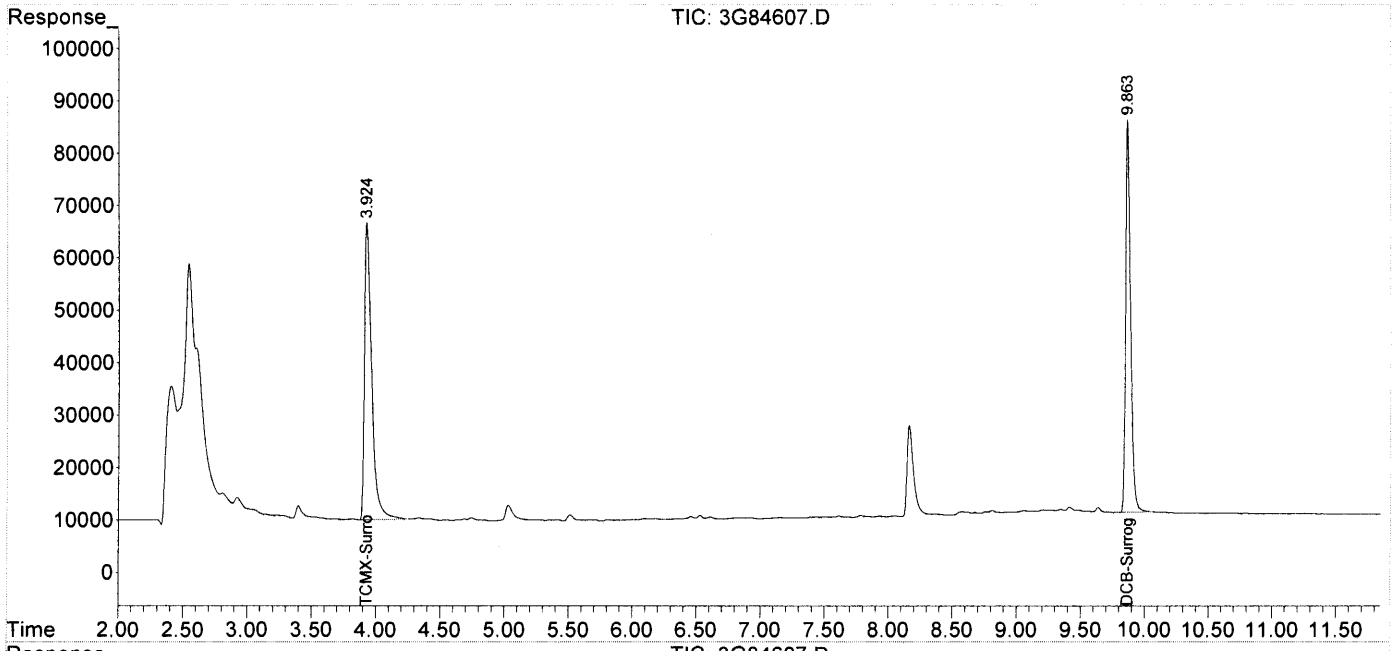
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.926	3.914	2214657	2483098	82.142	75.378
45)DCB-Surrogate	9.864	10.637	2042268	2808632	84.668	79.628

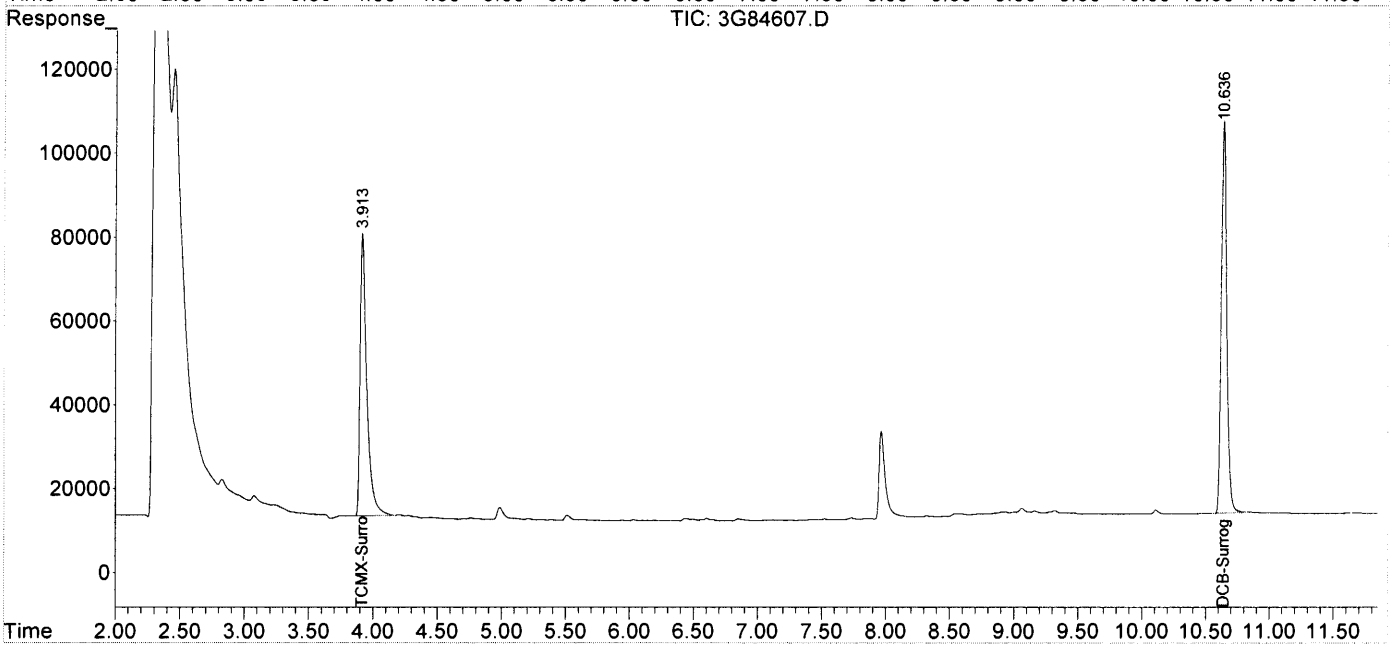
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84607.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 11:07
Operator : MLC/MAS
Sample : AC78787-024
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:48:56 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-025
Client Id: BASE 3 (0-2')
Data File: 3G84604.D
Analysis Date: 05/30/14 10:22
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 1000

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84604.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 10:22
Operator : MLC/MAS
Sample : AC78787-025
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:47:55 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.929	3.914	2468409	2751046	91.815	83.666m
45)DCB-Surrogate	9.871	10.639	2152653	2977714	89.399	84.526

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

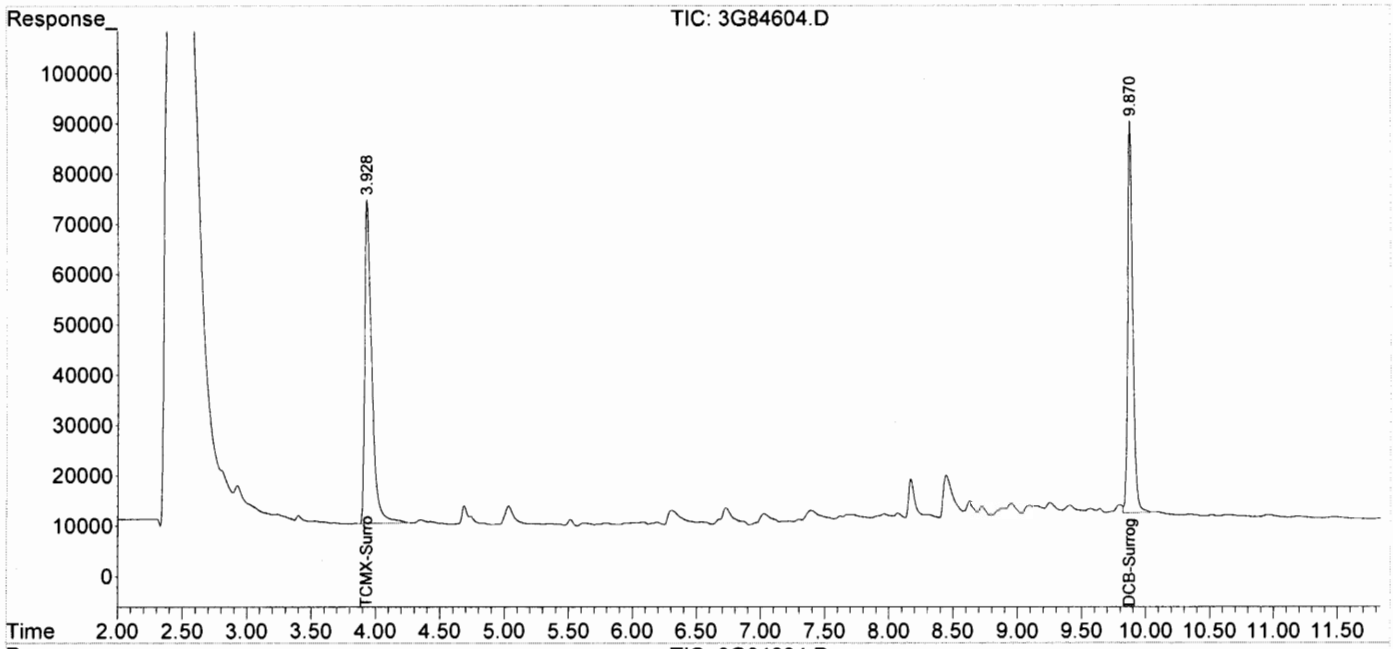
Quantitation Report (QT Reviewed)

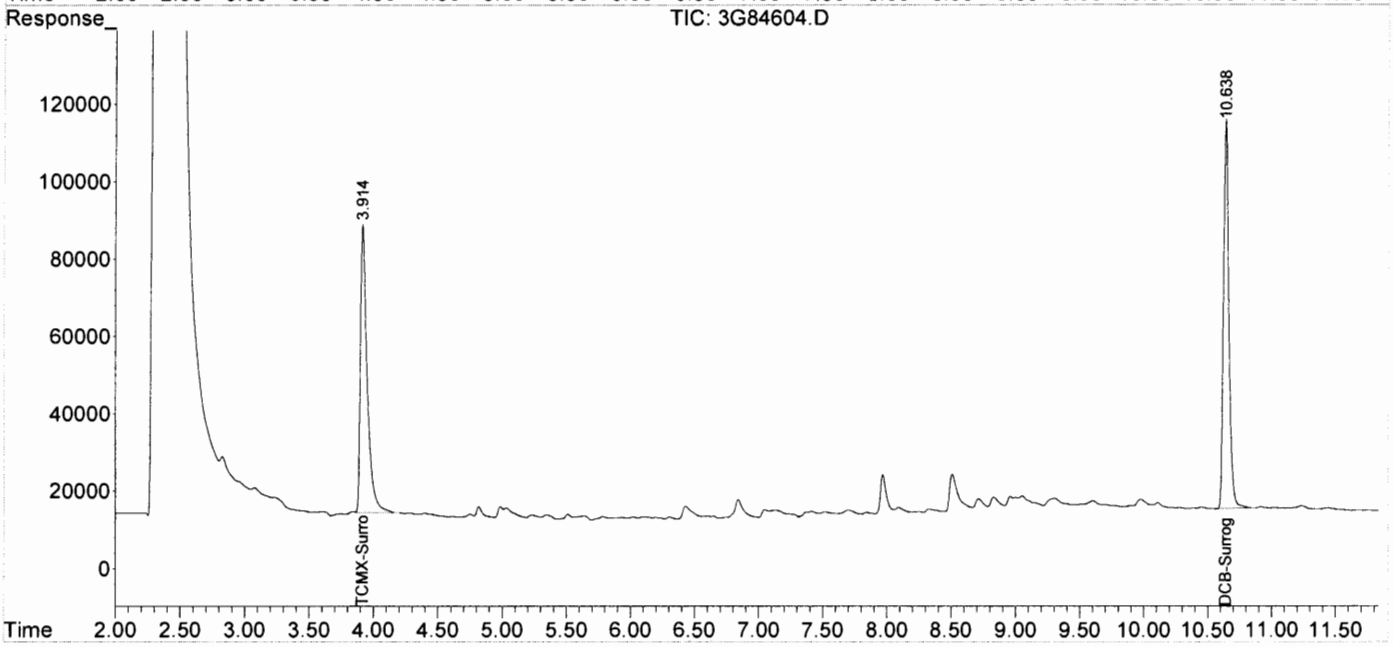
4052101 1001

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84604.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 10:22
Operator : MLC/MAS
Sample : AC78787-025
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:47:55 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: AC78787-026
Client Id: BASE 3 (3-5')
Data File: 3G84608.D
Analysis Date: 05/30/14 11:22
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 1003

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84608.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 11:22
Operator : MLC/MAS
Sample : AC78787-026
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:49:26 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.924	3.914	1981229	2199706	73.293	66.646
45)	DCB-Surrogate	9.862	10.636	1815215	2488385	74.991	70.384

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

7

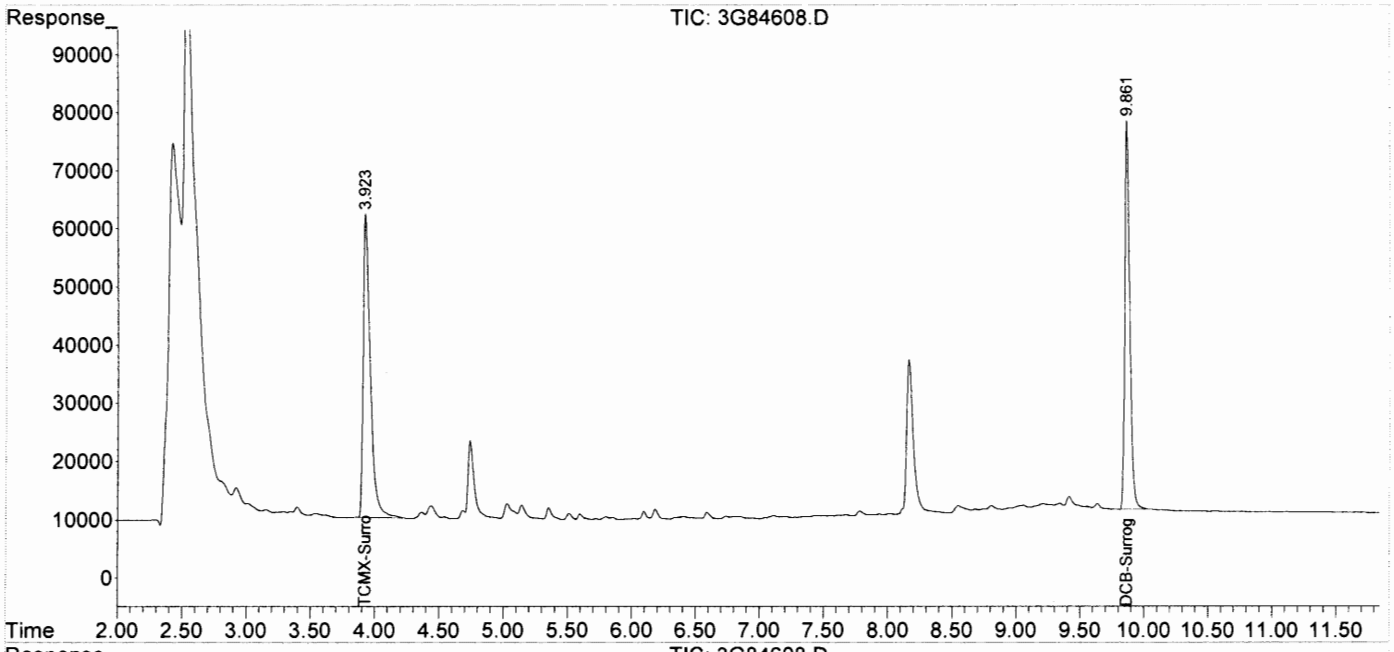
Quantitation Report (QT Reviewed)

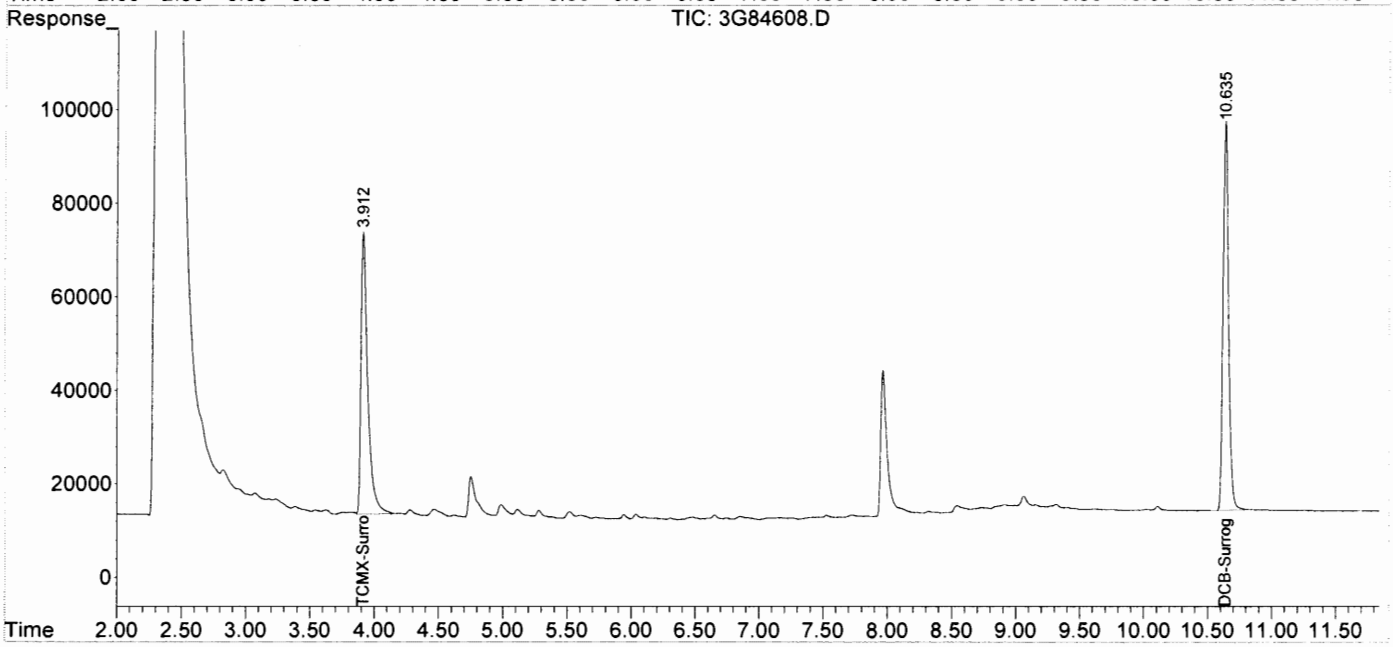
4052101 1004

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84608.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 11:22
Operator : MLC/MAS
Sample : AC78787-026
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:49:26 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





GC PCB Data
Standards Data

4052101 1006

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2G89565.	CAL 1660@50PPB	05/02/14 20:49	2	2G89566.	CAL 1660@200PPB	05/02/14 21:04
3	2G89567.	CAL 1660@500PPB	05/02/14 21:19	4	2G89568.	CAL 1660@1000PPB	05/02/14 21:34
5	2G89569.	CAL 1660@2000PPB	05/02/14 21:49	6	2G89570.	CAL 1660@4000PPB	05/02/14 22:05
7	2G89560.	CAL 3268@500PPB	05/02/14 19:33	8	2G89561.	CAL 1242@500PPB	05/02/14 19:48
9	2G89562.	CAL 1248@500PPB	05/02/14 20:03	10	2G89563.	CAL 2154@500PPB	05/02/14 20:19
11	2G89564.	CAL 1262@500PPB	05/02/14 20:34				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	0.7771	0.7445	0.7380	0.7279	0.6914	0.6471	----	----	0.721	3.92	0.998	1.00	6.3	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	1	1	Qua	0.0212	0.0194	0.0179	0.0169	0.0155	0.0140	----	----	0.0175	4.43	0.996	1.00	15	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	2	Qua	0.0435	0.0391	0.0349	0.0319	0.0284	0.0250	----	----	0.0339	4.79	0.994	1.00	20	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	3	Qua	0.0934	0.0808	0.0719	0.0656	0.0587	0.0522	----	----	0.0705	5.25	0.995	1.00	21	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	4	Qua	0.0266	0.0255	0.0236	0.0223	0.0206	0.0187	----	----	0.0229	5.50	0.997	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	5	Qua	0.0611	0.0563	0.0508	0.0469	0.0424	0.0377	----	----	0.0493	5.62	0.995	1.00	18	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	1	Qua	0.0585	0.0513	0.0455	0.0410	0.0362	0.0320	----	----	0.0441	7.13	0.994	1.00	22	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	2	Qua	0.0689	0.0600	0.0524	0.0473	0.0420	0.0371	----	----	0.0513	7.38	0.994	1.00	23	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	3	Qua	0.0308	0.0299	0.0282	0.0269	0.0252	0.0233	----	----	0.0274	7.58	0.998	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	4	Qua	0.0445	0.0400	0.0369	0.0343	0.0315	0.0287	----	----	0.0360	8.17	0.997	1.00	16	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	5	Qua	0.0642	0.0605	0.0561	0.0535	0.0500	0.0460	----	----	0.0551	8.90	0.998	1.00	12	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	1	1	Avg	----	----	----	----	----	----	----	----	0.00972	4.22	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	2	Avg	----	----	----	----	----	----	----	----	0.00628	4.36	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	3	Avg	----	----	----	----	----	----	----	----	0.0262	4.43	-1	-1	Lvl=10	500.0							
Aroclor-1232	1	1	Avg	----	----	----	----	----	----	----	----	0.0158	4.43	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	2	Avg	----	----	----	----	----	----	----	----	0.0148	4.79	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	3	Avg	----	----	----	----	----	----	----	----	0.0293	5.26	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	4	Avg	----	----	----	----	----	----	----	----	0.0132	5.39	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	5	Avg	----	----	----	----	----	----	----	----	0.0138	5.86	-1	-1	Lvl=7	500.0							
Aroclor-1242	1	1	Avg	----	----	----	----	----	----	----	----	0.0145	4.43	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	2	Avg	----	----	----	----	----	----	----	----	0.0266	4.79	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	3	Avg	----	----	----	----	----	----	----	----	0.0552	5.26	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	4	Avg	----	----	----	----	----	----	----	----	0.0377	5.62	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	5	Avg	----	----	----	----	----	----	----	----	0.0252	5.86	-1	-1	Lvl=8	500.0							
Aroclor-1248	1	1	Avg	----	----	----	----	----	----	----	----	0.0142	4.79	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	2	Avg	----	----	----	----	----	----	----	----	0.0373	5.25	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	3	Avg	----	----	----	----	----	----	----	----	0.0607	5.60	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	4	Avg	----	----	----	----	----	----	----	----	0.0334	5.96	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	5	Avg	----	----	----	----	----	----	----	----	0.0392	6.56	-1	-1	Lvl=9	500.0							
Aroclor-1254	1	1	Avg	----	----	----	----	----	----	----	----	0.0173	6.76	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	2	Avg	----	----	----	----	----	----	----	----	0.0577	6.97	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	3	Avg	----	----	----	----	----	----	----	----	0.0351	7.13	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	4	Avg	----	----	----	----	----	----	----	----	0.0504	7.25	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	5	Avg	----	----	----	----	----	----	----	----	0.0234	7.64	-1	-1	Lvl=10	500.0							
Aroclor-1262	1	1	Avg	----	----	----	----	----	----	----	----	0.0596	7.81	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	2	Avg	----	----	----	----	----	----	----	----	0.0361	8.83	-1	-1	Lvl=11	500.0							

Avg Rsd Col 1: 16.3 Avg Rsd Col 2: 10.7

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

4052101 1007

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2G89565.	CAL 1660@50PPB	05/02/14 20:49	2	2G89566.	CAL 1660@200PPB	05/02/14 21:04
3	2G89567.	CAL 1660@500PPB	05/02/14 21:19	4	2G89568.	CAL 1660@1000PPB	05/02/14 21:34
5	2G89569.	CAL 1660@2000PPB	05/02/14 21:49	6	2G89570.	CAL 1660@4000PPB	05/02/14 22:05
7	2G89560.	CAL 3268@500PPB	05/02/14 19:33	8	2G89561.	CAL 1242@500PPB	05/02/14 19:48
9	2G89562.	CAL 1248@500PPB	05/02/14 20:03	10	2G89563.	CAL 2154@500PPB	05/02/14 20:19
11	2G89564.	CAL 1262@500PPB	05/02/14 20:34				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1262	1	3	Avg	----	----	----	----	----	----	----	----	0.0699	8.89	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	4	Avg	----	----	----	----	----	----	----	----	0.0359	9.63	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	5	Avg	----	----	----	----	----	----	----	----	0.0127	9.99	-1	-1	Lvl=11	500.0							
Aroclor-1268	1	1	Avg	----	----	----	----	----	----	----	----	0.00811	8.17	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	2	Avg	----	----	----	----	----	----	----	----	0.0104	8.49	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	3	Avg	----	----	----	----	----	----	----	----	0.0716	9.07	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	4	Avg	----	----	----	----	----	----	----	----	0.0201	9.17	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	5	Avg	----	----	----	----	----	----	----	----	0.214	9.99	-1	-1	Lvl=7	500.0							
DCB-Surrogate	1	0	Qua	0.8985	0.8034	0.7198	0.6614	0.6027	0.5477	----	----	0.706	10.21	0.997	1.00	18	5.00	20.00	50.00	100.0	200.0	400.0		
TCMX-Surrogate	2	0	Avg	0.3341	0.3229	0.3256	0.3463	0.3519	0.3564	----	----	0.340	3.99	1.00	1.00	4.1	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	2	1	Qua	0.0108	0.0095	0.0092	0.0087	0.0082	0.0078	----	----	0.00907	4.60	0.999	1.00	12	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	2	Qua	0.0215	0.0202	0.0191	0.0180	0.0168	0.0153	----	----	0.0185	5.02	0.997	1.00	12	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	3	Avg	0.0381	0.0349	0.0340	0.0333	0.0325	0.0310	----	----	0.0340	5.41	0.999	1.00	7.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	4	Avg	0.0171	0.0159	0.0151	0.0145	0.0138	0.0129	----	----	0.0149	5.74	0.999	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	5	Avg	0.0118	0.0114	0.0108	0.0104	0.0100	0.0093	----	----	0.0106	6.11	0.998	1.00	8.8	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	1	Qua	0.0297	0.0273	0.0248	0.0231	0.0214	0.0195	----	----	0.0244	7.43	0.997	1.00	15	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	2	Qua	0.0318	0.0292	0.0268	0.0250	0.0233	0.0216	----	----	0.0263	7.52	0.998	1.00	14	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	3	Avg	0.0124	0.0115	0.0111	0.0104	0.0100	0.0093	----	----	0.0108	8.15	0.998	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	4	Avg	0.0265	0.0249	0.0239	0.0227	0.0216	0.0202	----	----	0.0233	8.52	0.999	1.00	9.8	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	5	Avg	0.0236	0.0221	0.0203	0.0193	0.0188	0.0182	----	----	0.0204	9.23	1.00	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	2	1	Avg	----	----	----	----	----	----	----	----	0.00497	4.38	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	2	Avg	----	----	----	----	----	----	----	----	0.00321	4.53	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	3	Avg	----	----	----	----	----	----	----	----	0.0117	4.59	-1	-1	Lvl=10	500.0							
Aroclor-1232	2	1	Avg	----	----	----	----	----	----	----	----	0.00813	4.60	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	2	Avg	----	----	----	----	----	----	----	----	0.00826	5.02	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	3	Avg	----	----	----	----	----	----	----	----	0.0132	5.41	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	4	Avg	----	----	----	----	----	----	----	----	0.00640	5.74	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	5	Avg	----	----	----	----	----	----	----	----	0.00406	6.26	-1	-1	Lvl=7	500.0							
Aroclor-1242	2	1	Avg	----	----	----	----	----	----	----	----	0.00749	4.60	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	2	Avg	----	----	----	----	----	----	----	----	0.0150	5.02	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	3	Avg	----	----	----	----	----	----	----	----	0.0266	5.41	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	4	Avg	----	----	----	----	----	----	----	----	0.0116	5.74	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	5	Avg	----	----	----	----	----	----	----	----	0.00994	6.11	-1	-1	Lvl=8	500.0							
Aroclor-1248	2	1	Avg	----	----	----	----	----	----	----	----	0.00707	5.02	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	2	Avg	----	----	----	----	----	----	----	----	0.0166	5.41	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	3	Avg	----	----	----	----	----	----	----	----	0.0143	5.74	-1	-1	Lvl=9	500.0							

Avg Rsd Col 1: 16.3 Avg Rsd Col 2: 10.7

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

4052101 1008

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2G89565.	CAL 1660@50PPB	05/02/14 20:49	2	2G89566.	CAL 1660@200PPB	05/02/14 21:04
3	2G89567.	CAL 1660@500PPB	05/02/14 21:19	4	2G89568.	CAL 1660@1000PPB	05/02/14 21:34
5	2G89569.	CAL 1660@2000PPB	05/02/14 21:49	6	2G89570.	CAL 1660@4000PPB	05/02/14 22:05
7	2G89560.	CAL 3268@500PPB	05/02/14 19:33	8	2G89561.	CAL 1242@500PPB	05/02/14 19:48
9	2G89562.	CAL 1248@500PPB	05/02/14 20:03	10	2G89563.	CAL 2154@500PPB	05/02/14 20:19
11	2G89564.	CAL 1262@500PPB	05/02/14 20:34				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1248	2	4	Avg	----	----	----	----	----	----	----	----	0.0127	6.26	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	5	Avg	----	----	----	----	----	----	----	----	0.0160	6.39	-1	-1	Lvl=9	500.0							
Aroclor-1254	2	1	Avg	----	----	----	----	----	----	----	----	0.0247	6.62	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	2	Avg	----	----	----	----	----	----	----	----	0.00733	6.96	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	3	Avg	----	----	----	----	----	----	----	----	0.0208	7.36	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	4	Avg	----	----	----	----	----	----	----	----	0.00970	7.88	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	5	Avg	----	----	----	----	----	----	----	----	0.0104	8.58	-1	-1	Lvl=10	500.0							
Aroclor-1262	2	1	Avg	----	----	----	----	----	----	----	----	0.0399	8.07	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	2	Avg	----	----	----	----	----	----	----	----	0.0204	9.12	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	3	Avg	----	----	----	----	----	----	----	----	0.0228	9.23	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	4	Avg	----	----	----	----	----	----	----	----	0.0243	9.85	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	5	Avg	----	----	----	----	----	----	----	----	0.00656	10.43	-1	-1	Lvl=11	500.0							
Aroclor-1268	2	1	Avg	----	----	----	----	----	----	----	----	0.00344	8.61	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	2	Avg	----	----	----	----	----	----	----	----	0.00624	8.65	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	3	Avg	----	----	----	----	----	----	----	----	0.0393	9.58	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	4	Avg	----	----	----	----	----	----	----	----	0.0104	9.75	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	5	Avg	----	----	----	----	----	----	----	----	0.122	10.43	-1	-1	Lvl=7	500.0							
DCB-Surrogate	2	0	Qua	0.4836	0.4321	0.3921	0.3726	0.3532	0.3369	----	----	0.395	11.01	0.999	1.00	14	5.00	20.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 16.3 Avg Rsd Col 2: 10.7

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Quantitation Report (QT Reviewed)

4052101 1009

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89565.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 20:49
Operator : MAS
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:53:53 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:50:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.918	3.988	38858	16706	5.205m	5.258m
2)Aroclor-1016 {1}	4.426	4.596	10621	5415	57.690	63.851m
3)Aroclor-1016 {2}	4.790	5.021	21789	10753	62.077m	60.986m
4)Aroclor-1016 {3}	5.257	5.408	46731	19066	67.085	57.862m
5)Aroclor-1016 {4}	5.502	5.736	13339	8591	56.222	59.929m
6)Aroclor-1016 {5}	5.617	6.112	30580	5929	59.028	59.544m
7)Aroclor-1260 {1}	7.132	7.433	29248	14868	66.378	67.368
8)Aroclor-1260 {2}	7.384	7.517	34496	15932	67.975	67.521
9)Aroclor-1260 {3}	7.584	8.154	15415	6228	54.176	58.938
10)Aroclor-1260 {4}	8.172	8.517	22249	13260	63.501m	68.910m
11)Aroclor-1260 {5}	8.898	9.232	32126	11803	56.872	61.794m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89565.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 20:49
Operator : MAS
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:53:53 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:50:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	10.213	11.009	44926	24181	6.229	6.840

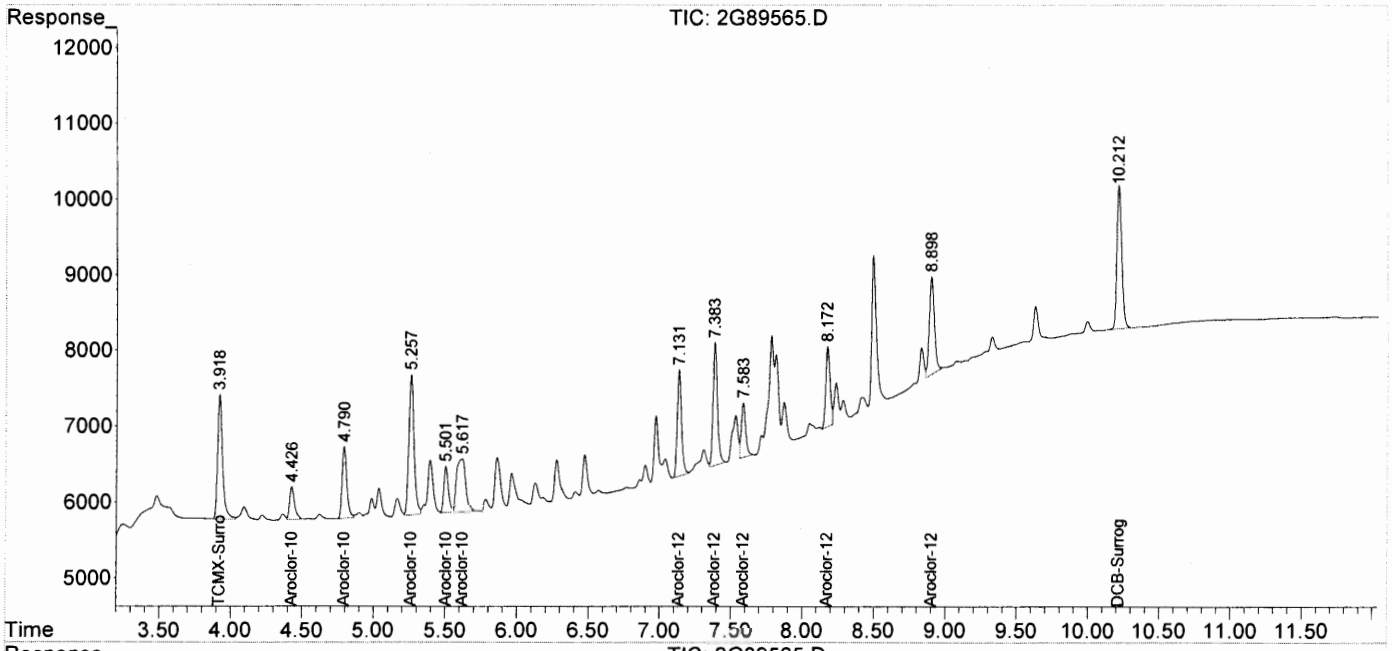
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

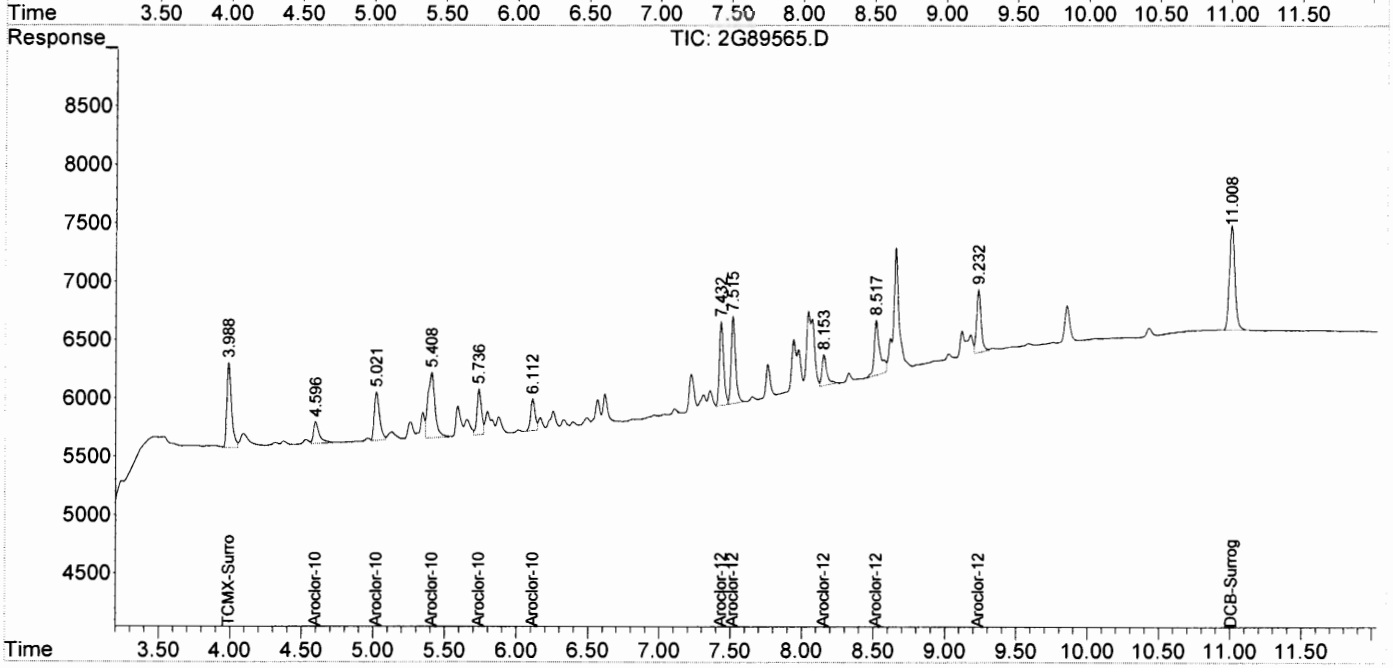
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89565.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 20:49
Operator : MAS
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:53:53 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:50:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89566.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 21:04
Operator : MAS
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:51:20 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:50:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.918	3.988	148915	64588	19.945m	20.327m
2)Aroclor-1016 {1}	4.426	4.597	38870	19153	212.930	227.369
3)Aroclor-1016 {2}	4.790	5.021	78388	40550	225.845	231.998m
4)Aroclor-1016 {3}	5.256	5.408	161701	69964	234.560	213.386
5)Aroclor-1016 {4}	5.501	5.737	51011	31921	216.801	224.278
6)Aroclor-1016 {5}	5.616	6.112	112769	22913	219.848	231.688
7)Aroclor-1260 {1}	7.131	7.433	102692	54615	235.712	249.646
8)Aroclor-1260 {2}	7.383	7.516	120134	58527	239.334	249.890
9)Aroclor-1260 {3}	7.583	8.153	59922	23111	211.931	220.036
10)Aroclor-1260 {4}	8.172	8.515	80131	49902	230.502	259.324m
11)Aroclor-1260 {5}	8.897	9.231	121090	44378	215.770	233.769m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89566.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 21:04
Operator : MAS
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:51:20 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:50:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

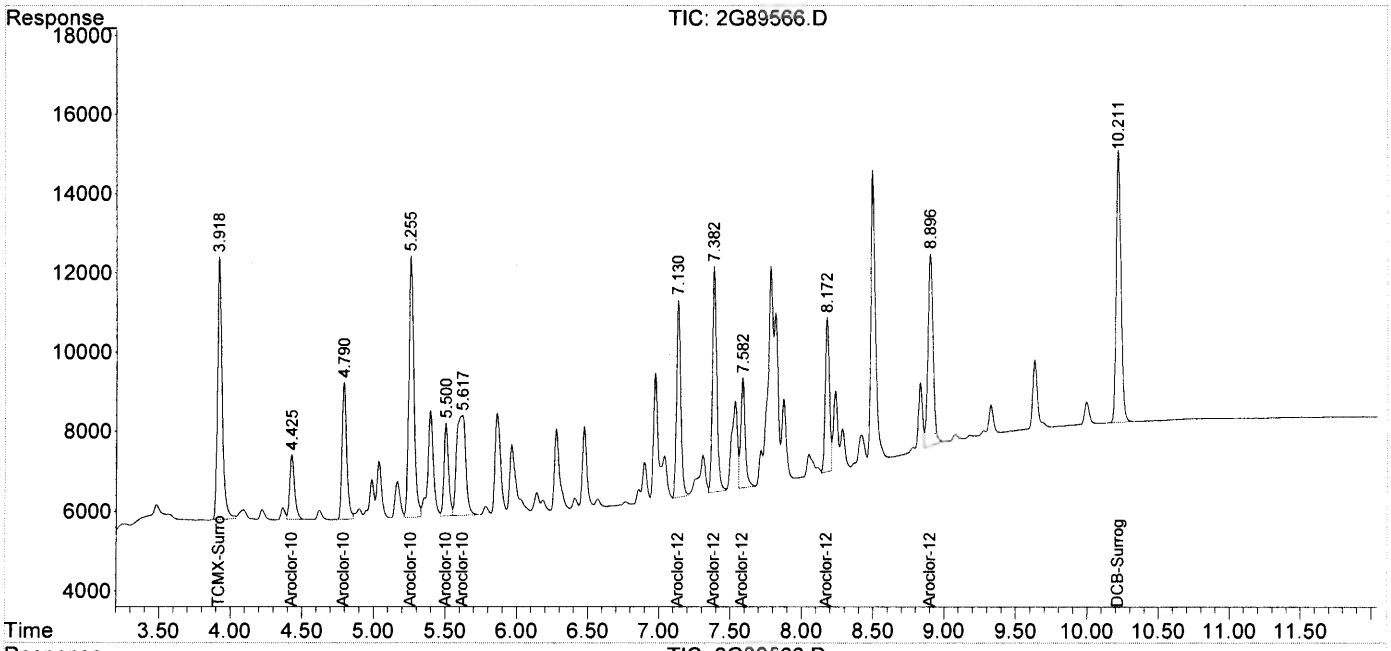
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	10.212	11.008	160686	86427	22.486	24.582

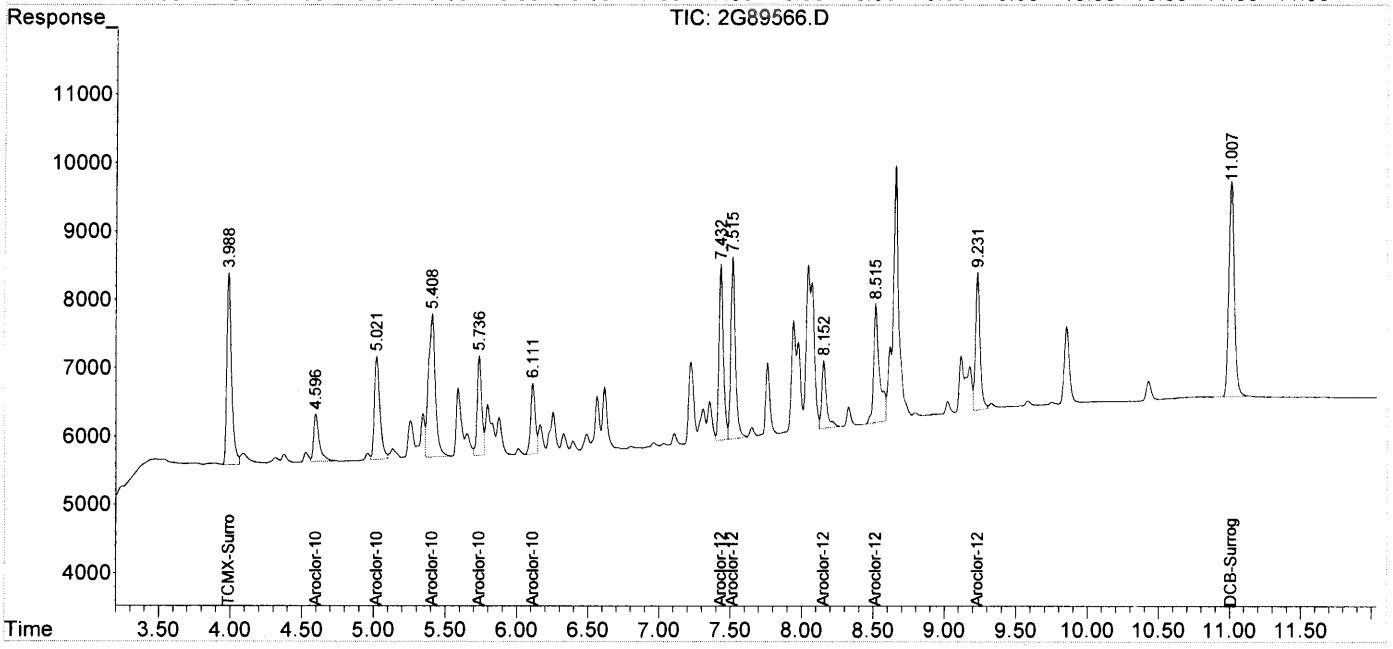
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89566.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 21:04
Operator : MAS
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:51:20 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:50:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89567.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 21:19
Operator : MAS
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:50:30 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:50:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.919	3.990	369024	162841	49.425	51.248
2)Aroclor-1016 {1}	4.425	4.597	89706	45985	499.226	553.384
3)Aroclor-1016 {2}	4.790	5.022	174970	95937	514.334	558.222
4)Aroclor-1016 {3}	5.254	5.407	359736	170181	531.698	524.254
5)Aroclor-1016 {4}	5.501	5.737	118426	75630	511.148	538.740
6)Aroclor-1016 {5}	5.617	6.112	254405	54249	504.906	555.596
7)Aroclor-1260 {1}	7.130	7.433	227707	124426	533.324	577.909
8)Aroclor-1260 {2}	7.381	7.516	262327	134211	532.654	580.909
9)Aroclor-1260 {3}	7.583	8.153	141059	55870	504.823	538.436
10)Aroclor-1260 {4}	8.172	8.515	184615	119509	538.915	621.053m
11)Aroclor-1260 {5}	8.896	9.231	280778	101879	506.407	542.667m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89567.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 21:19
Operator : MAS
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:50:30 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:50:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	10.211	11.008	359944	196074	51.210	56.319

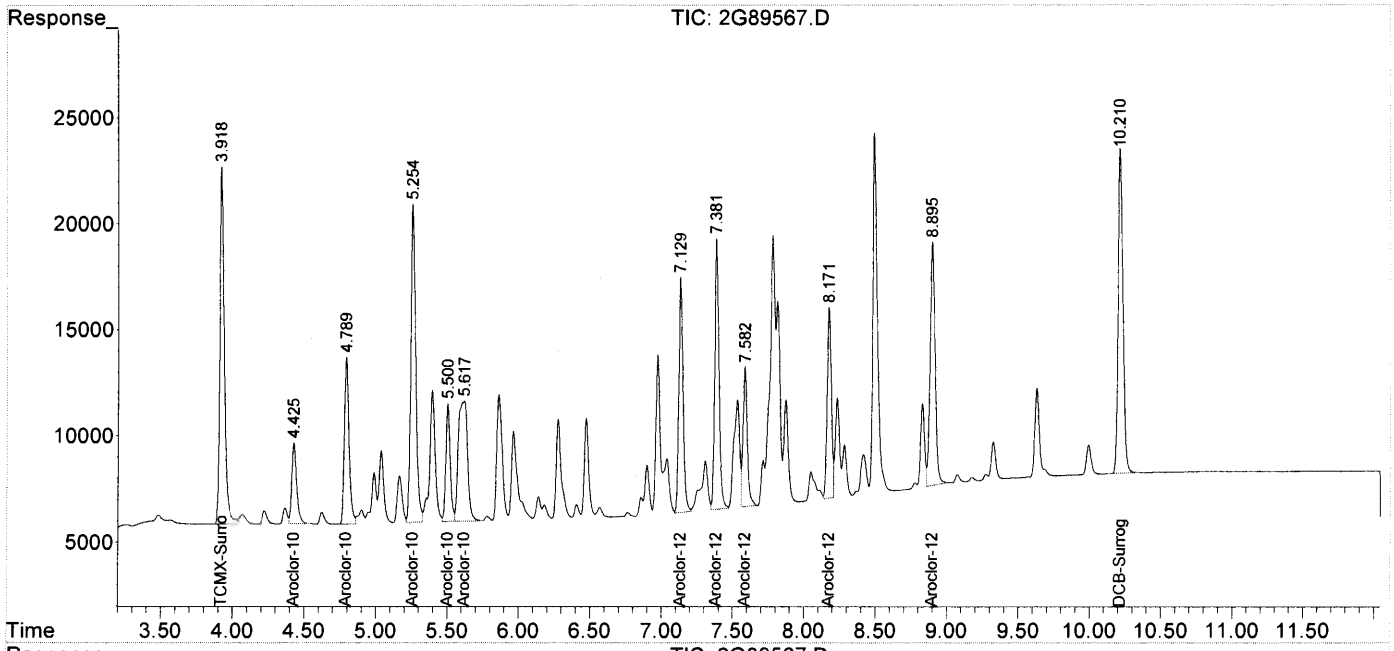
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

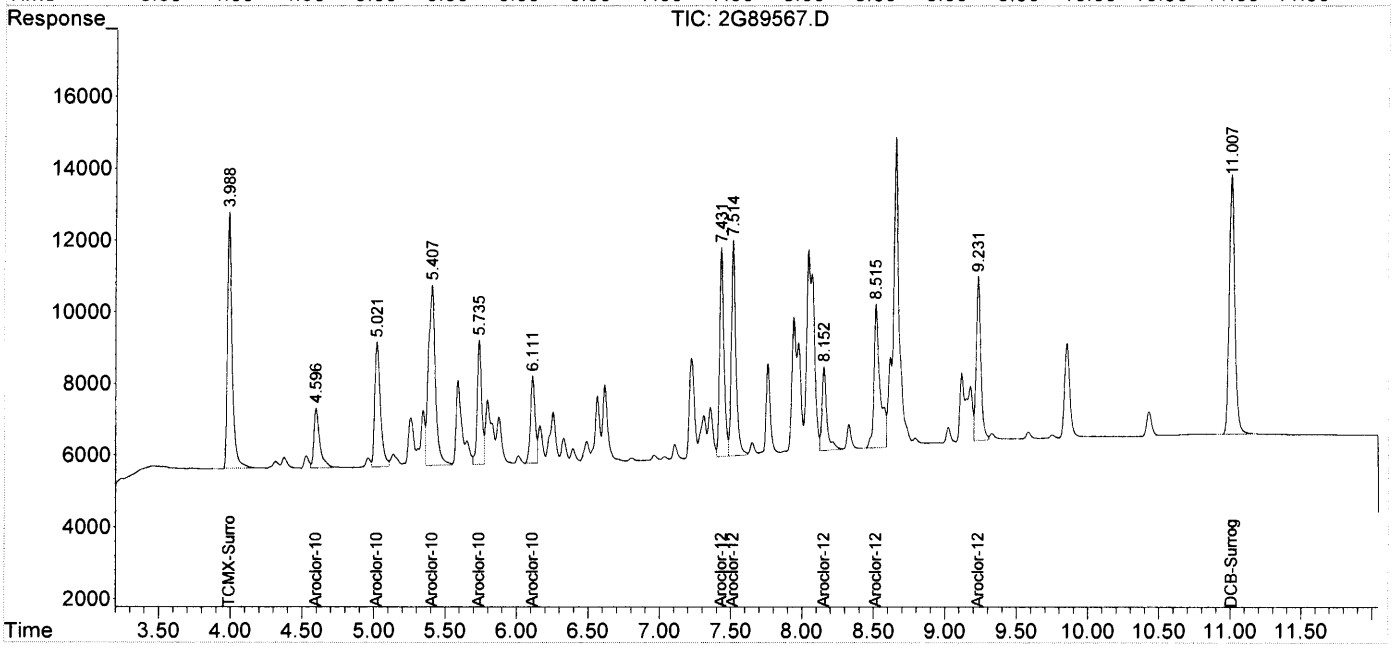
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89567.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 21:19
Operator : MAS
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:50:30 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:50:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89568.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 21:34
Operator : MAS
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:54:55 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:54:24 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.918	3.988	727984	346325	97.503	108.993m
2)Aroclor-1016 {1}	4.425	4.596	169795	87428	970.344	1075.765
3)Aroclor-1016 {2}	4.789	5.021	319653	180847	970.811	1081.844
4)Aroclor-1016 {3}	5.253	5.407	656124	333886	999.538	1046.178
5)Aroclor-1016 {4}	5.500	5.736	223879	145364	991.469	1059.826
6)Aroclor-1016 {5}	5.616	6.112	469705	104179	959.788	1090.106
7)Aroclor-1260 {1}	7.129	7.432	410022	231514	991.453	1103.750
8)Aroclor-1260 {2}	7.381	7.515	473258	250328	990.667	1107.741
9)Aroclor-1260 {3}	7.582	8.152	269254	104016	982.657	1021.403m
10)Aroclor-1260 {4}	8.171	8.515	343737	227370	1027.492	1181.572m
11)Aroclor-1260 {5}	8.895	9.231	535775	193631	986.118	1050.705m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89568.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 21:34
Operator : MAS
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:54:55 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:54:24 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

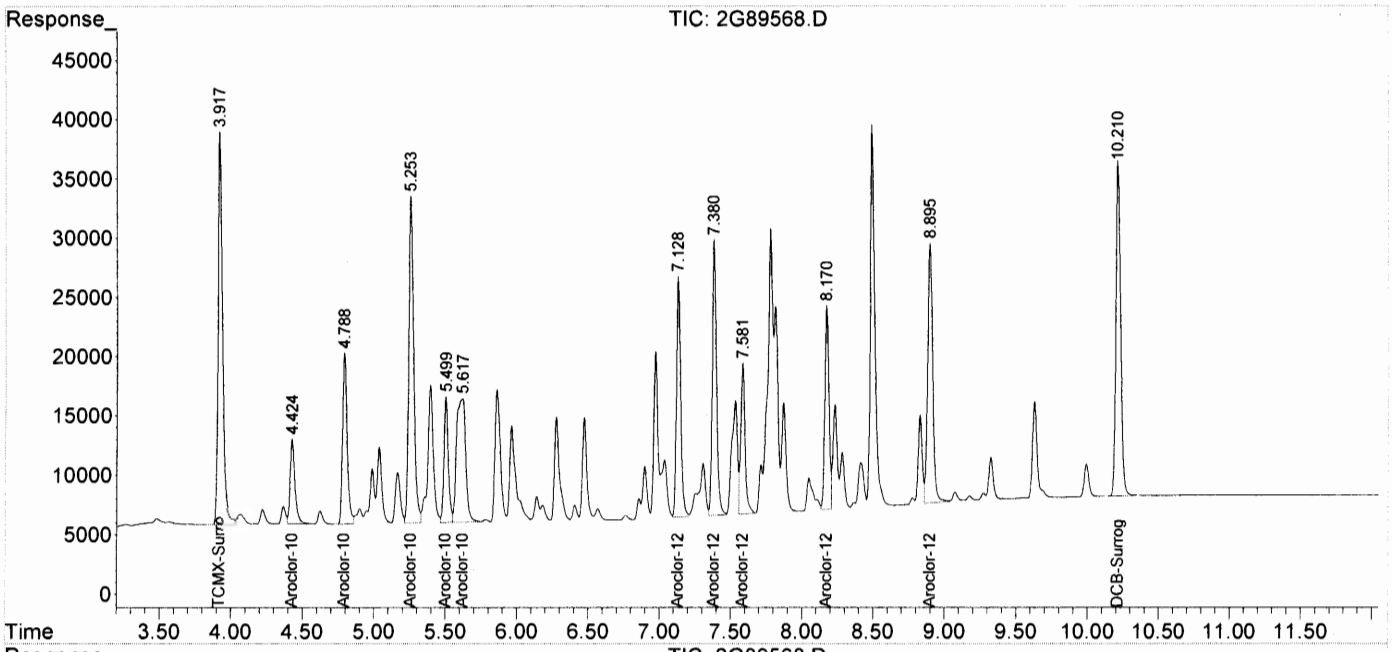
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	10.211	11.007	661466	372642	96.661	108.816

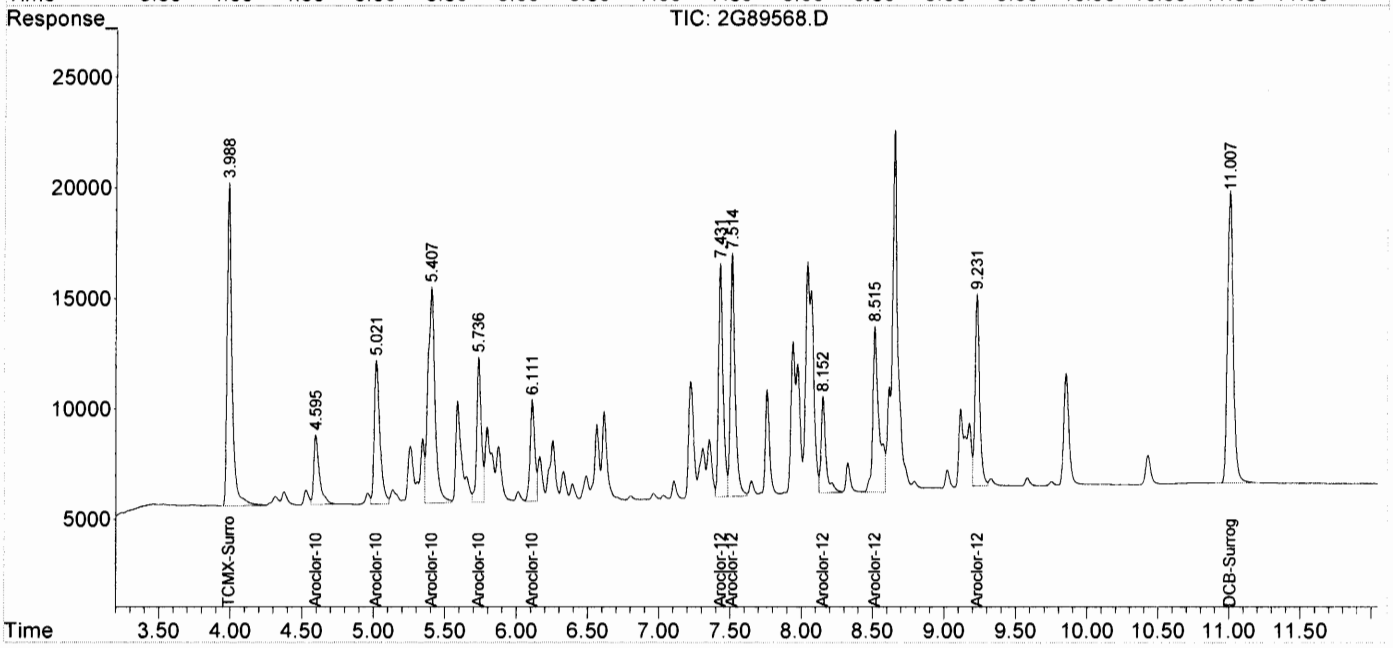
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89568.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 21:34
Operator : MAS
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:54:55 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:54:24 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1021

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89569.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 21:49
Operator : MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:55:22 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:54:24 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.917	3.988	1382813	703873	185.208	221.519m
2)Aroclor-1016 {1}	4.424	4.595	311892	165138	1880.013	2128.355
3)Aroclor-1016 {2}	4.788	5.020	569090	336695	1845.731	2134.740
4)Aroclor-1016 {3}	5.252	5.407	1175595	650912	1903.875	2113.591
5)Aroclor-1016 {4}	5.498	5.736	413226	276371	1927.923	2115.789
6)Aroclor-1016 {5}	5.615	6.111	848037	200069	1837.847	2191.469
7)Aroclor-1260 {1}	7.128	7.431	724533	429286	1867.730	2161.740
8)Aroclor-1260 {2}	7.379	7.514	840134	467412	1869.606	2165.642
9)Aroclor-1260 {3}	7.581	8.151	504077	201727	1913.322	2065.330m
10)Aroclor-1260 {4}	8.170	8.514	630947	431999	1978.421	2244.966m
11)Aroclor-1260 {5}	8.894	9.231	1001051	376023	1918.959	2124.489
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89569.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 21:49
Operator : MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:55:22 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:54:24 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	10.210	11.008	1205509	706485	186.100	213.370

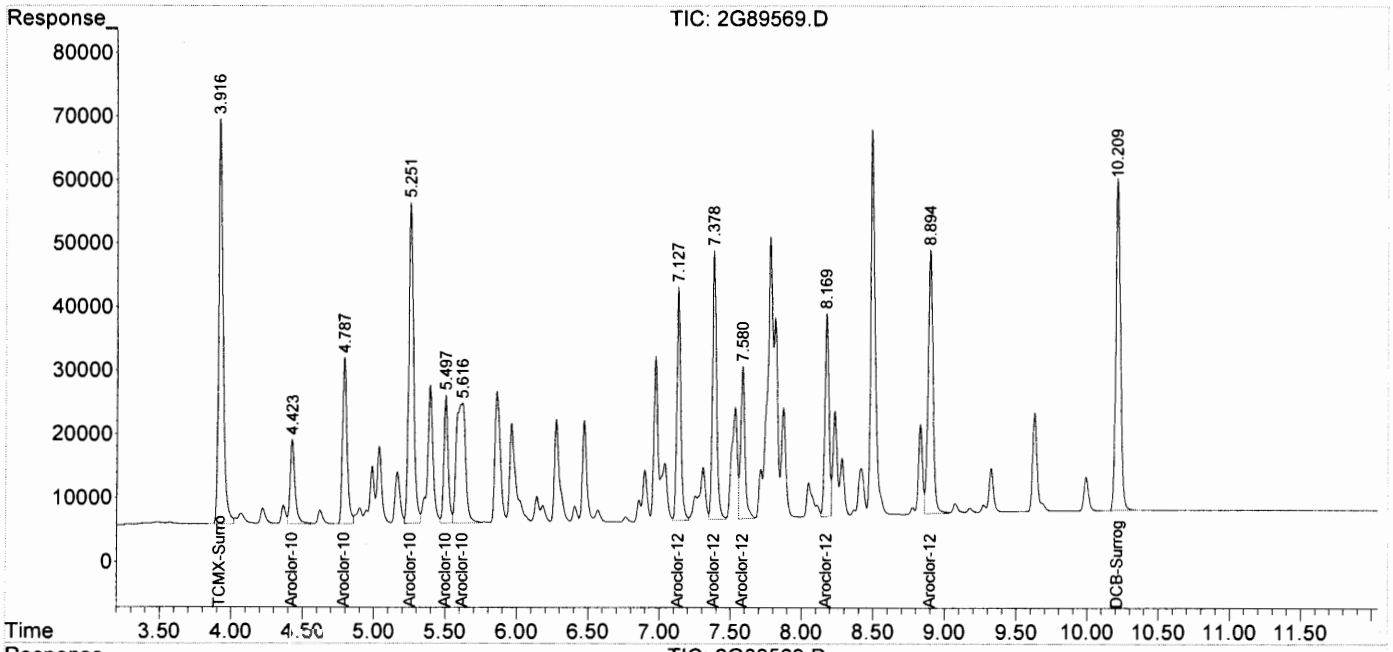
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

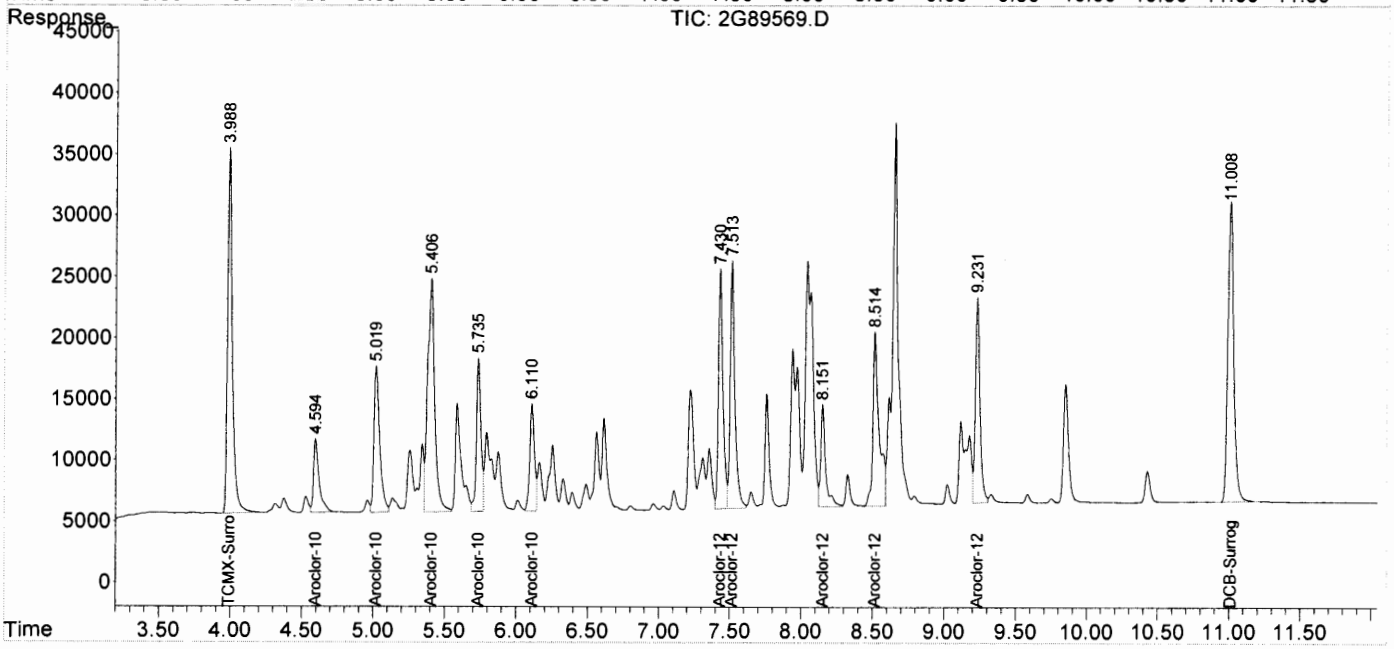
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89569.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 21:49
Operator : MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:55:22 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:54:24 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89570.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 22:05
Operator : MAS
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:55:48 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:54:24 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.917	3.988	2588769	1425677	346.728	448.681 #
2)Aroclor-1016 {1}	4.423	4.595	562268	313154	3843.582	4524.850
3)Aroclor-1016 {2}	4.787	5.020	1003317	614433	3855.356	4501.564
4)Aroclor-1016 {3}	5.252	5.407	2091559	1241537	3951.847	4365.966
5)Aroclor-1016 {4}	5.498	5.735	750023	516308	3958.512	4442.391
6)Aroclor-1016 {5}	5.617	6.111	1510876	372550	3781.402	4531.352
7)Aroclor-1260 {1}	7.127	7.431	1281175	781743	3900.702	4493.607
8)Aroclor-1260 {2}	7.379	7.514	1486607	867283	3859.578	4478.955
9)Aroclor-1260 {3}	7.580	8.151	931833	375005	3860.347	4207.412m
10)Aroclor-1260 {4}	8.169	8.516	1148324	810496	4025.223	4211.902
11)Aroclor-1260 {5}	8.894	9.232	1842902	730229	3868.271	4548.882
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89570.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 22:05
Operator : MAS
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:55:48 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:54:24 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	10.210	11.009	2191007	1347734	387.424	439.630

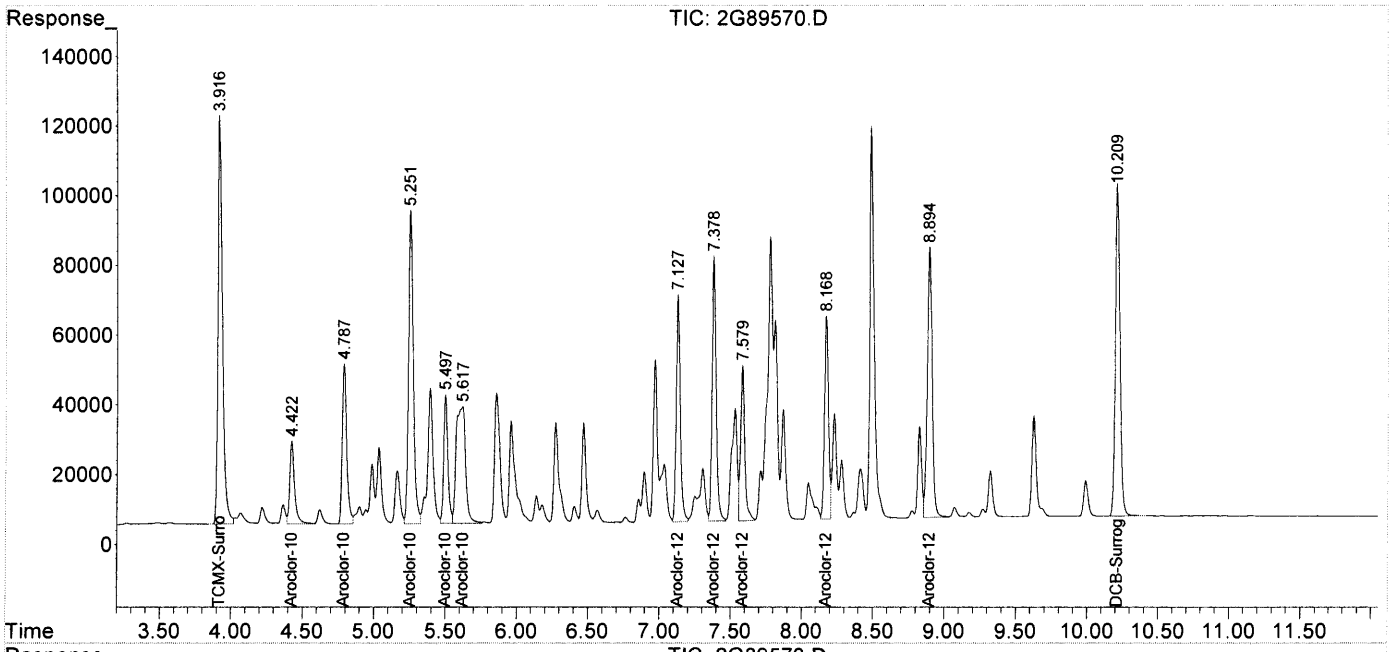
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

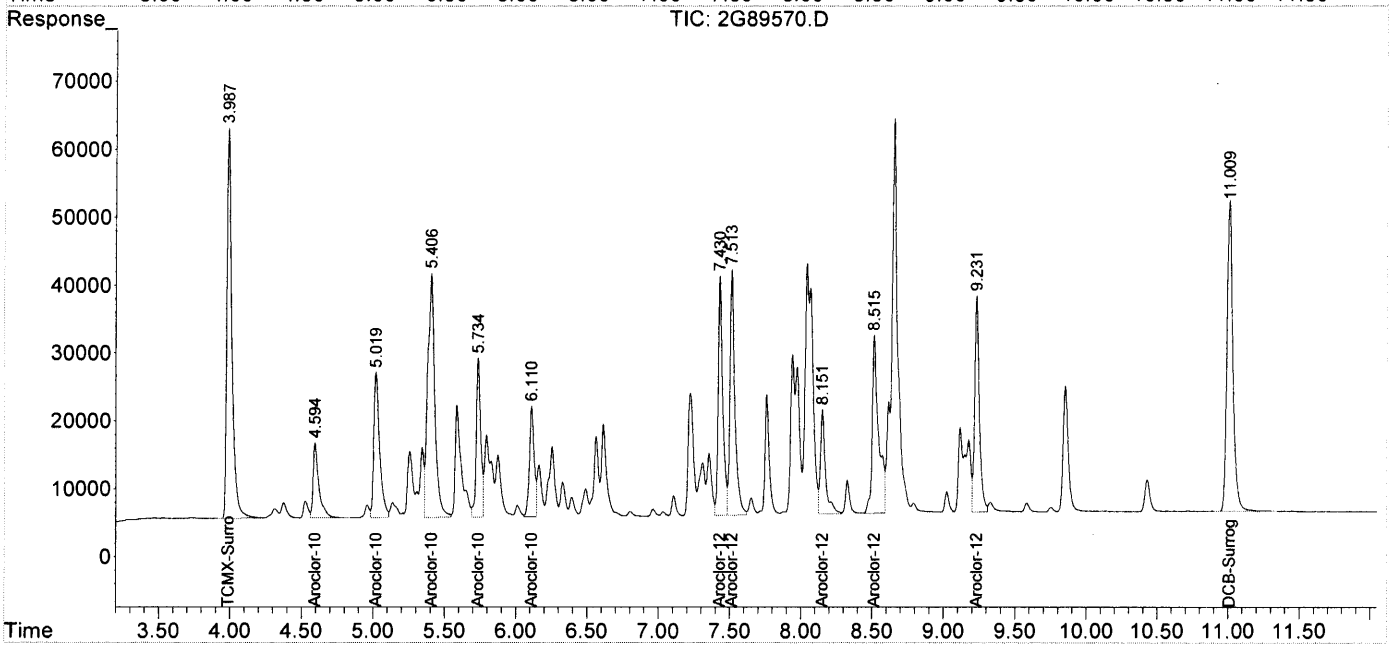
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89570.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 22:05
Operator : MAS
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:55:48 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:54:24 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1027

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89560.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 19:33
Operator : MAS
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:57:17 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:56:37 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.918	3.989	339867	158123	45.520m	49.764
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	4.426	4.596	78791	40663	405.805	438.852
16)Aroclor-1232 {2}	4.791	5.021	74100	41279	410.959	445.058m
17)Aroclor-1232 {3}	5.256	5.408	146287	66209	432.446	448.749
18)Aroclor-1232 {4}	5.393	5.737	66110	32013	414.421	450.913
19)Aroclor-1232 {5}	5.859	6.256	69042	20318	431.807	461.472
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	8.170	8.614	40528	17193	400.602	454.384
41)Aroclor-1268 {2}	8.492	8.655	52165	31202	412.181m	482.394
42)Aroclor-1268 {3}	9.071	9.583	358252	196570	417.846	488.922

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89560.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 19:33
Operator : MAS
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:57:17 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:56:37 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

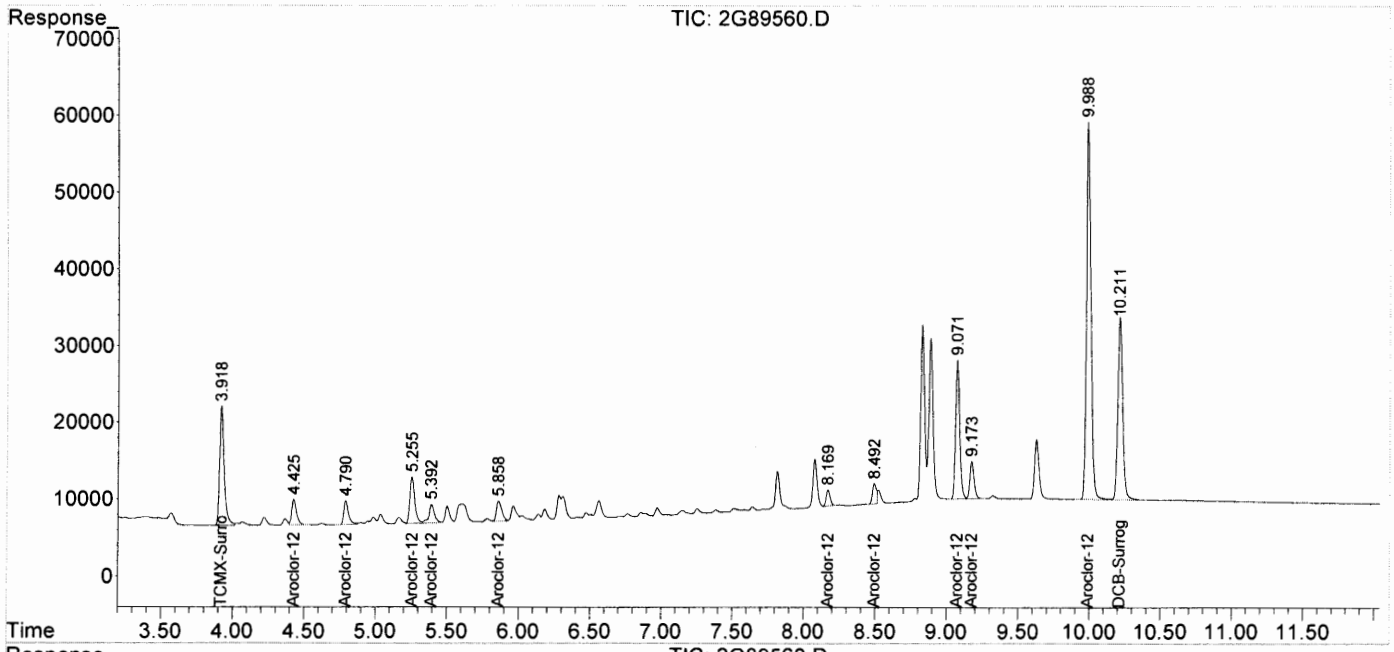
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	9.174	9.752	100529	52204	390.045	475.532
44)Aroclor-1268 {5}	9.989	10.429	1067847	610595	428.780	476.886
45)DCB-Surrogate	10.211	11.009	566866	313326	82.125	90.981

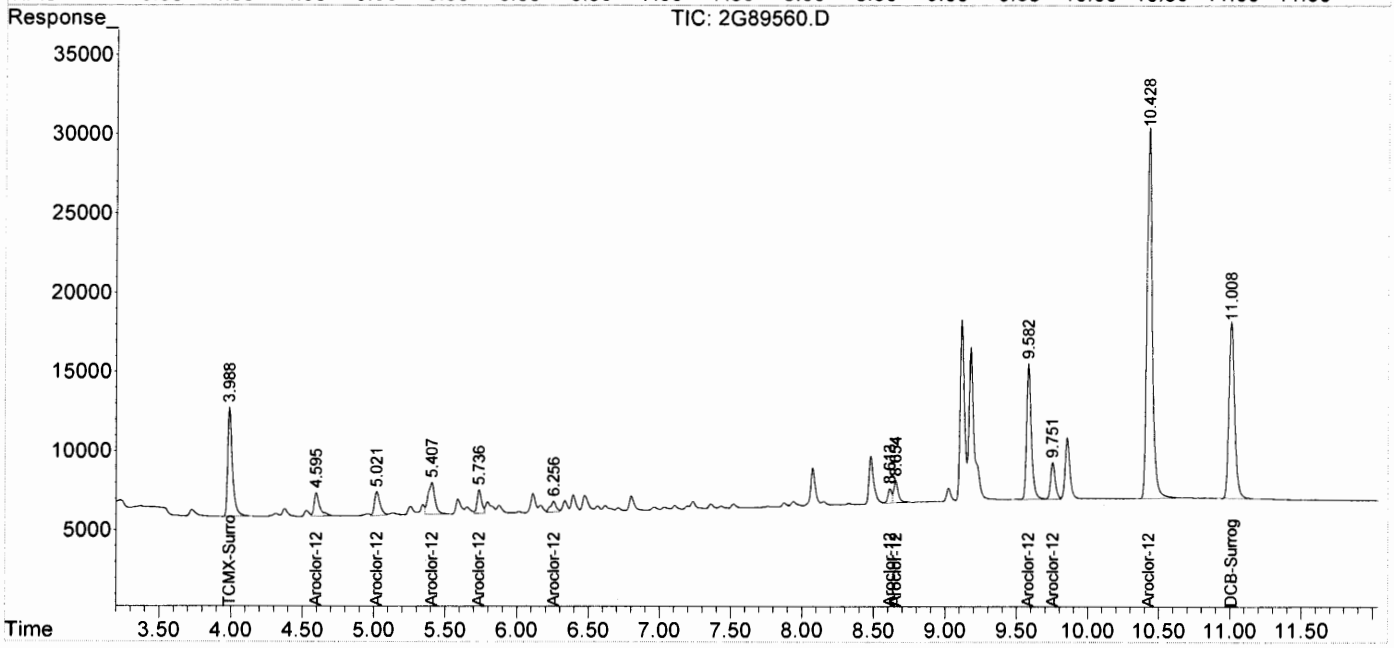
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89560.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 19:33
Operator : MAS
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:57:17 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:56:37 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1030

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89561.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 19:48
Operator : MAS
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:58:33 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:58:22 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.920	3.991	353503	159176	47.346	50.095
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	4.426	4.598	72680	37426	451.265	492.195
21)Aroclor-1242 {2}	4.791	5.023	133059	74920	449.959	521.706
22)Aroclor-1242 {3}	5.255	5.408	276198	132839	472.551	512.804
23)Aroclor-1242 {4}	5.616	5.738	188704	57908	457.307	502.264
24)Aroclor-1242 {5}	5.859	6.112	126155	49682	472.111	531.748
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89561.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 19:48
Operator : MAS
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:58:33 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:58:22 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

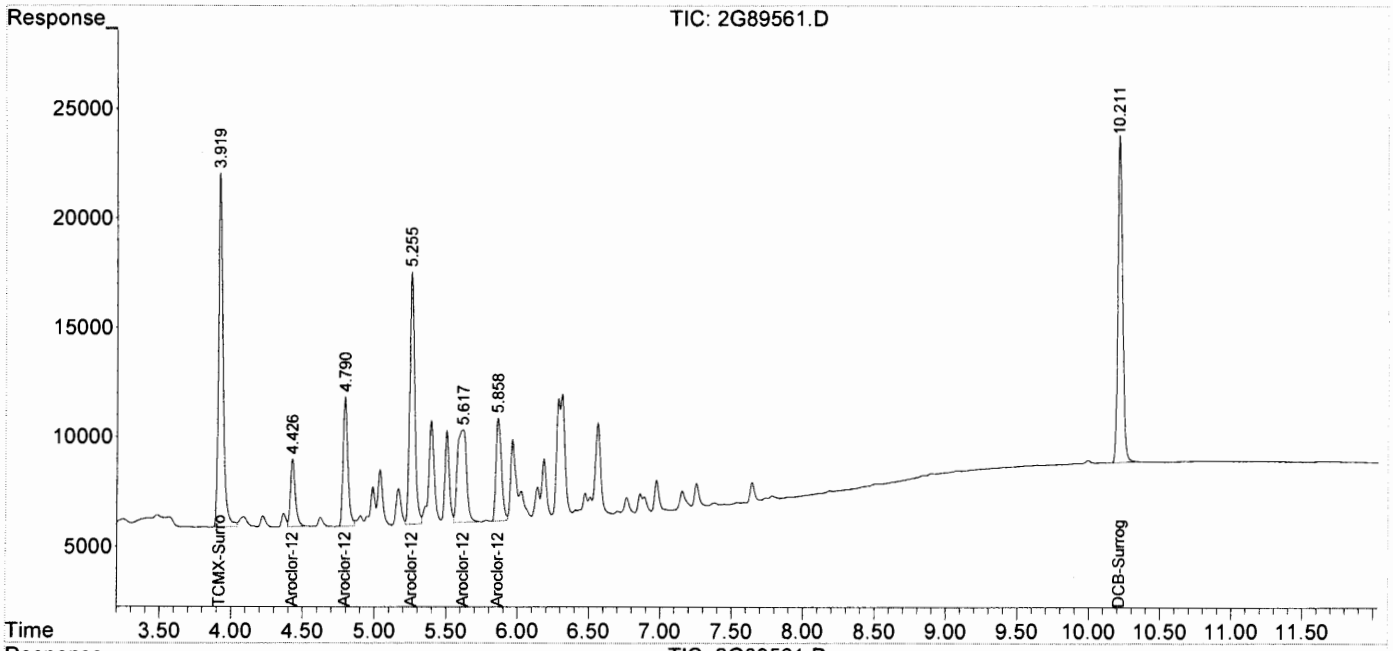
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	10.212	11.009	347500	190599	49.387	54.719

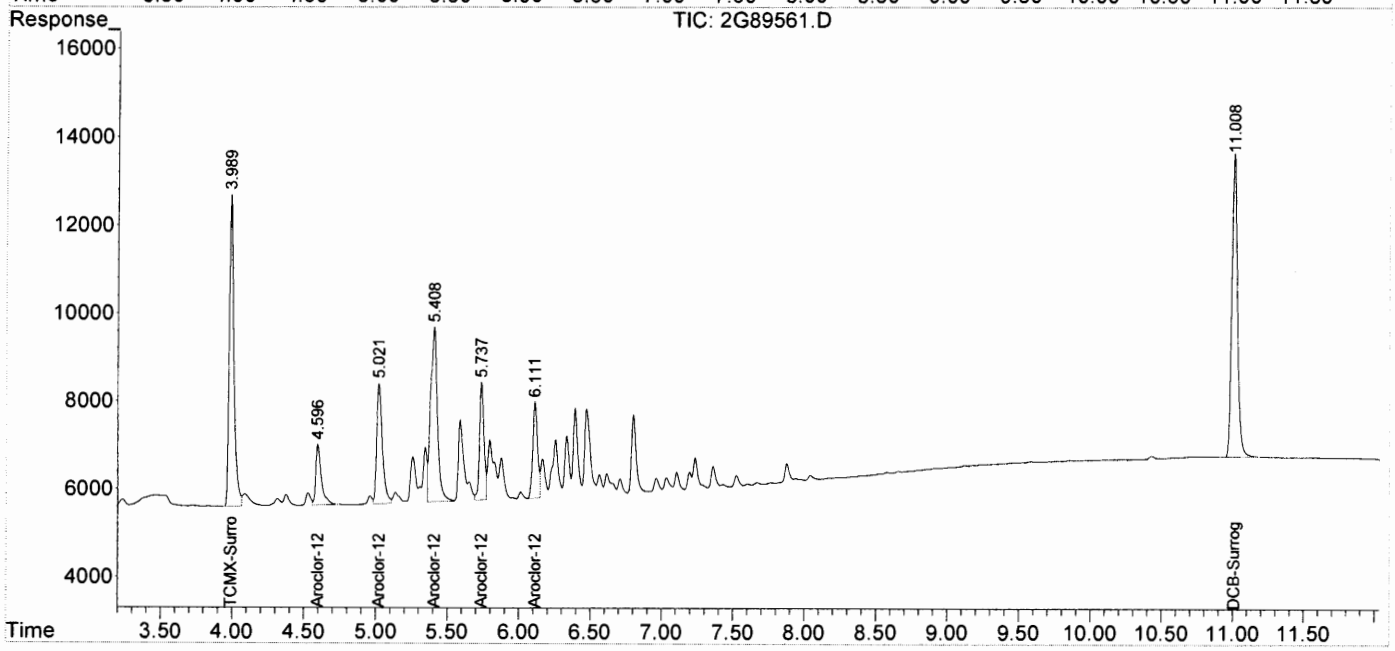
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89561.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 19:48
Operator : MAS
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:58:33 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:58:22 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1033

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89562.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 20:03
Operator : MAS
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:59:22 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:58:59 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.918	3.989	354551	160122	47.487	50.393
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D.	N.D.
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	4.790	5.020	71261	35360	445.378m	443.365m
26)Aroclor-1248 {2}	5.255	5.406	186363	83019	438.422	452.636m
27)Aroclor-1248 {3}	5.600	5.737	303498	71441	423.633	468.101
28)Aroclor-1248 {4}	5.961	6.256	166924	63588	427.503	468.243
29)Aroclor-1248 {5}	6.561	6.393	196011	80058	429.215	463.602
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89562.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 20:03
Operator : MAS
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:59:22 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:58:59 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D.	N.D.
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D.	N.D.
45)DCB-Surrogate	10.212	11.009	349502	192348	49.680	55.230

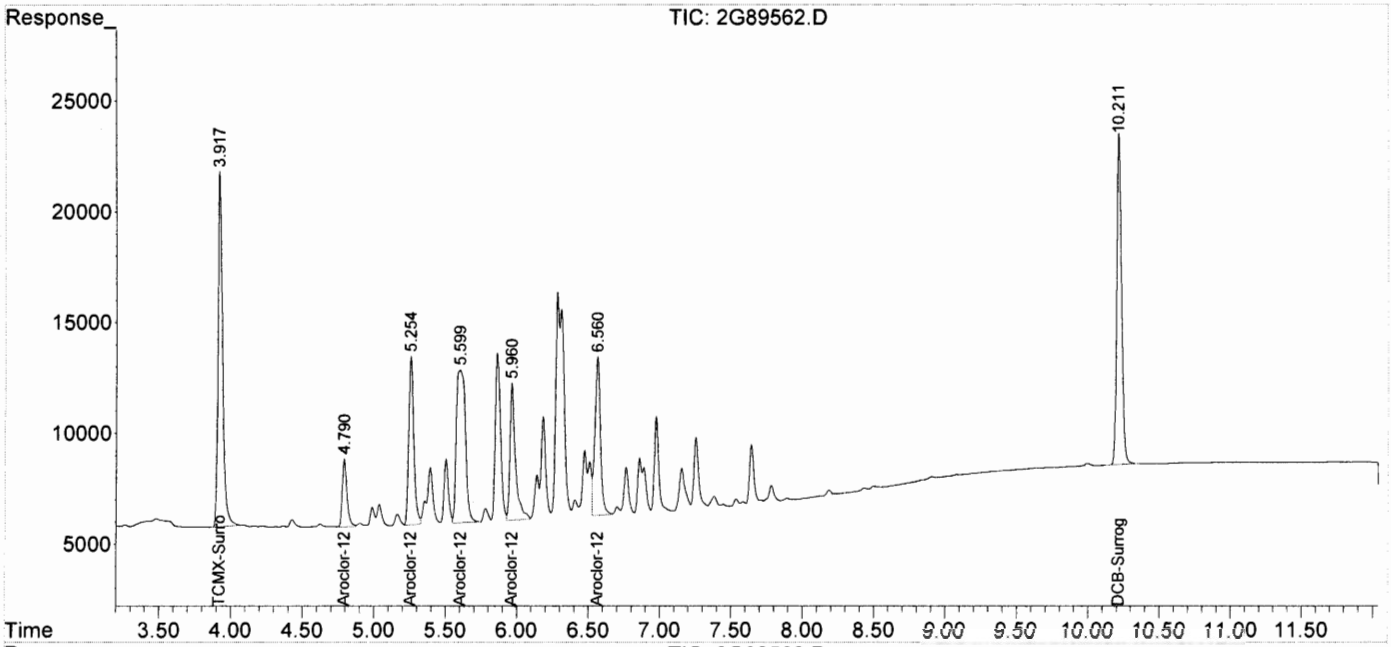
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

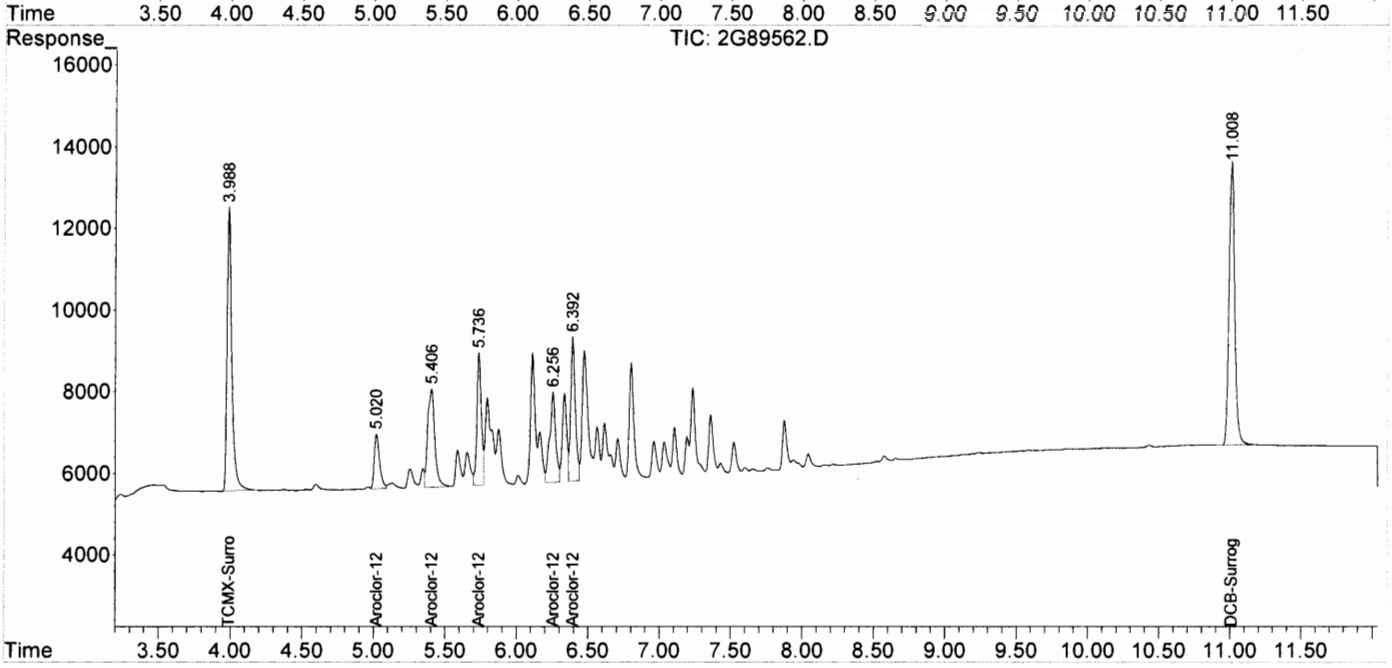
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89562.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 20:03
Operator : MAS
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 09:59:22 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 09:58:59 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89563.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 20:19
Operator : MAS
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 10:02:43 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:01:12 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.918	3.990	375184	173865	50.250	54.718
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	4.219	4.376	48581	24838	454.431	481.980
13)Aroclor-1221 {2}	4.365	4.528	31423	16062	477.157	507.373
14)Aroclor-1221 {3}	4.425	4.595	131037	58503	450.511	508.599m
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	6.762	6.615	86626	123475	474.943	509.116
31)Aroclor-1254 {2}	6.970	6.962	288428	36649	465.637	515.891
32)Aroclor-1254 {3}	7.133	7.360	175331	104111	467.661	554.514
33)Aroclor-1254 {4}	7.248	7.878	251794	48514	484.405m	637.444 #
34)Aroclor-1254 {5}	7.639	8.577	117165	52238	539.640	573.371
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89563.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 20:19
Operator : MAS
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 10:02:43 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:01:12 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	10.212	11.009	370803	202137	52.804	58.093

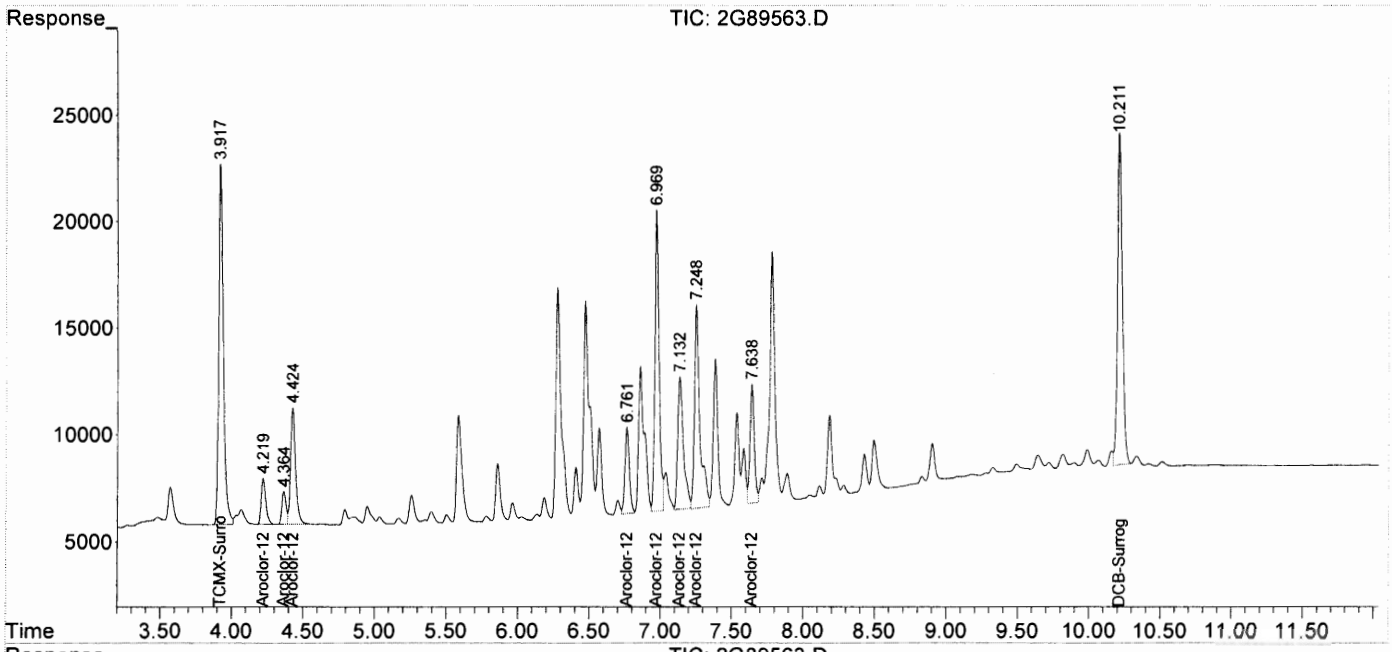
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

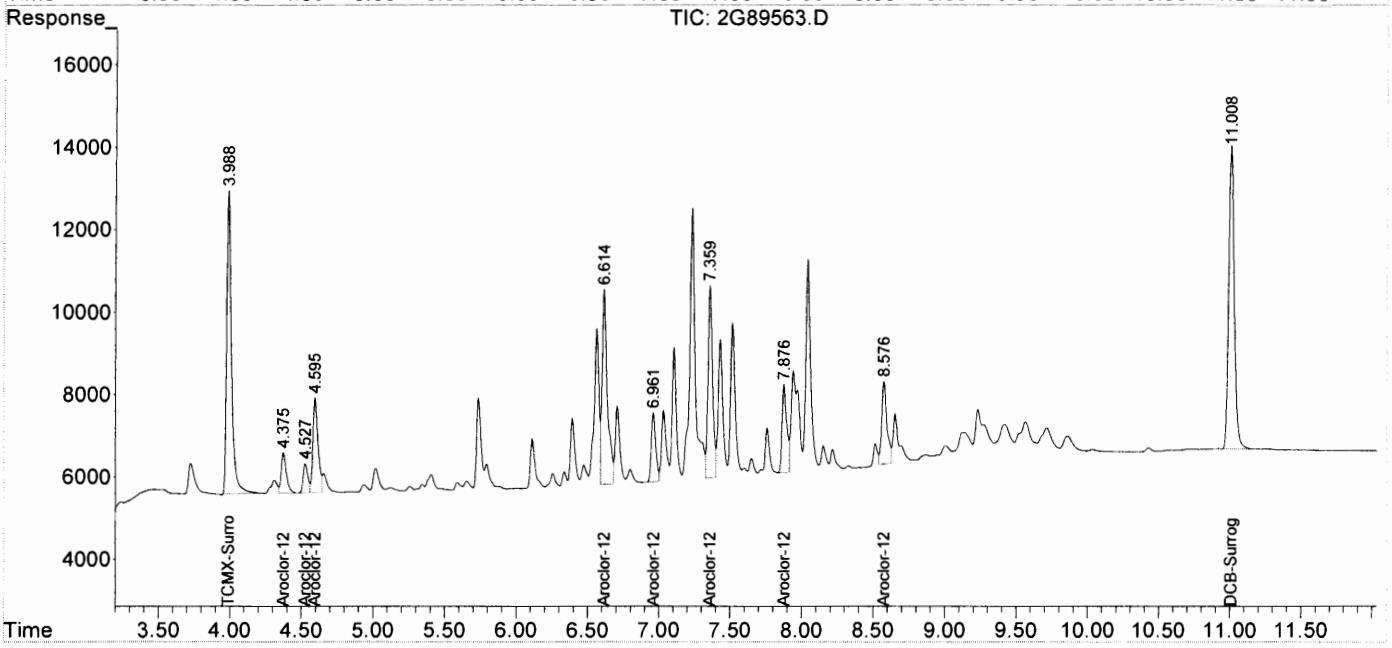
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89563.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 20:19
Operator : MAS
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 10:02:43 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:01:12 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89564.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 20:34
Operator : MAS
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 10:03:25 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:03:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.918	3.989	378872	169830	50.744	53.448
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	7.814	8.073	297889	199575	442.923	551.271
36)Aroclor-1262 {2}	8.826	9.117	180591	102108	505.164	614.766
37)Aroclor-1262 {3}	8.891	9.230	349590	114225	473.797	523.757
38)Aroclor-1262 {4}	9.626	9.852	179387	121411	506.496	539.129
39)Aroclor-1262 {5}	9.991	10.429	63430	32803	411.314	573.324 #
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89564.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 20:34
Operator : MAS
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 10:03:25 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:03:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	10.211	11.009	368812	205195	52.511	58.988

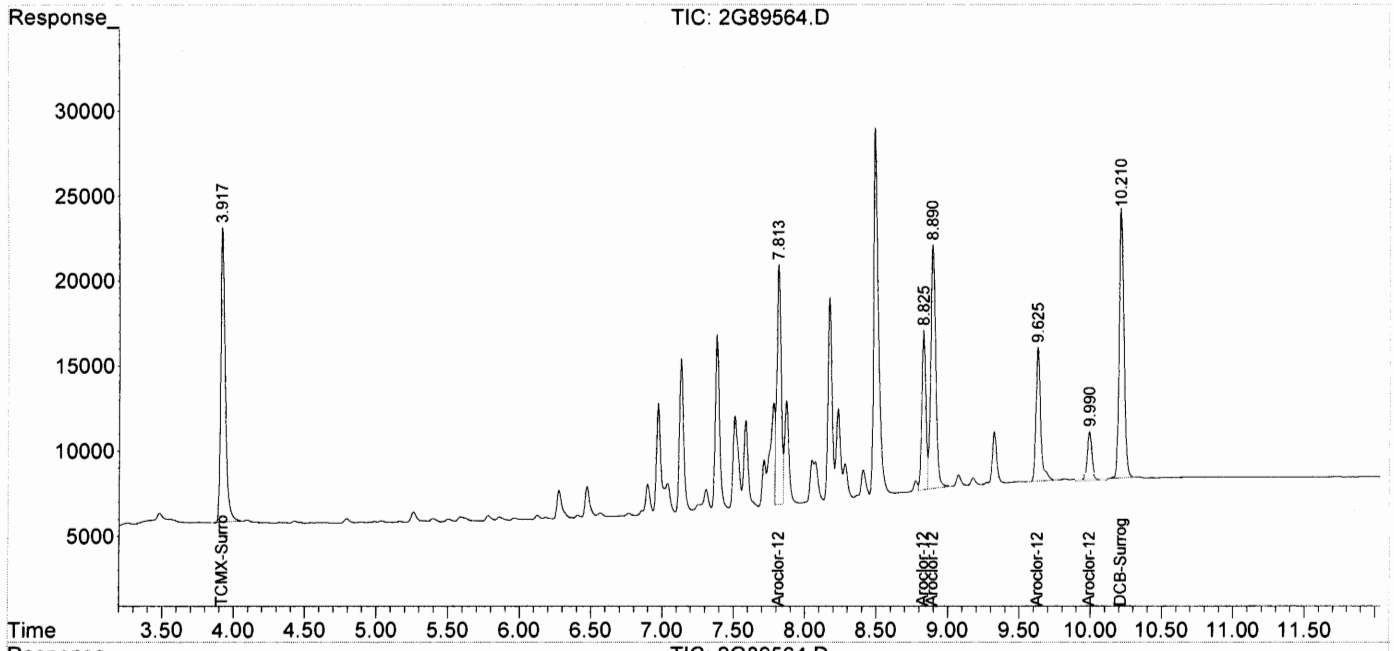
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

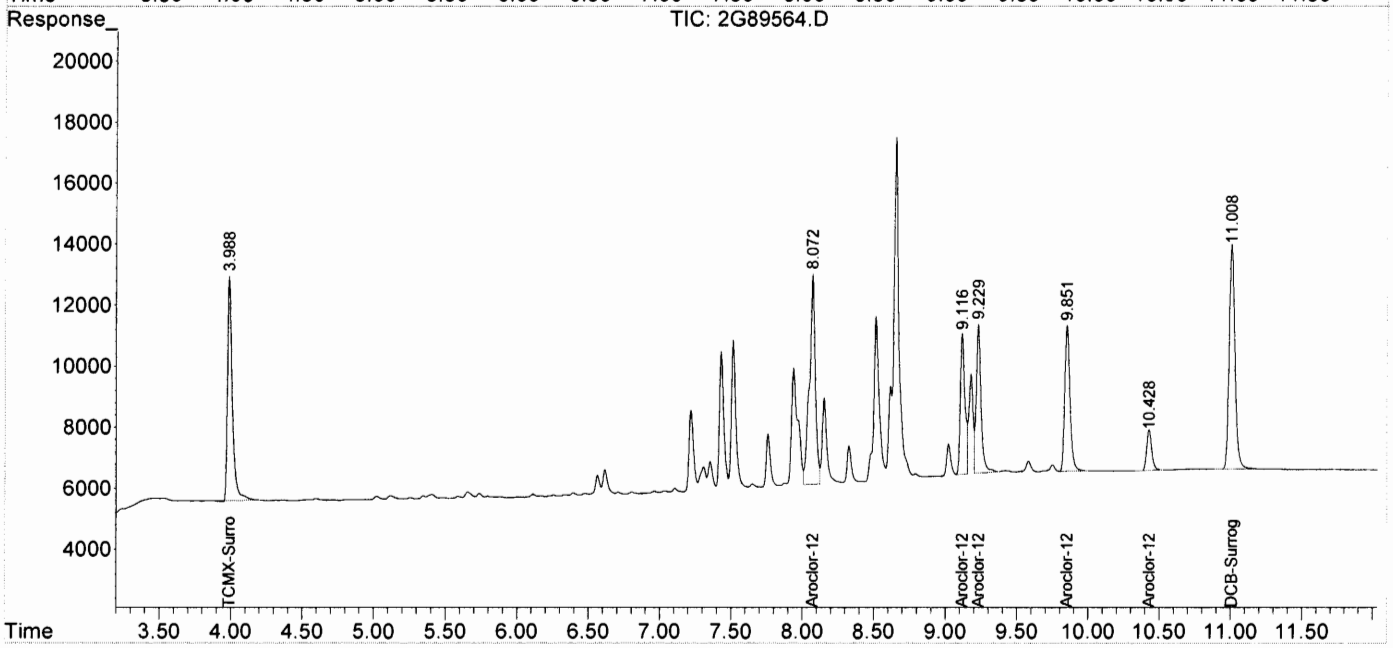
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-02-14\
Data File : 2G89564.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 May 2014 20:34
Operator : MAS
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 05 10:03:25 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:03:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





4052101 1042

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G84215.	CAL 1660@50PPB	05/07/14 10:35	2	3G84216.	CAL 1660@200PPB	05/07/14 10:50
3	3G84217.	CAL 1660@500PPB	05/07/14 11:05	4	3G84218.	CAL 1660@1000PPB	05/07/14 11:20
5	3G84219.	CAL 1660@2000PPB	05/07/14 11:35	6	3G84220.	CAL 1660@4000PPB	05/07/14 11:50
7	3G84221.	CAL 3268@500PPB	05/07/14 12:05	8	3G84222.	CAL 1242@500PPB	05/07/14 12:20
9	3G84223.	CAL 1248@500PPB	05/07/14 12:35	10	3G84224.	CAL 2154@500PPB	05/07/14 12:50
11	3G84225.	CAL 1262@500PPB	05/07/14 13:05				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Qua	3.1944	2.8880	2.8061	2.6840	2.5892	2.4450	----	----	2.77	3.92	0.999	1.00	9.4	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	1	1	Qua	0.0780	0.0717	0.0612	0.0643	0.0590	0.0538	----	----	0.0647	4.33	0.997	1.00	14	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	2	Qua	0.1650	0.1401	0.1261	0.1119	0.1007	0.0899	----	----	0.122	4.66	0.995	1.00	22	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	3	Qua	0.3228	0.2773	0.2581	0.2305	0.2111	0.1915	----	----	0.249	5.13	0.997	1.00	19	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	4	Qua	0.1284	0.1197	0.1134	0.1026	0.0942	0.0860	----	----	0.107	5.25	0.997	1.00	15	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	5	Qua	0.2214	0.2268	0.2076	0.1827	0.1640	0.1470	----	----	0.192	5.45	0.995	0.999	17	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	1	Qua	0.2076	0.1766	0.1707	0.1512	0.1377	0.1246	----	----	0.161	6.90	0.996	1.00	19	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	2	Qua	0.2406	0.2040	0.1938	0.1720	0.1569	0.1426	----	----	0.185	7.15	0.997	1.00	19	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	3	Qua	0.1016	0.0898	0.0899	0.0835	0.0804	0.0763	----	----	0.0870	7.63	0.999	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	4	Qua	0.1717	0.1457	0.1372	0.1241	0.1142	0.1055	----	----	0.133	7.91	0.998	1.00	18	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	5	Avg	0.2343	0.2147	0.2080	0.1940	0.1866	0.1795	----	----	0.203	8.62	0.999	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	1	1	Avg	----	----	----	----	----	----	----	----	0.0421	4.15	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	2	Avg	----	----	----	----	----	----	----	----	0.0215	4.27	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	3	Avg	----	----	----	----	----	----	----	----	0.112	4.33	-1	-1	Lvl=10	500.0							
Aroclor-1232	1	1	Avg	----	----	----	----	----	----	----	----	0.0648	4.33	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	2	Avg	----	----	----	----	----	----	----	----	0.0588	4.66	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	3	Avg	----	----	----	----	----	----	----	----	0.118	5.14	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	4	Avg	----	----	----	----	----	----	----	----	0.0507	5.25	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	5	Avg	----	----	----	----	----	----	----	----	0.0590	5.67	-1	-1	Lvl=7	500.0							
Aroclor-1242	1	1	Avg	----	----	----	----	----	----	----	----	0.0550	4.33	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	2	Avg	----	----	----	----	----	----	----	----	0.106	4.66	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	3	Avg	----	----	----	----	----	----	----	----	0.217	5.14	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	4	Avg	----	----	----	----	----	----	----	----	0.176	5.45	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	5	Avg	----	----	----	----	----	----	----	----	0.100	5.67	-1	-1	Lvl=8	500.0							
Aroclor-1248	1	1	Avg	----	----	----	----	----	----	----	----	0.0577	4.66	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	2	Avg	----	----	----	----	----	----	----	----	0.151	5.14	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	3	Avg	----	----	----	----	----	----	----	----	0.262	5.44	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	4	Avg	----	----	----	----	----	----	----	----	0.134	5.79	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	5	Avg	----	----	----	----	----	----	----	----	0.164	6.37	-1	-1	Lvl=9	500.0							
Aroclor-1254	1	1	Avg	----	----	----	----	----	----	----	----	0.0656	6.55	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	2	Avg	----	----	----	----	----	----	----	----	0.225	6.75	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	3	Avg	----	----	----	----	----	----	----	----	0.140	6.91	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	4	Avg	----	----	----	----	----	----	----	----	0.183	7.04	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	5	Avg	----	----	----	----	----	----	----	----	0.0824	7.42	-1	-1	Lvl=10	500.0							
Aroclor-1262	1	1	Avg	----	----	----	----	----	----	----	----	0.218	7.58	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	2	Avg	----	----	----	----	----	----	----	----	0.140	8.56	-1	-1	Lvl=11	500.0							

Avg Rsd Col 1: 15.7 Avg Rsd Col 2: 20.8

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

4052101 1043

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G84215.	CAL 1660@50PPB	05/07/14 10:35	2	3G84216.	CAL 1660@200PPB	05/07/14 10:50
3	3G84217.	CAL 1660@500PPB	05/07/14 11:05	4	3G84218.	CAL 1660@1000PPB	05/07/14 11:20
5	3G84219.	CAL 1660@2000PPB	05/07/14 11:35	6	3G84220.	CAL 1660@4000PPB	05/07/14 11:50
7	3G84221.	CAL 3268@500PPB	05/07/14 12:05	8	3G84222.	CAL 1242@500PPB	05/07/14 12:20
9	3G84223.	CAL 1248@500PPB	05/07/14 12:35	10	3G84224.	CAL 2154@500PPB	05/07/14 12:50
11	3G84225.	CAL 1262@500PPB	05/07/14 13:05				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1262	1	3	Avg	----	----	----	----	----	----	----	----	0.281	8.62	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	4	Avg	----	----	----	----	----	----	----	----	0.128	9.29	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	5	Avg	----	----	----	----	----	----	----	----	0.0504	9.65	-1	-1	Lvl=11	500.0							
Aroclor-1268	1	1	Avg	----	----	----	----	----	----	----	----	0.0462	7.93	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	2	Avg	----	----	----	----	----	----	----	----	0.0369	8.23	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	3	Avg	----	----	----	----	----	----	----	----	0.301	8.82	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	4	Avg	----	----	----	----	----	----	----	----	0.0865	8.91	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	5	Avg	----	----	----	----	----	----	----	----	0.897	9.64	-1	-1	Lvl=7	500.0							
DCB-Surrogate	1	0	Qua	3.2467	2.8593	2.6595	2.4313	2.2663	2.1394	----	----	2.60	9.87	0.999	1.00	16	5.00	20.00	50.00	100.0	200.0	400.0		
TCMX-Surrogate	2	0	Qua	4.2696	3.6235	3.5141	3.2818	3.1724	3.0606	----	----	3.49	3.91	1.00	1.00	13	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	2	1	Qua	0.1182	0.0924	0.0847	0.0766	0.0705	0.0646	----	----	0.0846	4.49	0.997	1.00	23	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	2	Qua	0.2275	0.1855	0.1608	0.1389	0.1236	0.1107	----	----	0.158	4.90	0.996	0.999	27	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	3	Qua	0.4586	0.3762	0.3353	0.2963	0.2722	0.2510	----	----	0.332	5.28	0.998	1.00	23	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	4	Qua	0.1906	0.1474	0.1297	0.1129	0.1032	0.0942	----	----	0.130	5.60	0.997	1.00	27	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	5	Qua	0.1279	0.1048	0.0921	0.0806	0.0738	0.0681	----	----	0.0913	5.96	0.998	1.00	24	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	1	Qua	0.3164	0.2503	0.2171	0.1894	0.1699	0.1546	----	----	0.216	7.24	0.997	1.00	28	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	2	Qua	0.3459	0.2750	0.2441	0.2157	0.1964	0.1822	----	----	0.243	7.33	0.998	1.00	25	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	3	Qua	0.2682	0.2222	0.1985	0.1819	0.1707	0.1609	----	----	0.200	8.30	0.999	1.00	20	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	4	Qua	0.2482	0.2150	0.2023	0.1861	0.1836	0.1813	----	----	0.203	9.00	1.00	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	5	Avg	0.1636	0.1462	0.1395	0.1305	0.1291	0.1264	----	----	0.139	9.58	1.00	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	2	1	Avg	----	----	----	----	----	----	----	----	0.0519	4.28	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	2	Avg	----	----	----	----	----	----	----	----	0.0251	4.43	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	3	Avg	----	----	----	----	----	----	----	----	0.0978	4.49	-1	-1	Lvl=10	500.0							
Aroclor-1232	2	1	Avg	----	----	----	----	----	----	----	----	0.0855	4.49	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	2	Avg	----	----	----	----	----	----	----	----	0.0780	4.89	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	3	Avg	----	----	----	----	----	----	----	----	0.150	5.28	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	4	Avg	----	----	----	----	----	----	----	----	0.0471	5.96	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	5	Avg	----	----	----	----	----	----	----	----	0.0498	6.10	-1	-1	Lvl=7	500.0							
Aroclor-1242	2	1	Avg	----	----	----	----	----	----	----	----	0.0741	4.49	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	2	Avg	----	----	----	----	----	----	----	----	0.132	4.90	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	3	Avg	----	----	----	----	----	----	----	----	0.276	5.28	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	4	Avg	----	----	----	----	----	----	----	----	0.106	5.60	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	5	Avg	----	----	----	----	----	----	----	----	0.0798	5.96	-1	-1	Lvl=8	500.0							
Aroclor-1248	2	1	Avg	----	----	----	----	----	----	----	----	0.0678	4.90	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	2	Avg	----	----	----	----	----	----	----	----	0.173	5.28	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	3	Avg	----	----	----	----	----	----	----	----	0.119	5.59	-1	-1	Lvl=9	500.0							

Avg Rsd Col 1: 15.7 Avg Rsd Col 2: 20.8

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

4052101 1044

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G84215.	CAL 1660@50PPB	05/07/14 10:35	2	3G84216.	CAL 1660@200PPB	05/07/14 10:50
3	3G84217.	CAL 1660@500PPB	05/07/14 11:05	4	3G84218.	CAL 1660@1000PPB	05/07/14 11:20
5	3G84219.	CAL 1660@2000PPB	05/07/14 11:35	6	3G84220.	CAL 1660@4000PPB	05/07/14 11:50
7	3G84221.	CAL 3268@500PPB	05/07/14 12:05	8	3G84222.	CAL 1242@500PPB	05/07/14 12:20
9	3G84223.	CAL 1248@500PPB	05/07/14 12:35	10	3G84224.	CAL 2154@500PPB	05/07/14 12:50
11	3G84225.	CAL 1262@500PPB	05/07/14 13:05				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1248	2	4	Avg	----	----	----	----	----	----	----	----	0.130	6.10	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	5	Avg	----	----	----	----	----	----	----	----	0.162	6.24	-1	-1	Lvl=9	500.0							
Aroclor-1254	2	1	Avg	----	----	----	----	----	----	----	----	0.219	6.45	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	2	Avg	----	----	----	----	----	----	----	----	0.0674	6.78	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	3	Avg	----	----	----	----	----	----	----	----	0.167	7.18	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	4	Avg	----	----	----	----	----	----	----	----	0.0712	7.70	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	5	Avg	----	----	----	----	----	----	----	----	0.0977	8.37	-1	-1	Lvl=10	500.0							
Aroclor-1262	2	1	Avg	----	----	----	----	----	----	----	----	0.149	7.74	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	2	Avg	----	----	----	----	----	----	----	----	0.204	8.89	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	3	Avg	----	----	----	----	----	----	----	----	0.237	9.00	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	4	Avg	----	----	----	----	----	----	----	----	0.268	9.58	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	5	Avg	----	----	----	----	----	----	----	----	0.0717	10.11	-1	-1	Lvl=11	500.0							
Aroclor-1268	2	1	Avg	----	----	----	----	----	----	----	----	0.0400	8.40	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	2	Avg	----	----	----	----	----	----	----	----	0.0704	8.44	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	3	Avg	----	----	----	----	----	----	----	----	0.470	9.32	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	4	Avg	----	----	----	----	----	----	----	----	0.125	9.48	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	5	Avg	----	----	----	----	----	----	----	----	1.39	10.11	-1	-1	Lvl=7	500.0							
DCB-Surrogate	2	0	Qua	4.9929	4.1643	3.8757	3.5353	3.3621	3.2481	----	----	3.86	10.64	1.00	1.00	17	5.00	20.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 15.7 Avg Rsd Col 2: 20.8

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Quantitation Report (QT Reviewed)

4052101 1045

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84215.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 10:35
Operator : MLC/MAS
Sample : CAL 1660@50PPB
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:43:16 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.929	3.905	159724	213484	5.189m	6.297m
2)Aroclor-1016 {1}	4.341	4.493	39032	59130	54.720m	74.157m#
3)Aroclor-1016 {2}	4.669	4.896	82536	113757	63.559m	78.033m
4)Aroclor-1016 {3}	5.149	5.284	161413	229341	60.953m	74.865m
5)Aroclor-1016 {4}	5.260	5.595	64211	95311	55.631m	80.801m#
6)Aroclor-1016 {5}	5.462	5.955	110702	63962	53.816m	76.747m#
7)Aroclor-1260 {1}	6.914	7.242	103828	158217	62.947	80.558m#
8)Aroclor-1260 {2}	7.167	7.328	120313	172988	64.835	78.666m
9)Aroclor-1260 {3}	7.643	8.304	50840	134124	57.733m	75.914m#
10)Aroclor-1260 {4}	7.921	8.998	85866	124118	67.688m	66.739m
11)Aroclor-1260 {5}	8.634	9.578	117191	81823	58.647	65.186m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D.	N.D.
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84215.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 10:35
Operator : MLC/MAS
Sample : CAL 1660@50PPB
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:43:16 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.883	10.637	162336	249646	7.310	7.693m

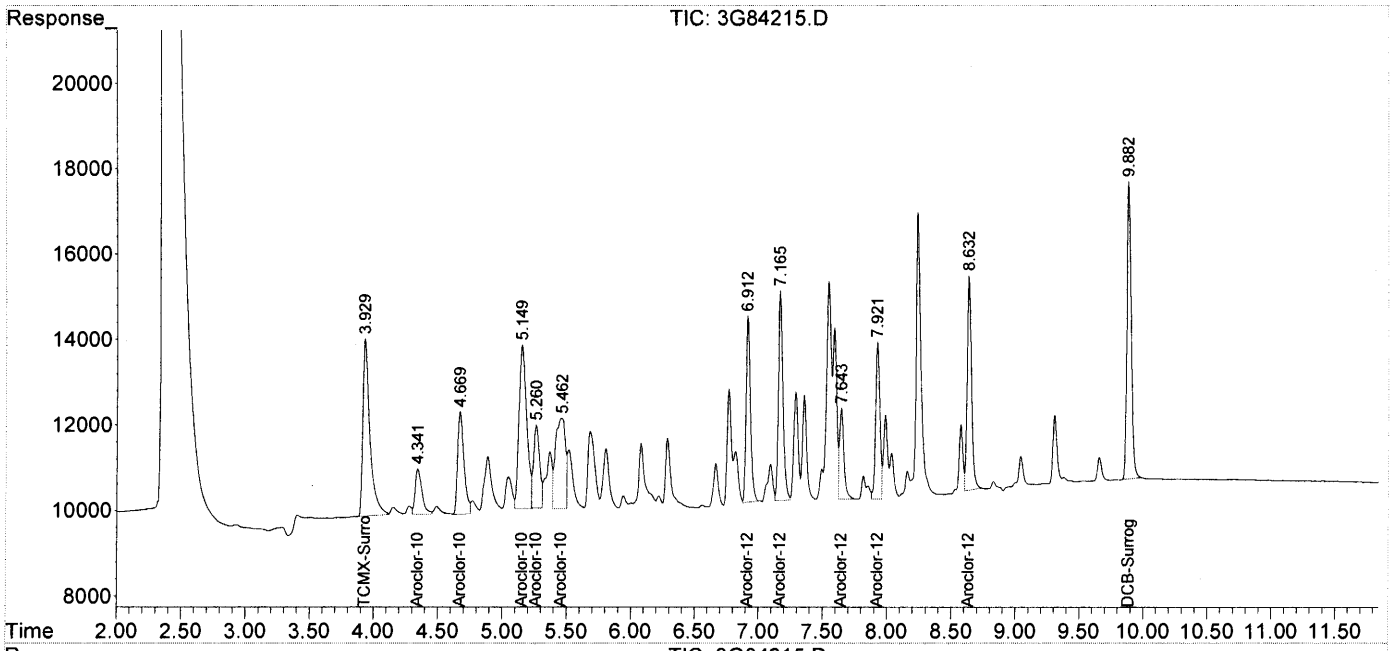
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

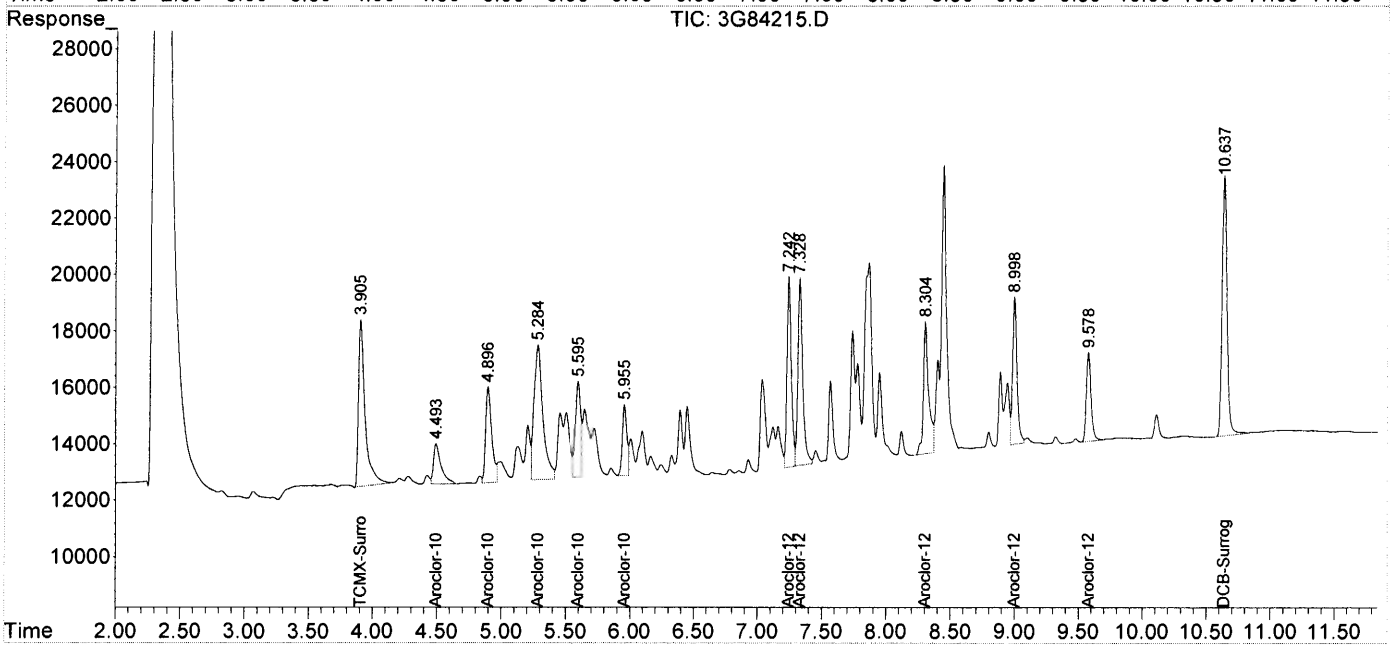
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84215.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 10:35
Operator : MLC/MAS
Sample : CAL 1660@50PPB
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:43:16 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1048

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84216.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 10:50
Operator : MLC/MAS
Sample : CAL 1660@200PPB
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:40:33 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.924	3.906	577615	724703	18.845m	21.374m
2)Aroclor-1016 {1}	4.336	4.495	143457	184879	202.501m	233.649
3)Aroclor-1016 {2}	4.663	4.897	280253	371034	217.890m	257.265
4)Aroclor-1016 {3}	5.141	5.284	554760	752440	211.192	247.499
5)Aroclor-1016 {4}	5.253	5.597	239556	294959	209.128	252.098
6)Aroclor-1016 {5}	5.455	5.957	453648	209757	222.790	253.353
7)Aroclor-1260 {1}	6.906	7.242	353226	500789	215.928	257.478
8)Aroclor-1260 {2}	7.158	7.327	408076	550029	221.646	252.071
9)Aroclor-1260 {3}	7.636	8.303	179632	444459	204.853	252.924m
10)Aroclor-1260 {4}	7.916	8.997	291487	430135	231.382	231.947m
11)Aroclor-1260 {5}	8.626	9.578	429507	292550	214.943	233.542
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D.	N.D.
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84216.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 10:50
Operator : MLC/MAS
Sample : CAL 1660@200PPB
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:40:33 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

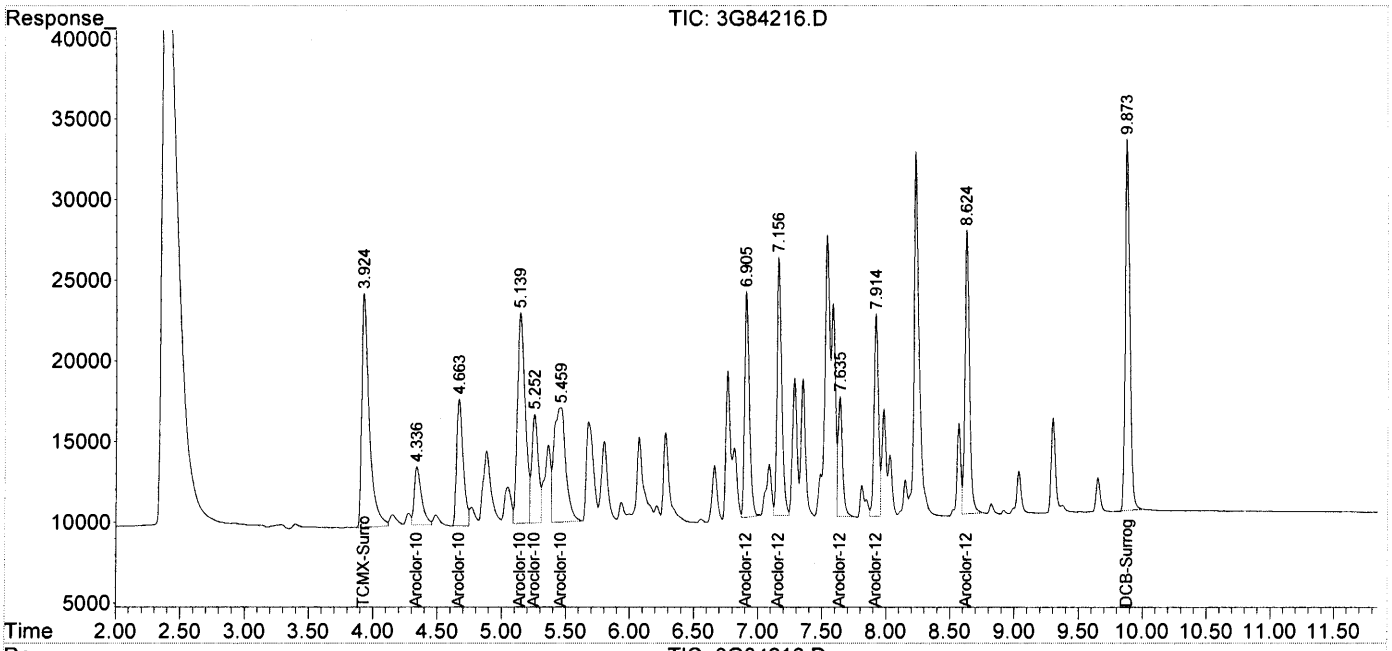
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.875	10.636	571870	832870	25.933	25.822

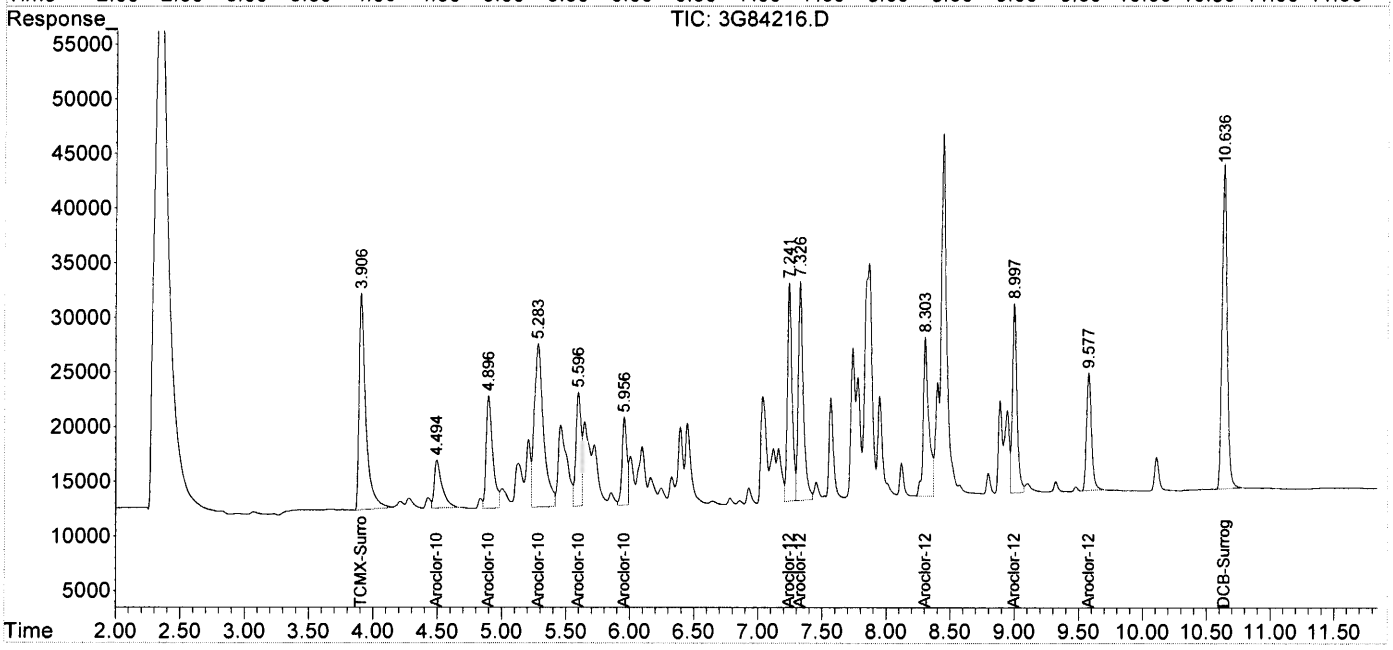
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84216.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 10:50
Operator : MLC/MAS
Sample : CAL 1660@200PPB
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:40:33 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1051

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84217.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 11:05
Operator : MLC/MAS
Sample : CAL 1660@500PPB
Misc : A,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:39:38 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.923	3.907	1403080	1757093	46.177	51.824
2)Aroclor-1016 {1}	4.334	4.493	306201	423755	437.004	543.683
3)Aroclor-1016 {2}	4.662	4.896	630504	804052	498.930	568.157
4)Aroclor-1016 {3}	5.133	5.280	1290810	1676591	499.188	559.193
5)Aroclor-1016 {4}	5.247	5.595	567161	648766	502.439	562.842
6)Aroclor-1016 {5}	5.453	5.955	1038155	460721	519.157	563.022
7)Aroclor-1260 {1}	6.903	7.241	853934	1085503	531.107	567.856
8)Aroclor-1260 {2}	7.154	7.325	969242	1220781	534.899	567.494
9)Aroclor-1260 {3}	7.634	8.302	449830	992691	517.667	570.435m
10)Aroclor-1260 {4}	7.913	8.997	686443	1011682	552.462	548.548m
11)Aroclor-1260 {5}	8.622	9.577	1040292	697709	520.605	559.190
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84217.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 11:05
Operator : MLC/MAS
Sample : CAL 1660@500PPB
Misc : A,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:39:38 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.873	10.636	1329767	1937861	61.120	60.800

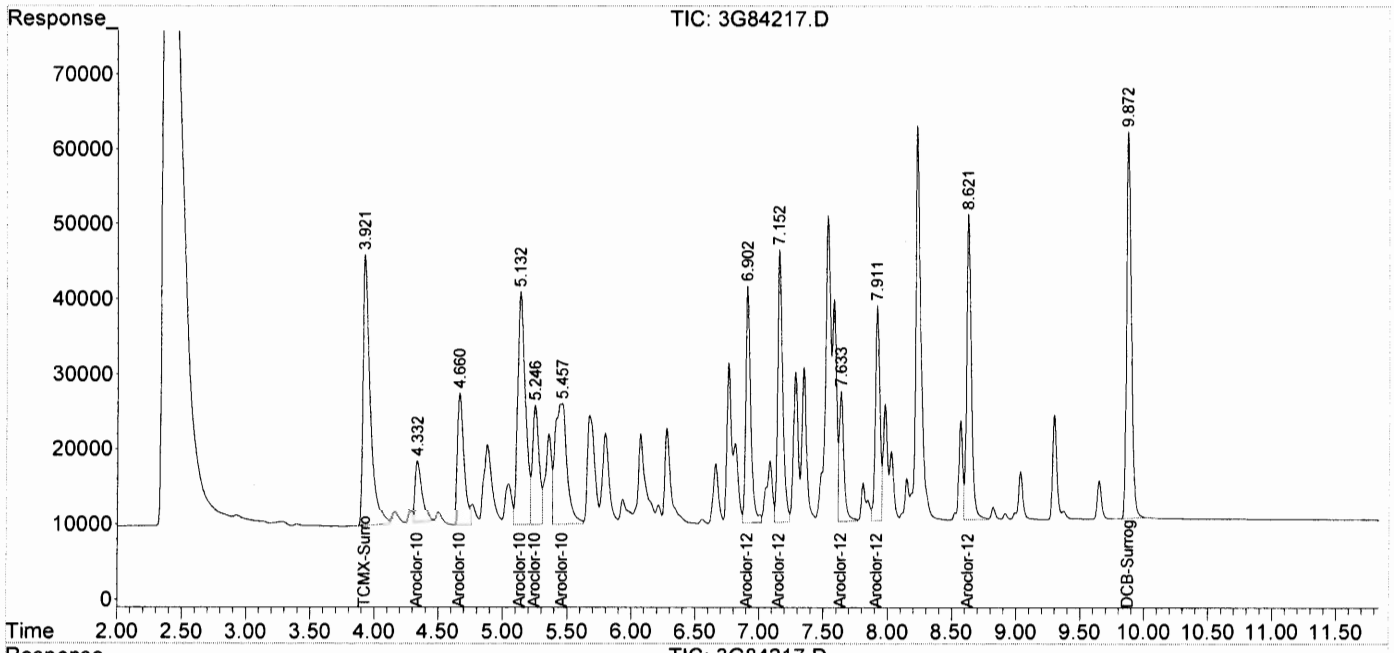
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

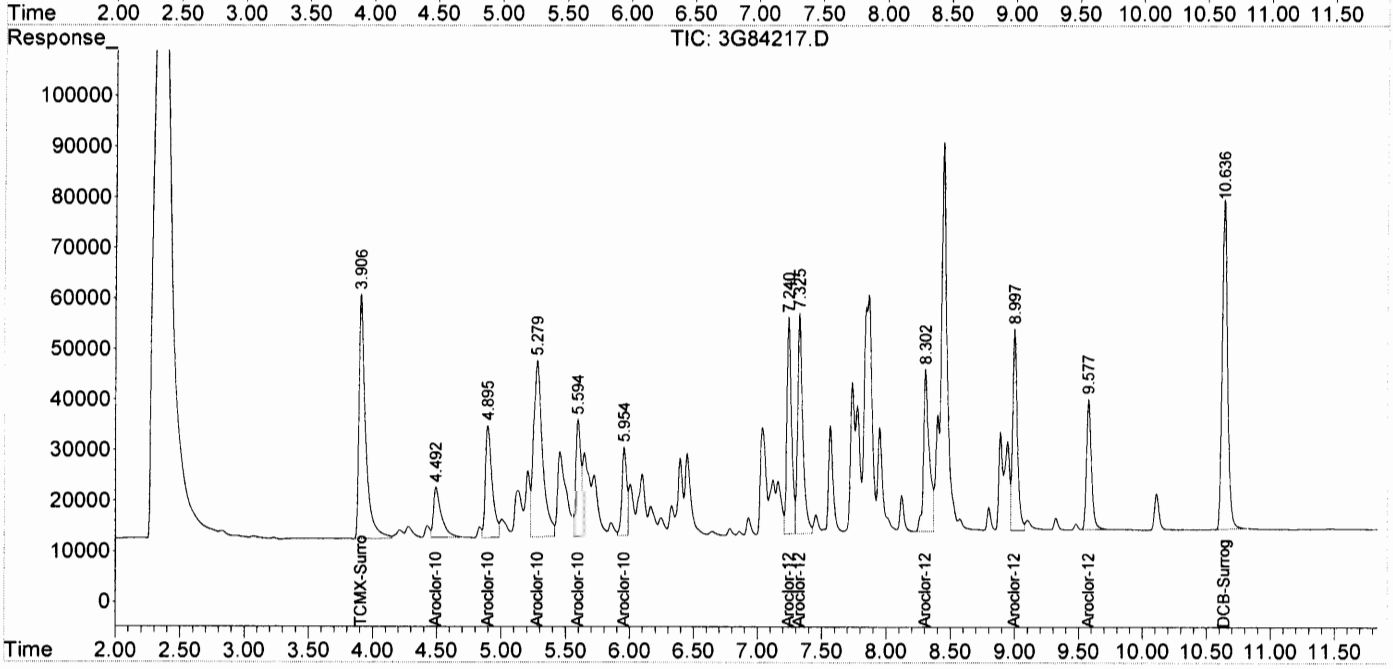
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84217.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 11:05
Operator : MLC/MAS
Sample : CAL 1660@500PPB
Misc : A,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:39:38 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1054

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84218.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 11:20
Operator : MLC/MAS
Sample : CAL 1660@1000PPB
Misc : A,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:43:48 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.920	3.905	2684005	3281860	89.580	96.795
2)Aroclor-1016 {1}	4.329	4.491	643897	766712	941.334	1006.550
3)Aroclor-1016 {2}	4.659	4.895	1119500	1389657	909.547	1009.311
4)Aroclor-1016 {3}	5.127	5.276	2305027	2963945	912.140	1008.923
5)Aroclor-1016 {4}	5.242	5.593	1026121	1129901	928.989	1001.547
6)Aroclor-1016 {5}	5.453	5.954	1827906	806599	938.329	1002.421
7)Aroclor-1260 {1}	6.901	7.240	1512617	1894630	963.835	1016.830
8)Aroclor-1260 {2}	7.151	7.325	1720617	2157805	971.297	1024.367
9)Aroclor-1260 {3}	7.632	8.302	835448	1819924	974.417	1061.890m
10)Aroclor-1260 {4}	7.911	8.996	1241823	1861594	1020.070	1017.693m
11)Aroclor-1260 {5}	8.620	9.577	1940757	1305274	971.234	1052.458
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84218.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 11:20
Operator : MLC/MAS
Sample : CAL 1660@1000PPB
Misc : A,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:43:48 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

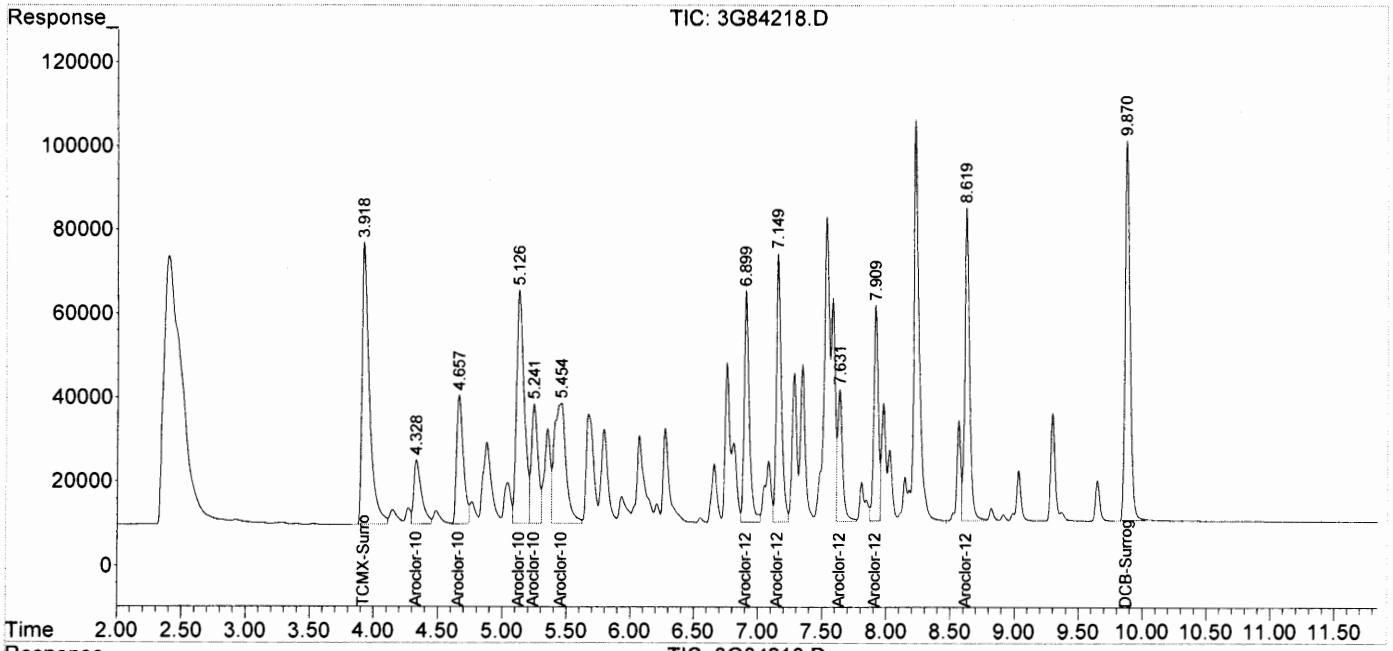
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.872	10.636	2431315	3535300	114.084	112.934

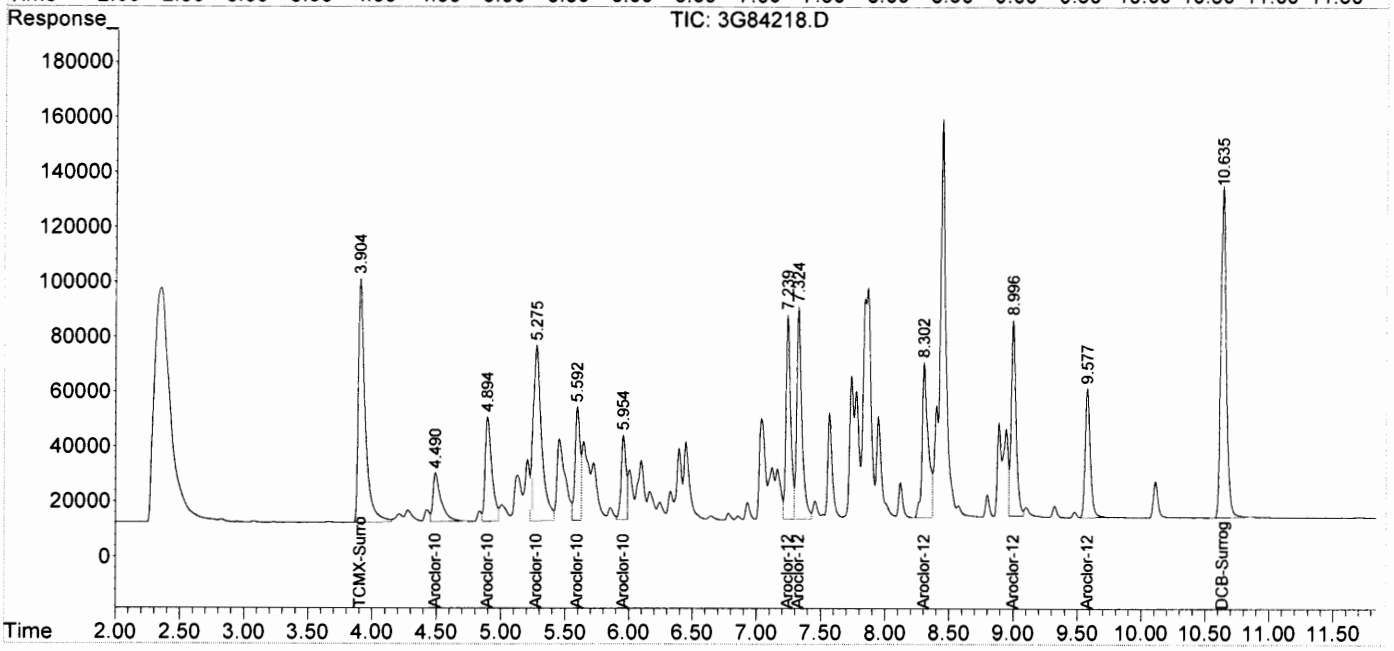
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84218.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 11:20
Operator : MLC/MAS
Sample : CAL 1660@1000PPB
Misc : A,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:43:48 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84219.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 11:35
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : A,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:44:08 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.918	3.906	5178486	6344981	177.947	187.139
2)Aroclor-1016 {1}	4.327	4.489	1181131	1411621	1801.557	1944.760
3)Aroclor-1016 {2}	4.658	4.894	2015356	2473328	1729.680	1903.946
4)Aroclor-1016 {3}	5.122	5.274	4222337	5444402	1754.003	1935.380
5)Aroclor-1016 {4}	5.238	5.592	1883980	2064235	1784.213	1916.571
6)Aroclor-1016 {5}	5.452	5.953	3280761	1477418	1778.680	1902.181
7)Aroclor-1260 {1}	6.900	7.240	2754492	3399193	1847.643	1925.323
8)Aroclor-1260 {2}	7.149	7.323	3139422	3929107	1858.739	1948.951
9)Aroclor-1260 {3}	7.631	8.301	1607982	3415455	1929.962	2056.963m
10)Aroclor-1260 {4}	7.910	8.995	2285874	3672507	1958.853	2044.523
11)Aroclor-1260 {5}	8.619	9.576	3732473	2582619	1867.882	2109.749
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84219.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 11:35
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : A,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:44:08 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

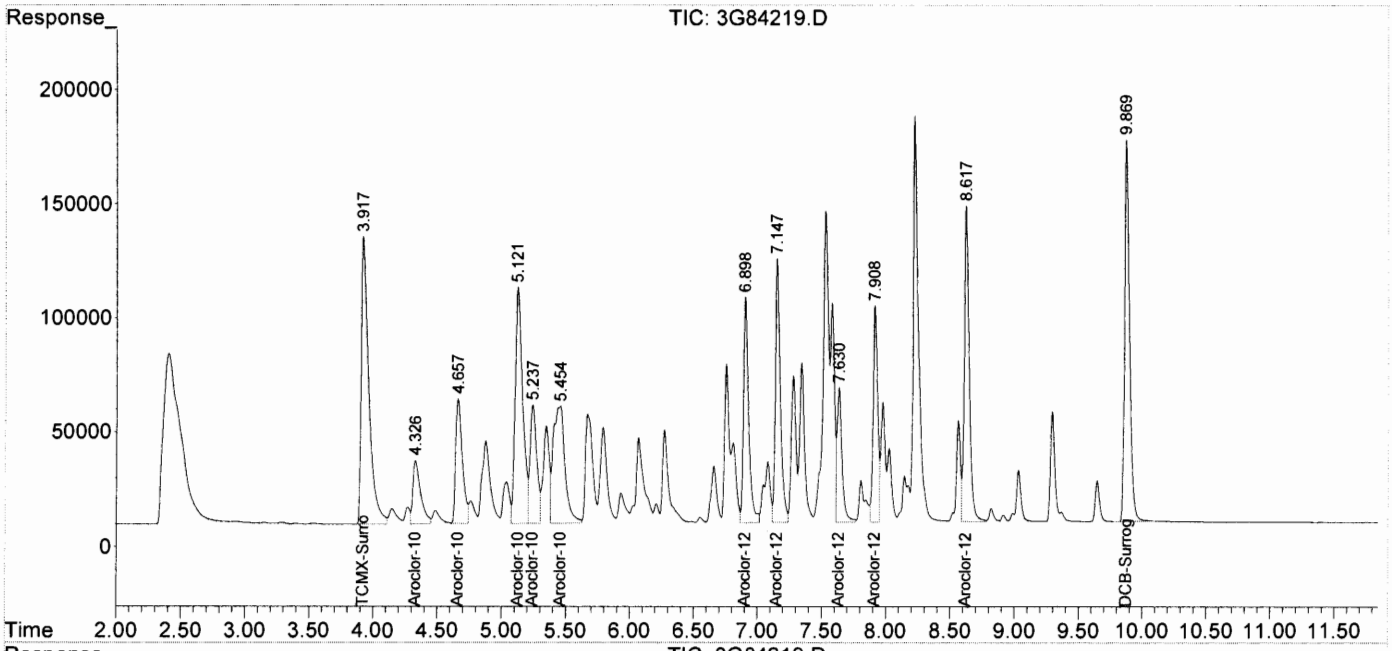
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.871	10.635	4532696	6724297	222.148	223.409

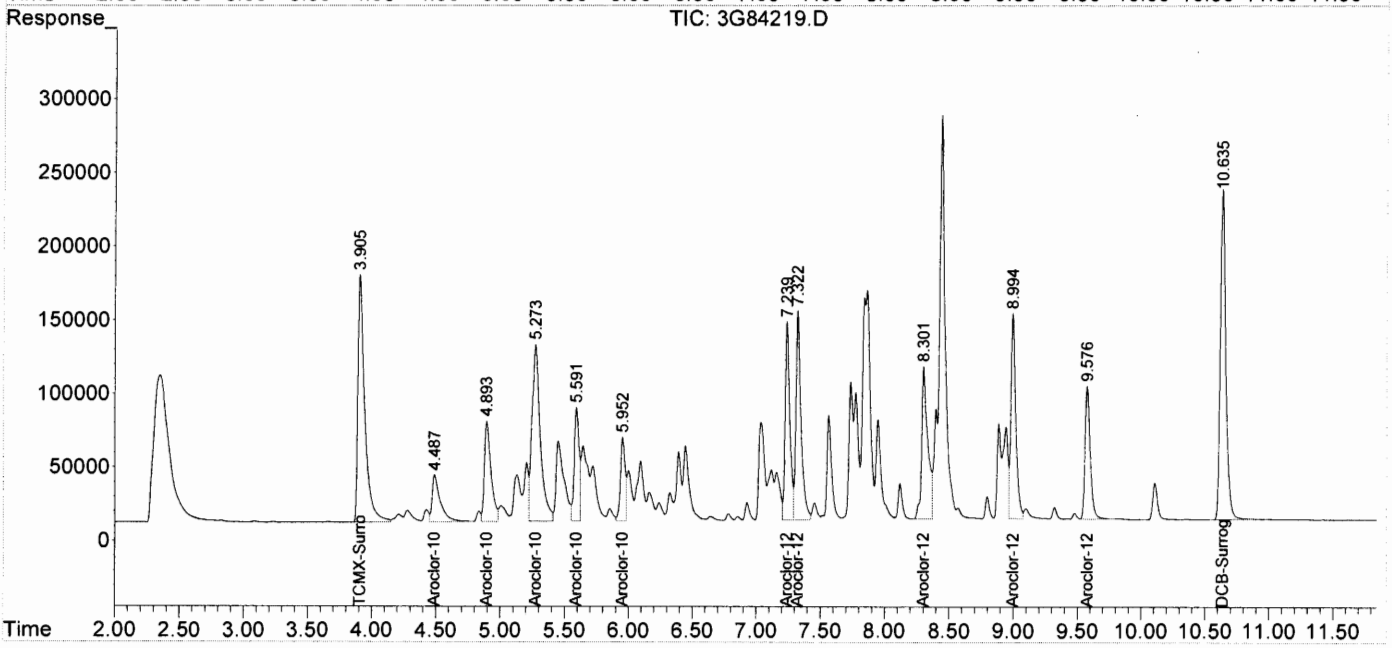
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84219.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 11:35
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : A,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:44:08 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1060

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84220.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 11:50
Operator : MLC/MAS
Sample : CAL 1660@4000PPB
Misc : A,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:44:23 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.914	3.903	9780154	12242727	357.572	361.087
2)Aroclor-1016 {1}	4.322	4.485	2152566	2585361	3612.925	3992.272
3)Aroclor-1016 {2}	4.655	4.892	3596695	4431132	3519.927	3953.282
4)Aroclor-1016 {3}	5.116	5.269	7659982	10043156	3563.064	3951.011
5)Aroclor-1016 {4}	5.233	5.589	3440342	3769988	3614.478	3902.112
6)Aroclor-1016 {5}	5.448	5.952	5880914	2724346	3641.568	3794.915
7)Aroclor-1260 {1}	6.897	7.238	4986260	6187158	3780.252	4016.226
8)Aroclor-1260 {2}	7.146	7.321	5707030	7288067	3777.724	4018.822
9)Aroclor-1260 {3}	7.628	8.300	3053633	6438399	3898.499	4160.479
10)Aroclor-1260 {4}	7.907	8.994	4222140	7255611	3991.781	4201.200
11)Aroclor-1260 {5}	8.615	9.576	7180434	5057844	3593.382	4244.316
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84220.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 11:50
Operator : MLC/MAS
Sample : CAL 1660@4000PPB
Misc : A,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:44:23 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

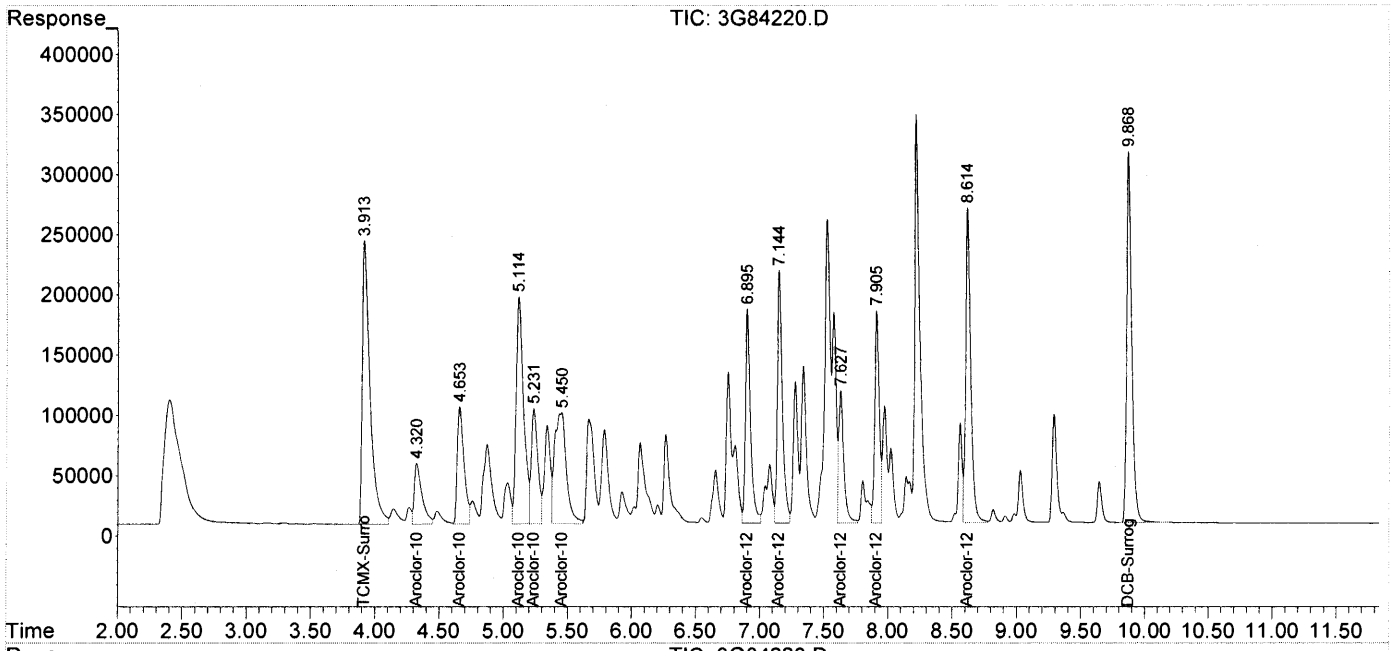
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.869	10.634	8557944	12992556	466.291	474.989

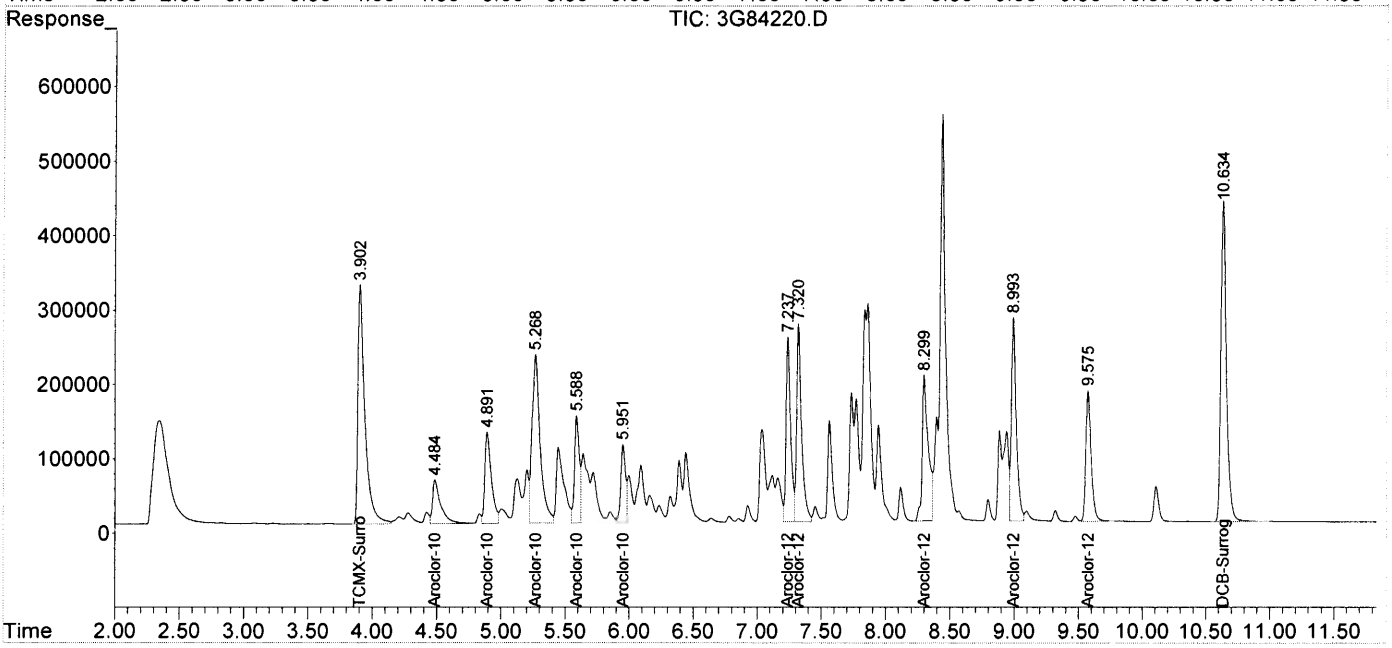
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84220.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 11:50
Operator : MLC/MAS
Sample : CAL 1660@4000PPB
Misc : A,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:44:23 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:39:05 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1063

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84221.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 12:05
Operator : MLC/MAS
Sample : CAL 3268@500PPB
Misc : A,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 09 10:31:01 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.922	3.905	1455412	1764831	53.530	53.314
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	4.334	4.493	312081	427470	481.921	500.000
16)Aroclor-1232 {2}	4.663	4.896	293790	411121	500.000	527.151
17)Aroclor-1232 {3}	5.140	5.285	591804	749666	500.000	500.000
18)Aroclor-1232 {4}	5.253	5.957	253398	235688	500.000	500.000
19)Aroclor-1232 {5}	5.674	6.097	295202	249136	500.000	500.000
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	7.933	8.395	231166	200043	500.000	500.000
41)Aroclor-1268 {2}	8.230	8.444	347607	352257	941.505	500.000 #
42)Aroclor-1268 {3}	8.817	9.320	1504050	2351343	500.000	500.000

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84221.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 12:05
Operator : MLC/MAS
Sample : CAL 3268@500PPB
Misc : A,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 09 10:31:01 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	8.911	9.476	432343	625638	500.000	500.000
44)Aroclor-1268 {5}	9.641	10.107	4484460	6925344	500.000	500.000
45)DCB-Surrogate	9.871	10.635	2309351	3348811	96.143	95.320

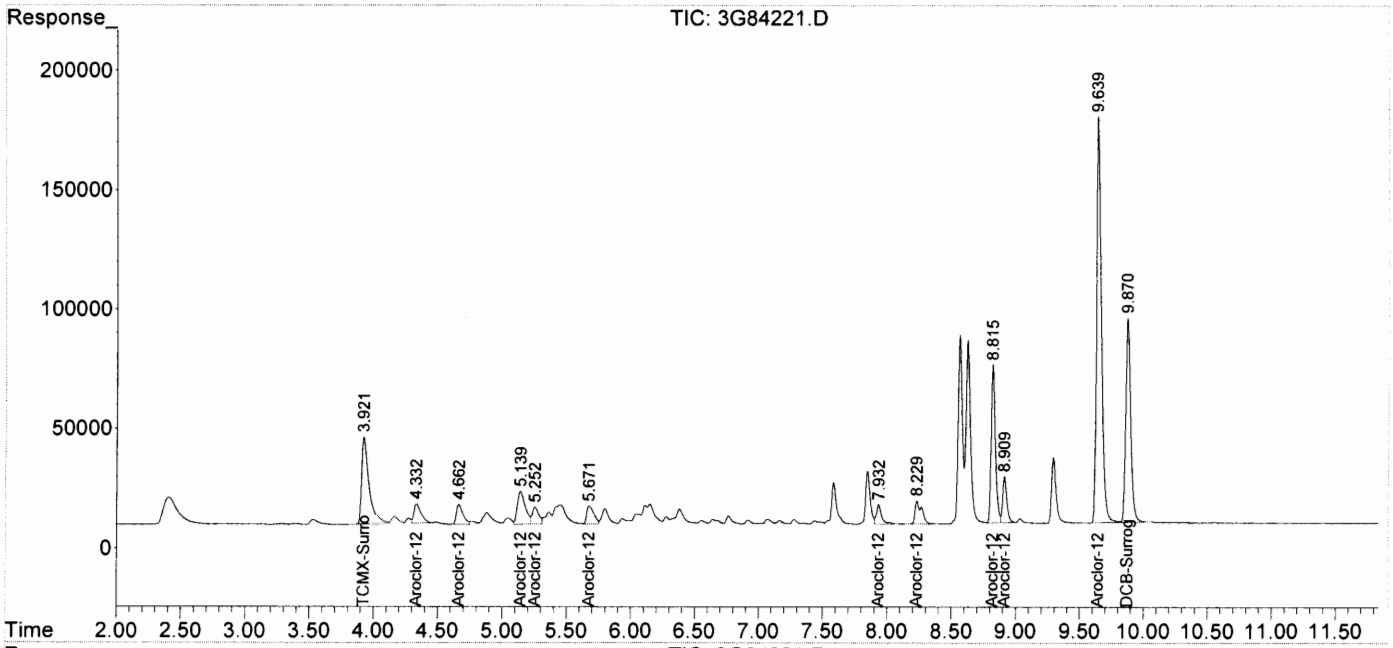
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

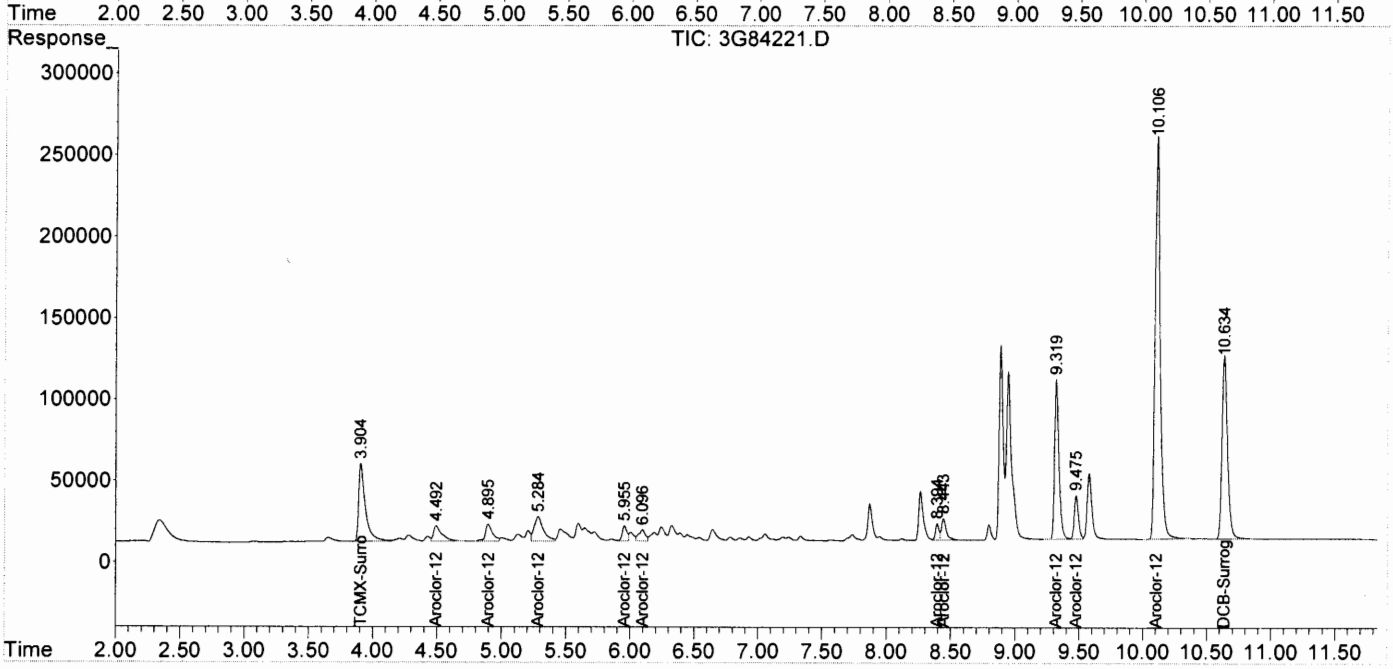
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84221.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 12:05
Operator : MLC/MAS
Sample : CAL 3268@500PPB
Misc : A,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 09 10:31:01 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84222.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 12:20
Operator : MLC/MAS
Sample : CAL 1242@500PPB
Misc : A,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:47:12 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:47:02 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.922	3.906	1475567	1804532	48.601	53.223
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	4.335	4.493	275187	370539	492.623	515.420
21)Aroclor-1242 {2}	4.662	4.896	531662	661011	506.162	522.798
22)Aroclor-1242 {3}	5.136	5.282	1086362	1377532	513.085	531.736
23)Aroclor-1242 {4}	5.453	5.597	881082	532399	534.662	506.227
24)Aroclor-1242 {5}	5.672	5.956	502028	399170	534.117	523.209
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84222.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 12:20
Operator : MLC/MAS
Sample : CAL 1242@500PPB
Misc : A,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:47:12 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:47:02 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D.	N.D.
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D.	N.D.
45)DCB-Surrogate	9.872	10.636	1397300	1997276	64.303	62.705

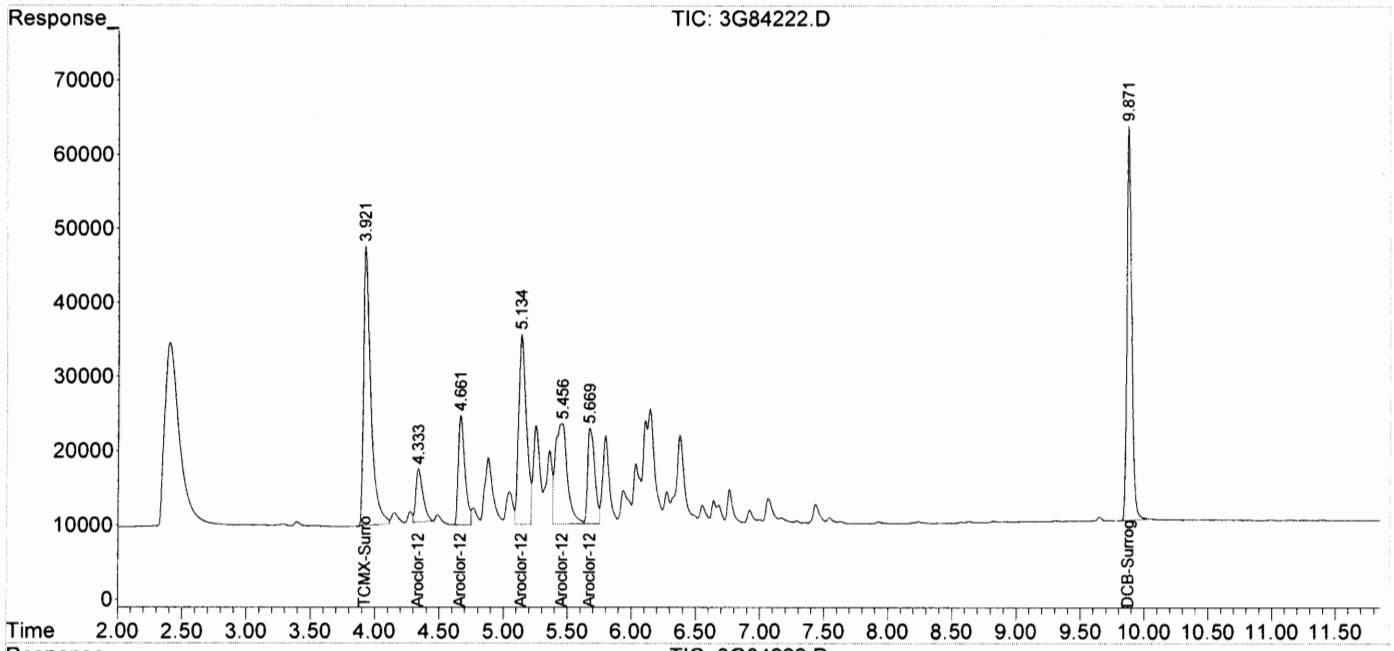
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

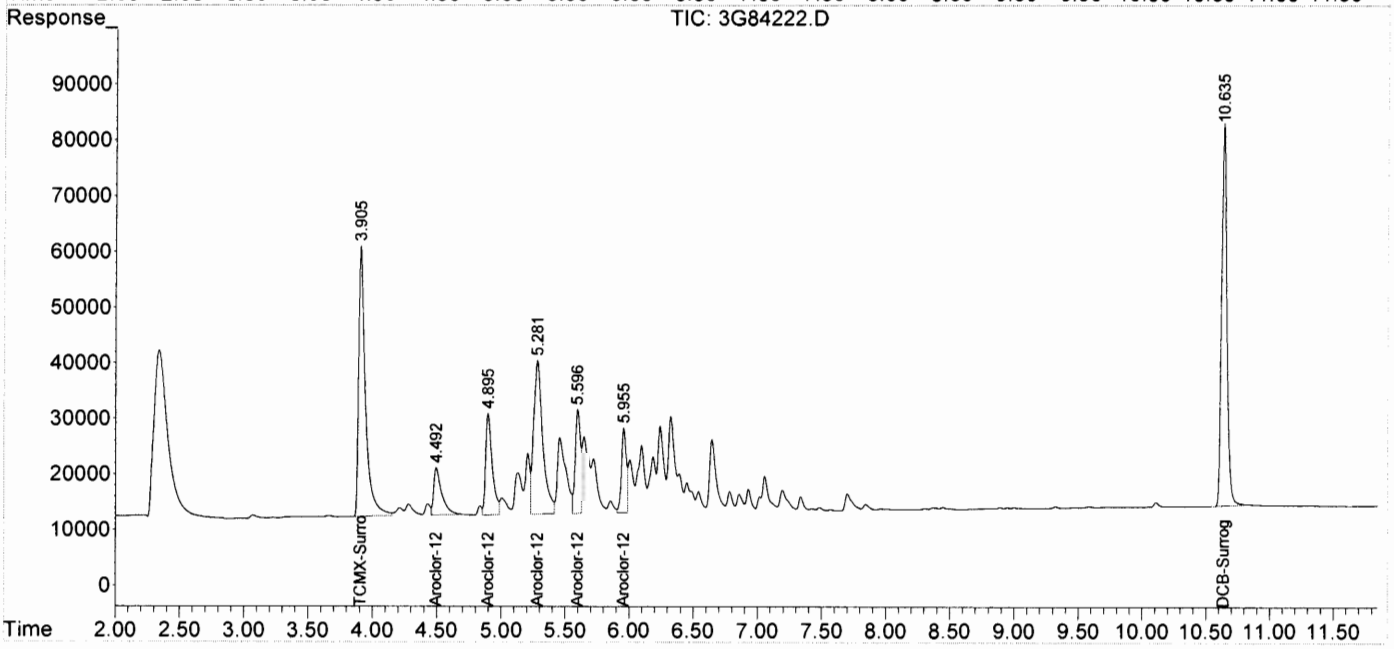
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84222.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 12:20
Operator : MLC/MAS
Sample : CAL 1242@500PPB
Misc : A,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:47:12 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:47:02 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1069

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84223.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 12:35
Operator : MLC/MAS
Sample : CAL 1248@500PPB
Misc : A,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:48:32 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:47:53 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.922	3.906	1467715	1758195	48.338	51.856
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	4.660	4.894	288603	339127	473.570m	499.827m
26)Aroclor-1248 {2}	5.139	5.283	754791	863935	491.208	503.399
27)Aroclor-1248 {3}	5.443	5.592	1309455	596562	516.722	494.194
28)Aroclor-1248 {4}	5.792	6.096	667918	652414	511.368	500.821
29)Aroclor-1248 {5}	6.368	6.239	818047	810824	528.850m	499.571
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D.	N.D.

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84223.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 12:35
Operator : MLC/MAS
Sample : CAL 1248@500PPB
Misc : A,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:48:32 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:47:53 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

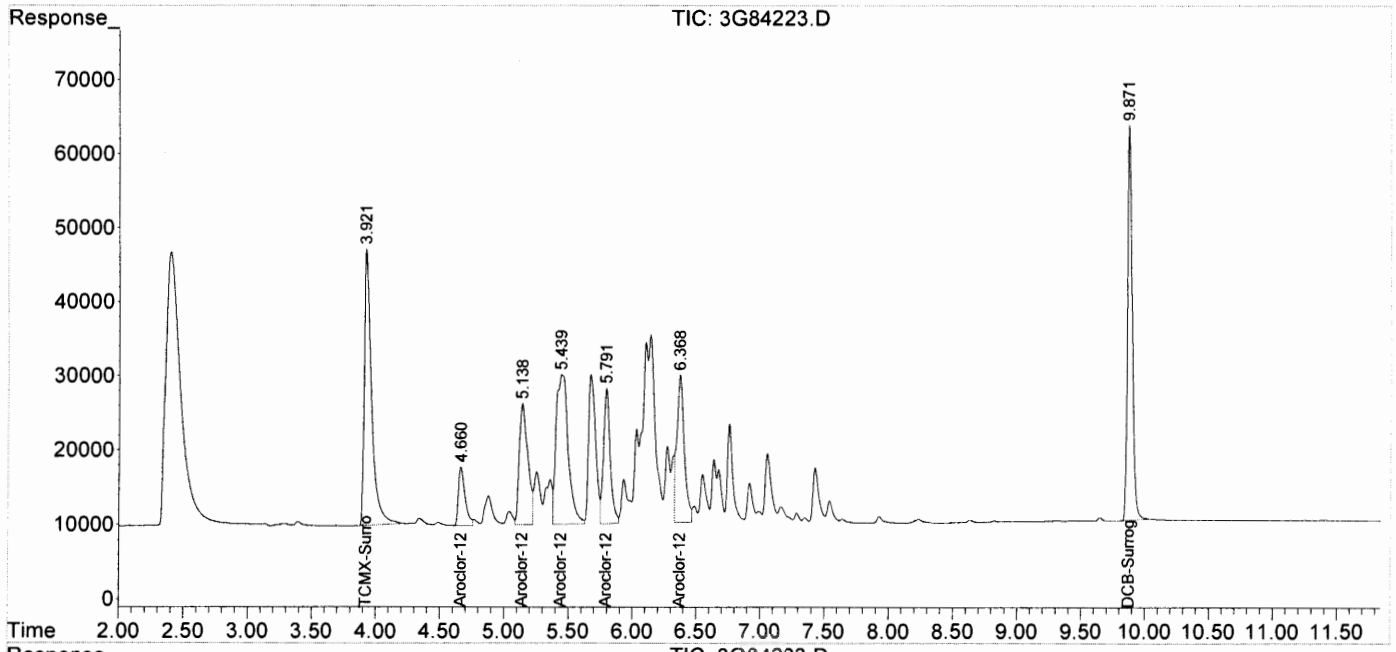
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D.	N.D.
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D.	N.D.
45)DCB-Surrogate	9.872	10.636	1390224	1983955	63.970	62.277

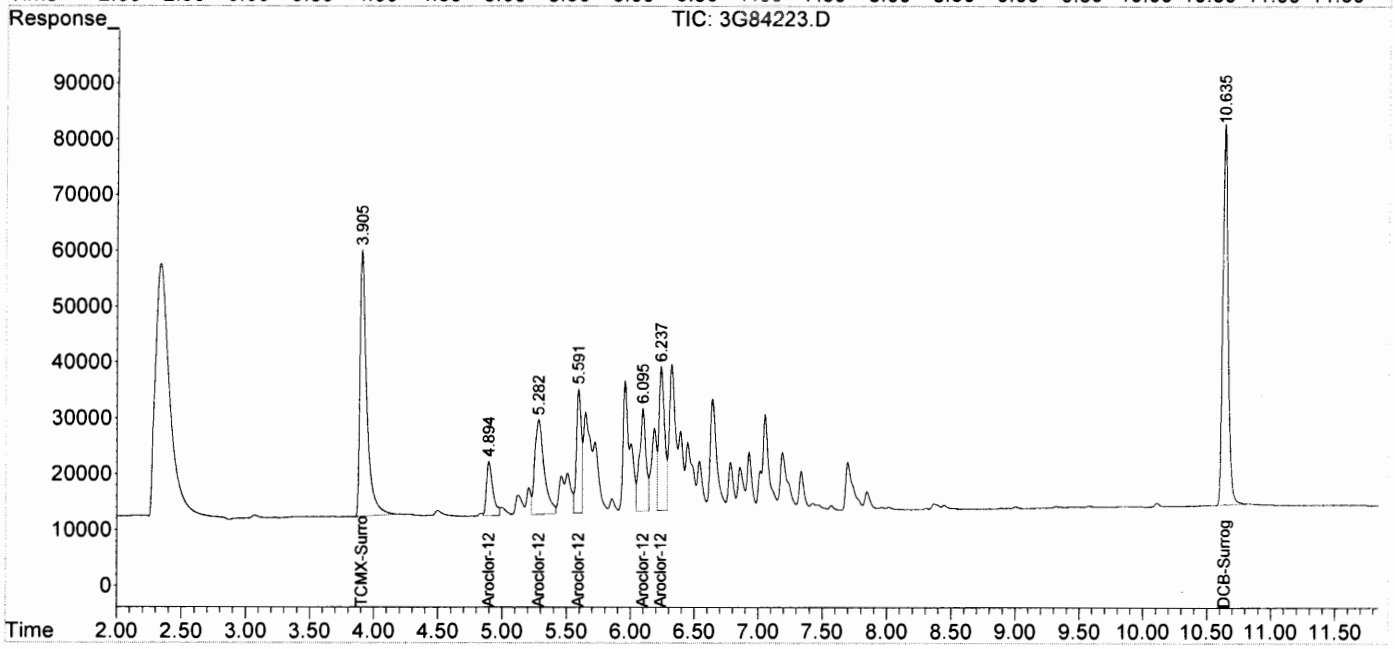
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84223.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 12:35
Operator : MLC/MAS
Sample : CAL 1248@500PPB
Misc : A,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:48:32 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:47:53 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1072

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84224.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 12:50
Operator : MLC/MAS
Sample : CAL 2154@500PPB
Misc : A,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 15:09:57 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.922	3.907	1552574	1797032	57.164	54.298
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	4.148	4.280	210322	259649	500.000	500.000
13)Aroclor-1221 {2}	4.270	4.426	107654	125388	500.000	500.000
14)Aroclor-1221 {3}	4.331	4.492	560122	630731	500.000	645.271 #
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	6.548	6.447	327906	1093323	500.000	500.000
31)Aroclor-1254 {2}	6.752	6.781	1298487	337200	577.180	500.000
32)Aroclor-1254 {3}	6.906	7.185	698153	833177	500.000	500.000
33)Aroclor-1254 {4}	7.044	7.696	914436	355926	500.000	500.000
34)Aroclor-1254 {5}	7.416	8.366	528773	488504	641.405	500.000
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84224.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 12:50
Operator : MLC/MAS
Sample : CAL 2154@500PPB
Misc : A,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 15:09:57 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

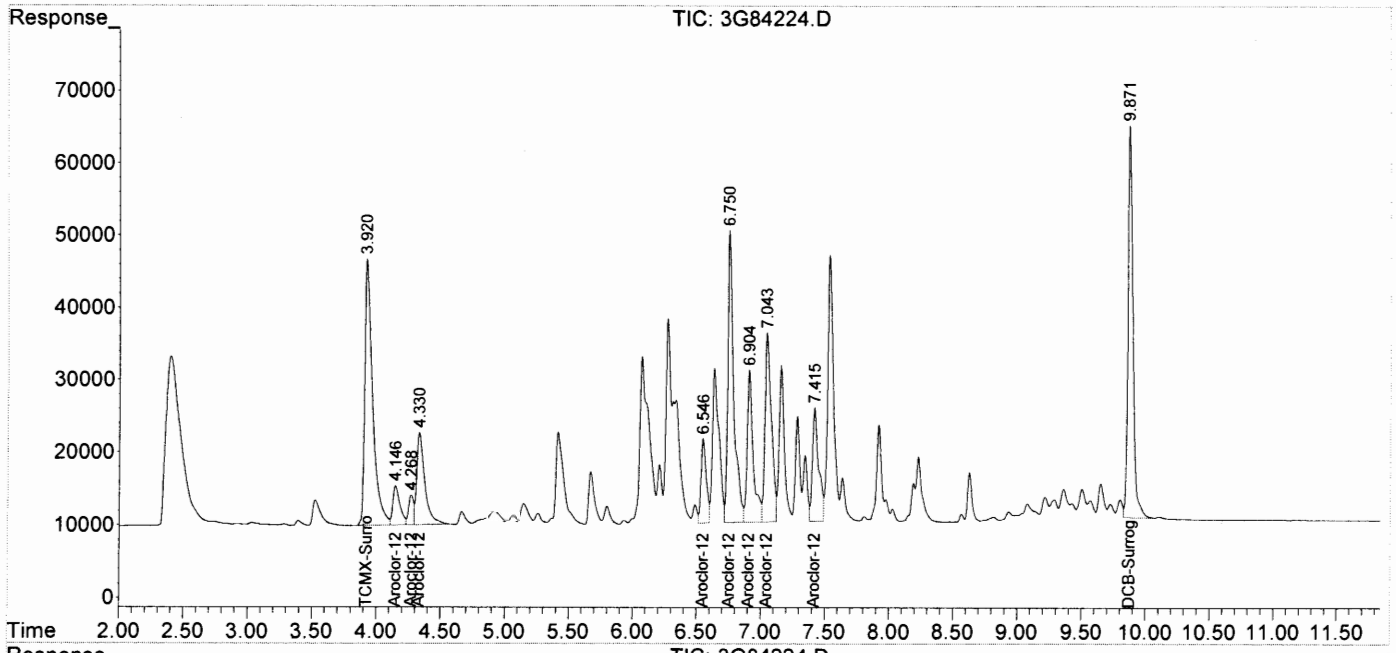
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.872	10.636	1475723	2020314	60.650	56.952

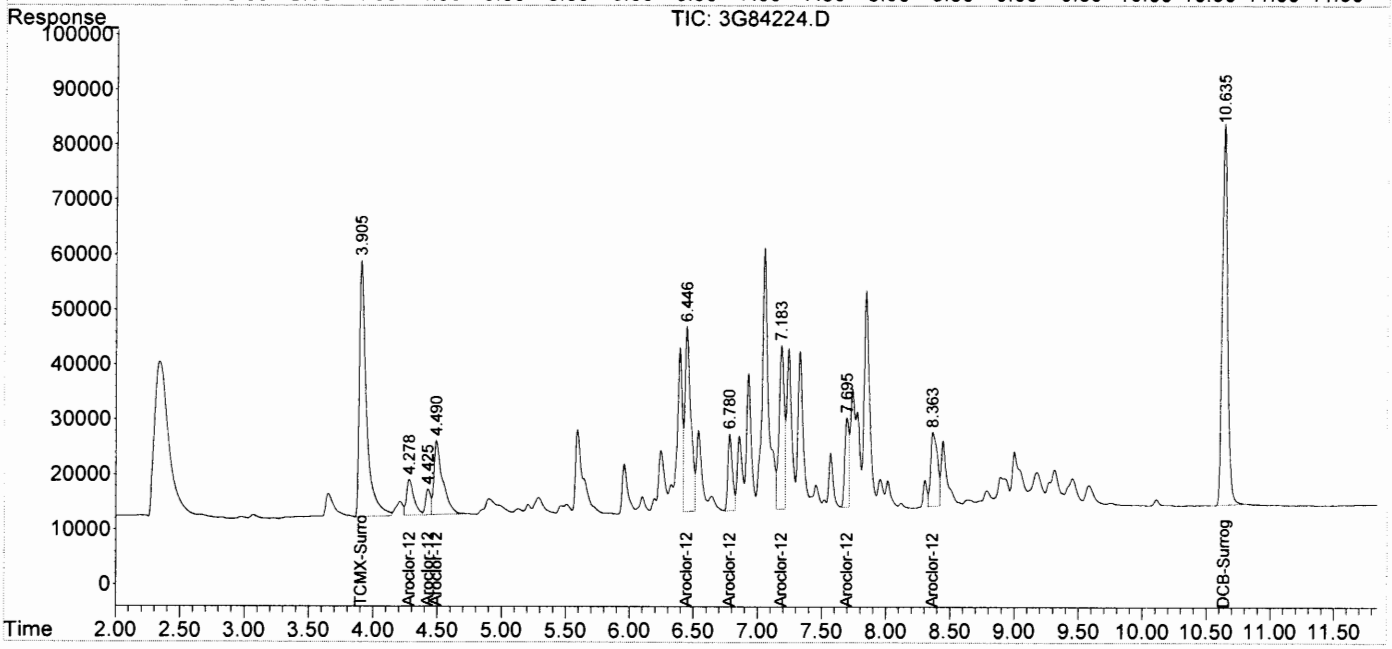
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84224.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 12:50
Operator : MLC/MAS
Sample : CAL 2154@500PPB
Misc : A,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 15:09:57 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1075

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84225.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 13:05
Operator : MLC/MAS
Sample : CAL 1262@500PPB
Misc : A,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:51:36 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:51:06 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.922	3.905	1535480	1848252	50.606	54.512
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	7.580	7.736	1088319	743029	546.085	360.092 #
36)Aroclor-1262 {2}	8.561	8.887	699711	1018280	572.940m	569.237
37)Aroclor-1262 {3}	8.622	8.995	1406847	1183977	558.529	543.098
38)Aroclor-1262 {4}	9.291	9.577	640306	1338239	539.879m	560.714
39)Aroclor-1262 {5}	9.646	10.109	252005	358349	596.806	547.427
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84225.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 13:05
Operator : MLC/MAS
Sample : CAL 1262@500PPB
Misc : A,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:51:36 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:51:06 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.872	10.636	1474201	2102114	67.938	66.072

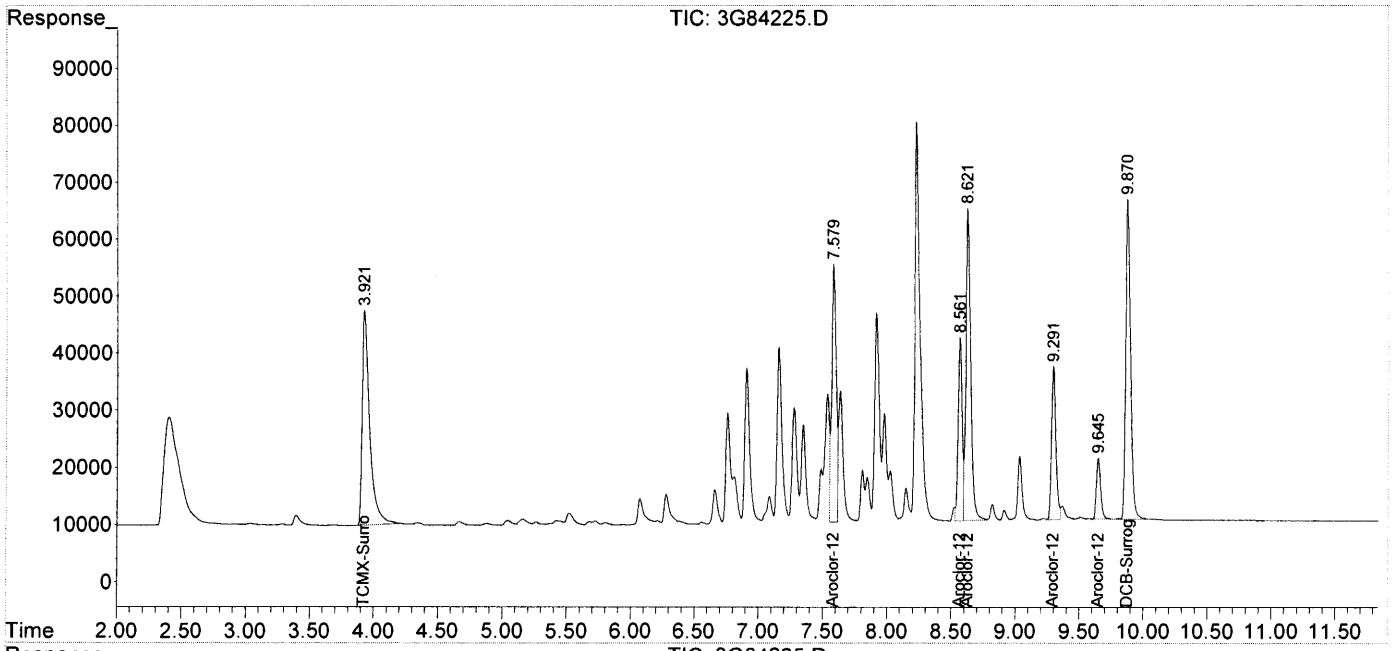
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

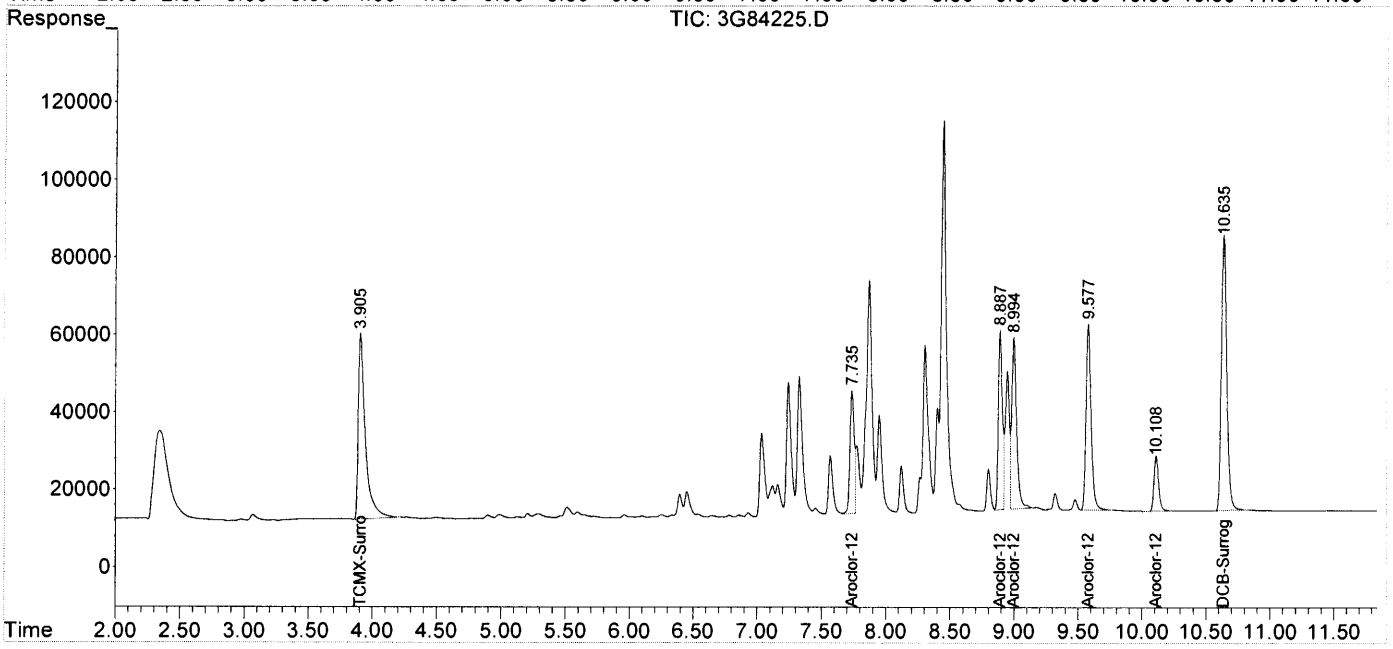
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-07-14\
Data File : 3G84225.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 7 May 2014 13:05
Operator : MLC/MAS
Sample : CAL 1262@500PPB
Misc : A,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 08 09:51:36 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 09:51:06 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form7
Continuing Calibration

Method: EPA 8082A

Data File:				2G90178.D			2G90195.D			2G90210.D			2G90218.D			3G84478.D		
Method:				8082			8082			8082			8082			8082		
Calibration Name:				CAL 1660@1000PP			CAL 1660@1000PP			CAL 1660@1000PP			CAL 1660@1000PP			CAL 1660@2000PP		
Calibration Date/Time				05/29/14 17:36			05/29/14 21:53			05/30/14 09:16			05/30/14 12:35			05/23/14 08:41		
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	15	1	0	102.9	100	2.8	106.5	100	6.5	92.89	100	7.1	99.71	100	0.3	194.7	200	2.7
Aroclor-1016	15	1	1	1043	1000	4.3	1076	1000	7.6	929.0	1000	7.1	947.9	1000	5.2	1946	2000	2.7
Aroclor-1016	15	1	2	1038	1000	3.8	1066	1000	6.6	932.0	1000	6.8	963.1	1000	3.7	1904	2000	4.8
Aroclor-1016	15	1	3	1046	1000	4.6	1075	1000	7.5	936.5	1000	6.4	972.8	1000	2.7	1949	2000	2.5
Aroclor-1016	15	1	4	1042	1000	4.2	1070	1000	7.0	916.4	1000	8.4	923.5	1000	7.7	1919	2000	4.1
Aroclor-1016	15	1	5	1039	1000	3.9	1053	1000	5.3	908.9	1000	9.1	898.1	1000	10.2	1889	2000	5.6
Aroclor-1260	15	1	1	1050	1000	5.0	1040	1000	4.0	917.0	1000	8.3	887.2	1000	11.3	1920	2000	4.0
Aroclor-1260	15	1	2	1050	1000	5.0	1058	1000	5.8	915.3	1000	8.5	898.1	1000	10.2	1916	2000	4.2
Aroclor-1260	15	1	3	1033	1000	3.3	1013	1000	1.3	887.7	1000	11.2	846.4	1000	15.4	1935	2000	3.2
Aroclor-1260	15	1	4	1037	1000	3.7	1016	1000	1.6	901.1	1000	9.9	891	1000	10.9	1854	2000	7.3
Aroclor-1260	15	1	5	998.9	1000	0.1	1007	1000	0.7	888.7	1000	11.1	947.7	1000	5.2	1696	2000	15.2
DCB-Surrogate	15	1	0	99.73	100	0.3	102.2	100	2.2	89.51	100	10.5	86.42	100	13.6	165.3	200	17.4*
Average Difference	15	1	0			3.4			4.7			8.7			8.0			6.1
TCMX-Surrogate	15	2	0	96.84	100	3.2	102.0	100	2.0	92.49	100	7.5	143.0	100	43.0*	190.2	200	4.9
Aroclor-1016	15	2	1	1003	1000	0.3	1046	1000	4.6	970.9	1000	2.9	992.8	1000	0.7	1887	2000	5.6
Aroclor-1016	15	2	2	999.3	1000	0.1	1034	1000	3.4	971.5	1000	2.9	1075	1000	7.5	1853	2000	7.3
Aroclor-1016	15	2	3	983.1	1000	1.7	1013	1000	1.3	952.4	1000	4.8	993.7	1000	0.6	1894	2000	5.3
Aroclor-1016	15	2	4	981.7	1000	1.8	996.4	1000	0.4	940.4	1000	6.0	973.6	1000	2.6	1888	2000	5.6
Aroclor-1016	15	2	5	974.7	1000	2.5	989.2	1000	1.1	939.1	1000	6.1	967.9	1000	3.2	1902	2000	4.9
Aroclor-1260	15	2	1	977	1000	2.3	985.2	1000	1.5	933.0	1000	6.7	937.6	1000	6.2	1880	2000	6.0
Aroclor-1260	15	2	2	964.6	1000	3.5	984.1	1000	1.6	922.8	1000	7.7	946.9	1000	5.3	1899	2000	5.1
Aroclor-1260	15	2	3	903.4	1000	9.7	925.1	1000	7.5	845.5	1000	15.5	884.1	1000	11.6	1857	2000	7.2
Aroclor-1260	15	2	4	907.1	1000	9.3	930.7	1000	6.9	873.3	1000	12.7	852.1	1000	14.8	1851	2000	7.4
Aroclor-1260	15	2	5	876.3	1000	12.4	884.9	1000	11.5	821.8	1000	17.8*	894.9	1000	10.5	1591	2000	20.5*
DCB-Surrogate	15	2	0	92.78	100	7.2	94.6	100	5.4	88.21	100	11.8	91.51	100	8.5	170.1	200	14.9
Average Difference	15	2	0			4.5			3.9			8.5			9.6			7.9

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8082A

Data File:				3G84489.D			3G84503.D			3G84515.D			3G84562.D			3G84574.D		
Method:				8082			8082			8082			8082			8082		
Calibration Name:				CAL 1660@2000PP			CAL 1660@2000PP			CAL 1660@2000PP			CAL 1660@2000PP			CAL 1660@2000PP		
Calibration Date/Time				05/23/14 11:36			05/23/14 15:19			05/23/14 18:38			05/28/14 12:42			05/28/14 19:24		
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	15	1	0	213.3	200	6.7	223.8	200	11.9	230.1	200	15.1	230.5	200	15.3	205	200	2.5
Aroclor-1016	15	1	1	2127	2000	6.4	2261	2000	13.1	2278	2000	13.9	2275	2000	13.7	2018	2000	0.9
Aroclor-1016	15	1	2	2108	2000	5.4	2238	2000	11.9	2289	2000	14.4	2293	2000	14.7	2022	2000	1.1
Aroclor-1016	15	1	3	2153	2000	7.6	2283	2000	14.2	2335	2000	16.8*	2318	2000	15.9*	2057	2000	2.9
Aroclor-1016	15	1	4	2115	2000	5.7	2252	2000	12.6	2298	2000	14.9	2256	2000	12.8	2046	2000	2.3
Aroclor-1016	15	1	5	2073	2000	3.7	2243	2000	12.2	2291	2000	14.6	2192	2000	9.6	2000	2000	0.0
Aroclor-1260	15	1	1	2077	2000	3.8	2243	2000	12.2	2277	2000	13.9	2185	2000	9.3	2004	2000	0.2
Aroclor-1260	15	1	2	2100	2000	5.0	2233	2000	11.7	2291	2000	14.5	2175	2000	8.8	1992	2000	0.4
Aroclor-1260	15	1	3	2072	2000	3.6	2256	2000	12.8	2205	2000	10.2	2141	2000	7.0	1965	2000	1.7
Aroclor-1260	15	1	4	2053	2000	2.6	2196	2000	9.8	2270	2000	13.5	2062	2000	3.1	1941	2000	2.9
Aroclor-1260	15	1	5	1924	2000	3.8	2028	2000	1.4	2074	2000	3.7	1748	2000	12.6	1826	2000	8.7
DCB-Surrogate	15	1	0	196.9	200	1.6	209.8	200	4.9	210.9	200	5.5	119.7	200	40.1*	192.2	200	3.9
Average Difference	15	1	0			4.7			10.7			12.6			13.6			2.3
TCMX-Surrogate	15	2	0	195.1	200	2.4	199	200	0.5	203.2	200	1.6	203.2	200	1.6	184.3	200	7.9
Aroclor-1016	15	2	1	1894	2000	5.3	1956	2000	2.2	1993	2000	0.4	2012	2000	0.6	1783	2000	10.8
Aroclor-1016	15	2	2	1888	2000	5.6	1933	2000	3.3	1981	2000	0.9	2019	2000	1.0	1812	2000	9.4
Aroclor-1016	15	2	3	1921	2000	3.9	1964	2000	1.8	2013	2000	0.7	2020	2000	1.0	1836	2000	8.2
Aroclor-1016	15	2	4	1935	2000	3.3	2002	2000	0.1	2038	2000	1.9	2122	2000	6.1	1850	2000	7.5
Aroclor-1016	15	2	5	1911	2000	4.5	1988	2000	0.6	2044	2000	2.2	2159	2000	8.0	1846	2000	7.7
Aroclor-1260	15	2	1	1918	2000	4.1	1962	2000	1.9	2011	2000	0.5	1987	2000	0.6	1839	2000	8.0
Aroclor-1260	15	2	2	1895	2000	5.3	1954	2000	2.3	1998	2000	0.1	1975	2000	1.2	1845	2000	7.8
Aroclor-1260	15	2	3	1931	2000	3.4	1972	2000	1.4	2005	2000	0.2	1896	2000	5.2	1810	2000	9.5
Aroclor-1260	15	2	4	1986	2000	0.7	2029	2000	1.4	2086	2000	4.3	1796	2000	10.2	1861	2000	6.9
Aroclor-1260	15	2	5	1851	2000	7.4	1887	2000	5.7	1912	2000	4.4	1368	2000	31.6*	1742	2000	12.9
DCB-Surrogate	15	2	0	200.5	200	0.3	203.3	200	1.7	204.9	200	2.4	119.2	200	40.4*	191.1	200	4.4
Average Difference	15	2	0			3.8			1.9			1.6			9.0			8.4

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8082A

Data File:				3G84579.D			3G84602.D			3G84603.D			3G84609.D			3G84623.D		
Method:				8082			8082			8082			8082			8082		
Calibration Name:				CAL 1660@2000PP			CAL 1660@2000PP			CAL 1660@2000PP			CAL 1660@2000PP			CAL 1660@2000PP		
Calibration Date/Time				05/29/14 12:44			05/29/14 19:25			05/30/14 08:45			05/30/14 12:34			06/02/14 09:06		
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	15	1	0	221.6	200	10.8	235.5	200	17.8*	221.4	200	10.7	239.5	200	19.7*	230.5	200	15.3
Aroclor-1016	15	1	1	2184	2000	9.2	2325	2000	16.2*	2196	2000	9.8	2380	2000	19.0*	2266	2000	13.3
Aroclor-1016	15	1	2	2173	2000	8.6	2338	2000	16.9*	2186	2000	9.3	2360	2000	18.0*	2265	2000	13.2
Aroclor-1016	15	1	3	2204	2000	10.2	2400	2000	20.0*	2226	2000	11.3	2374	2000	18.7*	2286	2000	14.3
Aroclor-1016	15	1	4	2184	2000	9.2	2326	2000	16.3*	2202	2000	10.1	2354	2000	17.7*	2248	2000	12.4
Aroclor-1016	15	1	5	2133	2000	6.6	2334	2000	16.7*	2261	2000	13.0	2415	2000	20.8*	2183	2000	9.2
Aroclor-1260	15	1	1	2154	2000	7.7	2337	2000	16.8*	2215	2000	10.7	2311	2000	15.6*	2197	2000	9.8
Aroclor-1260	15	1	2	2127	2000	6.4	2331	2000	16.6*	2207	2000	10.3	2303	2000	15.2	2178	2000	8.9
Aroclor-1260	15	1	3	2165	2000	8.2	2311	2000	15.6*	2212	2000	10.6	2295	2000	14.8	2157	2000	7.8
Aroclor-1260	15	1	4	2112	2000	5.6	3603	2000	80.1*	2160	2000	8.0	2236	2000	11.8	2092	2000	4.6
Aroclor-1260	15	1	5	1964	2000	1.8	2028	2000	1.4	1952	2000	2.4	2018	2000	0.9	1900	2000	5.0
DCB-Surrogate	15	1	0	202.7	200	1.4	173.9	200	13.1	173.9	200	13.1	177.5	200	11.3	173.1	200	13.4
Average Difference	15	1	0			7.1			20.6*			9.9			15.3			10.6
TCMX-Surrogate	15	2	0	195.2	200	2.4	196.0	200	2.0	196.3	200	1.9	204.4	200	2.2	204.8	200	2.4
Aroclor-1016	15	2	1	1942	2000	2.9	1893	2000	5.4	1929	2000	3.5	2066	2000	3.3	1993	2000	0.3
Aroclor-1016	15	2	2	1892	2000	5.4	1920	2000	4.0	1926	2000	3.7	2029	2000	1.4	1985	2000	0.7
Aroclor-1016	15	2	3	1921	2000	4.0	1939	2000	3.1	1956	2000	2.2	2029	2000	1.4	1995	2000	0.3
Aroclor-1016	15	2	4	1932	2000	3.4	2019	2000	0.9	2043	2000	2.2	2123	2000	6.1	2091	2000	4.5
Aroclor-1016	15	2	5	1886	2000	5.7	2012	2000	0.6	2000	2000	0.0	2143	2000	7.1	2067	2000	3.3
Aroclor-1260	15	2	1	1910	2000	4.5	1932	2000	3.4	1955	2000	2.2	2044	2000	2.2	2015	2000	0.7
Aroclor-1260	15	2	2	1907	2000	4.7	1928	2000	3.6	1956	2000	2.2	2012	2000	0.6	1984	2000	0.8
Aroclor-1260	15	2	3	1897	2000	5.1	1858	2000	7.1	1859	2000	7.1	2015	2000	0.7	1982	2000	0.9
Aroclor-1260	15	2	4	1925	2000	3.7	1901	2000	4.9	1790	2000	10.5	2019	2000	1.0	1968	2000	1.6
Aroclor-1260	15	2	5	1769	2000	11.6	1624	2000	18.8*	1677	2000	16.1*	1757	2000	12.2	1692	2000	15.4
DCB-Surrogate	15	2	0	196	200	2.0	157.2	200	21.4*	167	200	16.5*	170.5	200	14.8	172.6	200	13.7
Average Difference	15	2	0			4.6			6.3			5.7			4.4			3.7

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8082A

Data File:				3G84637.D																				
Method:				8082																				
Calibration Name:				CAL 1660@2000PP																				
Calibration Date/Time				06/02/14 16:19																				
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	15	1	0	223.3	200	11.6												
Aroclor-1016	15	1	1	2209	2000	10.5												
Aroclor-1016	15	1	2	2200	2000	10.0												
Aroclor-1016	15	1	3	2232	2000	11.6												
Aroclor-1016	15	1	4	2197	2000	9.9												
Aroclor-1016	15	1	5	2114	2000	5.7												
Aroclor-1260	15	1	1	2061	2000	3.0												
Aroclor-1260	15	1	2	2086	2000	4.3												
Aroclor-1260	15	1	3	2030	2000	1.5												
Aroclor-1260	15	1	4	1997	2000	0.2												
Aroclor-1260	15	1	5	1886	2000	5.7												
DCB-Surrogate	15	1	0	198.3	200	0.9												
Average Difference	15	1	0			6.2												
TCMX-Surrogate	15	2	0	187.4	200	6.3												
Aroclor-1016	15	2	1	1771	2000	11.5												
Aroclor-1016	15	2	2	1821	2000	8.9												
Aroclor-1016	15	2	3	1865	2000	6.7												
Aroclor-1016	15	2	4	1897	2000	5.2												
Aroclor-1016	15	2	5	1917	2000	4.1												
Aroclor-1260	15	2	1	1844	2000	7.8												
Aroclor-1260	15	2	2	1902	2000	4.9												
Aroclor-1260	15	2	3	1827	2000	8.6												
Aroclor-1260	15	2	4	1879	2000	6.1												
Aroclor-1260	15	2	5	1702	2000	14.9												
DCB-Surrogate	15	2	0	184.3	200	7.8												
Average Difference	15	2	0			7.7												

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8082A

			Data File: 2G89565.D		3G84215.D		2G90178.D		2G90210.D		3G84478.D	
			Calibration Name: CAL 1660@50PPB		CAL 1660@50PPB		CAL 1660@1000PPB		CAL 1660@1000PPB		CAL 1660@2000PPB	
			Calibration Date/Time 5/2/2014 8:49:00 PM		5/7/2014 10:35:00 AM		5/29/2014 5:36:00 PM		5/30/2014 9:16:00 AM		5/23/2014 8:41:00 AM	
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	3.92	(3.86 - 3.98)	3.92	(3.86 - 3.98)	3.91	(3.85 - 3.97)	3.91	(3.85 - 3.97)	3.92	(3.86 - 3.98)
Aroclor-1016	1	1	4.42	(4.38 - 4.46)	4.33	(4.29 - 4.37)	4.41	(4.37 - 4.45)	4.41	(4.37 - 4.45)	4.33	(4.29 - 4.37)
Aroclor-1016	1	2	4.79	(4.75 - 4.83)	4.66	(4.62 - 4.70)	4.78	(4.74 - 4.82)	4.78	(4.74 - 4.82)	4.66	(4.62 - 4.70)
Aroclor-1016	1	3	5.25	(5.21 - 5.29)	5.13	(5.09 - 5.17)	5.24	(5.20 - 5.28)	5.24	(5.20 - 5.28)	5.12	(5.08 - 5.16)
Aroclor-1016	1	4	5.50	(5.46 - 5.54)	5.25	(5.21 - 5.29)	5.49	(5.45 - 5.53)	5.49	(5.45 - 5.53)	5.24	(5.20 - 5.28)
Aroclor-1016	1	5	5.62	(5.58 - 5.66)	5.45	(5.41 - 5.49)	5.60	(5.56 - 5.64)	5.60	(5.56 - 5.64)	5.45	(5.41 - 5.49)
Aroclor-1260	1	1	7.13	(7.09 - 7.17)	6.90	(6.86 - 6.94)	7.11	(7.07 - 7.15)	7.11	(7.07 - 7.15)	6.89	(6.85 - 6.93)
Aroclor-1260	1	2	7.38	(7.34 - 7.42)	7.15	(7.11 - 7.19)	7.37	(7.33 - 7.41)	7.37	(7.33 - 7.41)	7.14	(7.10 - 7.18)
Aroclor-1260	1	3	7.58	(7.54 - 7.62)	7.63	(7.59 - 7.67)	7.57	(7.53 - 7.61)	7.57	(7.53 - 7.61)	7.63	(7.59 - 7.67)
Aroclor-1260	1	4	8.17	(8.13 - 8.21)	7.91	(7.87 - 7.95)	8.15	(8.11 - 8.19)	8.16	(8.12 - 8.20)	7.90	(7.86 - 7.94)
Aroclor-1260	1	5	8.90	(8.86 - 8.94)	8.62	(8.58 - 8.66)	8.88	(8.84 - 8.92)	8.88	(8.84 - 8.92)	8.61	(8.57 - 8.65)
Aroclor-1221	1	1	4.22	(4.18 - 4.26)	4.15	(4.11 - 4.19)						
Aroclor-1221	1	2	4.36	(4.32 - 4.40)	4.27	(4.23 - 4.31)						
Aroclor-1221	1	3	4.43	(4.39 - 4.47)	4.33	(4.29 - 4.37)						
Aroclor-1232	1	1	4.43	(4.39 - 4.47)	4.33	(4.29 - 4.37)						
Aroclor-1232	1	2	4.79	(4.75 - 4.83)	4.66	(4.62 - 4.70)						
Aroclor-1232	1	3	5.26	(5.22 - 5.30)	5.14	(5.10 - 5.18)						
Aroclor-1232	1	4	5.39	(5.35 - 5.43)	5.25	(5.21 - 5.29)						
Aroclor-1232	1	5	5.86	(5.82 - 5.90)	5.67	(5.63 - 5.71)						
Aroclor-1242	1	1	4.43	(4.39 - 4.47)	4.33	(4.29 - 4.37)						
Aroclor-1242	1	2	4.79	(4.75 - 4.83)	4.66	(4.62 - 4.70)						
Aroclor-1242	1	3	5.26	(5.22 - 5.30)	5.14	(5.10 - 5.18)						
Aroclor-1242	1	4	5.62	(5.58 - 5.66)	5.45	(5.41 - 5.49)						
Aroclor-1242	1	5	5.86	(5.82 - 5.90)	5.67	(5.63 - 5.71)						
Aroclor-1248	1	1	4.79	(4.75 - 4.83)	4.66	(4.62 - 4.70)						
Aroclor-1248	1	2	5.25	(5.21 - 5.29)	5.14	(5.10 - 5.18)						
Aroclor-1248	1	3	5.60	(5.56 - 5.64)	5.44	(5.40 - 5.48)						
Aroclor-1248	1	4	5.96	(5.92 - 6.00)	5.79	(5.75 - 5.83)						
Aroclor-1248	1	5	6.56	(6.52 - 6.60)	6.37	(6.33 - 6.41)						
Aroclor-1254	1	1	6.76	(6.72 - 6.80)	6.55	(6.51 - 6.59)						
Aroclor-1254	1	2	6.97	(6.93 - 7.01)	6.75	(6.71 - 6.79)						
Aroclor-1254	1	3	7.13	(7.09 - 7.17)	6.91	(6.87 - 6.95)						
Aroclor-1254	1	4	7.25	(7.21 - 7.29)	7.04	(7.00 - 7.08)						
Aroclor-1254	1	5	7.64	(7.60 - 7.68)	7.41	(7.37 - 7.45)						
Aroclor-1262	1	1	7.81	(7.77 - 7.85)	7.58	(7.54 - 7.62)						
Aroclor-1262	1	2	8.83	(8.79 - 8.87)	8.56	(8.52 - 8.60)						
Aroclor-1262	1	3	8.89	(8.85 - 8.93)	8.62	(8.58 - 8.66)						
Aroclor-1262	1	4	9.63	(9.59 - 9.67)	9.29	(9.25 - 9.33)						
Aroclor-1262	1	5	9.99	(9.95 - 10.03)	9.65	(9.61 - 9.69)						
Aroclor-1268	1	1	8.17	(8.13 - 8.21)	7.93	(7.89 - 7.97)						
Aroclor-1268	1	2	8.49	(8.45 - 8.53)	8.23	(8.19 - 8.27)						
Aroclor-1268	1	3	9.07	(9.03 - 9.11)	8.82	(8.78 - 8.86)						
Aroclor-1268	1	4	9.17	(9.13 - 9.21)	8.91	(8.87 - 8.95)						
Aroclor-1268	1	5	9.99	(9.95 - 10.03)	9.64	(9.60 - 9.68)						
DCB-Surrogate	1	0	10.21	(10.15 - 10.27)	9.87	(9.81 - 9.93)	10.19	(10.13 - 10.25)	10.19	(10.13 - 10.25)	9.86	(9.80 - 9.92)
TCMX-Surrogate	2	0	3.99	(3.93 - 4.05)	3.91	(3.85 - 3.97)	3.99	(3.93 - 4.05)	3.98	(3.92 - 4.04)	3.91	(3.85 - 3.97)
Aroclor-1016	2	1	4.60	(4.56 - 4.64)	4.49	(4.45 - 4.53)	4.59	(4.55 - 4.63)	4.59	(4.55 - 4.63)	4.49	(4.45 - 4.53)
Aroclor-1016	2	2	5.02	(4.98 - 5.06)	4.89	(4.85 - 4.93)	5.02	(4.98 - 5.06)	5.01	(4.97 - 5.05)	4.90	(4.86 - 4.94)
Aroclor-1016	2	3	5.41	(5.37 - 5.45)	5.28	(5.24 - 5.32)	5.41	(5.37 - 5.45)	5.40	(5.36 - 5.44)	5.27	(5.23 - 5.31)
Aroclor-1016	2	4	5.74	(5.70 - 5.78)	5.59	(5.55 - 5.63)	5.73	(5.69 - 5.77)	5.73	(5.69 - 5.77)	5.59	(5.55 - 5.63)
Aroclor-1016	2	5	6.11	(6.07 - 6.15)	5.95	(5.91 - 5.99)	6.11	(6.07 - 6.15)	6.10	(6.06 - 6.14)	5.95	(5.91 - 5.99)
Aroclor-1260	2	1	7.43	(7.39 - 7.47)	7.24	(7.20 - 7.28)	7.43	(7.39 - 7.47)	7.42	(7.38 - 7.46)	7.24	(7.20 - 7.28)
Aroclor-1260	2	2	7.52	(7.48 - 7.56)	7.32	(7.28 - 7.36)	7.51	(7.47 - 7.55)	7.51	(7.47 - 7.55)	7.32	(7.28 - 7.36)
Aroclor-1260	2	3	8.15	(8.11 - 8.19)	8.30	(8.26 - 8.34)	8.15	(8.11 - 8.19)	8.14	(8.10 - 8.18)	8.30	(8.26 - 8.34)
Aroclor-1260	2	4	8.52	(8.48 - 8.56)	9.00	(8.96 - 9.04)	8.51	(8.47 - 8.55)	8.51	(8.47 - 8.55)	9.00	(8.96 - 9.04)
Aroclor-1260	2	5	9.23	(9.19 - 9.27)	9.58	(9.54 - 9.62)	9.23	(9.19 - 9.27)	9.22	(9.18 - 9.26)	9.58	(9.54 - 9.62)
Aroclor-1221	2	1	4.38	(4.34 - 4.42)	4.28	(4.24 - 4.32)						
Aroclor-1221	2	2	4.53	(4.49 - 4.57)	4.43	(4.39 - 4.47)						
Aroclor-1221	2	3	4.59	(4.55 - 4.63)	4.49	(4.45 - 4.53)						
Aroclor-1232	2	1	4.60	(4.56 - 4.64)	4.49	(4.45 - 4.53)						
Aroclor-1232	2	2	5.02	(4.98 - 5.06)	4.89	(4.85 - 4.93)						
Aroclor-1232	2	3	5.41	(5.37 - 5.45)	5.28	(5.24 - 5.32)						
Aroclor-1232	2	4	5.74	(5.70 - 5.78)	5.96	(5.92 - 6.00)						
Aroclor-1232	2	5	6.26	(6.22 - 6.30)	6.10	(6.06 - 6.14)						
Aroclor-1242	2	1	4.60	(4.56 - 4.64)	4.49	(4.45 - 4.53)						
Aroclor-1242	2	2	5.02	(4.98 - 5.06)	4.90	(4.86 - 4.94)						
Aroclor-1242	2	3	5.41	(5.37 - 5.45)	5.28	(5.24 - 5.32)						
Aroclor-1242	2	4	5.74	(5.70 - 5.78)	5.60	(5.56 - 5.64)						
Aroclor-1242	2	5	6.11	(6.07 - 6.15)	5.96	(5.92 - 6.00)						
Aroclor-1248	2	1	5.02	(4.98 - 5.06)	4.89	(4.85 - 4.93)						
Aroclor-1248	2	2	5.41	(5.37 - 5.45)	5.28	(5.24 - 5.32)						
Aroclor-1248	2	3	5.74	(5.70 - 5.78)	5.59	(5.55 - 5.63)						
Aroclor-1248	2	4	6.26	(6.22 - 6.30)	6.10	(6.06 - 6.14)						
Aroclor-1248	2	5	6.39	(6.35 - 6.43)	6.24	(6.20 - 6.28)						
Aroclor-1254	2	1	6.62	(6.58 - 6.66)	6.45	(6.41 - 6.49)						
Aroclor-1254	2	2	6.96	(6.92 - 7.00)	6.78	(6.74 - 6.82)						
Aroclor-1254	2	3	7.36	(7.32 - 7.40)	7.18	(7.14 - 7.22)						
Aroclor-1254	2	4	7.88	(7.84 - 7.92)	7.70	(7.66 - 7.74)						
Aroclor-1254	2	5	8.58	(8.54 - 8.62)	8.37	(8.33 - 8.41)						
Aroclor-1262	2	1	8.07	(8.03 - 8.11)	7.74	(7.70 - 7.78)						
Aroclor-1262	2	2	9.12	(9.08 - 9.16)	8.89	(8.85 - 8.93)						
Aroclor-1262	2	3	9.23	(9.19 - 9.27)	9.00	(8.96 - 9.04)						
Aroclor-1262	2	4	9.85	(9.81 - 9.89)	9.58	(9.54 - 9.62)						
Aroclor-1262	2	5	10.43	(10.39 - 10.47)	10.11	(10.07 - 10.15)						
Aroclor-1268	2	1	8.61	(8.57 - 8.65)	8.40	(8.36 - 8.44)						
Aroclor-1268	2	2	8.65	(8.61 - 8.69)	8.44	(8.40 - 8.48)						
Aroclor-1268	2	3	9.58	(9.54 - 9.62)	9.32	(9.28 - 9.36)						
Aroclor-1268	2	4	9.75	(9.71 - 9.79)	9.48	(9.44 - 9.52)						
Aroclor-1268	2	5	10.43	(10.39 - 10.47)	10.11	(10.07 - 10.15)						
DCB-Surrogate	2	0	11.01	(10.95 - 11.07)	10.64	(10.58 - 10.70)	11.00	(10.94 - 11.06)	11.00	(10.94 - 11.06)	10.63	(10.57 - 10.69)

Form7

RtWindow Summary

Method: EPA 8082A

Data File:			3G84489.D		3G84503.D		3G84562.D		3G84579.D		3G84603.D		
Calibration Name:			CAL 1660@2000PPB		CAL 1660@2000PPB		CAL 1660@2000PPB		CAL 1660@2000PPB		CAL 1660@2000PPB		
Calibration Date/Time			5/23/2014 11:36:00 AM		5/23/2014 3:19:00 PM		5/28/2014 12:42:00 PM		5/29/2014 12:44:00 PM		5/30/2014 8:45:00 AM		
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	
TCMX-Surrogate	1	0	3.92	(3.86 - 3.98)	3.92	(3.86 - 3.98)	3.94	(3.88 - 4.00)	3.92	(3.86 - 3.98)	3.92	(3.86 - 3.98)	
Aroclor-1016	1	1	4.33	(4.29 - 4.37)	4.33	(4.29 - 4.37)	4.34	(4.30 - 4.38)	4.33	(4.29 - 4.37)	4.32	(4.28 - 4.36)	
Aroclor-1016	1	2	4.66	(4.62 - 4.70)	4.66	(4.62 - 4.70)	4.67	(4.63 - 4.71)	4.66	(4.62 - 4.70)	4.65	(4.61 - 4.69)	
Aroclor-1016	1	3	5.12	(5.08 - 5.16)	5.12	(5.08 - 5.16)	5.13	(5.09 - 5.17)	5.12	(5.08 - 5.16)	5.12	(5.08 - 5.16)	
Aroclor-1016	1	4	5.24	(5.20 - 5.28)	5.24	(5.20 - 5.28)	5.25	(5.21 - 5.29)	5.24	(5.20 - 5.28)	5.23	(5.19 - 5.27)	
Aroclor-1016	1	5	5.45	(5.41 - 5.49)	5.45	(5.41 - 5.49)	5.46	(5.42 - 5.50)	5.45	(5.41 - 5.49)	5.44	(5.40 - 5.48)	
Aroclor-1260	1	1	6.90	(6.86 - 6.94)	6.90	(6.86 - 6.94)	6.91	(6.87 - 6.95)	6.90	(6.86 - 6.94)	6.89	(6.85 - 6.93)	
Aroclor-1260	1	2	7.14	(7.10 - 7.18)	7.15	(7.11 - 7.19)	7.16	(7.12 - 7.20)	7.15	(7.11 - 7.19)	7.14	(7.10 - 7.18)	
Aroclor-1260	1	3	7.63	(7.59 - 7.67)	7.63	(7.59 - 7.67)	7.64	(7.60 - 7.68)	7.63	(7.59 - 7.67)	7.62	(7.58 - 7.66)	
Aroclor-1260	1	4	7.90	(7.86 - 7.94)	7.91	(7.87 - 7.95)	7.92	(7.88 - 7.96)	7.91	(7.87 - 7.95)	7.90	(7.86 - 7.94)	
Aroclor-1260	1	5	8.61	(8.57 - 8.65)	8.61	(8.57 - 8.65)	8.63	(8.59 - 8.67)	8.61	(8.57 - 8.65)	8.61	(8.57 - 8.65)	
Aroclor-1221	1	1											
Aroclor-1221	1	2											
Aroclor-1221	1	3											
Aroclor-1232	1	1											
Aroclor-1232	1	2											
Aroclor-1232	1	3											
Aroclor-1232	1	4											
Aroclor-1232	1	5											
Aroclor-1242	1	1											
Aroclor-1242	1	2											
Aroclor-1242	1	3											
Aroclor-1242	1	4											
Aroclor-1242	1	5											
Aroclor-1248	1	1											
Aroclor-1248	1	2											
Aroclor-1248	1	3											
Aroclor-1248	1	4											
Aroclor-1248	1	5											
Aroclor-1254	1	1											
Aroclor-1254	1	2											
Aroclor-1254	1	3											
Aroclor-1254	1	4											
Aroclor-1254	1	5											
Aroclor-1262	1	1											
Aroclor-1262	1	2											
Aroclor-1262	1	3											
Aroclor-1262	1	4											
Aroclor-1262	1	5											
Aroclor-1268	1	1											
Aroclor-1268	1	2											
Aroclor-1268	1	3											
Aroclor-1268	1	4											
Aroclor-1268	1	5											
DCB-Surrogate	1	0	9.86	(9.80 - 9.92)	9.86	(9.80 - 9.92)	9.88	(9.82 - 9.94)	9.87	(9.81 - 9.93)	9.86	(9.80 - 9.92)	
TCMX-Surrogate	2	0	3.91	(3.85 - 3.97)	3.91	(3.85 - 3.97)	3.92	(3.86 - 3.98)	3.91	(3.85 - 3.97)	3.91	(3.85 - 3.97)	
Aroclor-1016	2	1	4.49	(4.45 - 4.53)	4.49	(4.45 - 4.53)	4.50	(4.46 - 4.54)	4.49	(4.45 - 4.53)	4.49	(4.45 - 4.53)	
Aroclor-1016	2	2	4.90	(4.86 - 4.94)	4.90	(4.86 - 4.94)	4.91	(4.87 - 4.95)	4.90	(4.86 - 4.94)	4.90	(4.86 - 4.94)	
Aroclor-1016	2	3	5.28	(5.24 - 5.32)	5.28	(5.24 - 5.32)	5.28	(5.24 - 5.32)	5.27	(5.23 - 5.31)	5.28	(5.24 - 5.32)	
Aroclor-1016	2	4	5.59	(5.55 - 5.63)	5.60	(5.55 - 5.63)	5.60	(5.56 - 5.64)	5.59	(5.55 - 5.63)	5.59	(5.55 - 5.63)	
Aroclor-1016	2	5	5.95	(5.91 - 5.99)	5.96	(5.92 - 6.00)	5.96	(5.92 - 6.00)	5.95	(5.91 - 5.99)	5.96	(5.92 - 6.00)	
Aroclor-1260	2	1	7.24	(7.20 - 7.28)	7.24	(7.20 - 7.28)	7.25	(7.21 - 7.29)	7.24	(7.20 - 7.28)	7.24	(7.20 - 7.28)	
Aroclor-1260	2	2	7.32	(7.28 - 7.36)	7.33	(7.29 - 7.37)	7.33	(7.29 - 7.37)	7.32	(7.28 - 7.36)	7.33	(7.29 - 7.37)	
Aroclor-1260	2	3	8.30	(8.26 - 8.34)	8.30	(8.26 - 8.34)	8.31	(8.27 - 8.35)	8.30	(8.26 - 8.34)	8.30	(8.26 - 8.34)	
Aroclor-1260	2	4	9.00	(8.96 - 9.04)	9.00	(8.96 - 9.04)	9.00	(8.96 - 9.04)	9.00	(8.96 - 9.04)	9.00	(8.96 - 9.04)	
Aroclor-1260	2	5	9.58	(9.54 - 9.62)	9.58	(9.54 - 9.62)	9.58	(9.54 - 9.62)	9.58	(9.54 - 9.62)	9.58	(9.54 - 9.62)	
Aroclor-1221	2	1											
Aroclor-1221	2	2											
Aroclor-1221	2	3											
Aroclor-1232	2	1											
Aroclor-1232	2	2											
Aroclor-1232	2	3											
Aroclor-1232	2	4											
Aroclor-1232	2	5											
Aroclor-1242	2	1											
Aroclor-1242	2	2											
Aroclor-1242	2	3											
Aroclor-1242	2	4											
Aroclor-1242	2	5											
Aroclor-1248	2	1											
Aroclor-1248	2	2											
Aroclor-1248	2	3											
Aroclor-1248	2	4											
Aroclor-1248	2	5											
Aroclor-1254	2	1											
Aroclor-1254	2	2											
Aroclor-1254	2	3											
Aroclor-1254	2	4											
Aroclor-1254	2	5											
Aroclor-1262	2	1											
Aroclor-1262	2	2											
Aroclor-1262	2	3											
Aroclor-1262	2	4											
Aroclor-1262	2	5											
Aroclor-1268	2	1											
Aroclor-1268	2	2											
Aroclor-1268	2	3											
Aroclor-1268	2	4											
Aroclor-1268	2	5											
DCB-Surrogate	2	0	10.63	(10.57 - 10.69)	10.64	(10.58 - 10.70)	10.64	(10.58 - 10.70)	10.64	(10.58 - 10.70)	10.64	(10.58 - 10.70)	

Form7

RtWindow Summary

Method: EPA 8082A

Data File:	3G84623.D
Calibration Name:	CAL 1660@2000PPB
Calibration Date/Time	6/2/2014 9:06:00 AM

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	3.92	(3.86 - 3.98)								
Aroclor-1016	1	1	4.32	(4.28 - 4.36)								
Aroclor-1016	1	2	4.66	(4.62 - 4.70)								
Aroclor-1016	1	3	5.12	(5.08 - 5.16)								
Aroclor-1016	1	4	5.23	(5.19 - 5.27)								
Aroclor-1016	1	5	5.44	(5.40 - 5.48)								
Aroclor-1260	1	1	6.89	(6.85 - 6.93)								
Aroclor-1260	1	2	7.14	(7.10 - 7.18)								
Aroclor-1260	1	3	7.62	(7.58 - 7.66)								
Aroclor-1260	1	4	7.90	(7.86 - 7.94)								
Aroclor-1260	1	5	8.61	(8.57 - 8.65)								
Aroclor-1221	1	1	4.14	(4.10 - 4.18)								
Aroclor-1221	1	2	4.27	(4.23 - 4.31)								
Aroclor-1221	1	3	4.32	(4.28 - 4.36)								
Aroclor-1232	1	1	4.32	(4.28 - 4.36)								
Aroclor-1232	1	2	4.66	(4.62 - 4.70)								
Aroclor-1232	1	3	5.12	(5.08 - 5.16)								
Aroclor-1232	1	4	5.23	(5.19 - 5.27)								
Aroclor-1232	1	5	5.66	(5.62 - 5.70)								
Aroclor-1242	1	1	4.32	(4.28 - 4.36)								
Aroclor-1242	1	2	4.66	(4.62 - 4.70)								
Aroclor-1242	1	3	5.12	(5.08 - 5.16)								
Aroclor-1242	1	4	5.44	(5.40 - 5.48)								
Aroclor-1242	1	5	5.66	(5.62 - 5.70)								
Aroclor-1248	1	1	4.66	(4.62 - 4.70)								
Aroclor-1248	1	2	5.12	(5.08 - 5.16)								
Aroclor-1248	1	3	5.44	(5.40 - 5.48)								
Aroclor-1248	1	4	5.78	(5.74 - 5.82)								
Aroclor-1248	1	5	6.26	(6.22 - 6.30)								
Aroclor-1254	1	1	6.54	(6.50 - 6.58)								
Aroclor-1254	1	2	6.74	(6.70 - 6.78)								
Aroclor-1254	1	3	6.89	(6.85 - 6.93)								
Aroclor-1254	1	4	7.07	(7.03 - 7.11)								
Aroclor-1254	1	5	7.33	(7.29 - 7.37)								
Aroclor-1262	1	1	7.57	(7.53 - 7.61)								
Aroclor-1262	1	2	8.55	(8.51 - 8.59)								
Aroclor-1262	1	3	8.61	(8.57 - 8.65)								
Aroclor-1262	1	4	9.28	(9.24 - 9.32)								
Aroclor-1262	1	5	9.63	(9.59 - 9.67)								
Aroclor-1268	1	1	7.96	(7.92 - 8.00)								
Aroclor-1268	1	2										
Aroclor-1268	1	3	8.90	(8.86 - 8.94)								
Aroclor-1268	1	4	8.97	(8.93 - 9.01)								
Aroclor-1268	1	5										
DCB-Surrogate	1	0	9.86	(9.80 - 9.92)								
TCMX-Surrogate	2	0	3.91	(3.85 - 3.97)								
Aroclor-1016	2	1	4.49	(4.45 - 4.53)								
Aroclor-1016	2	2	4.90	(4.86 - 4.94)								
Aroclor-1016	2	3	5.27	(5.23 - 5.31)								
Aroclor-1016	2	4	5.59	(5.55 - 5.63)								
Aroclor-1016	2	5	5.96	(5.92 - 6.00)								
Aroclor-1260	2	1	7.24	(7.20 - 7.28)								
Aroclor-1260	2	2	7.32	(7.28 - 7.36)								
Aroclor-1260	2	3	8.30	(8.26 - 8.34)								
Aroclor-1260	2	4	9.00	(8.96 - 9.04)								
Aroclor-1260	2	5	9.58	(9.54 - 9.62)								
Aroclor-1221	2	1	4.28	(4.24 - 4.32)								
Aroclor-1221	2	2	4.43	(4.39 - 4.47)								
Aroclor-1221	2	3	4.49	(4.45 - 4.53)								
Aroclor-1232	2	1	4.49	(4.45 - 4.53)								
Aroclor-1232	2	2	4.90	(4.86 - 4.94)								
Aroclor-1232	2	3	5.27	(5.23 - 5.31)								
Aroclor-1232	2	4	5.96	(5.92 - 6.00)								
Aroclor-1232	2	5	6.09	(6.05 - 6.13)								
Aroclor-1242	2	1	4.49	(4.45 - 4.53)								
Aroclor-1242	2	2	4.90	(4.86 - 4.94)								
Aroclor-1242	2	3	5.27	(5.23 - 5.31)								
Aroclor-1242	2	4	5.59	(5.55 - 5.63)								
Aroclor-1242	2	5	5.96	(5.92 - 6.00)								
Aroclor-1248	2	1	4.90	(4.86 - 4.94)								
Aroclor-1248	2	2	5.27	(5.23 - 5.31)								
Aroclor-1248	2	3	5.59	(5.55 - 5.63)								
Aroclor-1248	2	4	6.09	(6.05 - 6.13)								
Aroclor-1248	2	5	6.24	(6.20 - 6.28)								
Aroclor-1254	2	1	6.45	(6.41 - 6.49)								
Aroclor-1254	2	2	6.78	(6.74 - 6.82)								
Aroclor-1254	2	3	7.16	(7.12 - 7.20)								
Aroclor-1254	2	4	7.74	(7.70 - 7.78)								
Aroclor-1254	2	5	8.30	(8.26 - 8.34)								
Aroclor-1262	2	1	7.74	(7.70 - 7.78)								
Aroclor-1262	2	2	8.89	(8.85 - 8.93)								
Aroclor-1262	2	3	9.00	(8.96 - 9.04)								
Aroclor-1262	2	4	9.58	(9.54 - 9.62)								
Aroclor-1262	2	5	10.11	(10.07 - 10.15)								
Aroclor-1268	2	1	8.44	(8.40 - 8.48)								
Aroclor-1268	2	2	8.44	(8.40 - 8.48)								
Aroclor-1268	2	3	9.32	(9.28 - 9.36)								
Aroclor-1268	2	4	9.48	(9.44 - 9.52)								
Aroclor-1268	2	5	10.11	(10.07 - 10.15)								
DCB-Surrogate	2	0	10.63	(10.57 - 10.69)								

Quantitation Report (QT Reviewed)

4052101 1085

Data Path : G:\Gcdata\2014\GC_2\Data\05-29-14\
Data File : 2G90178.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 17:36
Operator : MAS
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:29:59 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.911	3.987	741584	328827	102.846	96.836m
2)Aroclor-1016 {1}	4.414	4.594	173957	86613	1043.116	1003.420
3)Aroclor-1016 {2}	4.778	5.019	323390	178775	1038.026	999.317
4)Aroclor-1016 {3}	5.242	5.405	669765	334459	1045.674	983.115
5)Aroclor-1016 {4}	5.487	5.734	229532	146487	1042.453	981.697
6)Aroclor-1016 {5}	5.603	6.109	477691	103808	1039.222	974.737
7)Aroclor-1260 {1}	7.114	7.428	418025	224122	1049.703	976.966
8)Aroclor-1260 {2}	7.366	7.511	484008	239177	1050.386	964.574
9)Aroclor-1260 {3}	7.567	8.149	274368	97937	1032.769	903.352m
10)Aroclor-1260 {4}	8.155	8.511	350102	211608	1036.986	907.070m
11)Aroclor-1260 {5}	8.879	9.226	528891	179042	998.892	876.295m
45)DCB-Surrogate	10.191	11.001	648293	342726	99.725	92.778

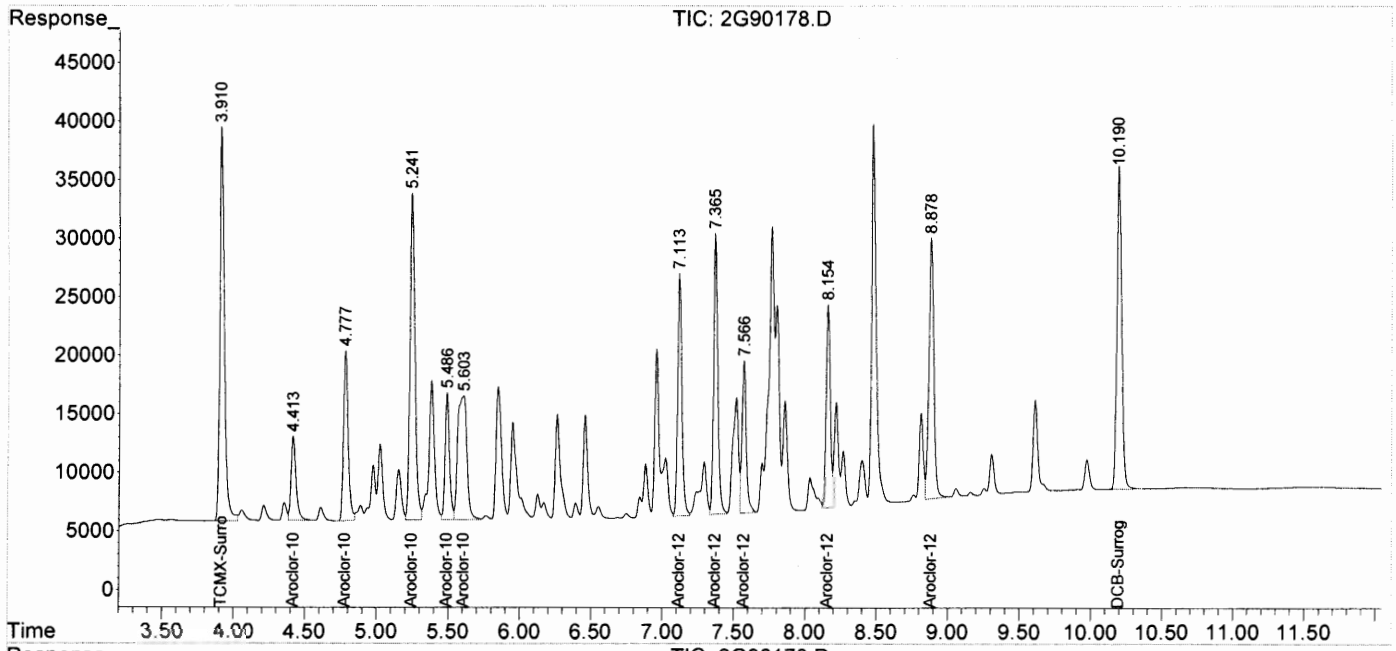
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

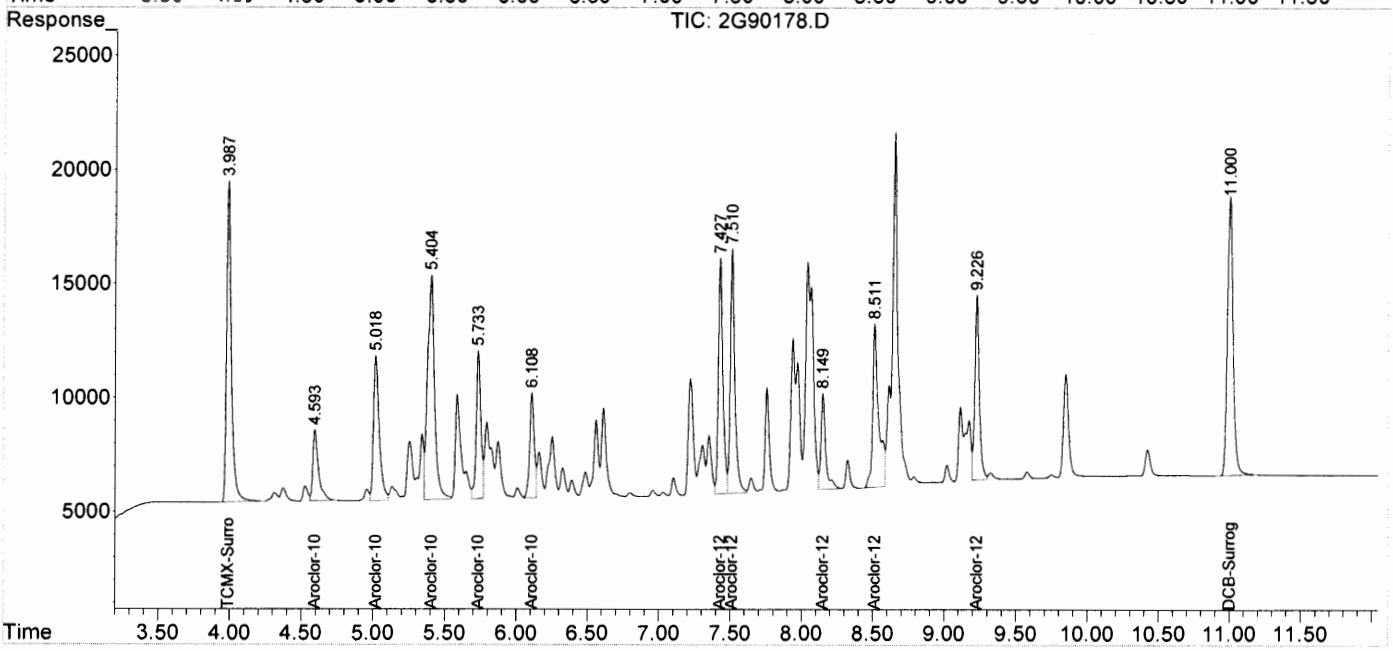
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-29-14\
Data File : 2G90178.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 17:36
Operator : MAS
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:29:59 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1087

Data Path : G:\Gcdata\2014\GC_2\Data\05-29-14\
Data File : 2G90195.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 21:53
Operator : MAS
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:40:09 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.913	3.988	768159	346436	106.532	102.022m
2)Aroclor-1016 {1}	4.416	4.595	179121	90174	1075.974	1046.075
3)Aroclor-1016 {2}	4.780	5.020	331503	184666	1066.058	1033.949
4)Aroclor-1016 {3}	5.243	5.406	687495	344726	1075.363	1013.296
5)Aroclor-1016 {4}	5.488	5.735	235190	148674	1069.624	996.357
6)Aroclor-1016 {5}	5.605	6.110	483546	105344	1052.832	989.163
7)Aroclor-1260 {1}	7.116	7.429	414268	225914	1039.559	985.178
8)Aroclor-1260 {2}	7.367	7.513	487337	243821	1058.157	984.108
9)Aroclor-1260 {3}	7.568	8.149	269463	100289	1013.491	925.050m
10)Aroclor-1260 {4}	8.156	8.512	343231	217115	1015.521	930.676m
11)Aroclor-1260 {5}	8.879	9.227	532753	180790	1006.521	884.849m
45)DCB-Surrogate	10.192	11.001	663237	349255	102.156	94.595m

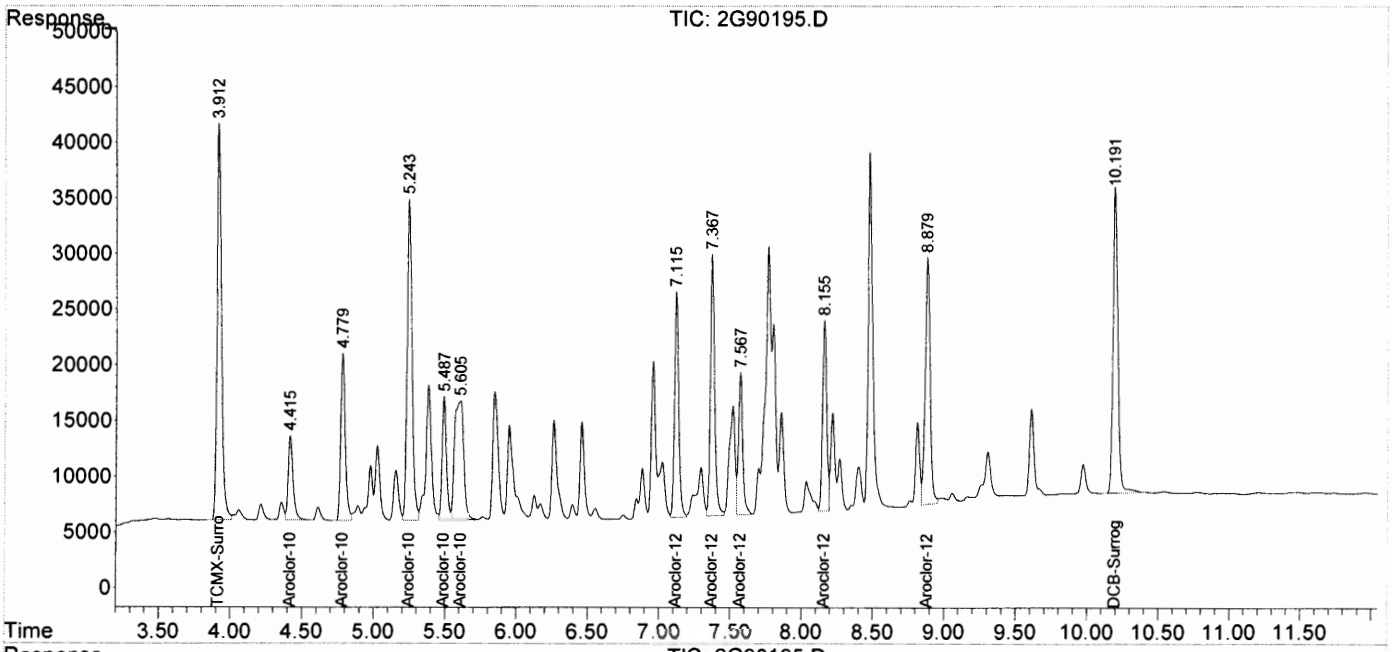
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

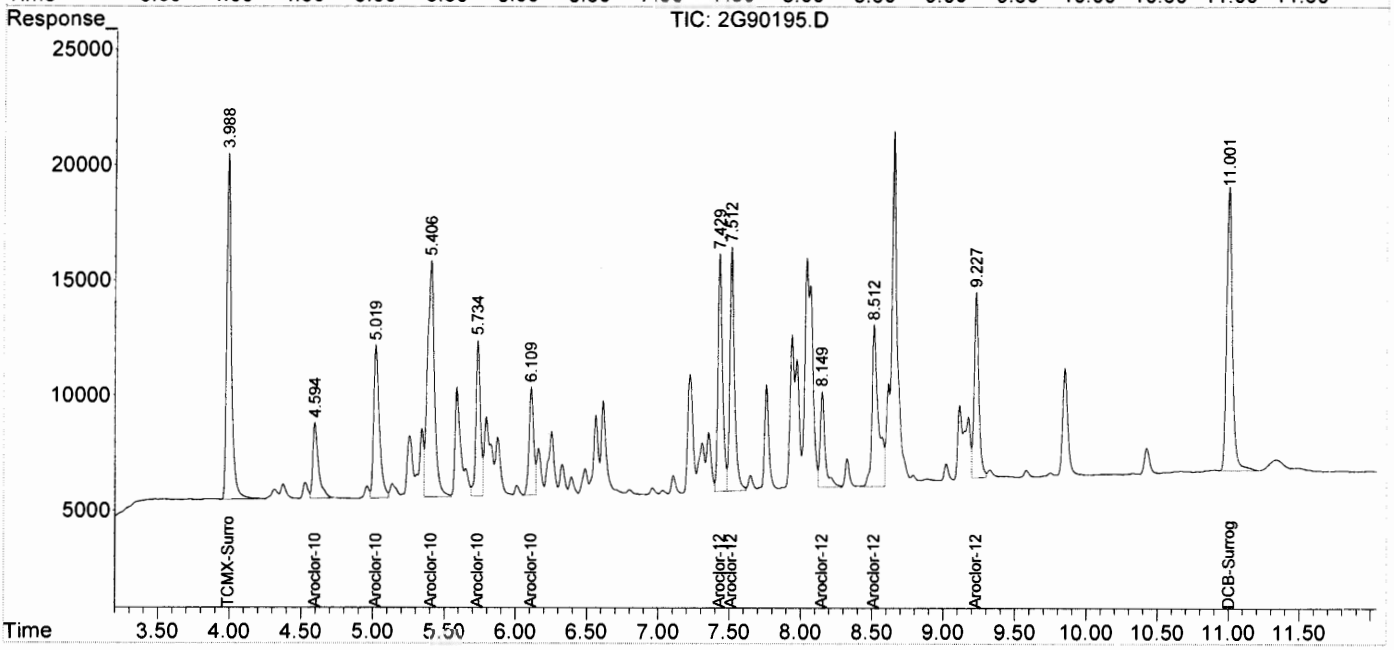
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-29-14\
Data File : 2G90195.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 21:53
Operator : MAS
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:40:09 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1089

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90210.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 9:16
Operator : MAS
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:34:57 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.910	3.980	669796	314069	92.890	92.490m
2)Aroclor-1016 {1}	4.413	4.588	155875	83891	929.008	970.891
3)Aroclor-1016 {2}	4.777	5.013	292416	174020	932.032	971.455
4)Aroclor-1016 {3}	5.241	5.399	603946	323998	936.480	952.365
5)Aroclor-1016 {4}	5.487	5.728	203067	140328	916.414	940.422
6)Aroclor-1016 {5}	5.603	6.103	421078	100015	908.849	939.127
7)Aroclor-1260 {1}	7.115	7.424	368439	214505	917.006	933.019
8)Aroclor-1260 {2}	7.366	7.507	425541	229227	915.286	922.837
9)Aroclor-1260 {3}	7.567	8.145	237262	91663	887.707	845.476m
10)Aroclor-1260 {4}	8.156	8.507	306330	203724	901.081	873.272m
11)Aroclor-1260 {5}	8.879	9.223	472795	167913	888.672	821.824m
45)DCB-Surrogate	10.192	10.996	585046	326279	89.511	88.208

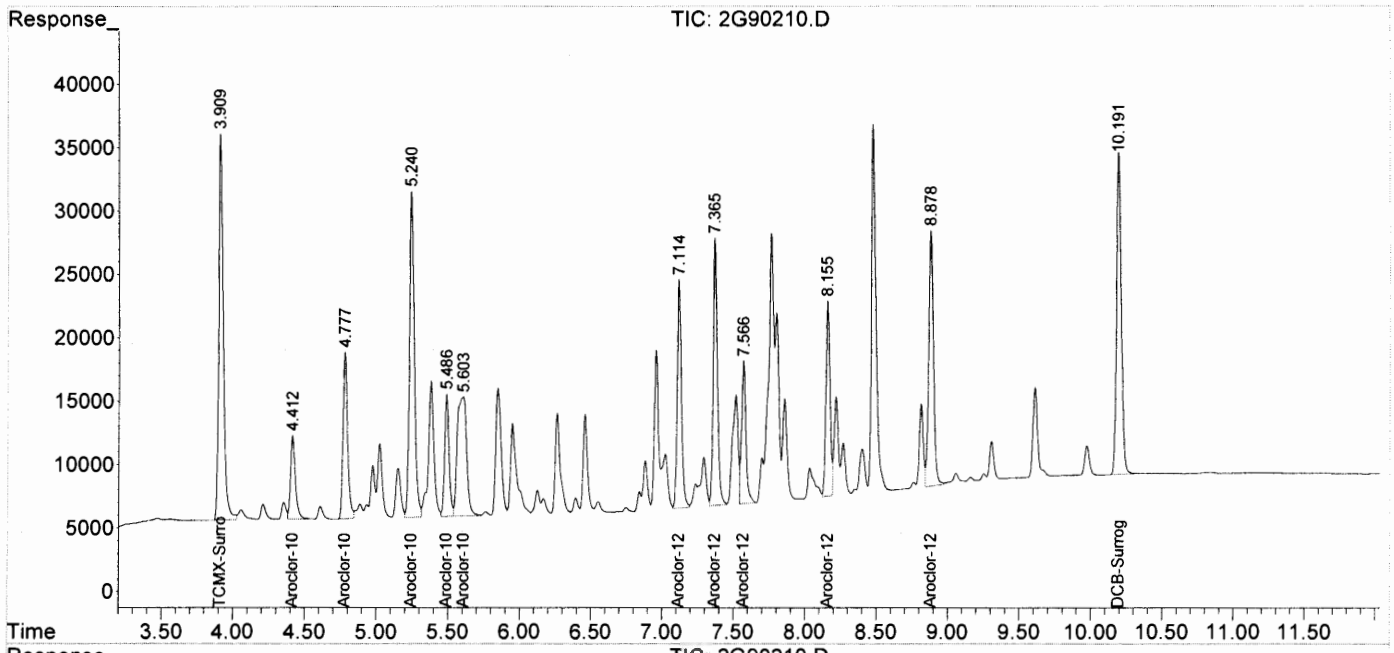
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

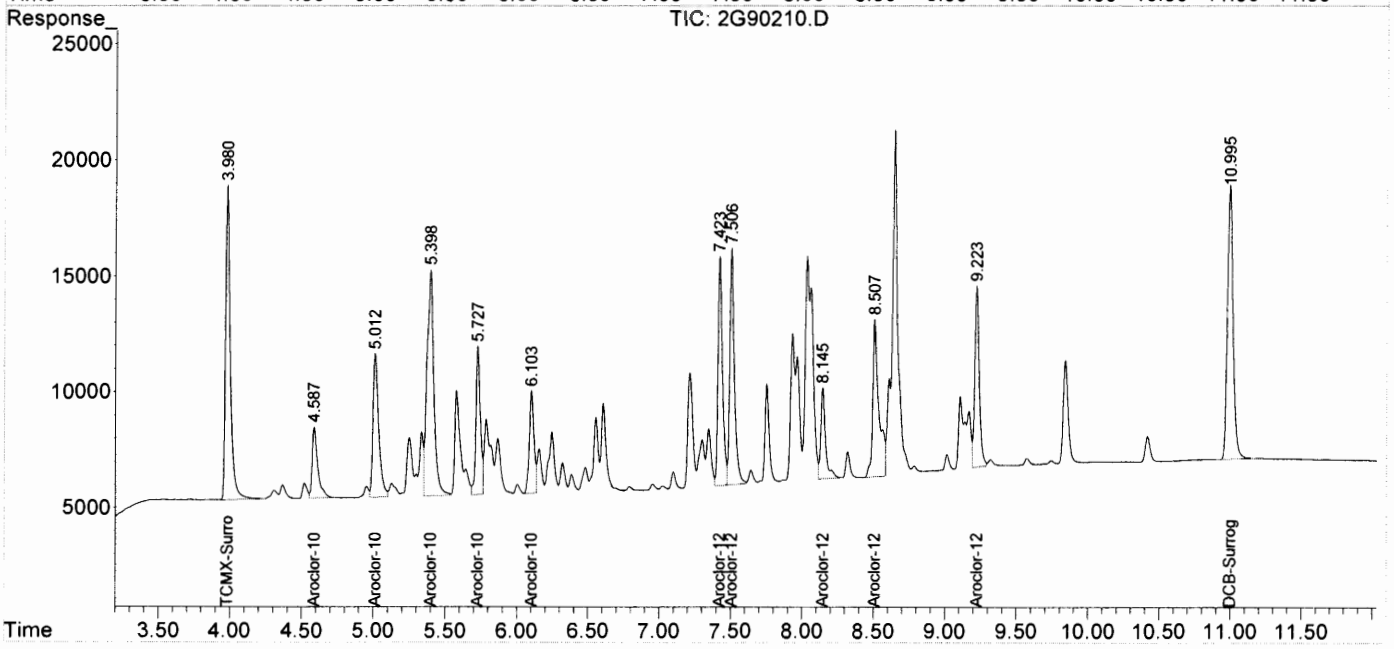
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90210.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 9:16
Operator : MAS
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:34:57 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1091

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90218.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 12:35
Operator : MAS
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:17:44 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

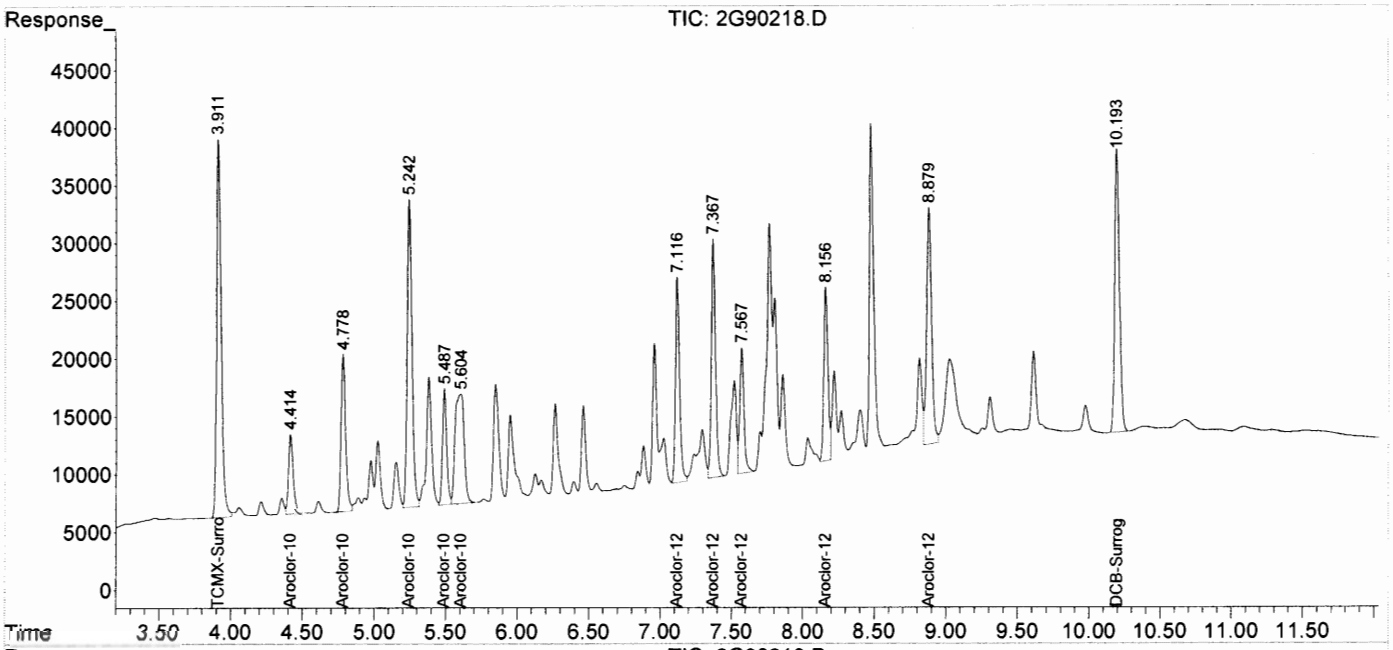
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.911	3.983	718990	485737	99.713	143.045 #
2)Aroclor-1016 {1}	4.415	4.589	158887	85724	947.918	992.789
3)Aroclor-1016 {2}	4.779	5.014	301546	191641	963.110	1075.106
4)Aroclor-1016 {3}	5.243	5.400	625958	338042	972.821	993.649
5)Aroclor-1016 {4}	5.488	5.730	204555	145273	923.455	973.564
6)Aroclor-1016 {5}	5.604	6.105	416375	103074	898.116	967.852
7)Aroclor-1260 {1}	7.117	7.426	357160	215507	887.170	937.587
8)Aroclor-1260 {2}	7.368	7.509	418003	234960	898.052	946.866
9)Aroclor-1260 {3}	7.568	8.146	226604	95846	846.378	884.063
10)Aroclor-1260 {4}	8.157	8.510	303042	198774	890.951	852.053
11)Aroclor-1260 {5}	8.880	9.223	502910	182842	947.705	894.896m
45)DCB-Surrogate	10.194	10.997	565764	338172	86.420	91.511m

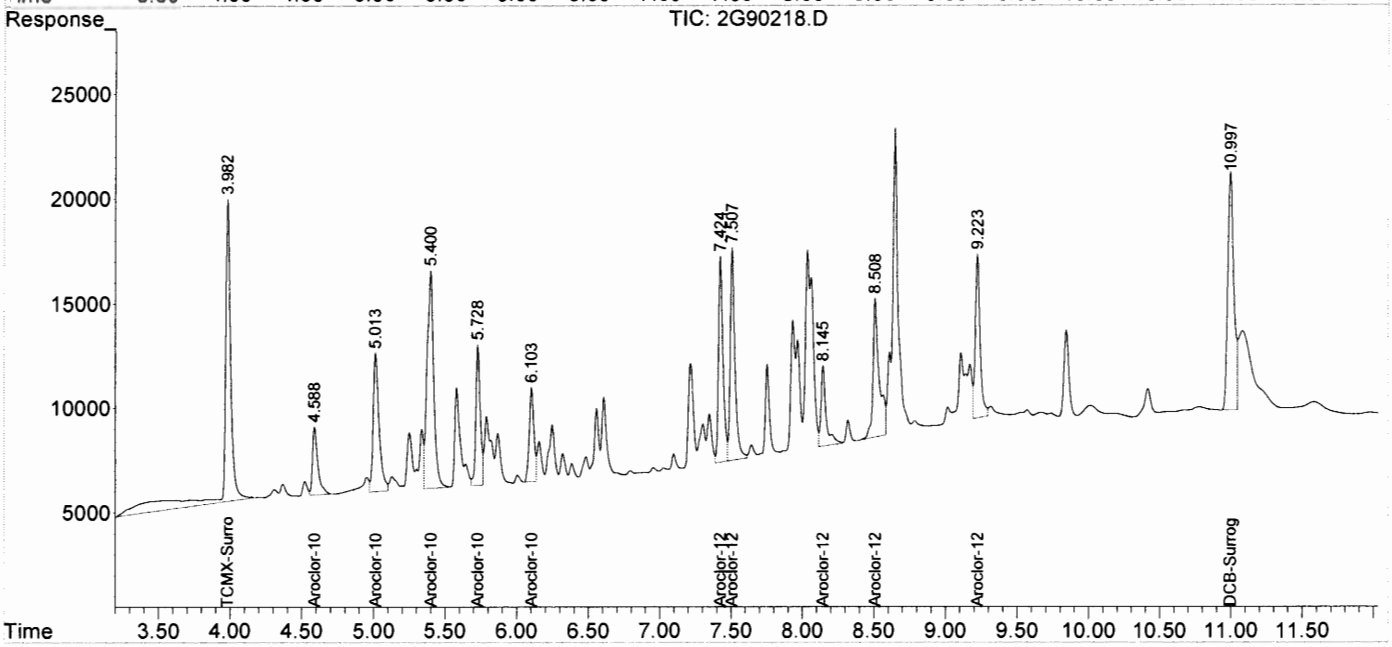
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_2\Data\05-30-14\
Data File : 2G90218.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 12:35
Operator : MAS
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:17:44 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1093

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84478.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 8:41
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 23 08:59:05 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.922	3.911	5075249	6104780	194.699	190.153
2)Aroclor-1016 {1}	4.327	4.492	1162782	1366851	1945.669	1887.136
3)Aroclor-1016 {2}	4.657	4.897	1979765	2390605	1903.856	1853.210
4)Aroclor-1016 {3}	5.119	5.275	4215055	5309108	1949.443	1893.637
5)Aroclor-1016 {4}	5.235	5.593	1851523	2012820	1918.706	1888.406
6)Aroclor-1016 {5}	5.447	5.955	3206327	1449506	1888.973	1902.225
7)Aroclor-1260 {1}	6.894	7.240	2717526	3320274	1919.877	1880.137
8)Aroclor-1260 {2}	7.143	7.323	3092045	3854036	1916.440	1898.585
9)Aroclor-1260 {3}	7.625	8.302	1572362	3244377	1935.263	1856.657
10)Aroclor-1260 {4}	7.903	8.996	2178783	3435540	1853.846	1851.153
11)Aroclor-1260 {5}	8.612	9.575	3442078	2215315	1696.433	1590.763m
45)DCB-Surrogate	9.863	10.634	3869499	5863014	165.276	170.107

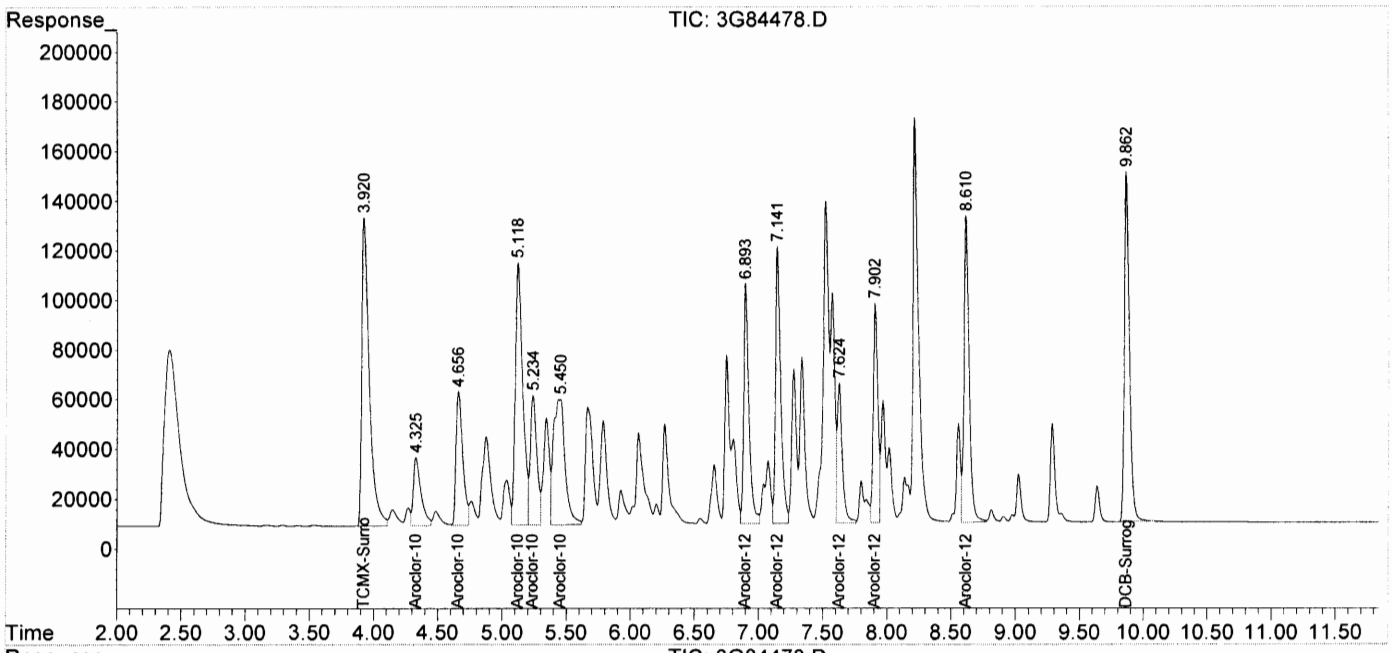
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

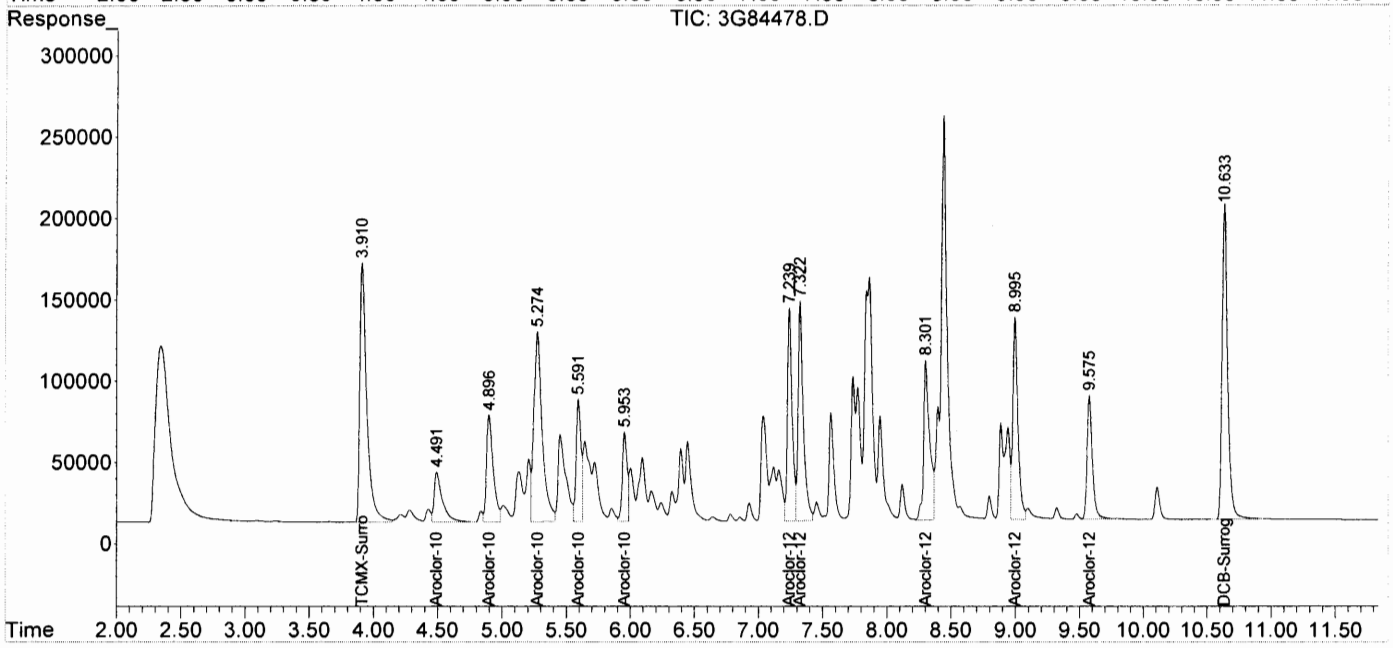
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84478.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 8:41
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 23 08:59:05 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1095

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84489.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 11:36
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 23 12:58:00 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

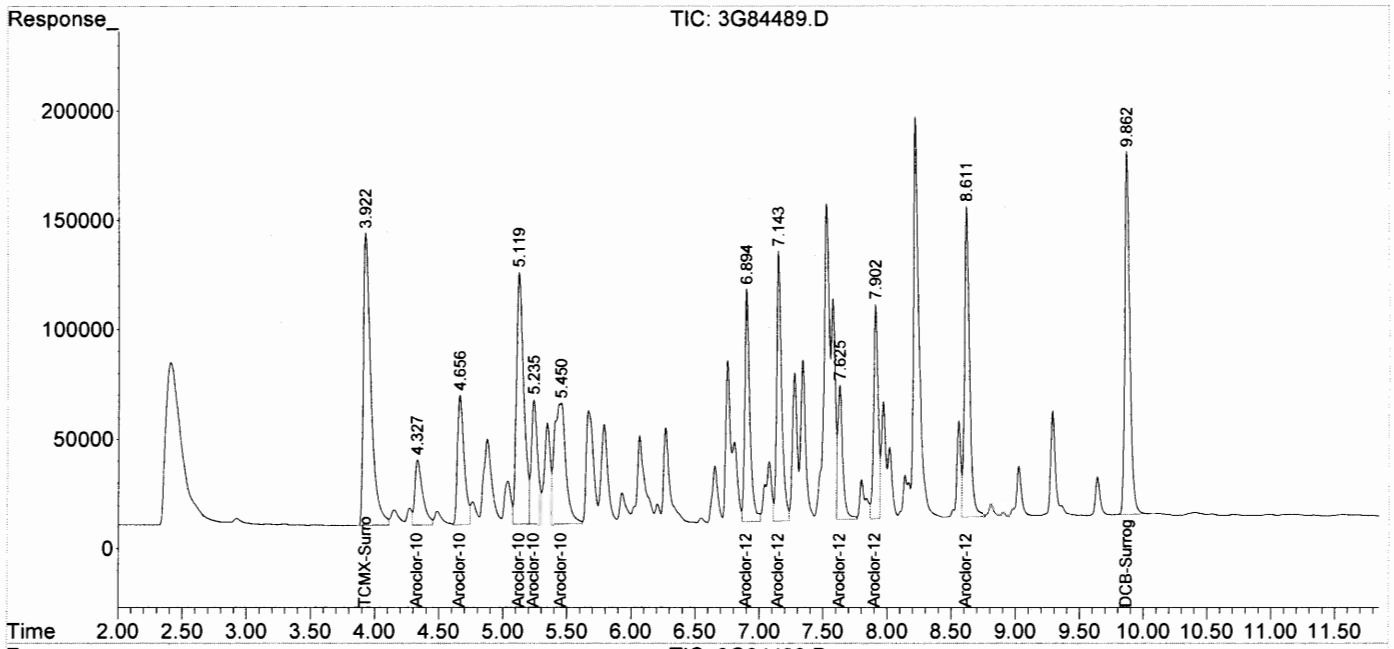
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.923	3.911	5528920	6257031	213.313	195.116
2)Aroclor-1016 {1}	4.328	4.493	1259910	1371628	2127.020	1894.450
3)Aroclor-1016 {2}	4.658	4.897	2162964	2429944	2108.390	1888.146
4)Aroclor-1016 {3}	5.121	5.276	4600427	5378936	2152.505	1921.235
5)Aroclor-1016 {4}	5.236	5.593	2019379	2056941	2114.699	1934.841
6)Aroclor-1016 {5}	5.448	5.955	3477079	1455194	2073.185	1910.510
7)Aroclor-1260 {1}	6.895	7.240	2912396	3378803	2076.574	1917.591
8)Aroclor-1260 {2}	7.144	7.323	3353136	3846733	2100.111	1894.610
9)Aroclor-1260 {3}	7.626	8.301	1676940	3365460	2072.421	1931.383m
10)Aroclor-1260 {4}	7.904	8.996	2389364	3680540	2052.810	1986.119
11)Aroclor-1260 {5}	8.612	9.577	3903916	2578277	1924.051	1851.397
45)DCB-Surrogate	9.863	10.635	4554924	6857588	196.889	200.540

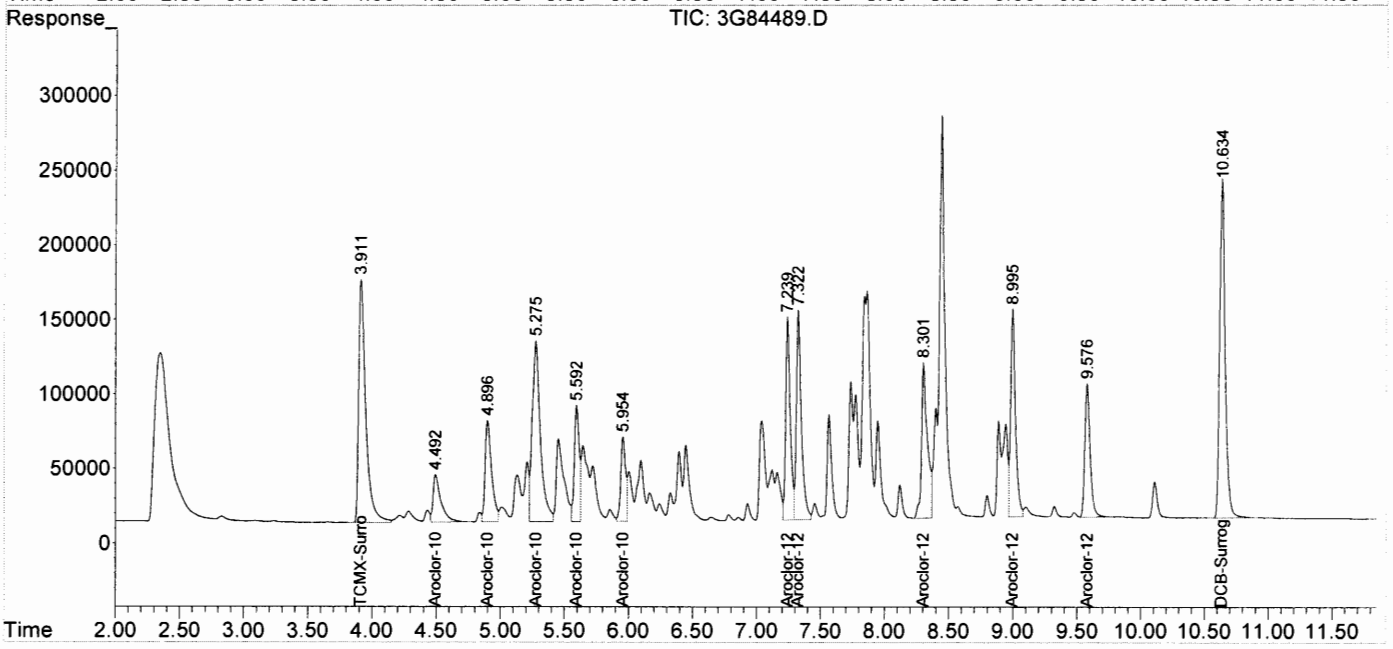
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84489.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 11:36
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 23 12:58:00 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1097

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84503.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 15:19
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 12:20:03 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

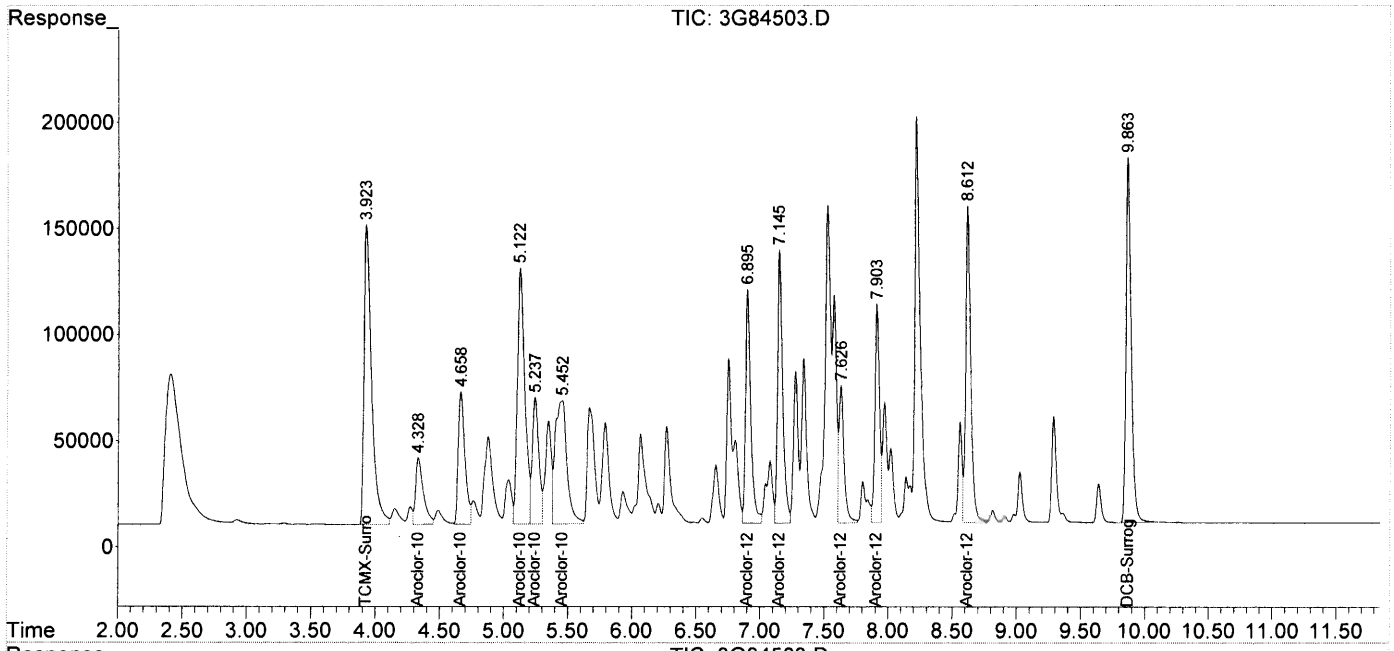
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.924	3.913	5780951	6374503	223.753	198.952
2)Aroclor-1016 {1}	4.330	4.494	1330523	1411359	2261.166	1955.529
3)Aroclor-1016 {2}	4.659	4.898	2276357	2480596	2238.306	1933.409
4)Aroclor-1016 {3}	5.123	5.277	4842770	5486979	2283.019	1964.107
5)Aroclor-1016 {4}	5.238	5.595	2134395	2120673	2251.728	2002.399
6)Aroclor-1016 {5}	5.450	5.956	3720412	1507844	2243.242	1987.590
7)Aroclor-1260 {1}	6.896	7.242	3115493	3447997	2243.481	1962.119
8)Aroclor-1260 {2}	7.146	7.325	3538820	3955246	2233.452	1953.851
9)Aroclor-1260 {3}	7.627	8.302	1815729	3430588	2256.314	1971.766m
10)Aroclor-1260 {4}	7.905	8.997	2537825	3758030	2195.708	2028.892
11)Aroclor-1260 {5}	8.613	9.578	4114955	2627550	2028.062	1886.778
45)DCB-Surrogate	9.864	10.636	4830239	6947011	209.821	203.301

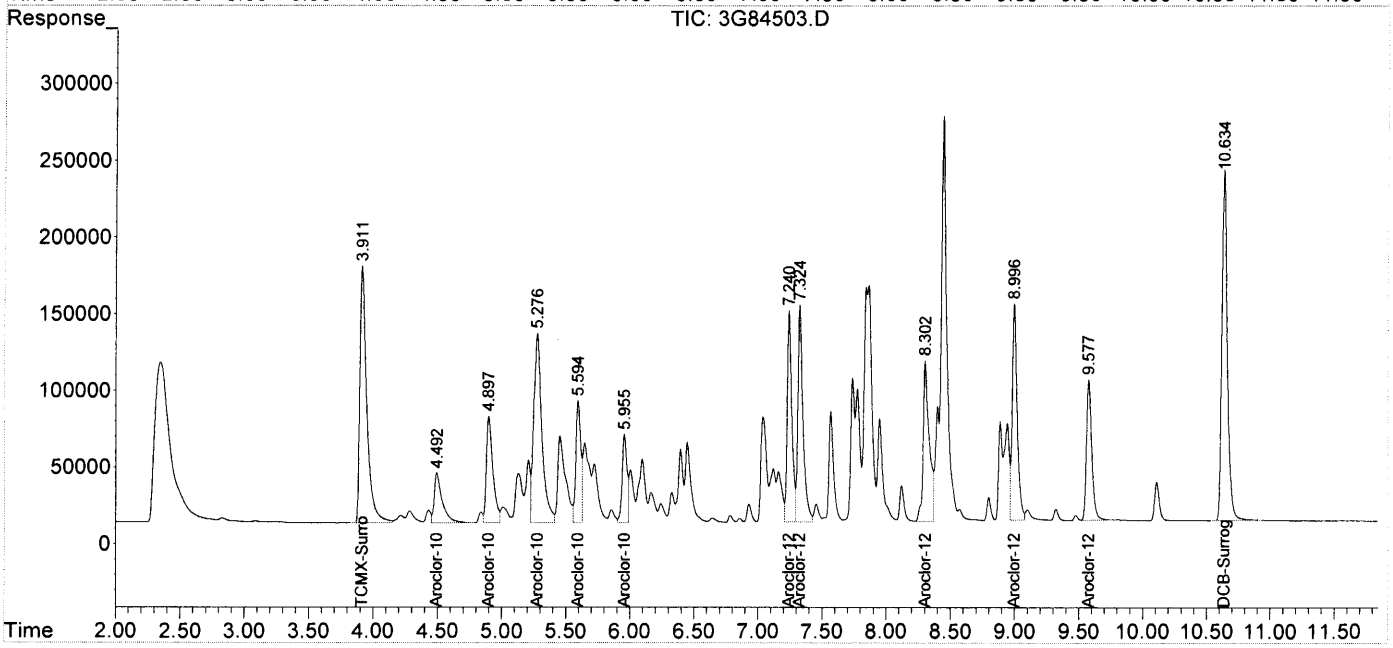
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84503.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 15:19
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 12:20:03 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84515.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 18:38
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 08:48:31 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.926	3.914	5934293	6503561	230.140	203.176
2)Aroclor-1016 {1}	4.331	4.495	1339061	1435408	2277.523	1992.709
3)Aroclor-1016 {2}	4.660	4.899	2319647	2534002	2288.615	1981.481
4)Aroclor-1016 {3}	5.123	5.278	4938349	5610205	2335.123	2013.260
5)Aroclor-1016 {4}	5.239	5.596	2173020	2153774	2298.268	2037.717
6)Aroclor-1016 {5}	5.450	5.957	3787760	1546021	2291.110	2043.916
7)Aroclor-1260 {1}	6.895	7.242	3155755	3523455	2277.026m	2010.989
8)Aroclor-1260 {2}	7.146	7.325	3617723	4036541	2290.831	1998.491
9)Aroclor-1260 {3}	7.626	8.304	1777105	3483551	2204.920m	2004.704
10)Aroclor-1260 {4}	7.905	8.997	2614264	3860905	2270.171	2085.741
11)Aroclor-1260 {5}	8.614	9.579	4207506	2663111	2073.676	1912.314
45)DCB-Surrogate	9.864	10.636	4853458	6998201	210.918	204.883

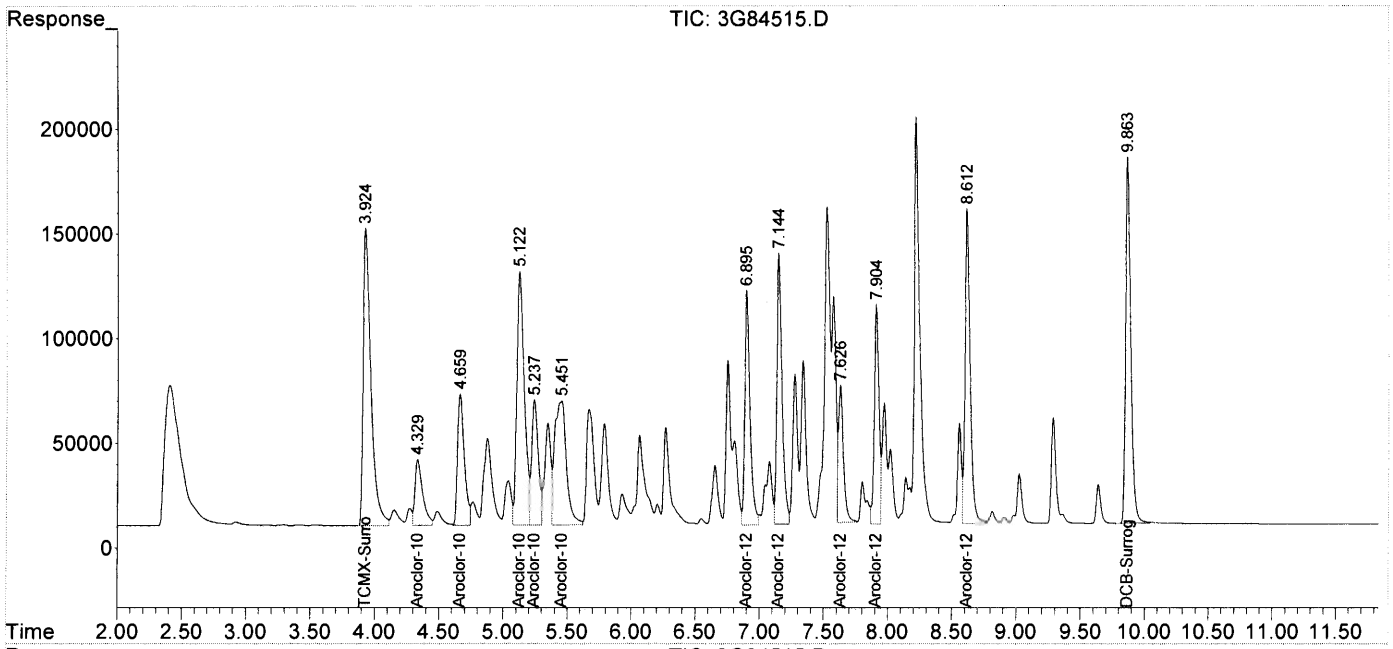
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

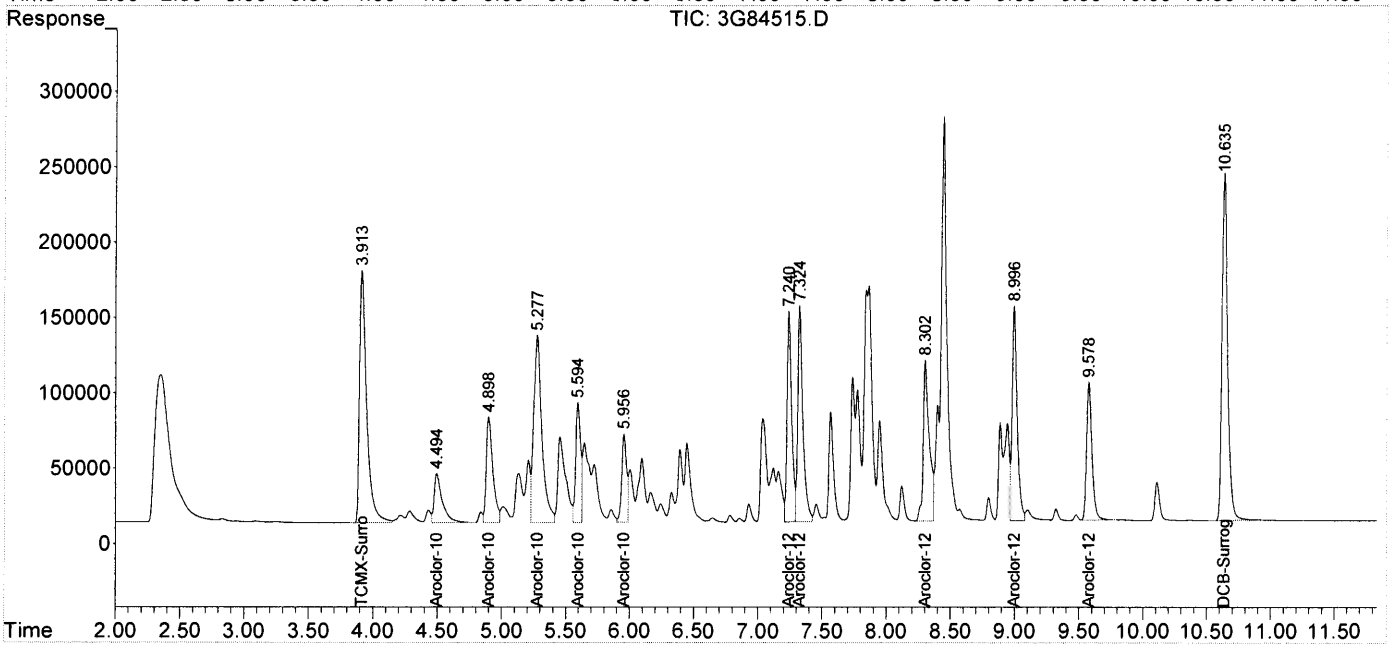
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84515.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 18:38
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 08:48:31 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1101

Data Path : G:\Gcdata\2014\GC_3\Data\05-28-14\
Data File : 3G84562.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2014 12:42
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 28 15:03:41 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.936	3.921	5943719	6503660	230.534	203.179
2)Aroclor-1016 {1}	4.341	4.501	1337684	1447844	2274.883	2012.000
3)Aroclor-1016 {2}	4.672	4.906	2323656	2575763	2293.294	2019.326
4)Aroclor-1016 {3}	5.134	5.284	4906442	5627133	2317.689	2020.034
5)Aroclor-1016 {4}	5.251	5.602	2137894	2232498	2255.933	2122.363
6)Aroclor-1016 {5}	5.457	5.963	3647110	1623376	2191.544	2159.201m
7)Aroclor-1260 {1}	6.910	7.249	3045418	3486825	2185.463	1987.225
8)Aroclor-1260 {2}	7.160	7.333	3458093	3994327	2175.194	1975.283
9)Aroclor-1260 {3}	7.639	8.312	1728807	3308837	2140.891	1896.382
10)Aroclor-1260 {4}	7.919	9.002	2399236	3335727	2062.243	1796.286m
11)Aroclor-1260 {5}	8.626	9.584	3545733	1905053	1747.520	1367.971
45)DCB-Surrogate	9.876	10.643	2850885	4160603	119.721	119.146

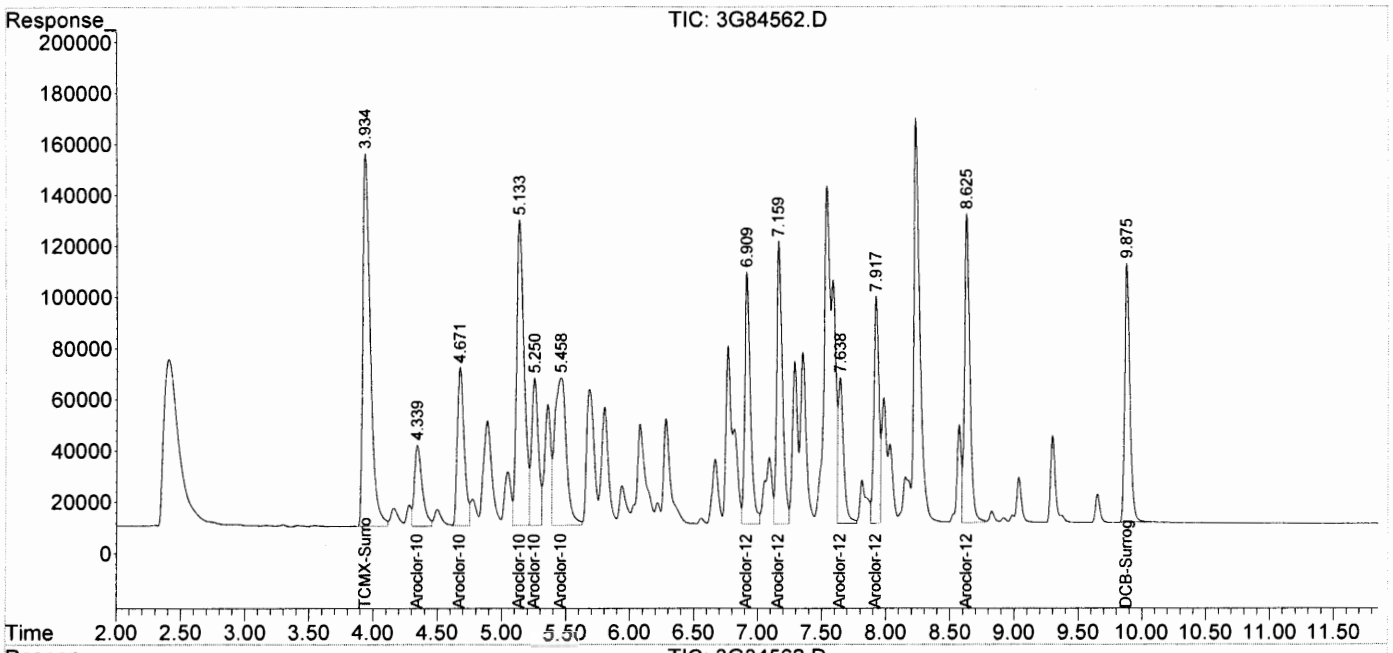
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

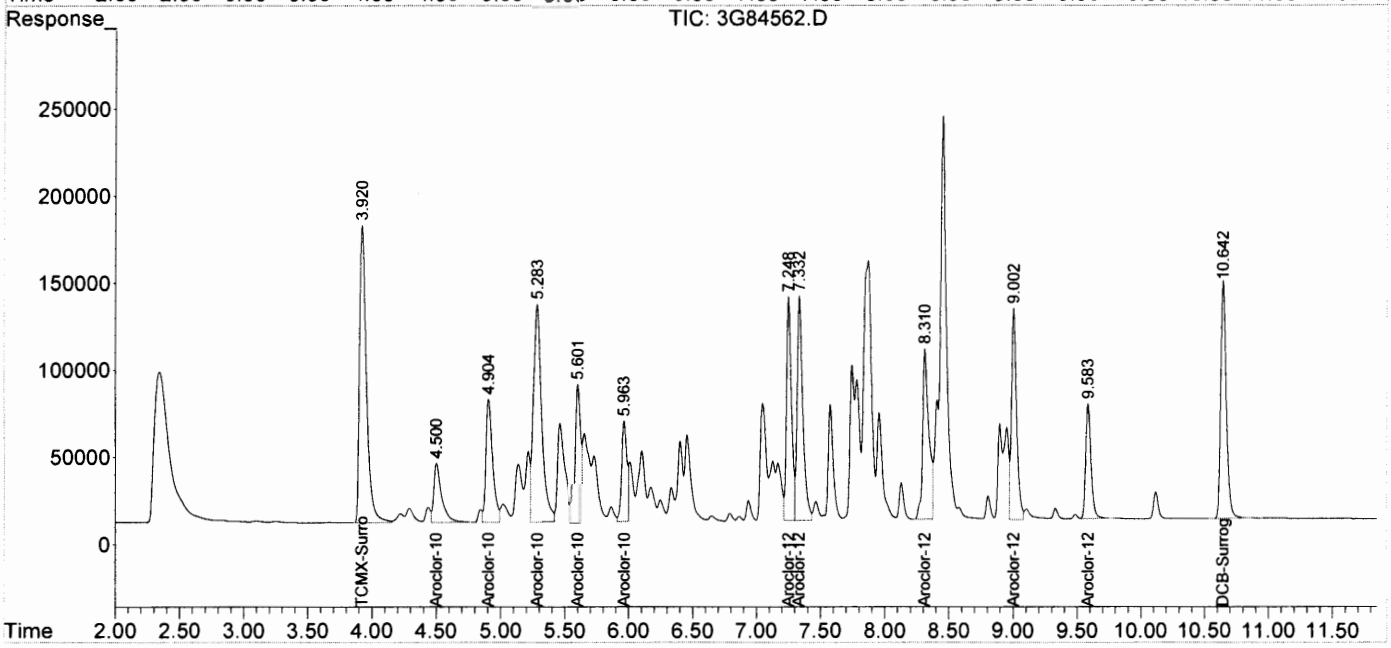
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-28-14\
Data File : 3G84562.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2014 12:42
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 28 15:03:41 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-28-14\
Data File : 3G84574.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2014 19:24
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 29 12:03:18 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.919	3.908	5326651	5924542	204.986	184.294
2)Aroclor-1016 {1}	4.323	4.490	1201952	1298686	2018.374	1783.422
3)Aroclor-1016 {2}	4.654	4.895	2086163	2344286	2021.865	1812.314
4)Aroclor-1016 {3}	5.116	5.273	4420554	5161349	2057.061	1835.518
5)Aroclor-1016 {4}	5.232	5.592	1961062	1976415	2046.083	1850.295
6)Aroclor-1016 {5}	5.446	5.954	3370107	1410694	1999.797	1845.893
7)Aroclor-1260 {1}	6.892	7.239	2823139	3255979	2004.395	1839.209
8)Aroclor-1260 {2}	7.141	7.322	3199657	3754576	1991.618	1844.601
9)Aroclor-1260 {3}	7.623	8.300	1595194	3168067	1965.108	1809.793m
10)Aroclor-1260 {4}	7.901	8.995	2272068	3453685	1941.460	1861.136
11)Aroclor-1260 {5}	8.609	9.575	3705496	2425496	1826.259	1741.688
45)DCB-Surrogate	9.860	10.633	4454511	6551250	192.207	191.112

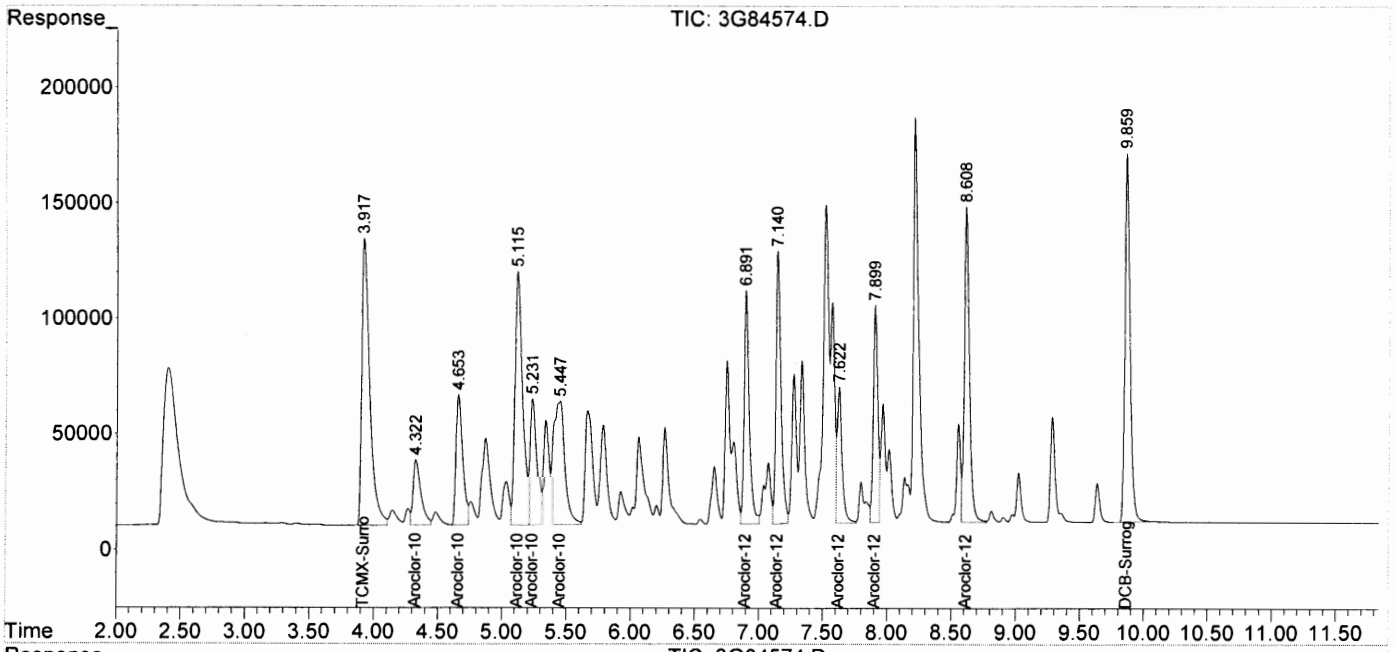
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

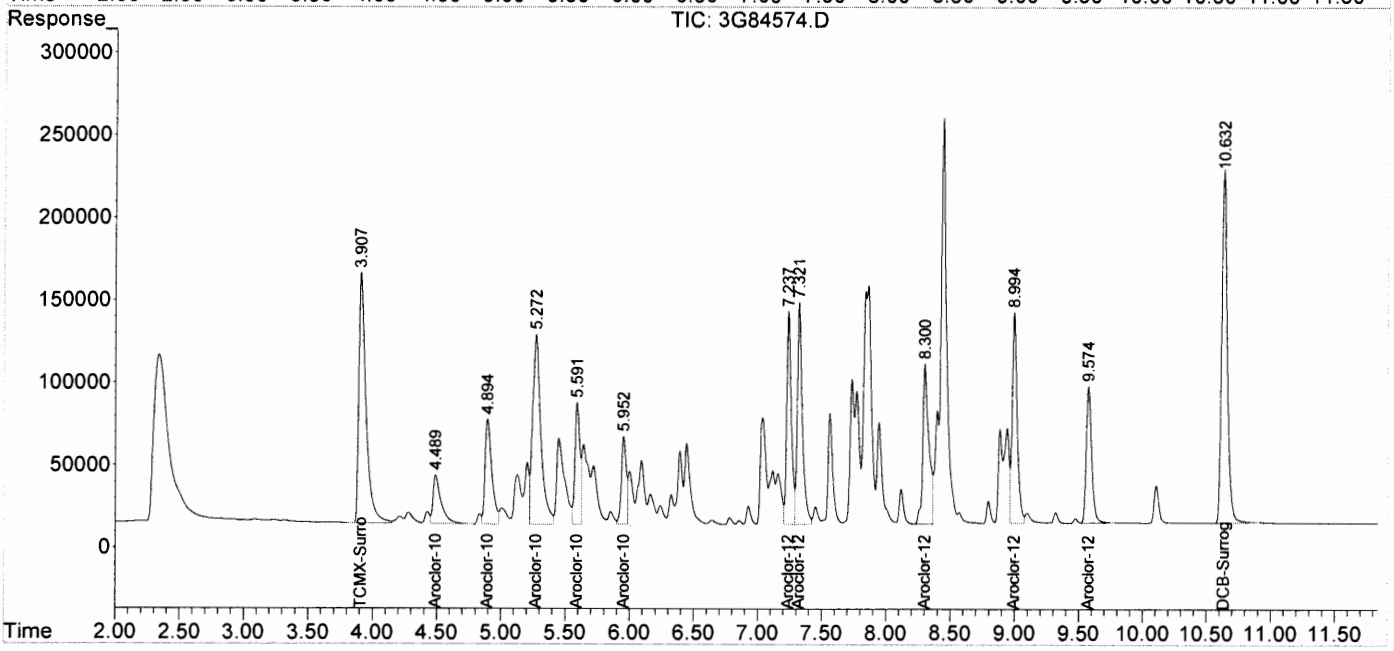
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-28-14\
Data File : 3G84574.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2014 19:24
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 29 12:03:18 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1105

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84579.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 12:44
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : W,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:48:56 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.923	3.910	5729739	6260016	221.626	195.213
2)Aroclor-1016 {1}	4.328	4.491	1289903	1402424	2183.755	1941.754
3)Aroclor-1016 {2}	4.659	4.896	2219273	2434287	2172.574	1892.014
4)Aroclor-1016 {3}	5.121	5.274	4696511	5378303	2203.982	1920.985
5)Aroclor-1016 {4}	5.237	5.593	2077748	2053975	2183.952	1931.710
6)Aroclor-1016 {5}	5.450	5.955	3562721	1438450	2132.533	1886.141
7)Aroclor-1260 {1}	6.897	7.241	3007047	3366389	2153.888	1909.631
8)Aroclor-1260 {2}	7.146	7.324	3391490	3868890	2127.463	1906.675
9)Aroclor-1260 {3}	7.628	8.302	1746848	3310606	2164.778	1897.474m
10)Aroclor-1260 {4}	7.906	8.997	2451223	3570197	2112.079	1925.283
11)Aroclor-1260 {5}	8.615	9.578	3984934	2463149	1963.981	1768.726
45)DCB-Surrogate	9.866	10.635	4679760	6709513	202.736	195.977

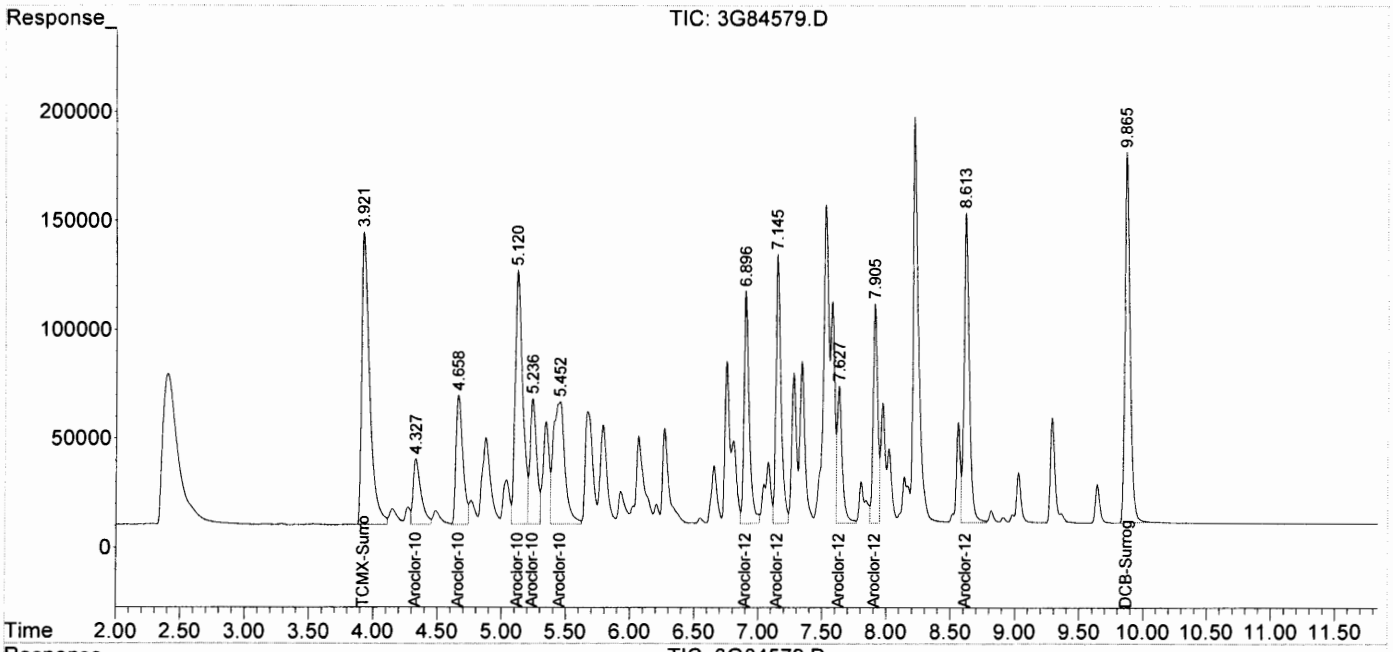
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

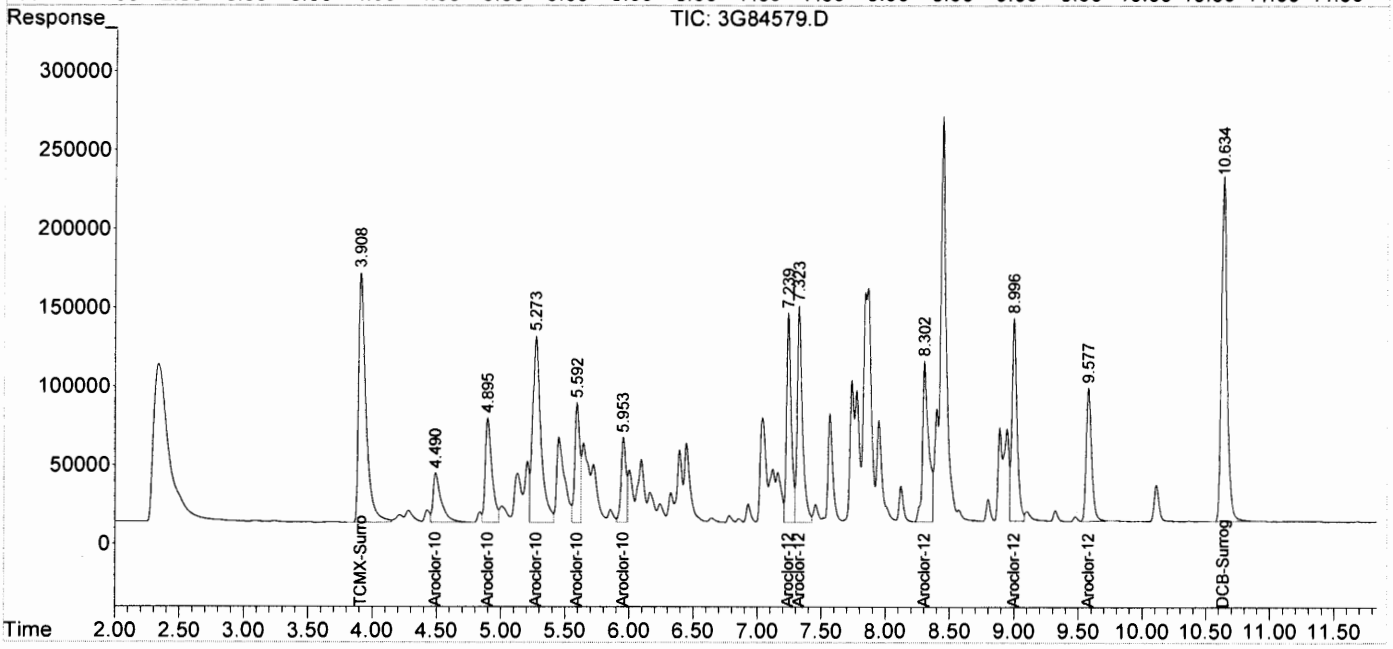
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84579.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 12:44
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : W,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:48:56 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1107

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84602.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 19:25
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 12:45:38 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.922	3.911	6062625	6285397	235.507	196.041
2)Aroclor-1016 {1}	4.326	4.493	1363496	1370576	2324.501	1892.838
3)Aroclor-1016 {2}	4.657	4.898	2361732	2465155	2337.913	1919.577
4)Aroclor-1016 {3}	5.120	5.276	5056176	5423589	2399.861	1938.929
5)Aroclor-1016 {4}	5.236	5.595	2196261	2135818	2326.402	2018.539
6)Aroclor-1016 {5}	5.446	5.957	3847651	1524491	2333.981	2012.106
7)Aroclor-1260 {1}	6.896	7.243	3227194	3401940	2336.934	1932.450
8)Aroclor-1260 {2}	7.146	7.327	3672782	3907548	2331.132	1927.763
9)Aroclor-1260 {3}	7.626	8.305	1856756	3246097	2311.093	1857.715
10)Aroclor-1260 {4}	7.903	8.997	3875422	3527009	3602.717m	1901.494m#
11)Aroclor-1260 {5}	8.613	9.579	4114857	2261962	2028.014	1624.259
45)DCB-Surrogate	9.864	10.637	4058112	5437566	173.895	157.241

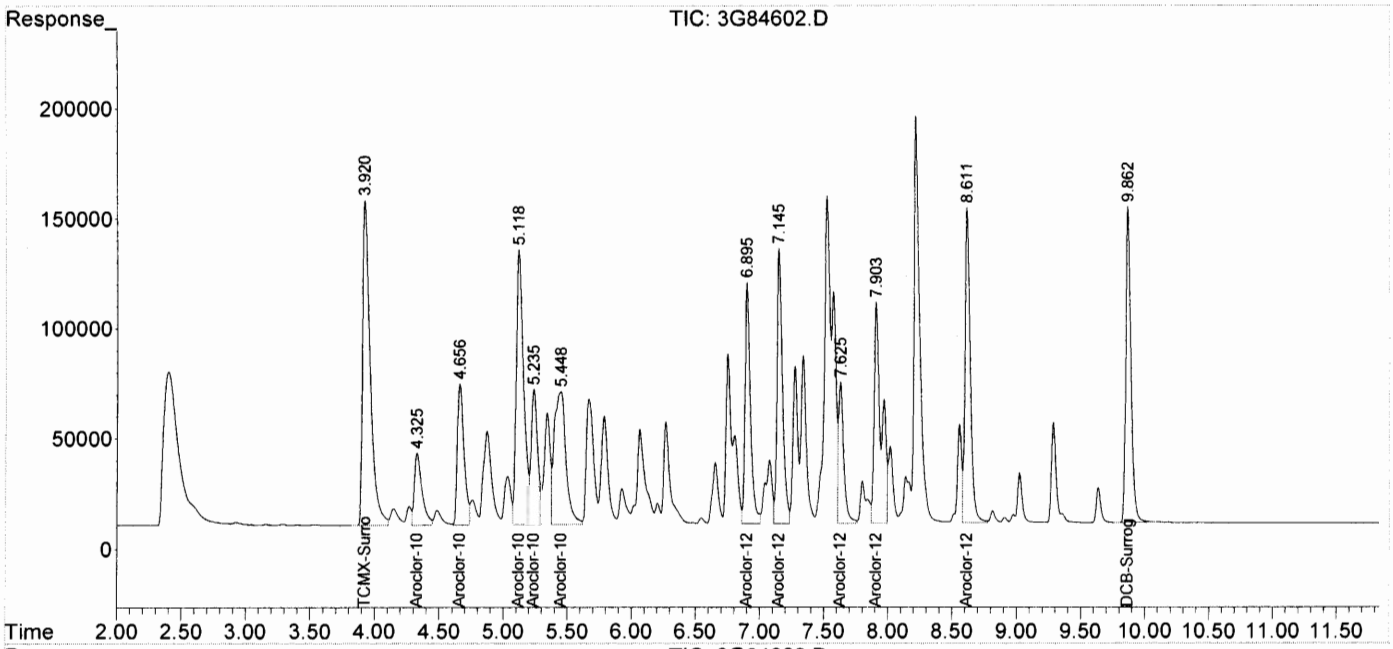
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

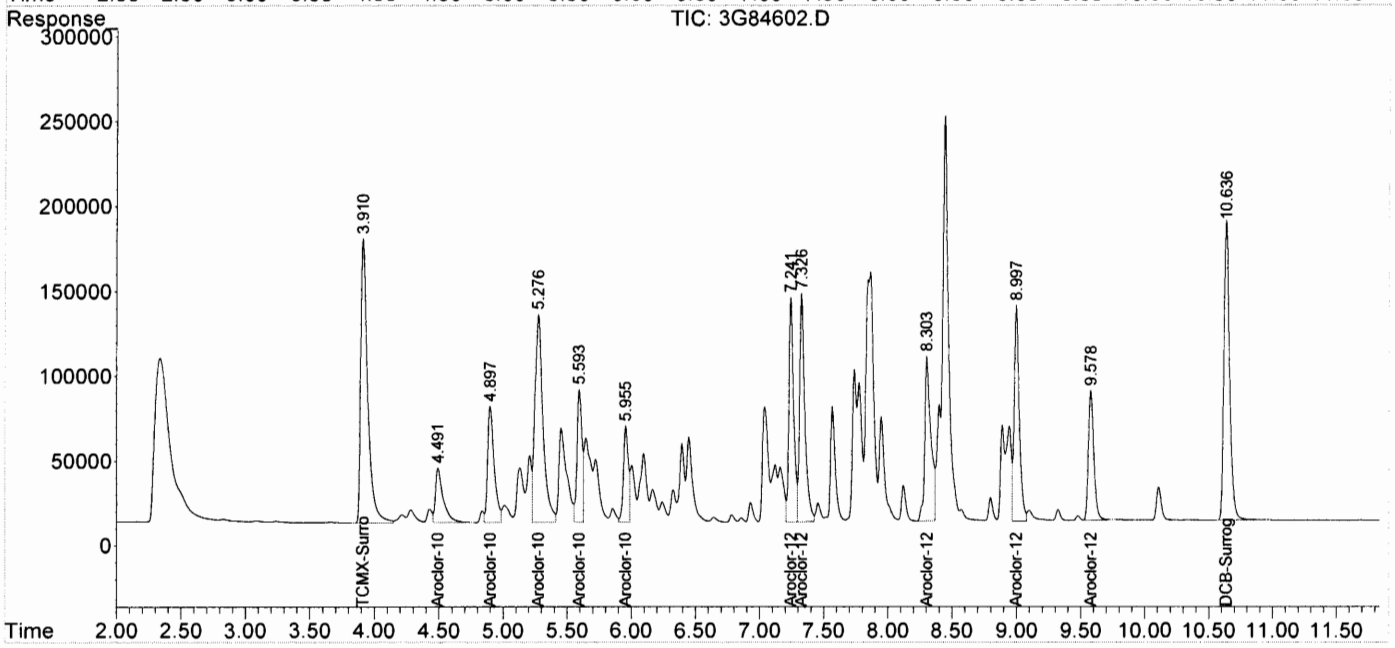
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84602.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 19:25
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 12:45:38 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1109

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84603.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 8:45
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:52:53 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

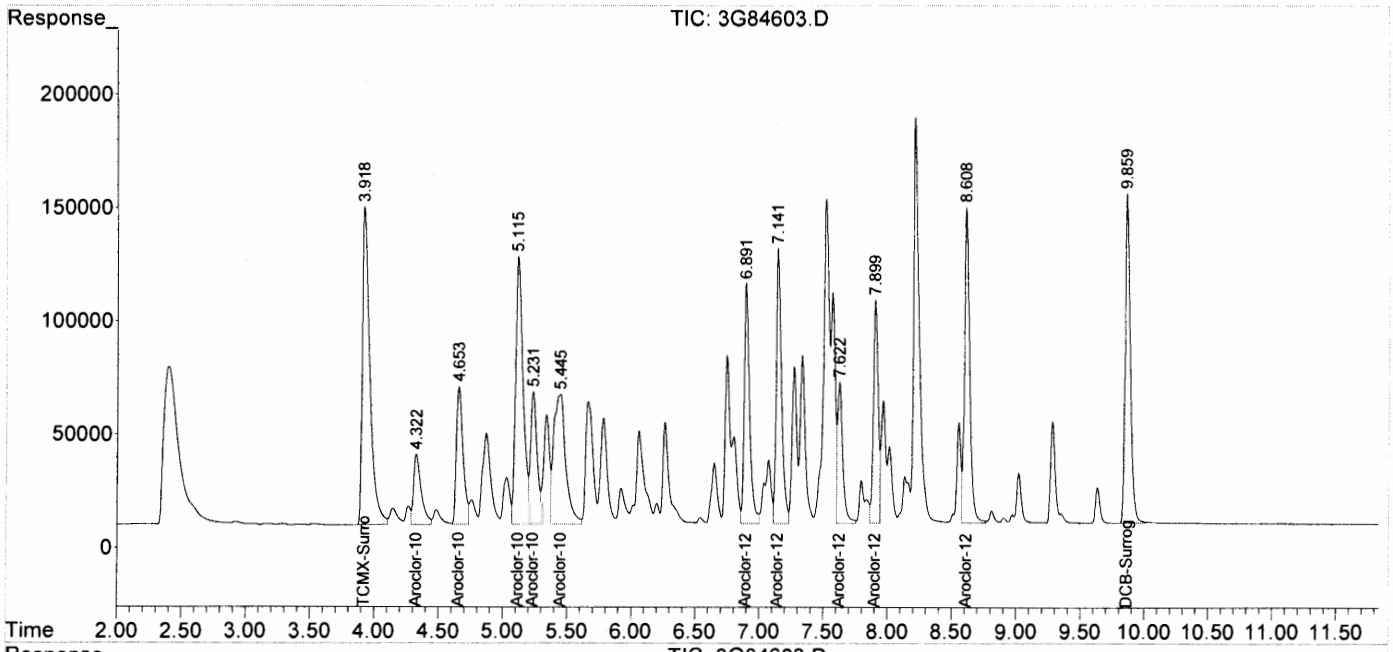
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.919	3.912	5723928	6292294	221.385	196.267
2)Aroclor-1016 {1}	4.324	4.493	1296318	1394298	2195.937	1929.248
3)Aroclor-1016 {2}	4.654	4.897	2230576	2472376	2185.535	1926.042
4)Aroclor-1016 {3}	5.116	5.276	4738168	5467214	2226.408	1956.249
5)Aroclor-1016 {4}	5.232	5.594	2092912	2158748	2202.040	2043.039
6)Aroclor-1016 {5}	5.444	5.956	3745190	1516309	2260.812	2000.048
7)Aroclor-1260 {1}	6.892	7.242	3080745	3437290	2214.655	1955.211
8)Aroclor-1260 {2}	7.142	7.326	3502234	3958390	2206.993	1955.574
9)Aroclor-1260 {3}	7.623	8.304	1782615	3247940	2212.242	1858.850
10)Aroclor-1260 {4}	7.901	8.997	2500583	3323769	2159.651	1789.717
11)Aroclor-1260 {5}	8.609	9.577	3960692	2335475	1952.033	1677.047
45)DCB-Surrogate	9.860	10.636	4058257	5759926	173.902	166.982

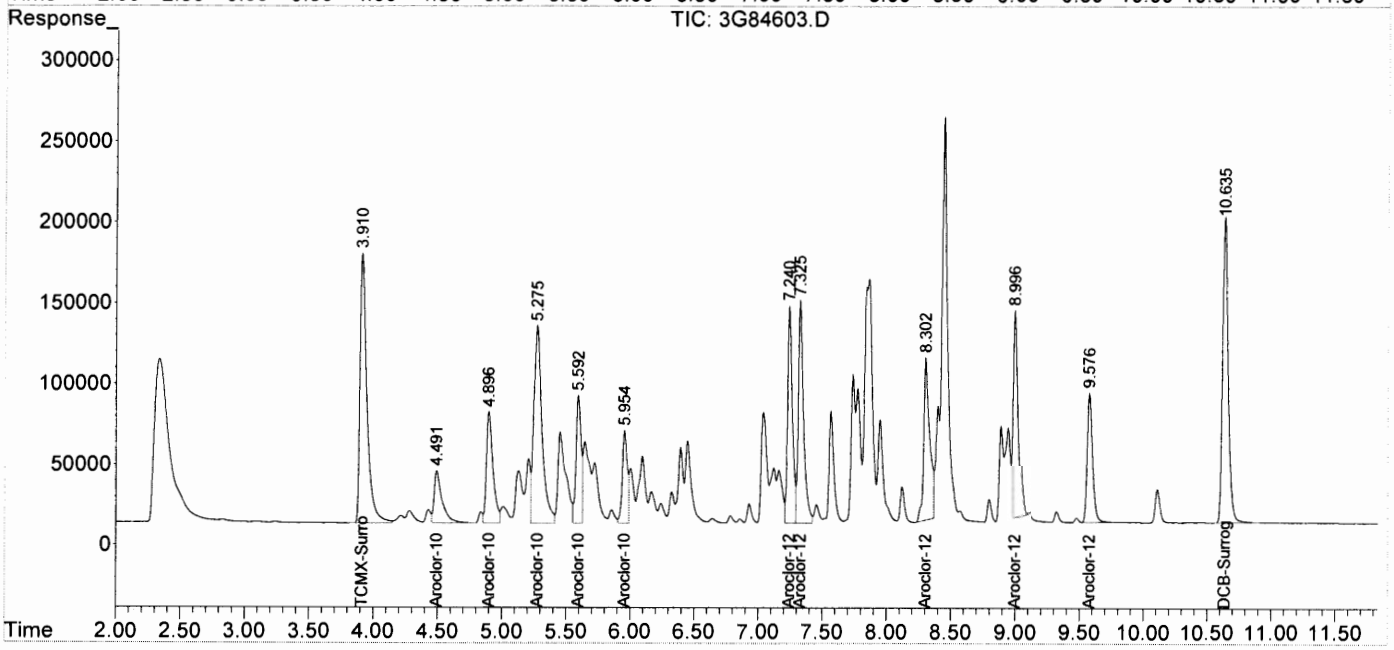
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84603.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 8:45
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:52:53 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84609.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 12:34
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:50:00 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.926	3.912	6157390	6540061	239.482	204.372
2)Aroclor-1016 {1}	4.331	4.492	1391967	1482307	2379.553	2065.685
3)Aroclor-1016 {2}	4.662	4.898	2380547	2586211	2360.080	2028.829
4)Aroclor-1016 {3}	5.124	5.276	5009778	5648562	2374.301	2028.616
5)Aroclor-1016 {4}	5.241	5.594	2218617	2232721	2353.557	2122.605
6)Aroclor-1016 {5}	5.452	5.957	3960405	1612539	2415.489	2142.955
7)Aroclor-1260 {1}	6.902	7.244	3196652	3574595	2311.260	2044.297
8)Aroclor-1260 {2}	7.152	7.328	3634522	4060273	2303.104	2011.564
9)Aroclor-1260 {3}	7.633	8.305	1844932	3499462	2295.285	2014.616m
10)Aroclor-1260 {4}	7.911	9.000	2578821	3740342	2235.568	2019.125
11)Aroclor-1260 {5}	8.620	9.582	4094846	2446322	2018.152	1756.643
45)DCB-Surrogate	9.872	10.640	4136561	5874820	177.498	170.466

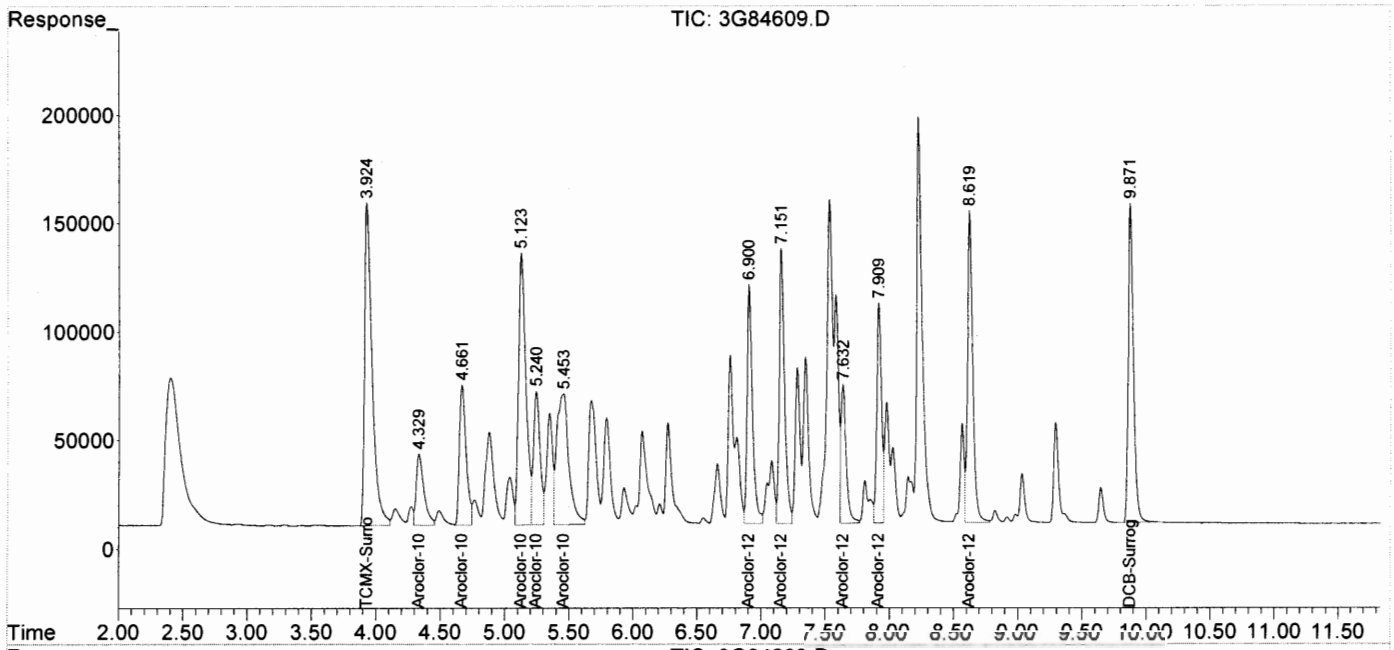
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

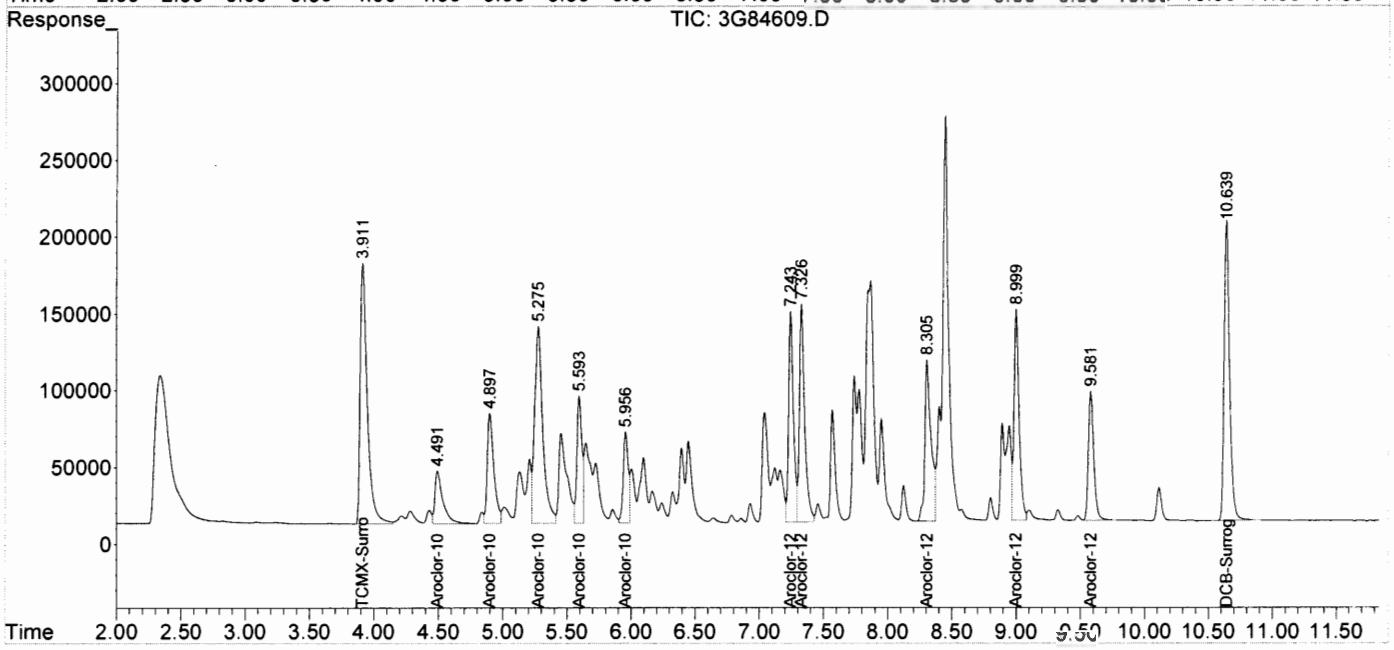
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-30-14\
Data File : 3G84609.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 12:34
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 15:50:00 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2014\GC_3\Data\06-02-14\
Data File : 3G84623.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Jun 2014 9:06
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Jun 04 11:02:39 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.920	3.912	5942812	6552889	230.496	204.792
2)Aroclor-1016 {1}	4.324	4.492	1332873	1435741	2265.666	1993.226
3)Aroclor-1016 {2}	4.655	4.897	2299285	2538201	2264.902	1985.277
4)Aroclor-1016 {3}	5.116	5.275	4848151	5563391	2285.943	1994.554
5)Aroclor-1016 {4}	5.232	5.593	2131073	2203195	2247.738	2090.748
6)Aroclor-1016 {5}	5.443	5.955	3635116	1561457	2183.125	2066.797
7)Aroclor-1260 {1}	6.893	7.241	3059083	3529194	2196.741	2014.719
8)Aroclor-1260 {2}	7.142	7.325	3461497	4009432	2177.642	1983.581
9)Aroclor-1260 {3}	7.623	8.303	1740683	3447491	2156.611	1982.268
10)Aroclor-1260 {4}	7.901	8.996	2430647	3648399	2092.322	1968.390
11)Aroclor-1260 {5}	8.609	9.577	3855505	2355879	1900.192	1691.698
45)DCB-Surrogate	9.860	10.635	4041558	5944929	173.136	172.595

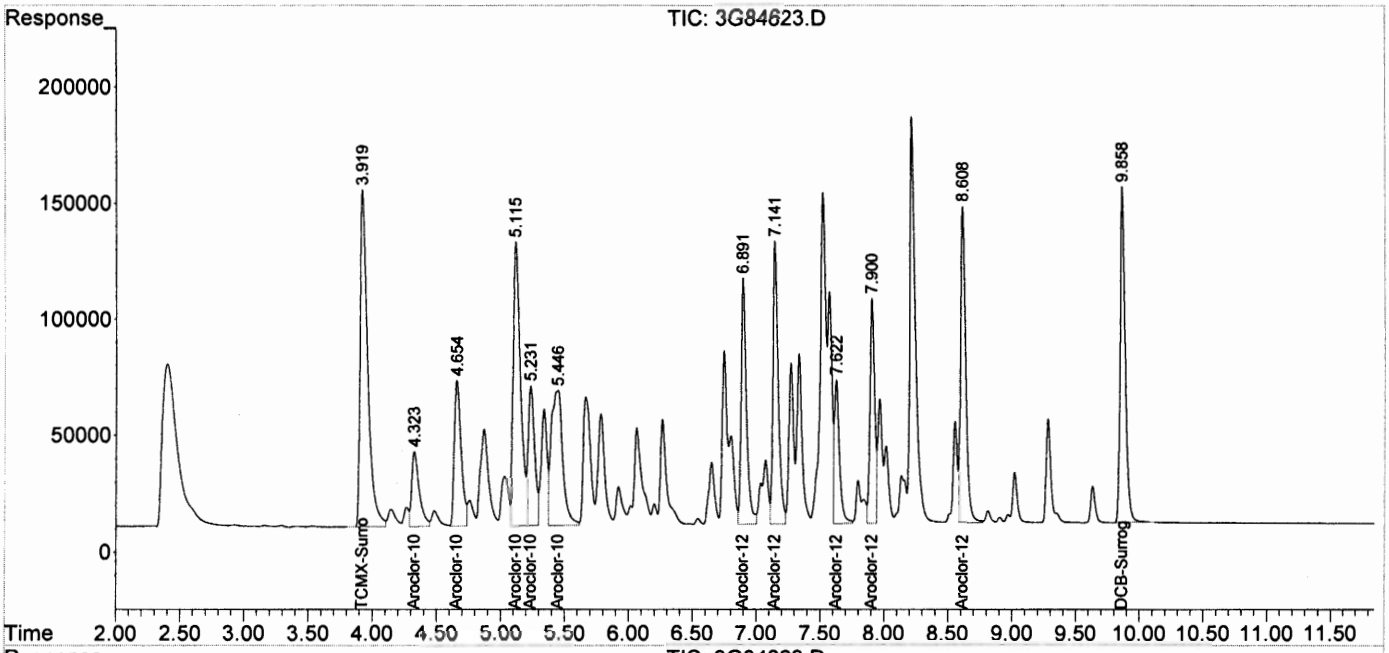
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

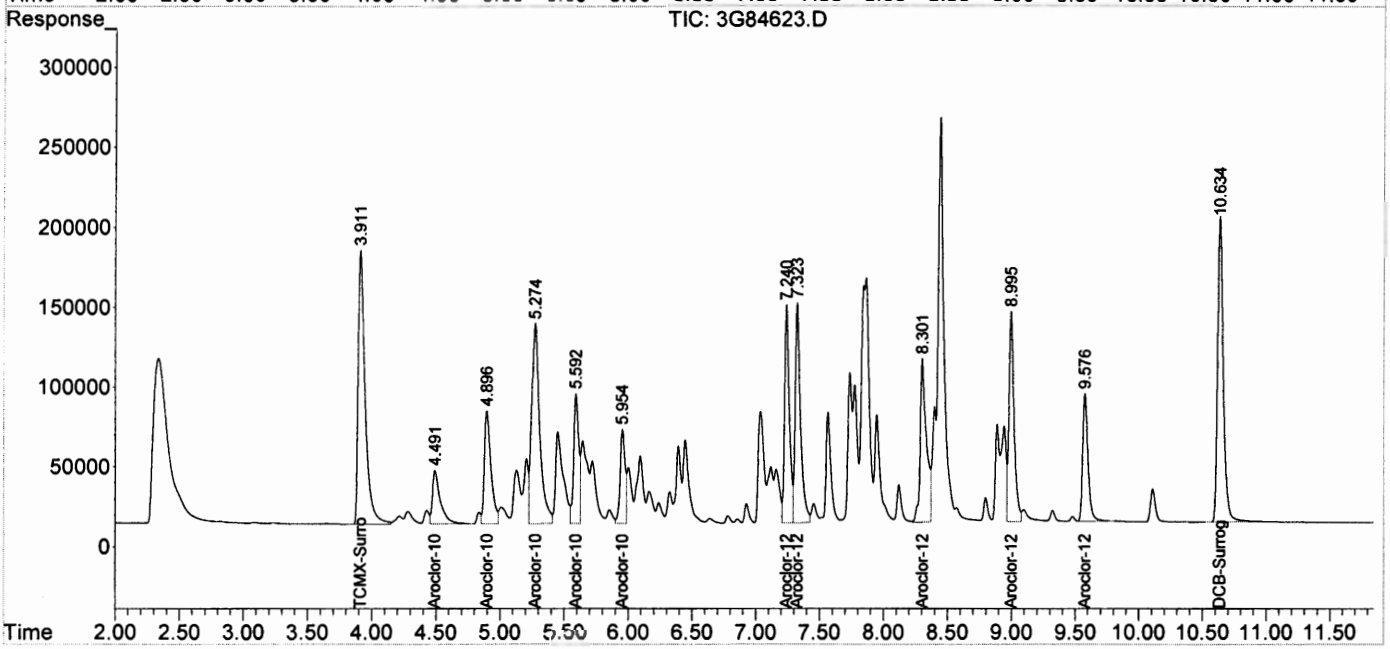
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2014\GC_3\Data\06-02-14\
Data File : 3G84623.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Jun 2014 9:06
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Jun 04 11:02:39 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1115

Data Path : G:\Gcdata\2014\GC_3\Data\06-02-14\
Data File : 3G84637.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Jun 2014 16:19
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Jun 02 16:37:04 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.918	3.910	5768872	6020180	223.251	187.401
2)Aroclor-1016 {1}	4.322	4.490	1303373	1290395	2209.352	1770.891
3)Aroclor-1016 {2}	4.654	4.897	2243432	2354550	2200.309	1821.354
4)Aroclor-1016 {3}	5.113	5.272	4749160	5237621	2232.337	1865.471
5)Aroclor-1016 {4}	5.229	5.591	2088925	2020912	2197.280	1896.902
6)Aroclor-1016 {5}	5.444	5.954	3536517	1459816	2114.317	1917.251
7)Aroclor-1260 {1}	6.891	7.240	2892966	3263797	2060.802	1844.174
8)Aroclor-1260 {2}	7.140	7.323	3332852	3859415	2085.684	1901.514
9)Aroclor-1260 {3}	7.622	8.303	1644340	3196754	2029.537	1827.390
10)Aroclor-1260 {4}	7.899	8.995	2330466	3485904	1996.730	1878.865
11)Aroclor-1260 {5}	8.607	9.575	3826075	2370233	1885.687	1702.005
45)DCB-Surrogate	9.860	10.634	4584786	6329057	198.285	184.305

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

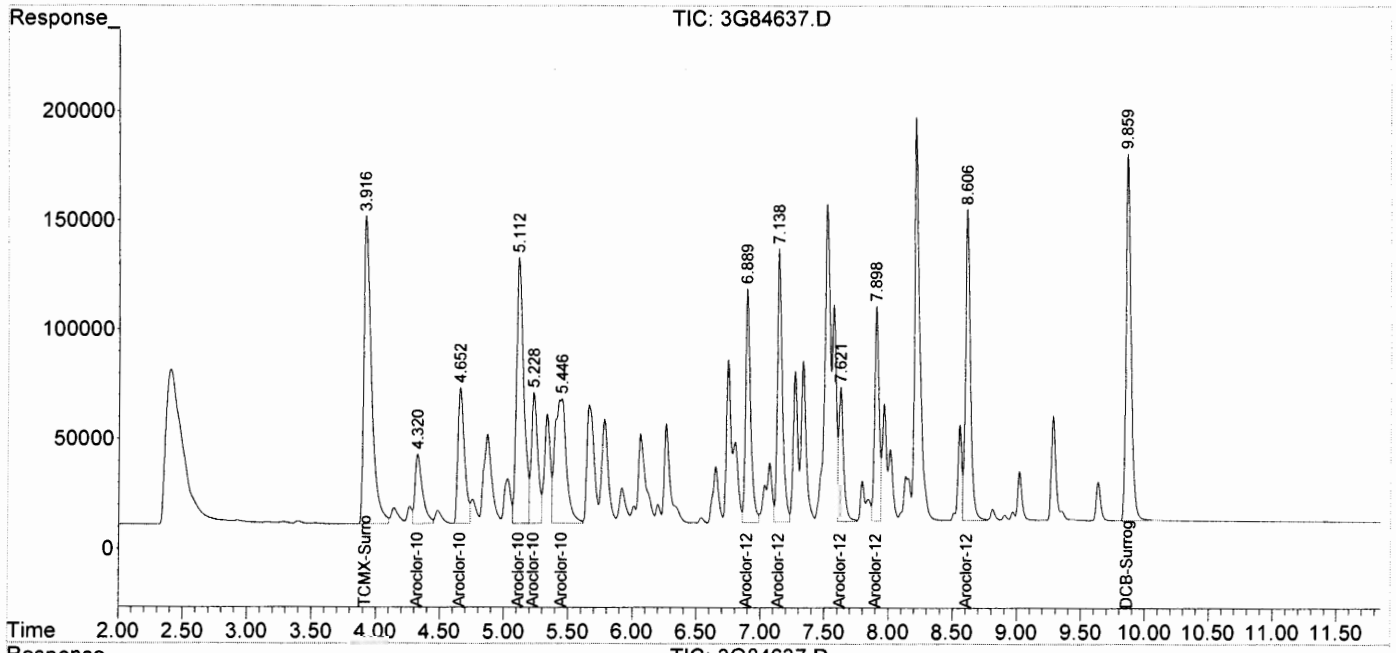
Quantitation Report (QT Reviewed)

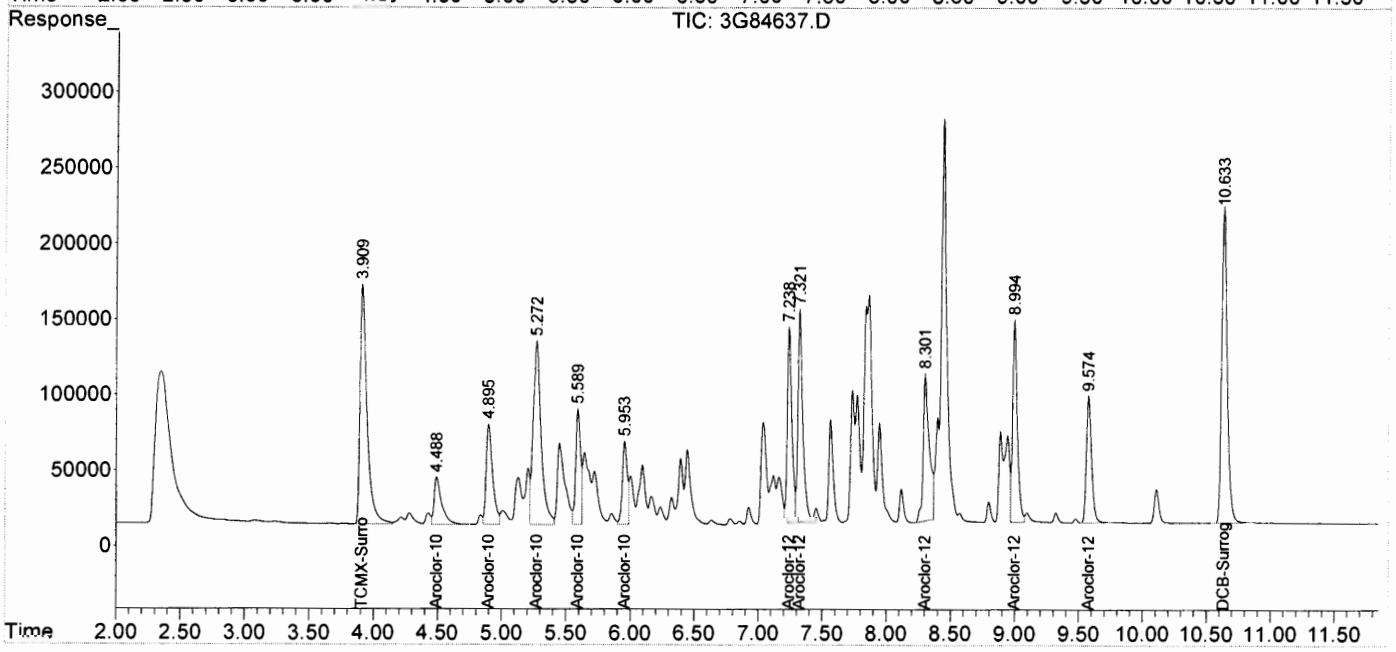
4052101 1116

Data Path : G:\Gcdata\2014\GC_3\Data\06-02-14\
Data File : 3G84637.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Jun 2014 16:19
Operator : MLC/MAS
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Jun 02 16:37:04 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





GC PCB Data
Raw QC Data

Form1

ORGANICS PCB REPORT

Sample Number: WMB33881
Client Id:
Data File: 3G84479.D
Analysis Date: 05/23/14 09:04
Date Rec/Extracted: NA-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.050	U	11097-69-1	Aroclor-1254	0.050	U
11104-28-2	Aroclor-1221	0.050	U	11096-82-5	Aroclor-1260	0.050	U
11141-16-5	Aroclor-1232	0.050	U	37324-23-5	Aroclor-1262	0.050	U
53469-21-9	Aroclor-1242	0.050	U	11100-14-4	Aroclor-1268	0.050	U
12672-29-6	Aroclor-1248	0.050	U				

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 1119

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84479.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 9:04
Operator : MLC/MAS
Sample : WMB33881
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 23 10:06:46 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

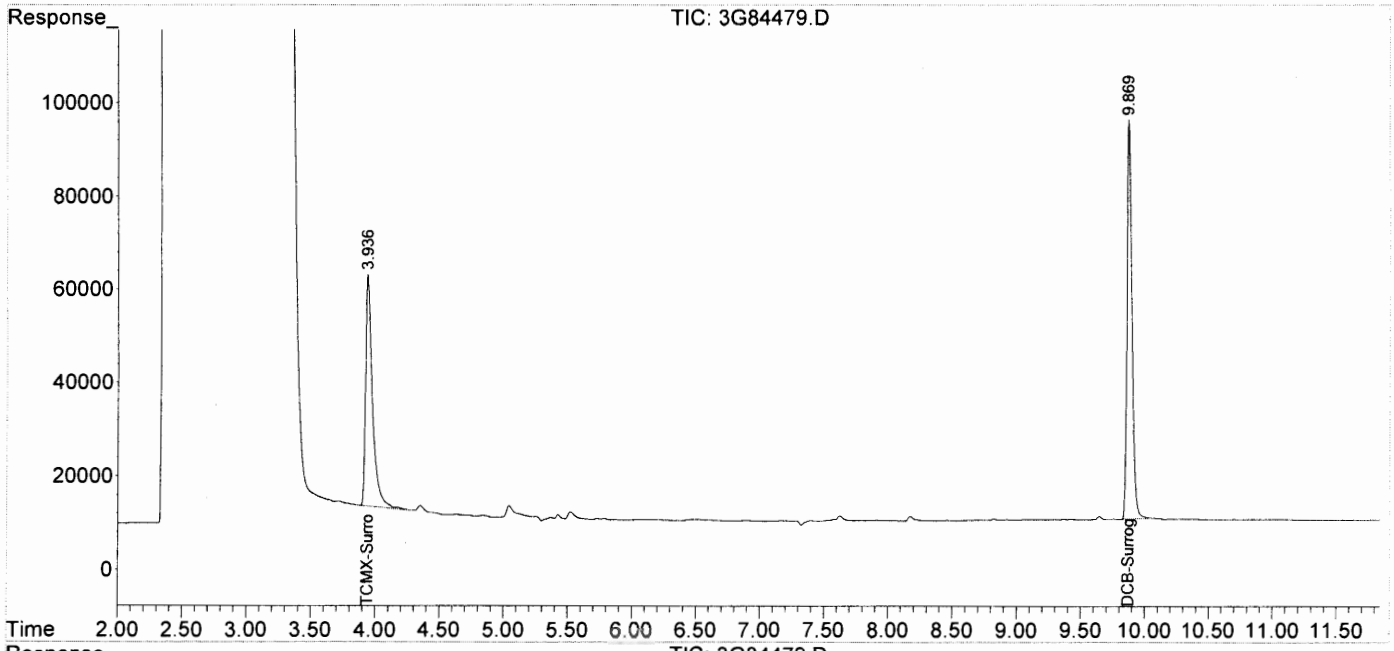
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.937	3.922	1835773	2129619	67.802	64.492
45)DCB-Surrogate	9.870	10.637	2286121	3398795	95.141	96.779

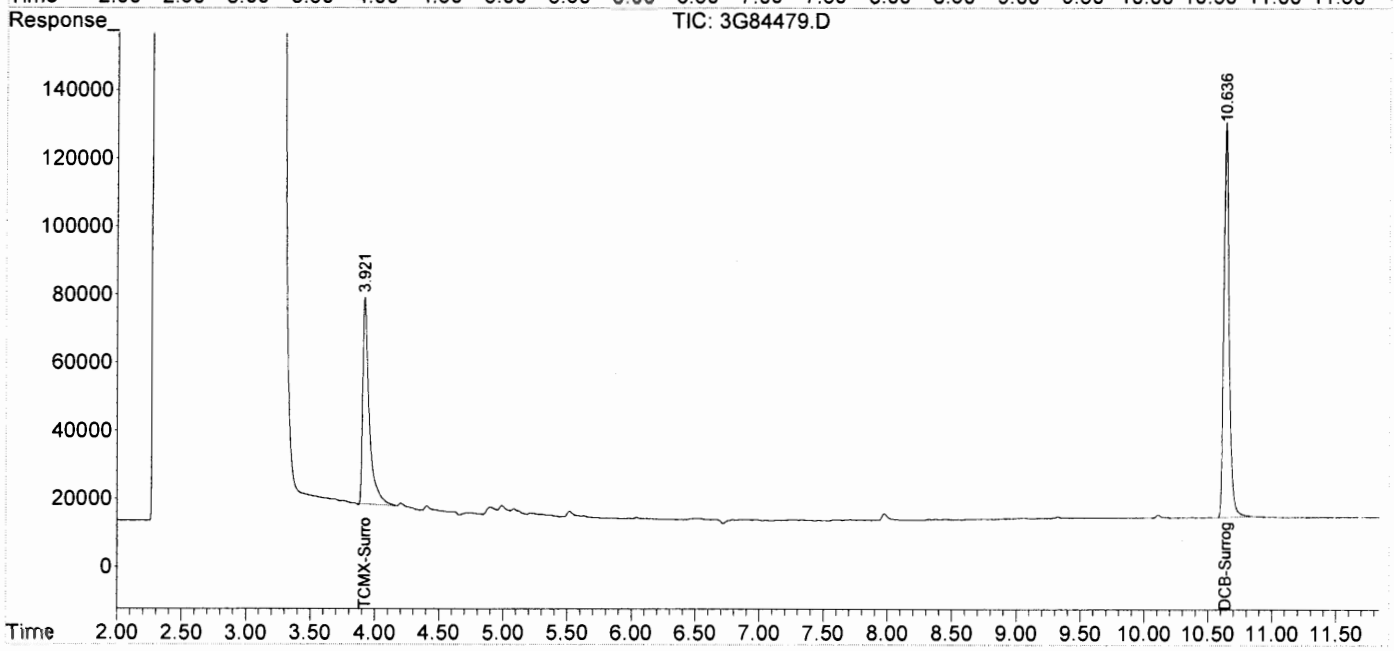
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84479.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 9:04
Operator : MLC/MAS
Sample : WMB33881
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 23 10:06:46 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: SMB33931
Client Id:
Data File: 3G84565.D
Analysis Date: 05/28/14 17:06
Date Rec/Extracted: NA-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.025	U	11097-69-1	Aroclor-1254	0.025	U
11104-28-2	Aroclor-1221	0.025	U	11096-82-5	Aroclor-1260	0.025	U
11141-16-5	Aroclor-1232	0.025	U	37324-23-5	Aroclor-1262	0.025	U
53469-21-9	Aroclor-1242	0.025	U	11100-14-4	Aroclor-1268	0.025	U
12672-29-6	Aroclor-1248	0.025	U				

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 1122

Data Path : G:\Gcdata\2014\GC_3\Data\05-28-14\
Data File : 3G84565.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2014 17:06
Operator : MLC/MAS
Sample : SMB33931
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 29 11:59:33 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.924	3.911	2156098	2311048	79.917	70.073
45)DCB-Surrogate	9.861	10.633	2173302	3054428	90.286	86.752

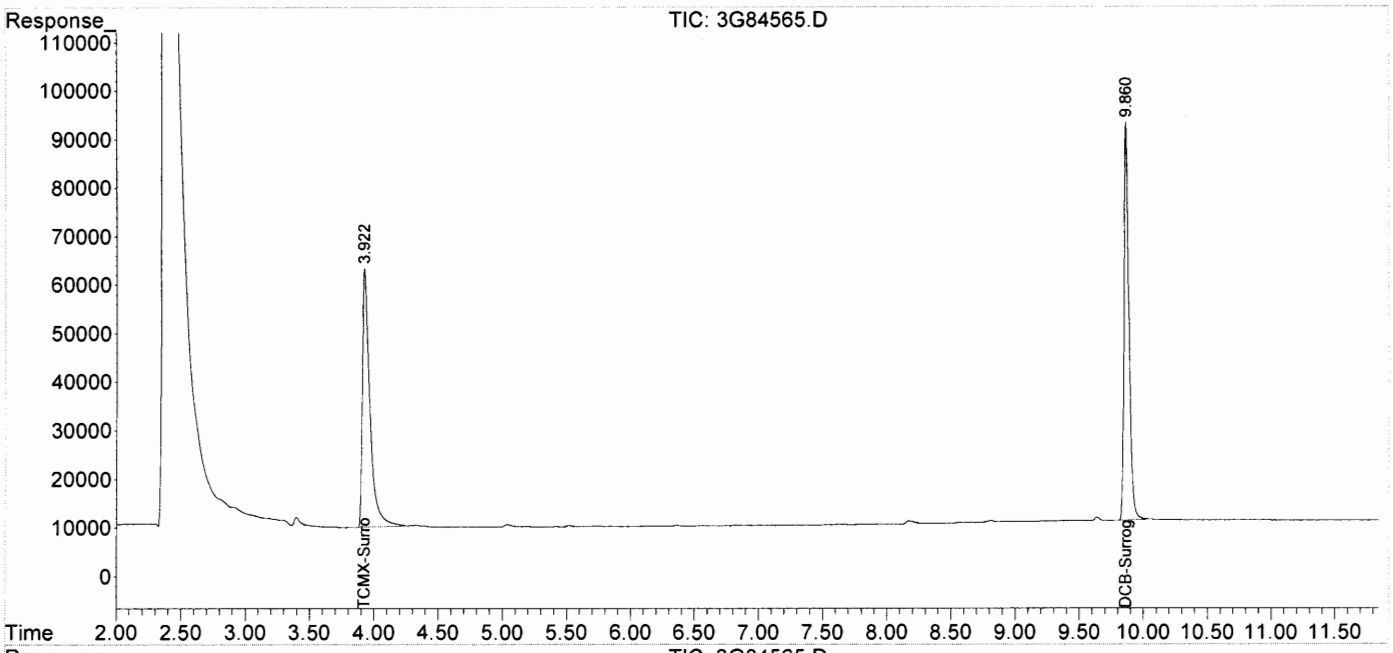
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

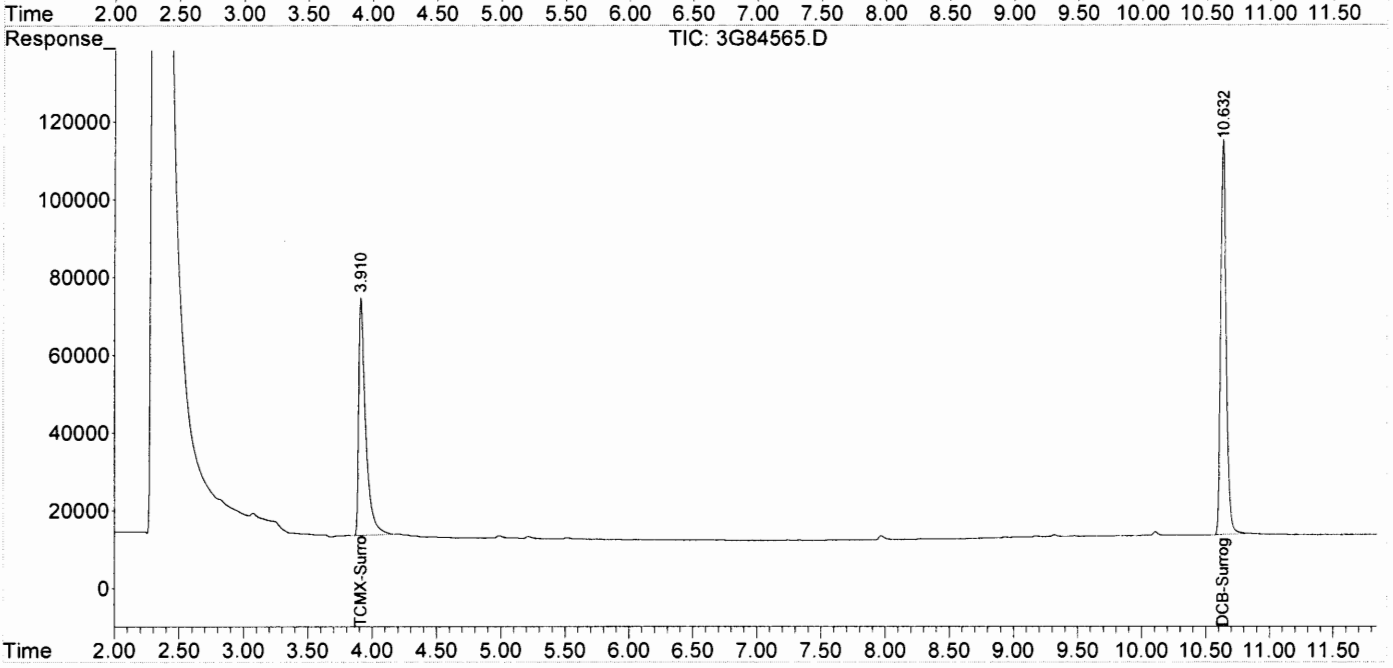
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-28-14\
Data File : 3G84565.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2014 17:06
Operator : MLC/MAS
Sample : SMB33931
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 29 11:59:33 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PCB REPORT

Sample Number: SMB33934
Client Id:
Data File: 3G84586.D
Analysis Date: 05/29/14 15:23
Date Rec/Extracted: NA-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.025	U	11097-69-1	Aroclor-1254	0.025	U
11104-28-2	Aroclor-1221	0.025	U	11096-82-5	Aroclor-1260	0.025	U
11141-16-5	Aroclor-1232	0.025	U	37324-23-5	Aroclor-1262	0.025	U
53469-21-9	Aroclor-1242	0.025	U	11100-14-4	Aroclor-1268	0.025	U
12672-29-6	Aroclor-1248	0.025	U				

Worksheet #: 304442

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84586.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 15:23
Operator : MLC/MAS
Sample : SMB33934
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:47:57 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.927	3.911	3104595	3199790	116.321	97.615
45)DCB-Surrogate	9.868	10.638	2752476	3720691	115.405	106.198

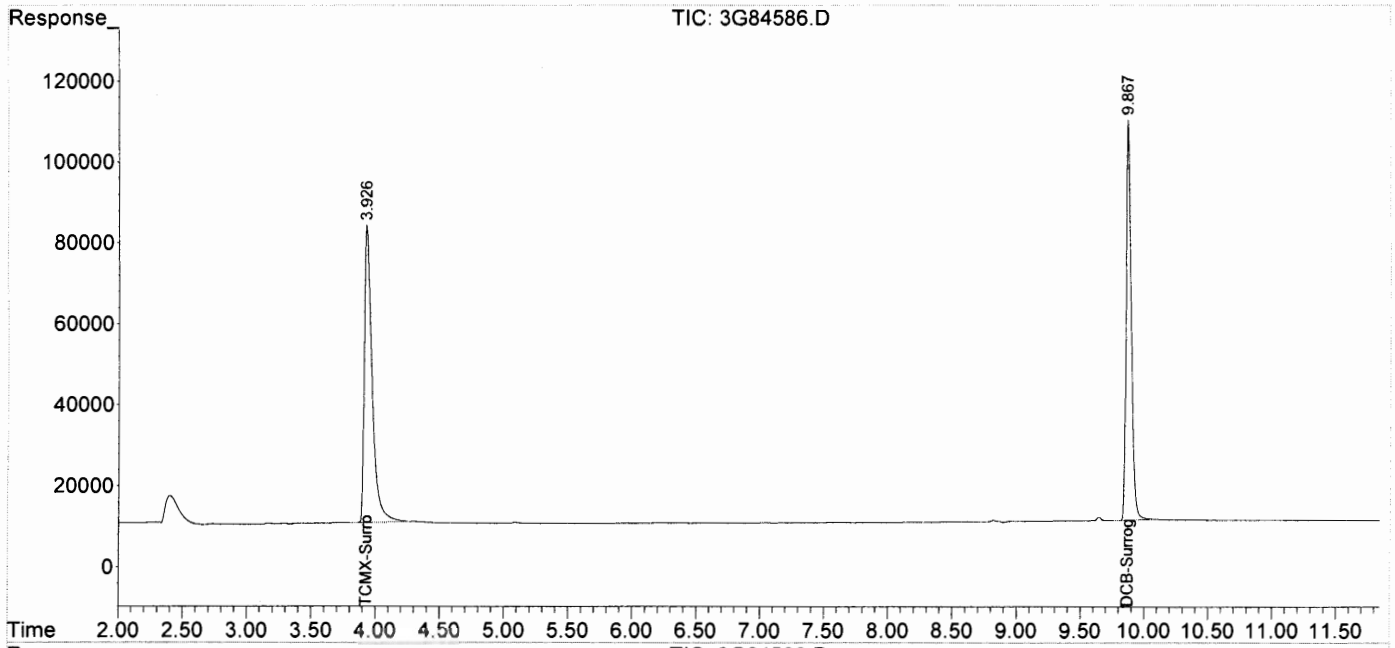
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

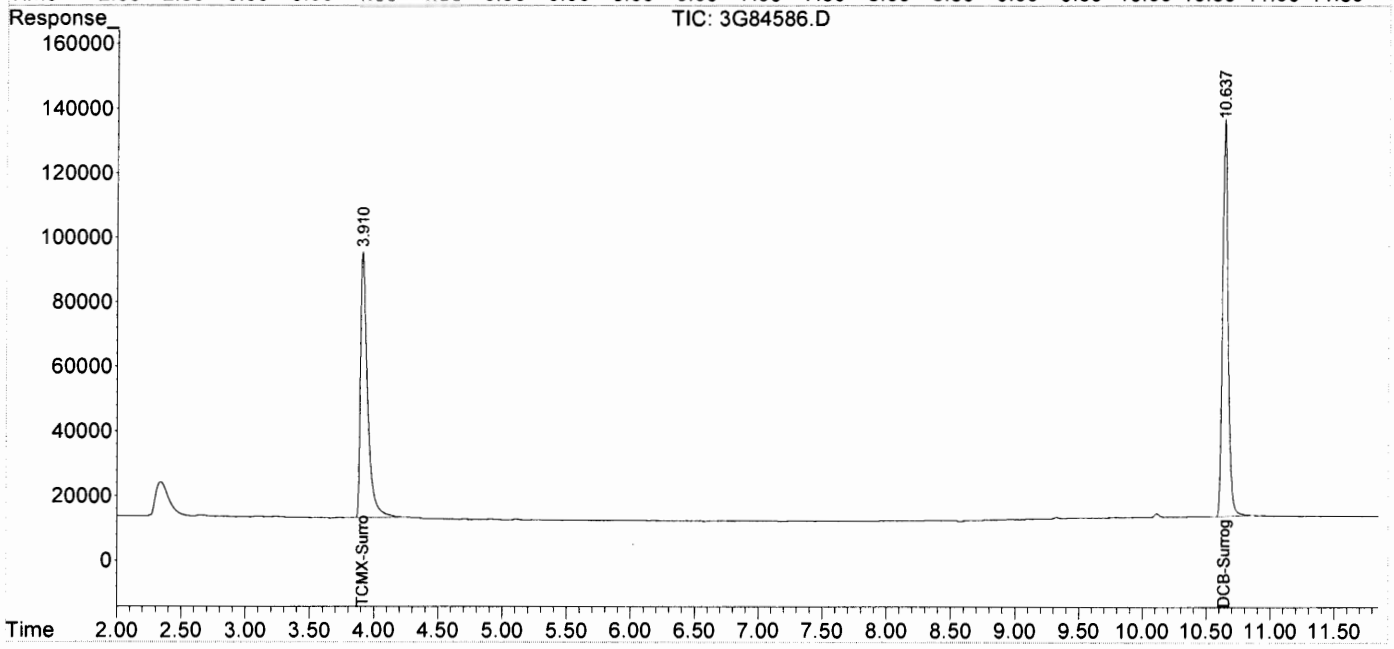
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84586.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 15:23
Operator : MLC/MAS
Sample : SMB33934
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:47:57 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form3
Recovery Data
QC Batch: WMB33881

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84480.D	WMB33881(MS)	5/23/2014 9:20:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	716.184	0	1000	72	60	130
Aroclor-1260 -Total	2	844.868	0	1000	84	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84480.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 9:20
Operator : MLC/MAS
Sample : WMB33881(MS)
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 23 10:07:59 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.928	3.914	1733722	2019585	63.961	61.114
2)Aroclor-1016 {1}	4.335	4.496	443215	542562	699.093	705.803
3)Aroclor-1016 {2}	4.662	4.899	763742	988901	679.738	711.906
4)Aroclor-1016 {3}	5.129	5.281	1645058	2065864	710.818	694.558
5)Aroclor-1016 {4}	5.243	5.597	683205	818947	663.691	721.103
6)Aroclor-1016 {5}	5.452	5.957	1317378	603781	721.634	747.551
7)Aroclor-1260 {1}	6.898	7.241	1339093	1621285	892.429	865.345
8)Aroclor-1260 {2}	7.148	7.325	1562246	1873709	916.370	878.150
9)Aroclor-1260 {3}	7.627	8.303	770344	1538994	920.398	848.509
10)Aroclor-1260 {4}	7.907	8.997	1127117	1555518	917.399	828.816
11)Aroclor-1260 {5}	8.615	9.578	1761154	1118988	867.988	803.518
45)DCB-Surrogate	9.866	10.635	2247079	3269372	93.459	93.004

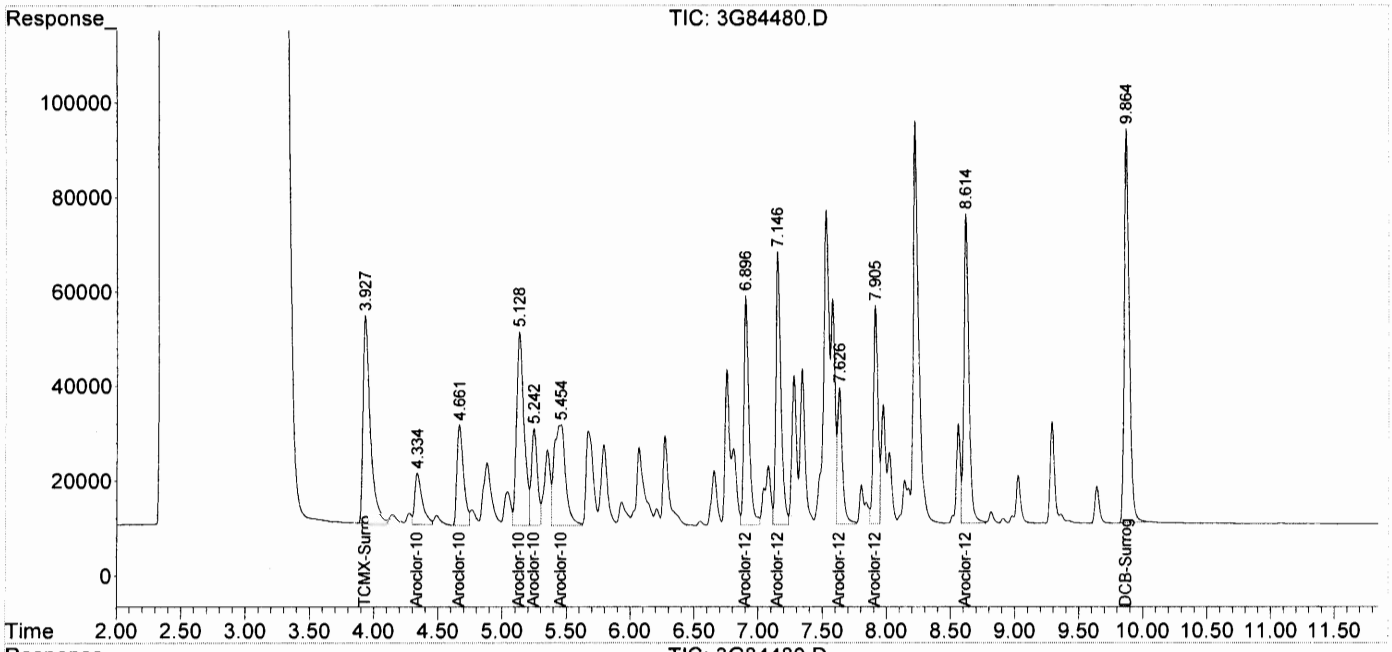
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

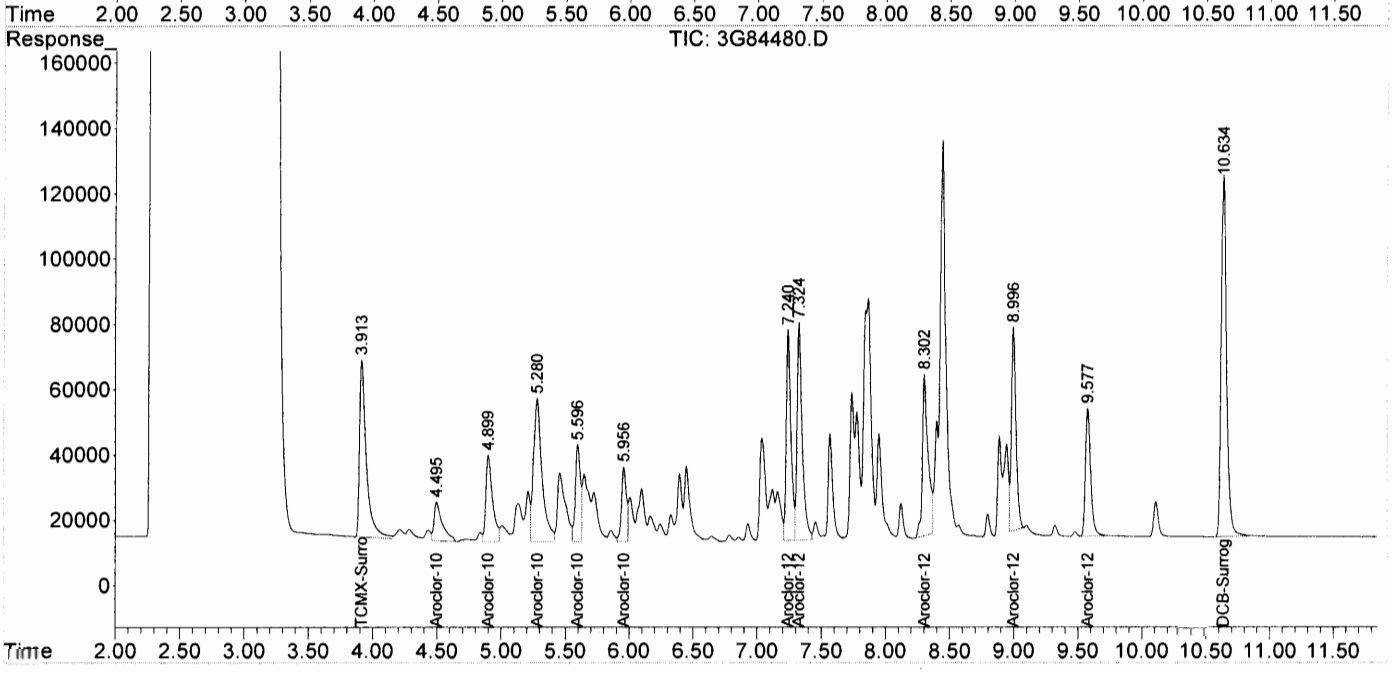
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84480.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 9:20
Operator : MLC/MAS
Sample : WMB33881(MS)
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 23 10:07:59 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form3
Recovery Data
QC Batch: SMB33931

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84567.D	SMB33931(MS)	5/28/2014 5:37:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	900.712	0	1000	90	30	163
Aroclor-1260 -Total	2	916.572	0	1000	92	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-28-14\
Data File : 3G84567.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2014 17:37
Operator : MLC/MAS
Sample : SMB33931(MS)
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 29 12:01:18 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.922	3.909	2493701	2626651	92.782	79.814
2)Aroclor-1016 {1}	4.329	4.492	660029	656002	1058.587	859.852
3)Aroclor-1016 {2}	4.657	4.896	1153328	1233184	1050.148	898.226
4)Aroclor-1016 {3}	5.123	5.277	2401735	2692736	1057.208	914.969
5)Aroclor-1016 {4}	5.238	5.595	1064290	1038196	1054.436	924.030
6)Aroclor-1016 {5}	5.450	5.956	1880241	726447	1050.757	906.481
7)Aroclor-1260 {1}	6.895	7.241	1562464	1729392	1050.449	926.237
8)Aroclor-1260 {2}	7.144	7.325	1777349	1976305	1050.068	928.459
9)Aroclor-1260 {3}	7.625	8.301	858837	1670009	1029.362	923.246m
10)Aroclor-1260 {4}	7.903	8.995	1252686	1743192	1024.700	929.836m
11)Aroclor-1260 {5}	8.611	9.576	1976396	1218631	974.070	875.069
45)DCB-Surrogate	9.861	10.634	2402428	3345255	100.166	95.216

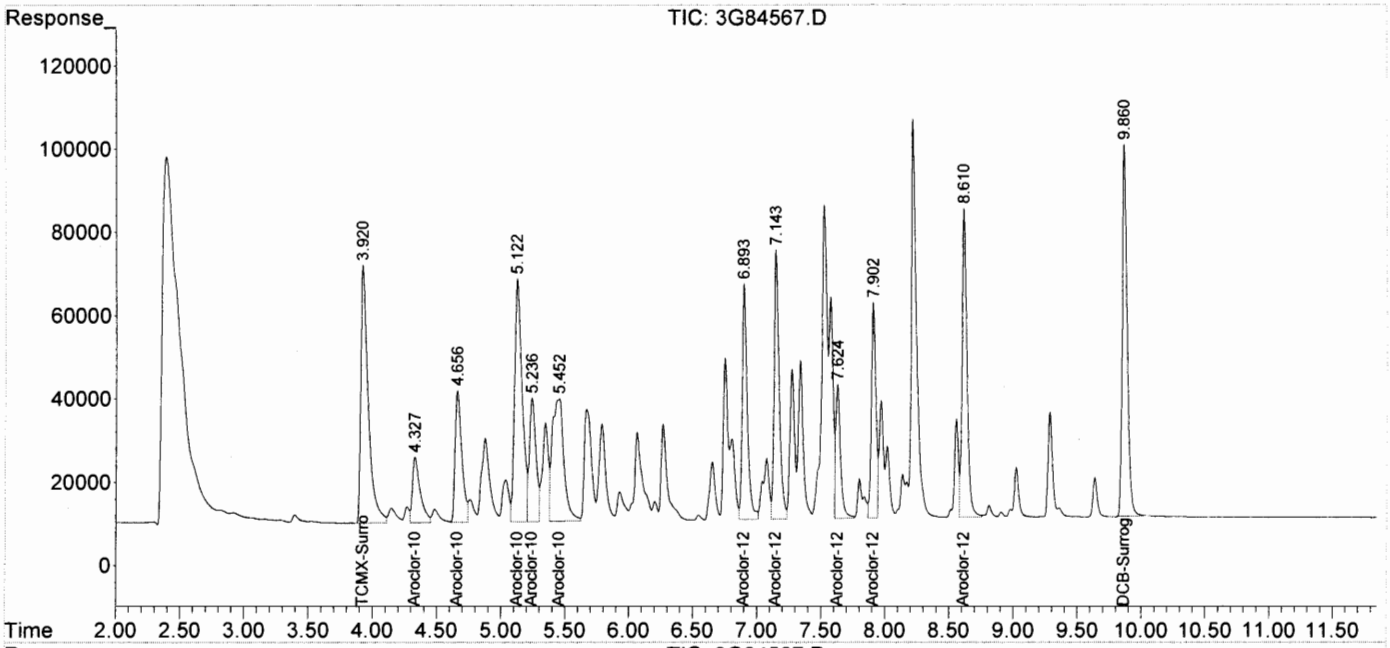
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

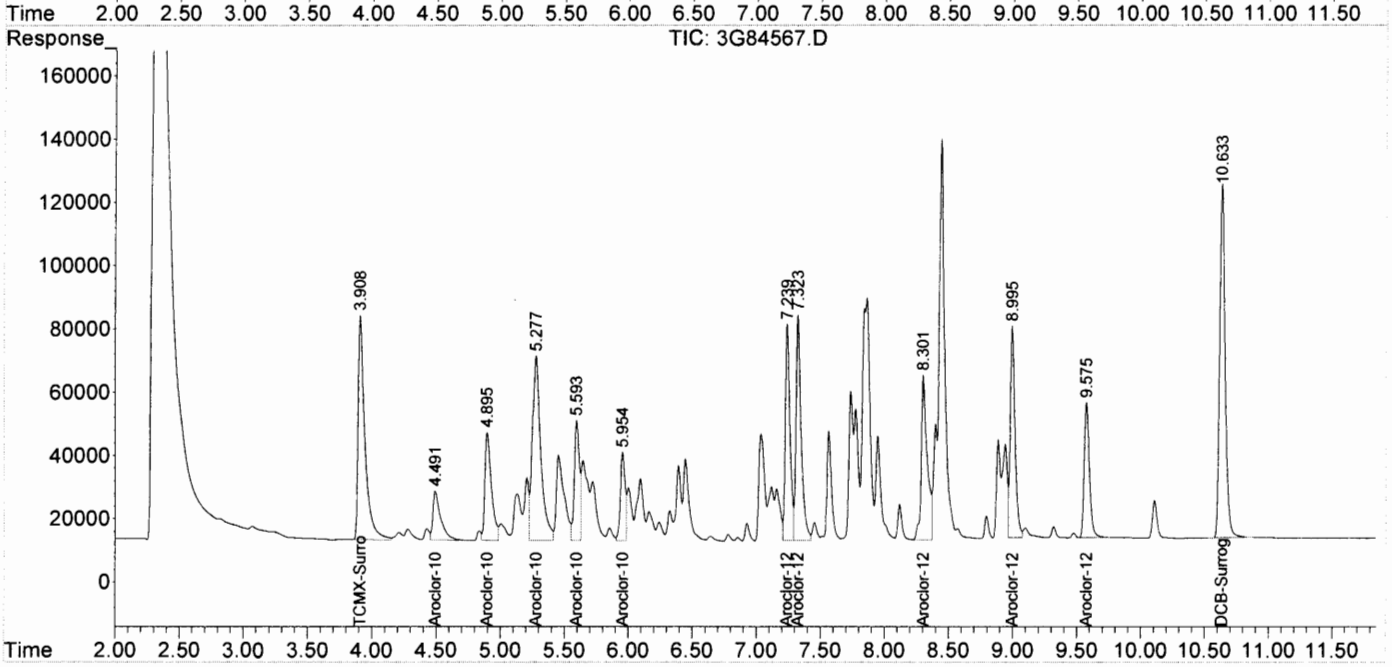
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-28-14\
Data File : 3G84567.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2014 17:37
Operator : MLC/MAS
Sample : SMB33931(MS)
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 29 12:01:18 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form3
Recovery Data
QC Batch: SMB33934

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84587.D	SMB33934(MS)	5/29/2014 3:38:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	1024.478	0	1000	102	30	163
Aroclor-1260 -Total	2	1039.868	0	1000	104	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84587.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 15:38
Operator : MLC/MAS
Sample : SMB33934(MS)
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 10:09:18 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.924	3.911	3129164	3194528	117.275	97.451
2)Aroclor-1016 {1}	4.330	4.495	753046	768607	1216.777	1015.223
3)Aroclor-1016 {2}	4.658	4.898	1302623	1392712	1197.036	1022.458
4)Aroclor-1016 {3}	5.124	5.279	2710899	2973225	1202.762	1015.199
5)Aroclor-1016 {4}	5.239	5.596	1202158	1157573	1199.903	1036.483
6)Aroclor-1016 {5}	5.448	5.956	2129228	822693	1200.969	1033.033
7)Aroclor-1260 {1}	6.895	7.241	1814843	1962532	1232.618	1059.094
8)Aroclor-1260 {2}	7.145	7.325	2060435	2223725	1229.206	1050.839
9)Aroclor-1260 {3}	7.625	8.302	1026496	1863520	1237.772	1034.410m
10)Aroclor-1260 {4}	7.904	8.995	1466822	2033554	1210.329	1086.576m
11)Aroclor-1260 {5}	8.613	9.578	2294212	1348629	1130.706	968.417
45)DCB-Surrogate	9.862	10.634	2788466	3848854	116.982	109.961

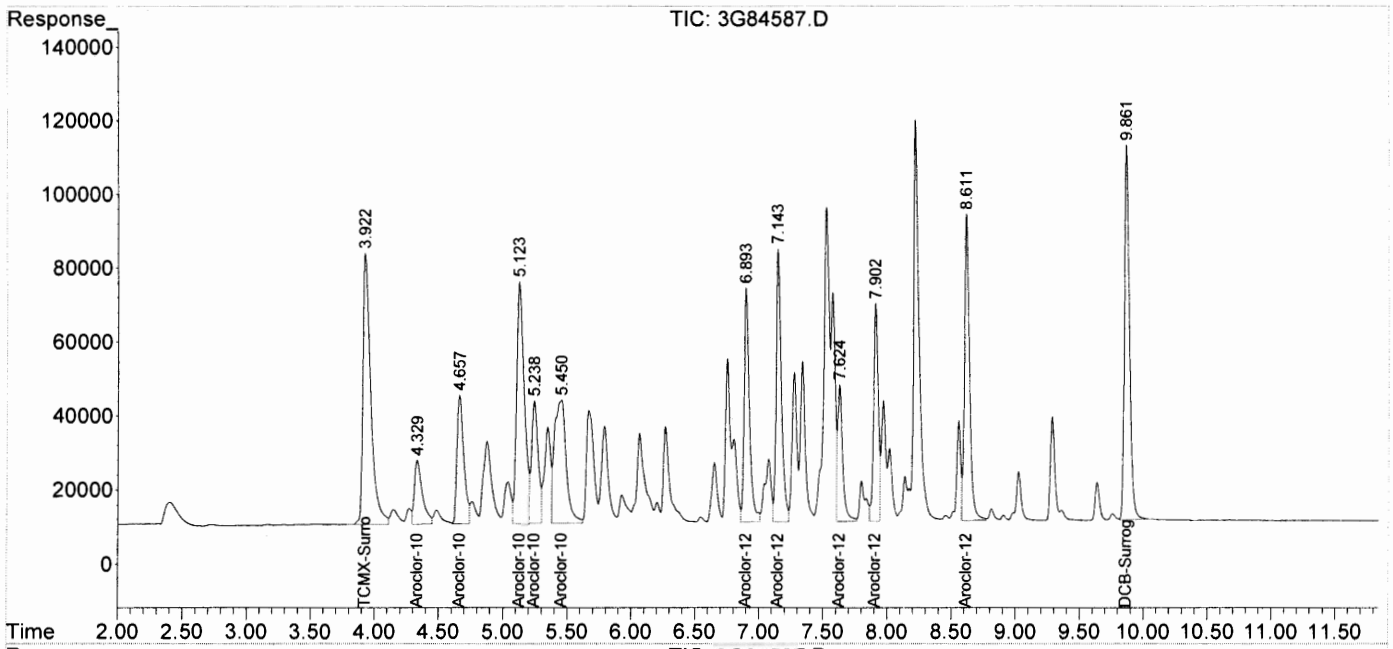
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

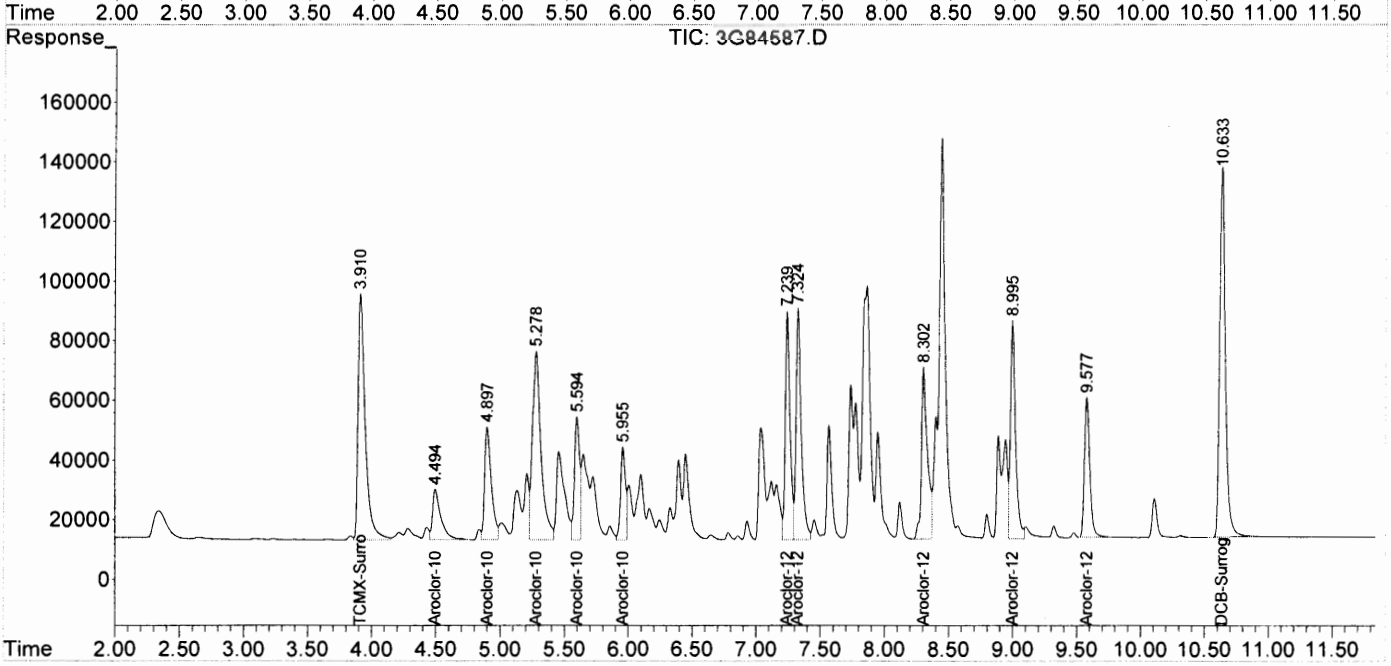
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84587.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 15:38
Operator : MLC/MAS
Sample : SMB33934(MS)
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 10:09:18 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form3
Recovery Data
QC Batch: WMB33881

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84490.D	AC78788-004(MS)	5/23/2014 12:02:00 PM
Non Spike(If applicable):	3G84485.D	AC78788-004	5/23/2014 10:36:00 AM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	912.306	0	1000	91	60	130
Aroclor-1260 -Total	2	1005.956	0	1000	101	60	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84491.D	AC78788-004(MSD)	5/23/2014 12:17:00 PM
Non Spike(If applicable):	3G84485.D	AC78788-004	5/23/2014 10:36:00 AM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	883.82	0	1000	88	60	130
Aroclor-1260 -Total	2	972.954	0	1000	97	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: WMB33881

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84491.D	AC78788-004(MSD)	5/23/2014 12:17:00 PM
Duplicate(If applicable):	3G84490.D	AC78788-004(MS)	5/23/2014 12:02:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	2	883.82	912.306	3.2	24
Aroclor-1260 -Total	2	972.954	1005.956	3.3	19

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Quantitation Report (QT Reviewed)

4052101 1138

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84485.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 10:36
Operator : MLC/MAS
Sample : AC78788-004
Misc : A,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 23 10:49:39 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

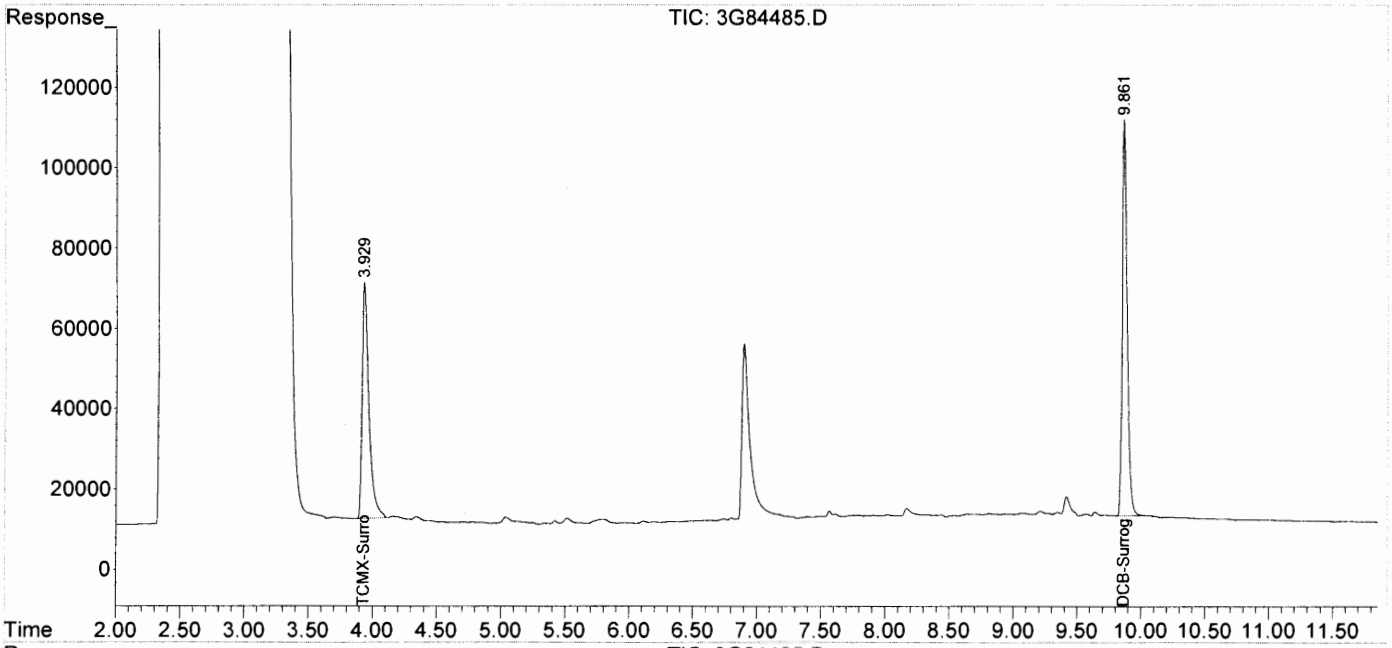
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.930	3.918	2137488	2662490	79.211	80.923
45)DCB-Surrogate	9.862	10.635	2609937	3810261	109.178	108.827

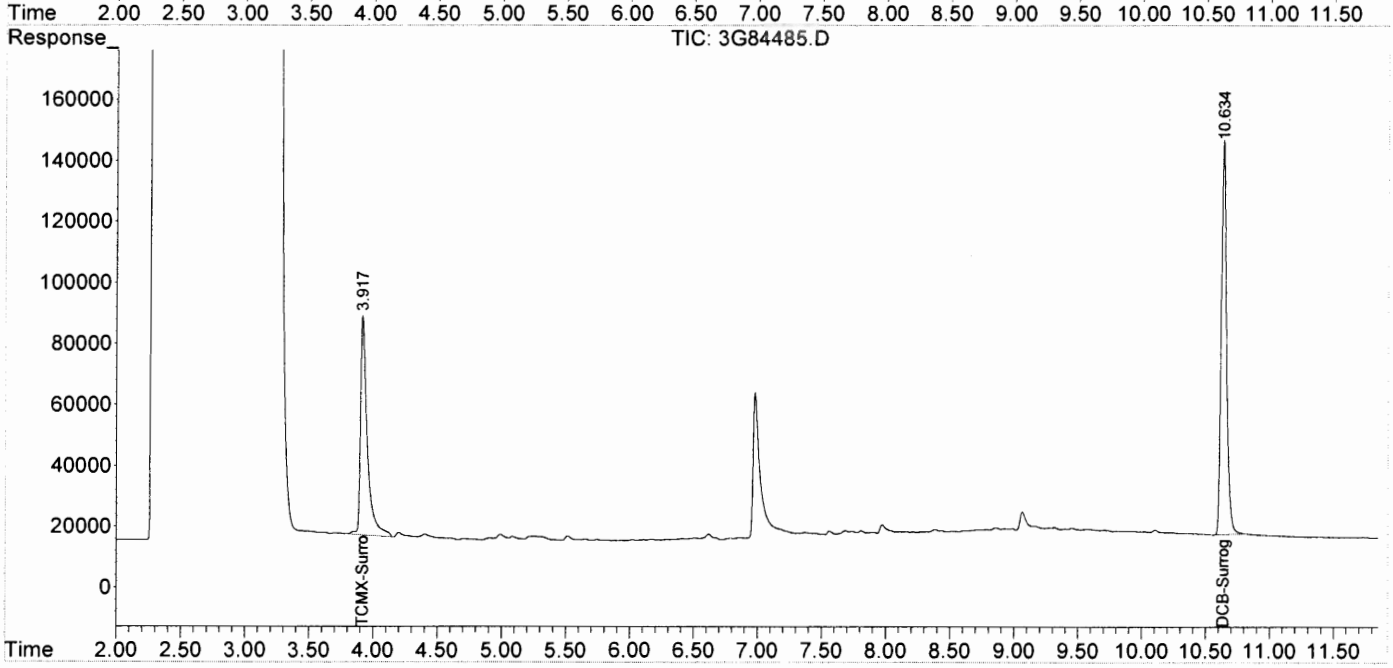
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84485.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 10:36
Operator : MLC/MAS
Sample : AC78788-004
Misc : A,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 23 10:49:39 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84490.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 12:02
Operator : MLC/MAS
Sample : AC78788-004(MS)
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 12:17:08 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

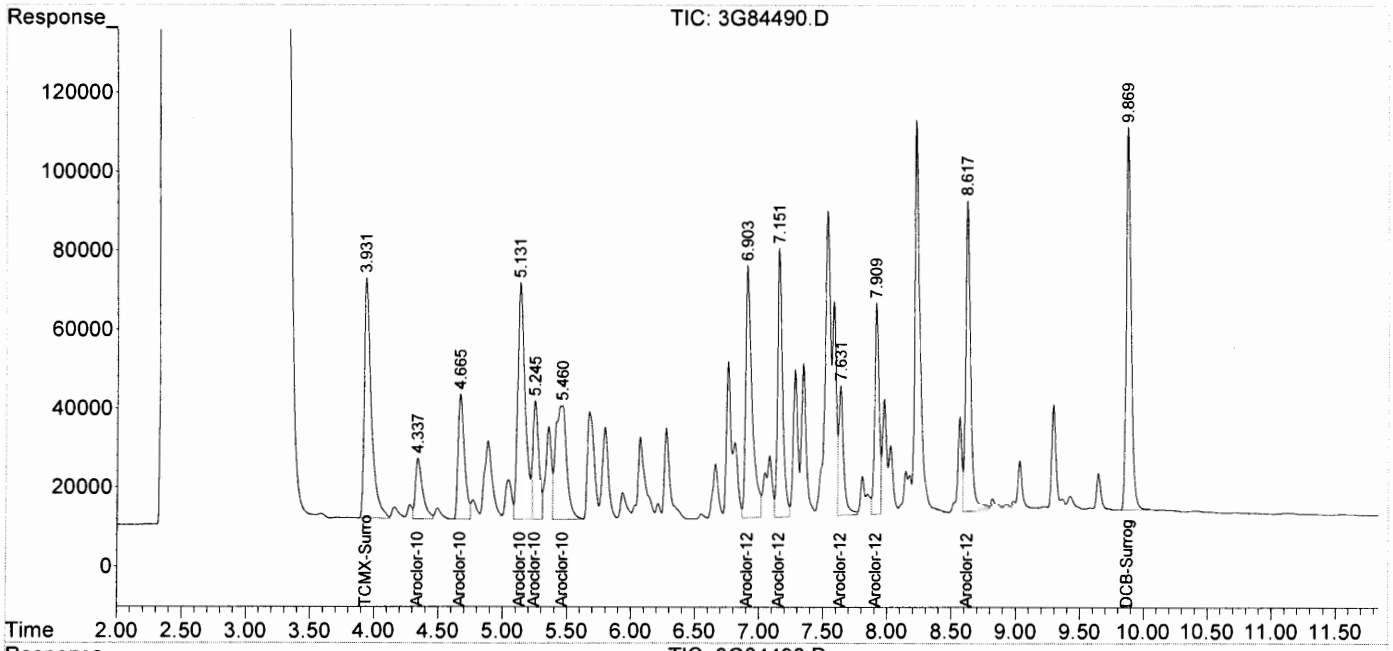
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.932	3.916	2334412	2615531	86.700	79.470
2)Aroclor-1016 {1}	4.338	4.497	602325	623533	961.678	815.512
3)Aroclor-1016 {2}	4.666	4.900	1100779	1272946	999.127	928.996
4)Aroclor-1016 {3}	5.132	5.281	2349762	2728645	1032.977	927.744
5)Aroclor-1016 {4}	5.247	5.597	1017399	1059480	1005.476	943.975
6)Aroclor-1016 {5}	5.457	5.958	1756017	756107	976.910	945.304
7)Aroclor-1260 {1}	6.905	7.243	2216067	1836140	1530.779	986.804 #
8)Aroclor-1260 {2}	7.152	7.327	1807019	2073635	1068.671	976.421
9)Aroclor-1260 {3}	7.632	8.304	891103	1778918	1069.270	985.695m
10)Aroclor-1260 {4}	7.910	8.999	1278928	2100008	1047.267	1122.525
11)Aroclor-1260 {5}	8.619	9.579	2065470	1334613	1017.970	958.353
45)DCB-Surrogate	9.870	10.637	2564434	3820649	107.196	109.132

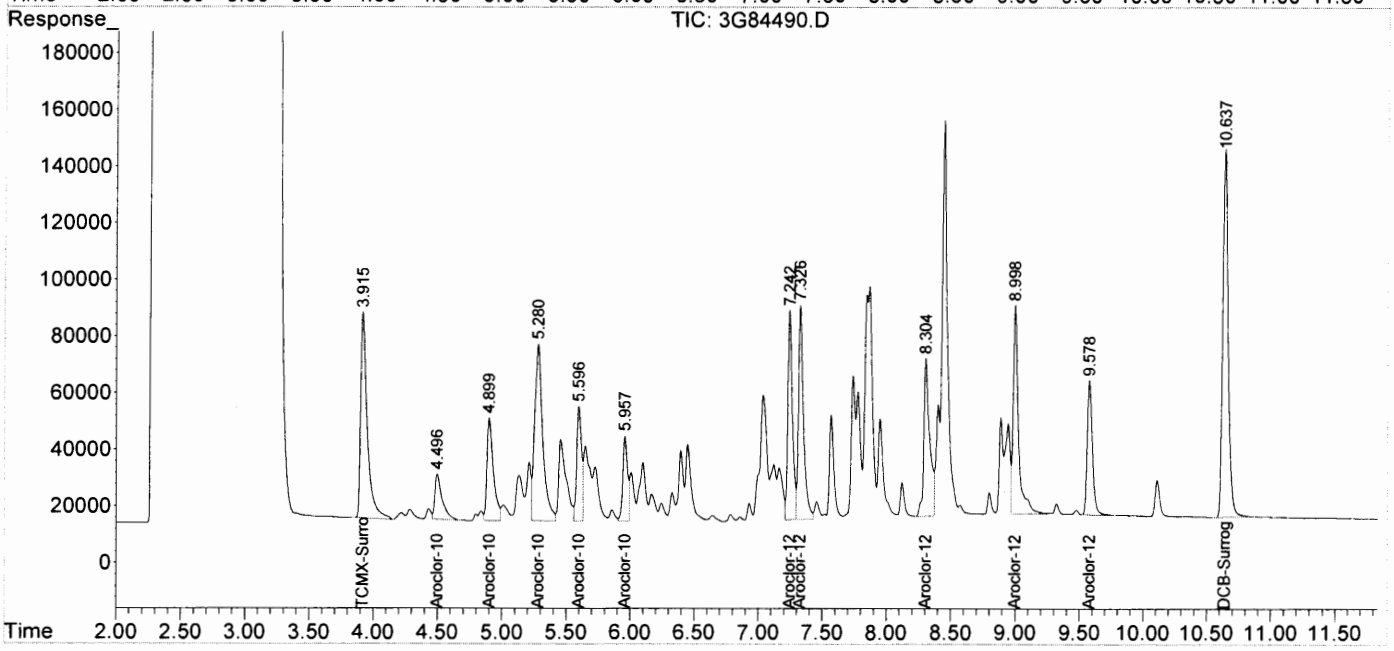
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84490.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 12:02
Operator : MLC/MAS
Sample : AC78788-004(MS)
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 12:17:08 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84491.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 12:17
Operator : MLC/MAS
Sample : AC78788-004(MSD)
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 12:17:34 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.932	3.918	1461492	1682637	53.757	50.802
2)Aroclor-1016 {1}	4.335	4.498	573412	595958	913.464	778.011
3)Aroclor-1016 {2}	4.663	4.901	1072646	1209914	971.951	880.277
4)Aroclor-1016 {3}	5.128	5.281	2311223	2680618	1015.052	910.662
5)Aroclor-1016 {4}	5.243	5.597	980782	1044882	967.420	930.291
6)Aroclor-1016 {5}	5.453	5.958	1749703	736681	973.175	919.859
7)Aroclor-1260 {1}	6.900	7.242	2273163	1816050	1574.120	975.372 #
8)Aroclor-1260 {2}	7.147	7.326	1788105	2044249	1056.807	961.916
9)Aroclor-1260 {3}	7.627	8.302	872807	1739855	1046.629	963.262m
10)Aroclor-1260 {4}	7.905	8.996	1264894	1890401	1035.192	1009.233m
11)Aroclor-1260 {5}	8.613	9.577	2036903	1329928	1003.891	954.988
45)DCB-Surrogate	9.864	10.635	2615757	3817713	109.432	109.046

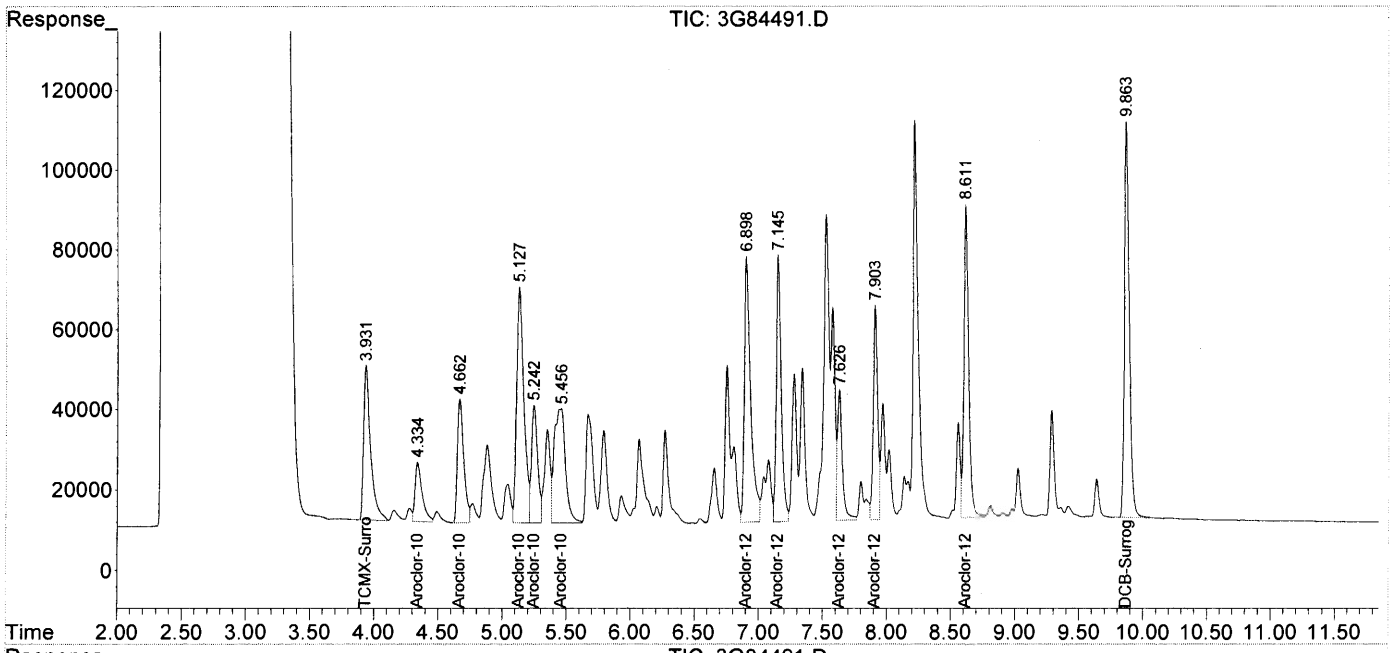
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

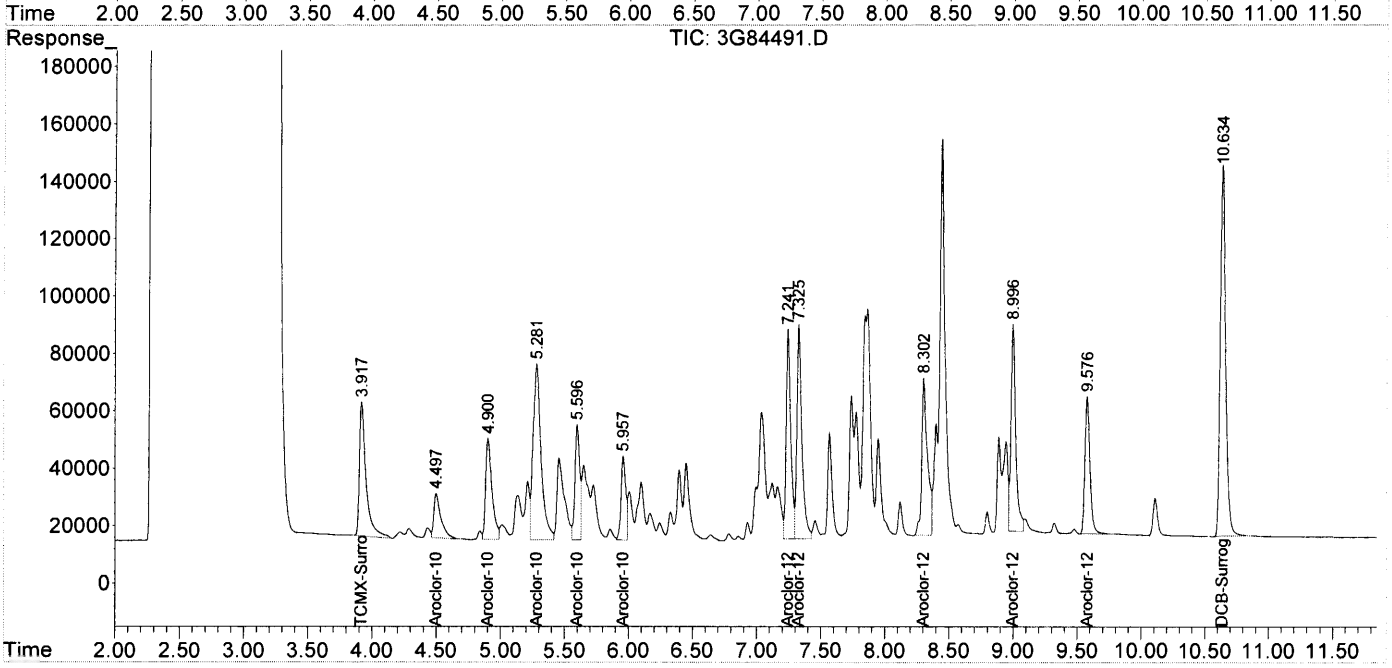
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-23-14\
Data File : 3G84491.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 12:17
Operator : MLC/MAS
Sample : AC78788-004(MSD)
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 27 12:17:34 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form3
Recovery Data
QC Batch: SMB33931

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84634.D	AC78787-019(MS)	6/2/2014 3:16:00 PM
Non Spike(If applicable):	3G84635.D	AC78787-019	6/2/2014 3:31:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	805.488	0	1000	81	30	163
Aroclor-1260 -Total	2	796.255	0	1000	80	25	166

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84636.D	AC78787-019(MSD)	6/2/2014 3:46:00 PM
Non Spike(If applicable):	3G84635.D	AC78787-019	6/2/2014 3:31:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	853.644	0	1000	85	30	163
Aroclor-1260 -Total	2	816.2175	0	1000	82	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: SMB33931

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84636.D	AC78787-019(MSD)	6/2/2014 3:46:00 PM
Duplicate(If applicable):	3G84634.D	AC78787-019(MS)	6/2/2014 3:16:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	2	853.644	805.488	5.8	40
Aroclor-1260 -Total	2	816.2175	796.255	2.5	37

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\06-02-14\
Data File : 3G84634.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Jun 2014 15:16
Operator : MLC/MAS
Sample : AC78787-019(MS)
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Jun 02 15:54:05 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
Target Compounds							
1)TCMX-Surrogate	3.928	3.918	2379979	2506266	88.438	76.093	
2)Aroclor-1016 {1}	4.333	4.498	640449	578773	1025.600	754.713	#
3)Aroclor-1016 {2}	4.670	4.903	1518064	1146185	1414.326	831.341	#
4)Aroclor-1016 {3}	5.123	5.281	2291958	2374558	1006.106	802.488	
5)Aroclor-1016 {4}	5.239	5.597	986224	944328	973.066	836.591	
6)Aroclor-1016 {5}	5.448	5.960	1654503	646274	917.084	802.314	
7)Aroclor-1260 {1}	6.897	7.245	1328797	1398658	885.215	741.317	
8)Aroclor-1260 {2}	7.147	7.329	1459112	1630483	852.976	759.875	
9)Aroclor-1260 {3}	7.626	8.307	694912	1351738	828.069	742.410	
10)Aroclor-1260 {4}	7.905	8.999	1016935	1764686	824.157	941.420	
45)DCB-Surrogate	9.863	10.638	1374426	1858523	56.400	52.331	

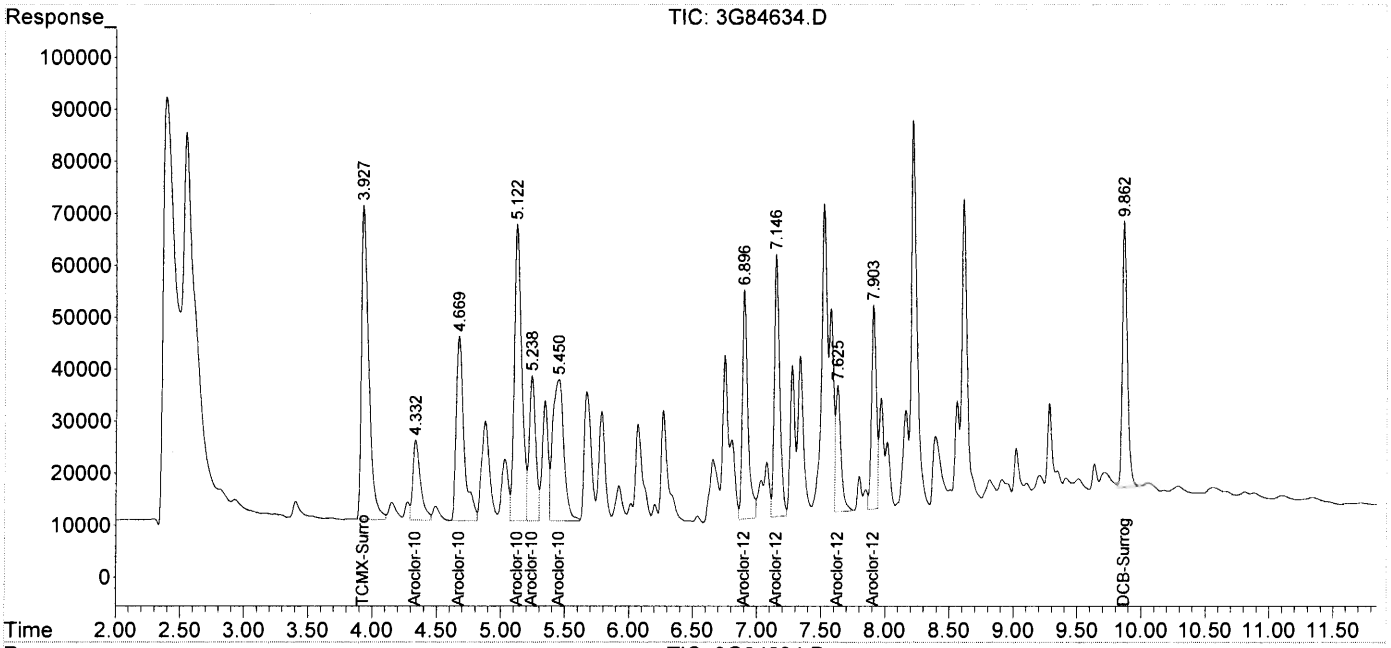
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

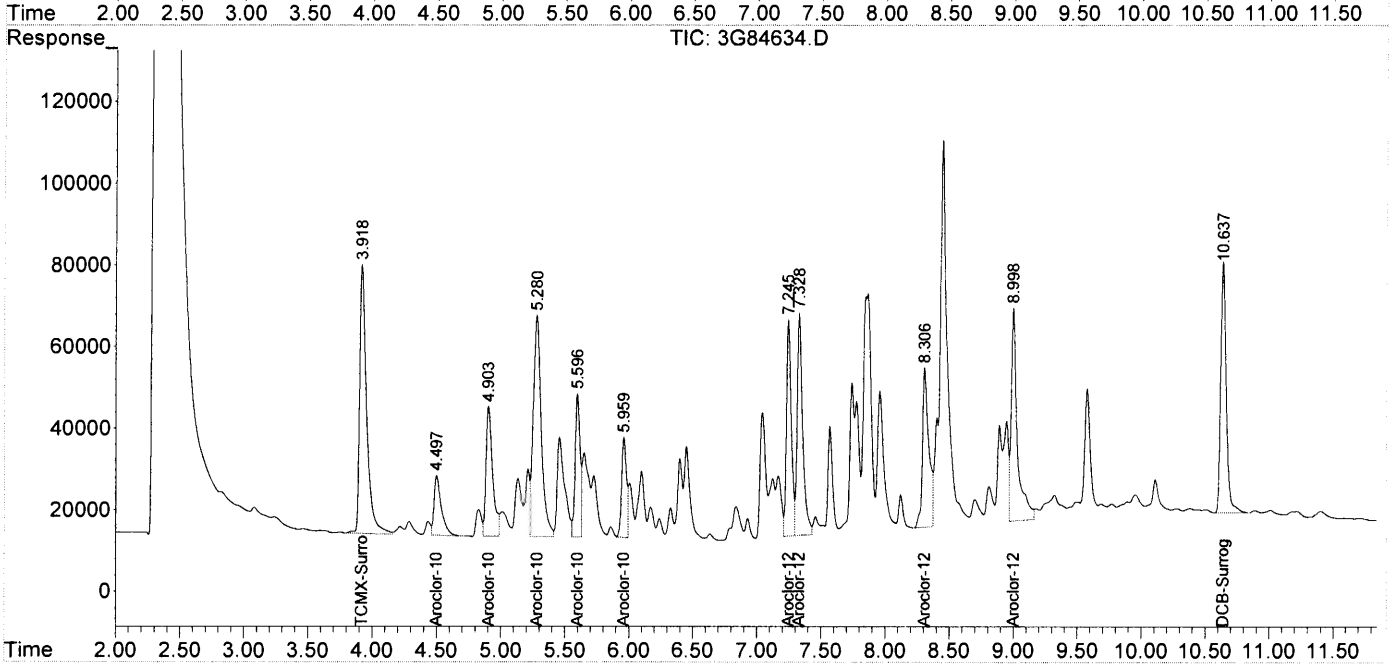
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\06-02-14\
Data File : 3G84634.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Jun 2014 15:16
Operator : MLC/MAS
Sample : AC78787-019(MS)
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Jun 02 15:54:05 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\06-02-14\
Data File : 3G84635.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Jun 2014 15:31
Operator : MLC/MAS
Sample : AC78787-019
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Jun 02 15:55:03 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.929	3.919	1628929	1742016	60.026	52.616
45)DCB-Surrogate	9.861	10.638	997697	1357464	40.710m	38.086

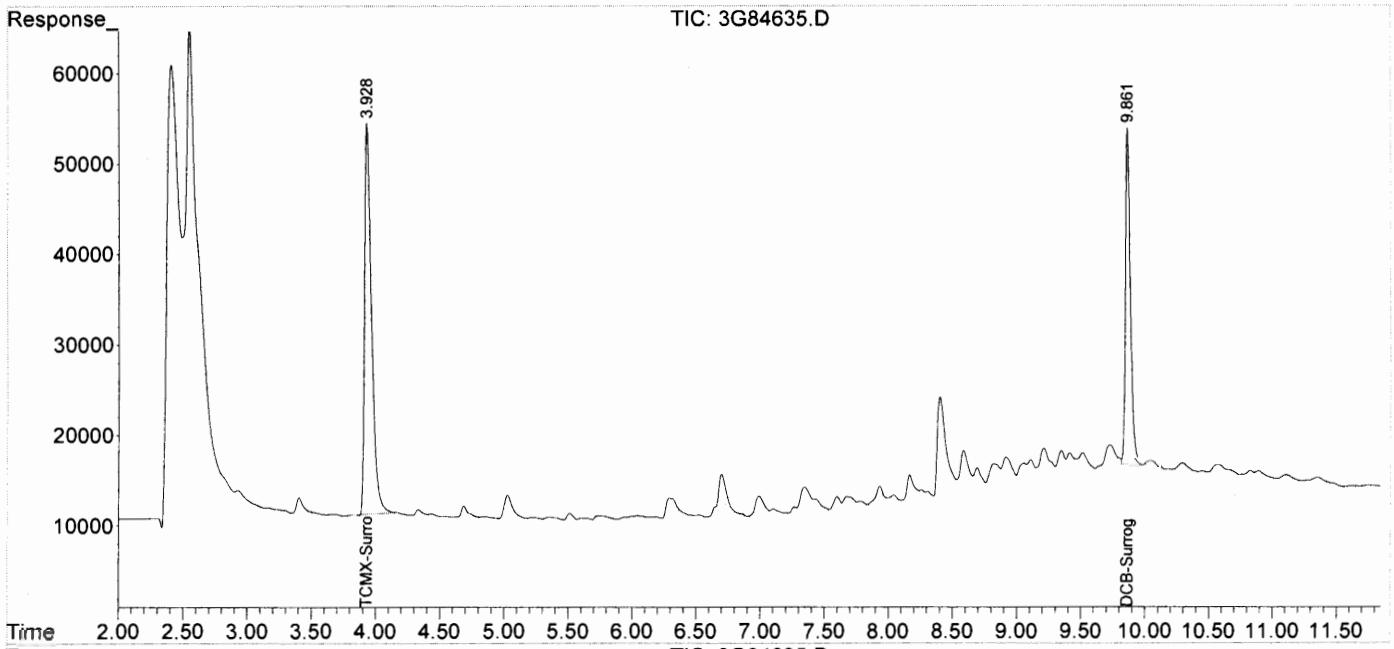
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

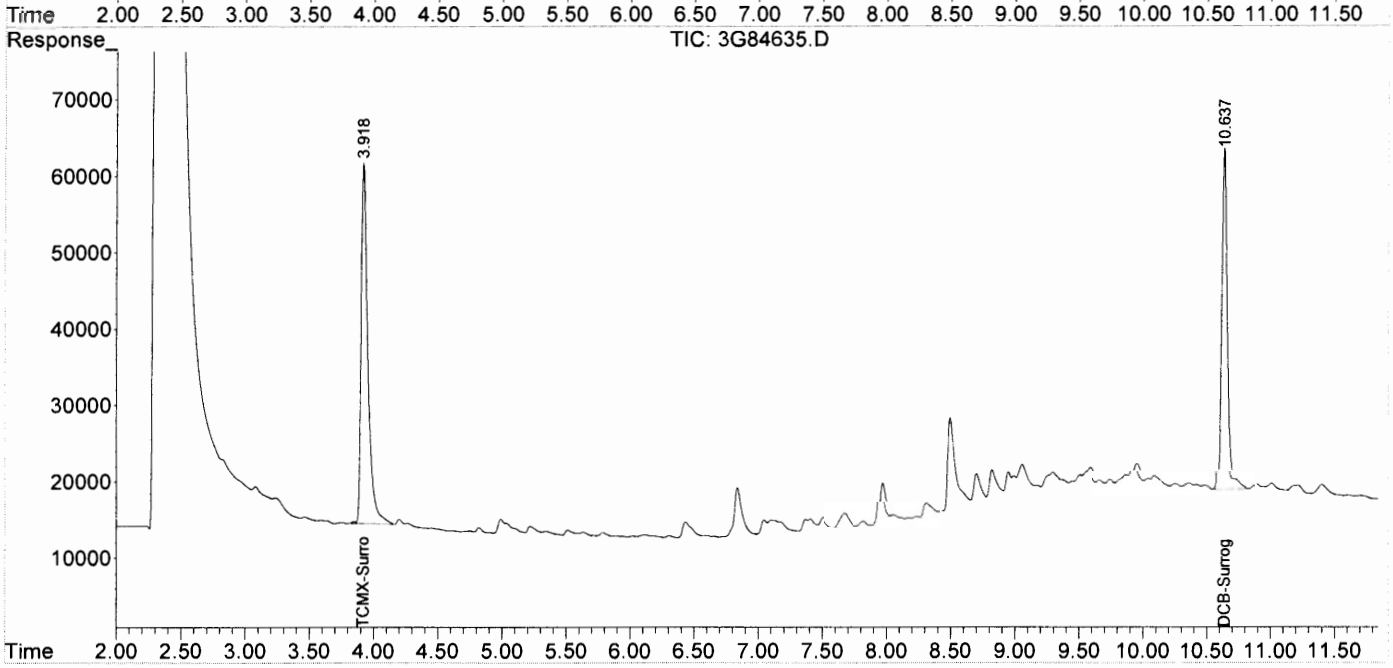
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\06-02-14\
Data File : 3G84635.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Jun 2014 15:31
Operator : MLC/MAS
Sample : AC78787-019
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Jun 02 15:55:03 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\06-02-14\
Data File : 3G84636.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Jun 2014 15:46
Operator : MLC/MAS
Sample : AC78787-019(MSD)
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Jun 02 16:38:38 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.926	3.918	2461165	2573382	91.538	78.167
2)Aroclor-1016 {1}	4.331	4.497	658629	607359	1056.224	793.499
3)Aroclor-1016 {2}	4.665	4.903	1451773	1177325	1346.768	855.213 #
4)Aroclor-1016 {3}	5.120	5.280	2398276	2527184	1055.593	856.285
5)Aroclor-1016 {4}	5.237	5.597	1037517	1015270	1026.450	902.596
6)Aroclor-1016 {5}	5.447	5.959	1709272	691258	949.304	860.624
7)Aroclor-1260 {1}	6.896	7.244	1432214	1460216	957.951	775.430
8)Aroclor-1260 {2}	7.146	7.328	1534369	1715413	899.190	801.017
9)Aroclor-1260 {3}	7.625	8.307	738115	1449545	880.889	797.723
10)Aroclor-1260 {4}	7.903	8.997	1072742	1670539	871.279	890.702m
45)DCB-Surrogate	9.863	10.637	1444578	1972292	59.342	55.579

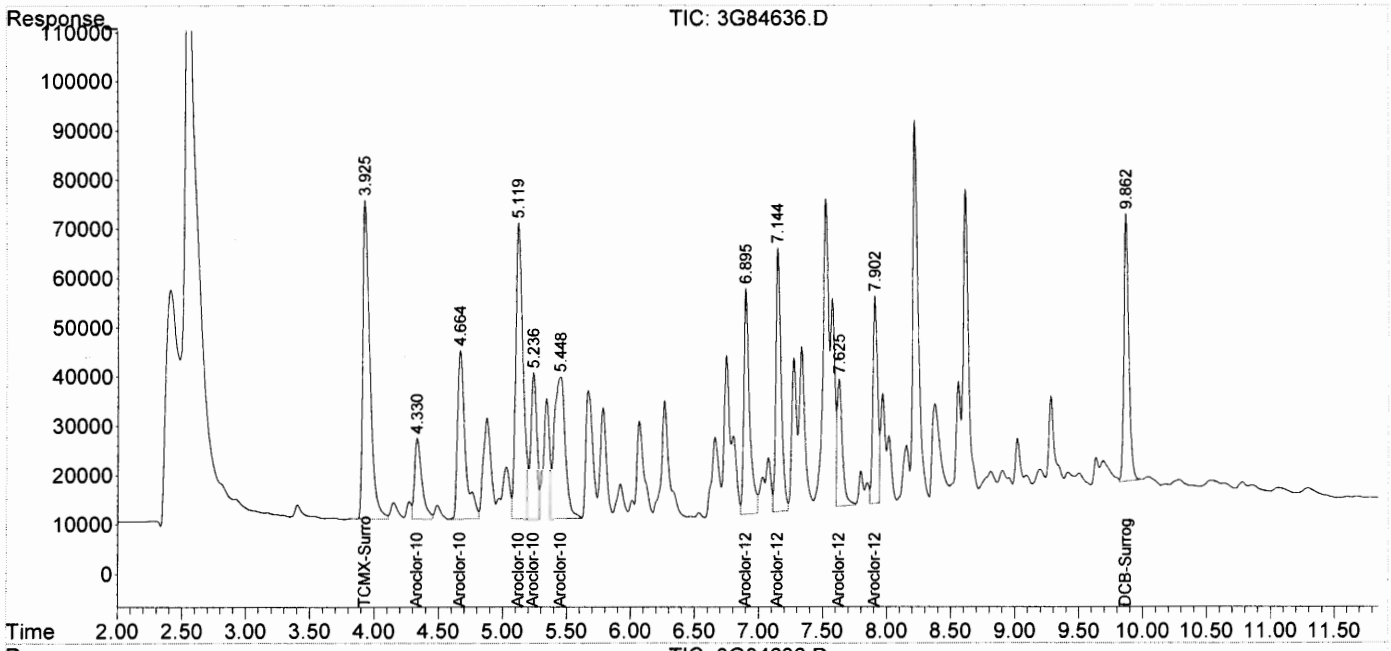
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

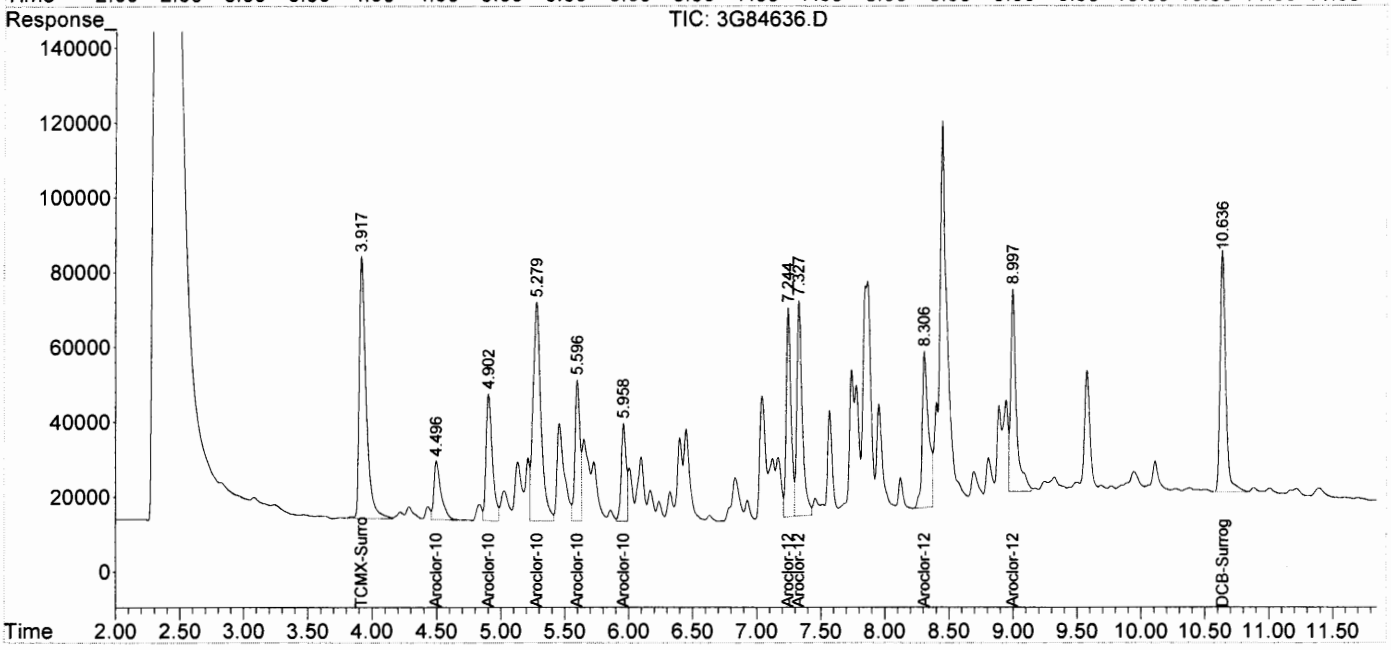
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\06-02-14\
Data File : 3G84636.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Jun 2014 15:46
Operator : MLC/MAS
Sample : AC78787-019(MSD)
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Jun 02 16:38:38 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form3
Recovery Data
QC Batch: SMB33934

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84588.D	AC78780-001(MS)	5/29/2014 3:53:00 PM
Non Spike(If applicable):	2G90190.D	AC78780-001	5/29/2014 8:37:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	1041.304	0	1000	104	30	163
Aroclor-1260 -Total	2	960.194	0	1000	96	25	166

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84589.D	AC78780-001(MSD)	5/29/2014 4:08:00 PM
Non Spike(If applicable):	2G90190.D	AC78780-001	5/29/2014 8:37:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	887.502	0	1000	89	30	163
Aroclor-1260 -Total	2	825.904	0	1000	83	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: SMB33934

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G84589.D	AC78780-001(MSD)	5/29/2014 4:08:00 PM
Duplicate(If applicable):	3G84588.D	AC78780-001(MS)	5/29/2014 3:53:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	2	887.502	1041.304	16	40
Aroclor-1260 -Total	2	825.904	960.194	15	37

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_2\Data\05-29-14\
Data File : 2G90190.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 20:37
Operator : MAS
Sample : AC78780-001
Misc : S,PCB
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:35:56 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

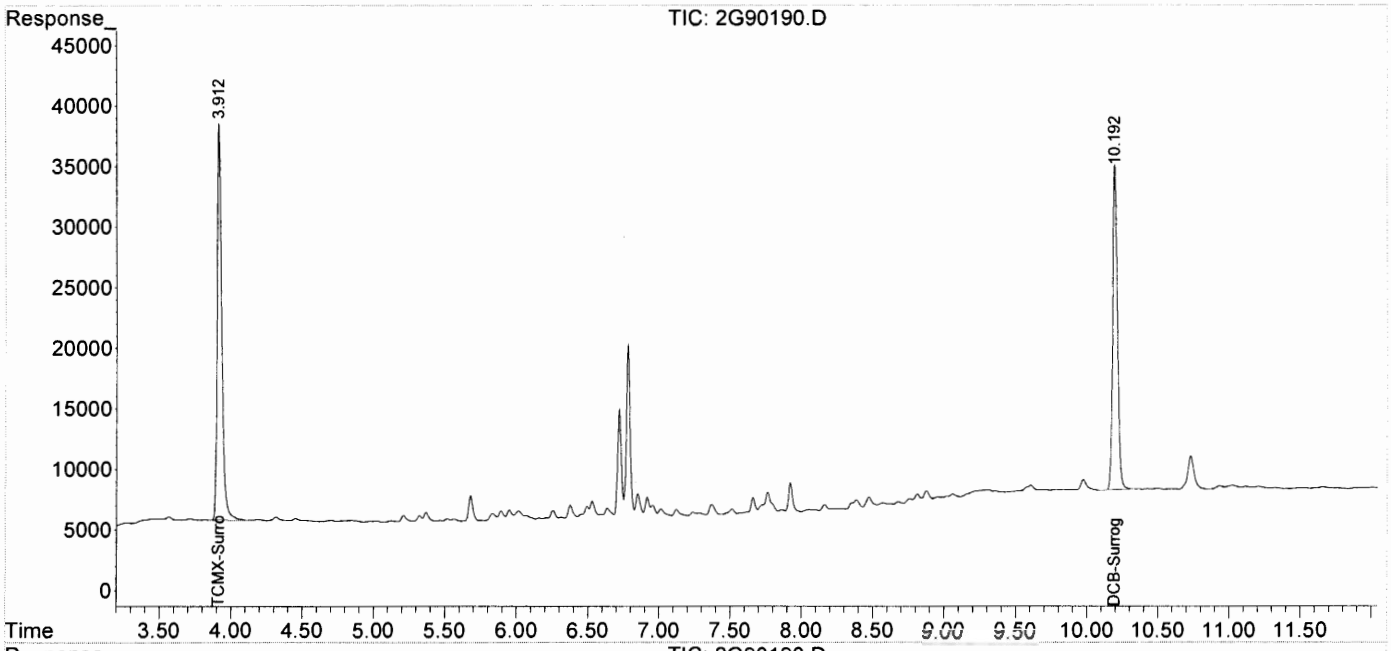
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.913	3.989	718446	330330	99.637	97.279
45)DCB-Surrogate	10.192	11.002	628729	329751	96.553	89.172

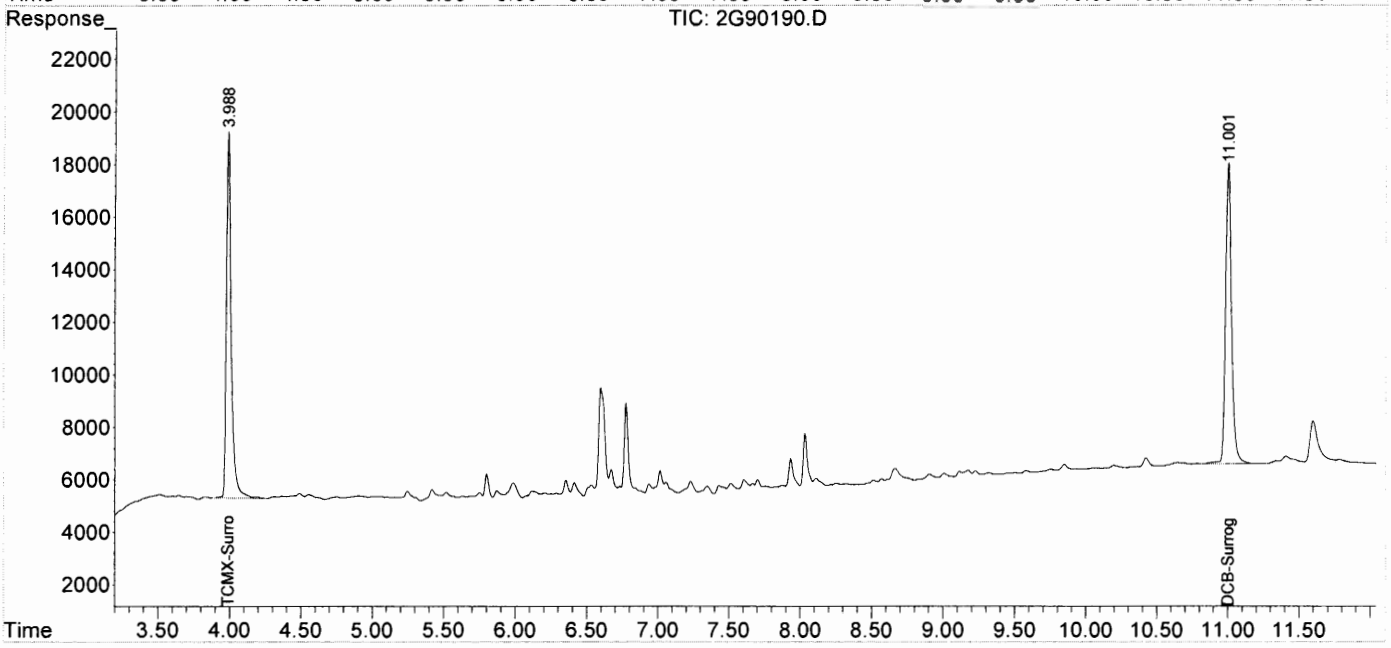
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_2\Data\05-29-14\
Data File : 2G90190.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 20:37
Operator : MAS
Sample : AC78780-001
Misc : S,PCB
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 09:35:56 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0502.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Mon May 05 10:05:26 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84588.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 15:53
Operator : MLC/MAS
Sample : AC78780-001(MS)
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 10:09:46 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.920	3.909	3262073	3408008	122.445	104.118
2)Aroclor-1016 {1}	4.325	4.489	811649	756501	1317.737	998.398
3)Aroclor-1016 {2}	4.655	4.896	1305090	1375841	1199.488	1009.220
4)Aroclor-1016 {3}	5.114	5.273	2664452	3000994	1180.737	1025.178
5)Aroclor-1016 {4}	5.230	5.590	1223230	1216877	1222.341	1092.884
6)Aroclor-1016 {5}	5.443	5.952	1895224	858721	1059.713	1080.838m
7)Aroclor-1260 {1}	6.892	7.240	1541322	1770387	1035.366	949.445
8)Aroclor-1260 {2}	7.139	7.323	1849499	2114172	1095.375	996.465
9)Aroclor-1260 {3}	7.620	8.302	1063014	1812571	1283.514	1005.051
10)Aroclor-1260 {4}	7.899	8.994	1302046	1785262	1067.188	952.513
11)Aroclor-1260 {5}	8.604	9.575	2151136	1249853	1060.191	897.488
45)DCB-Surrogate	9.861	10.635	2741741	3490580	114.935	99.460

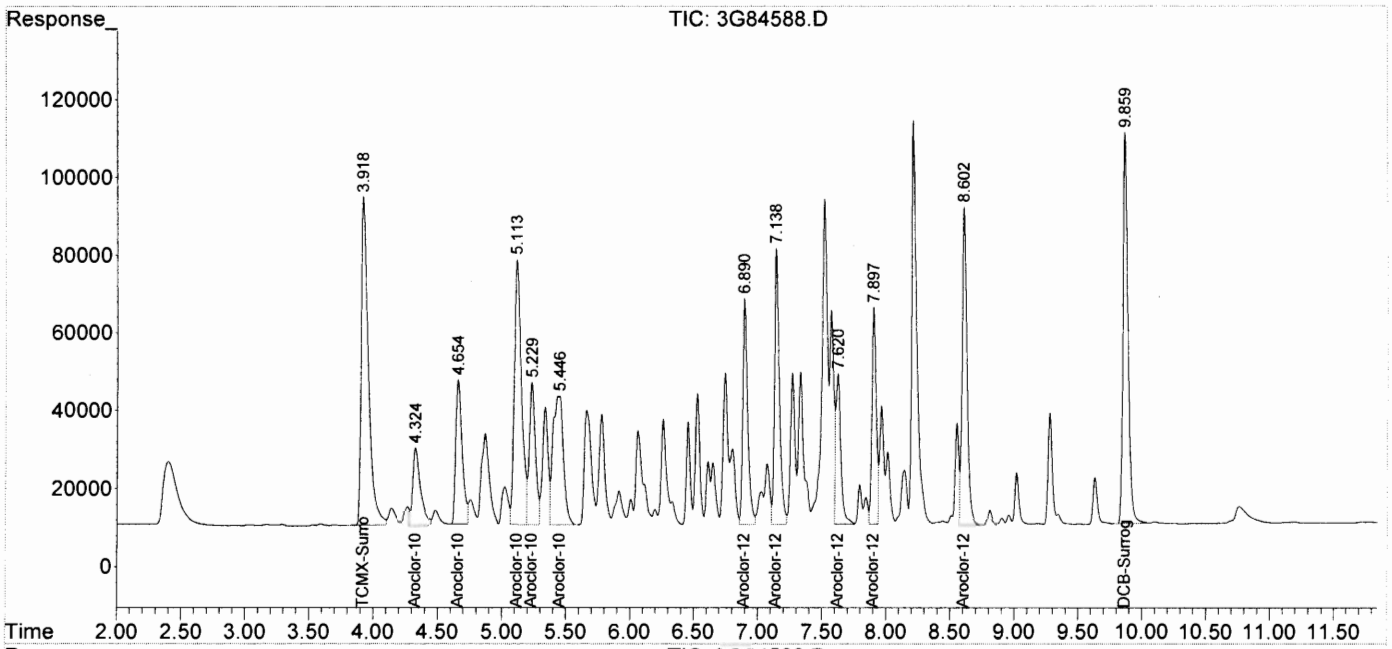
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

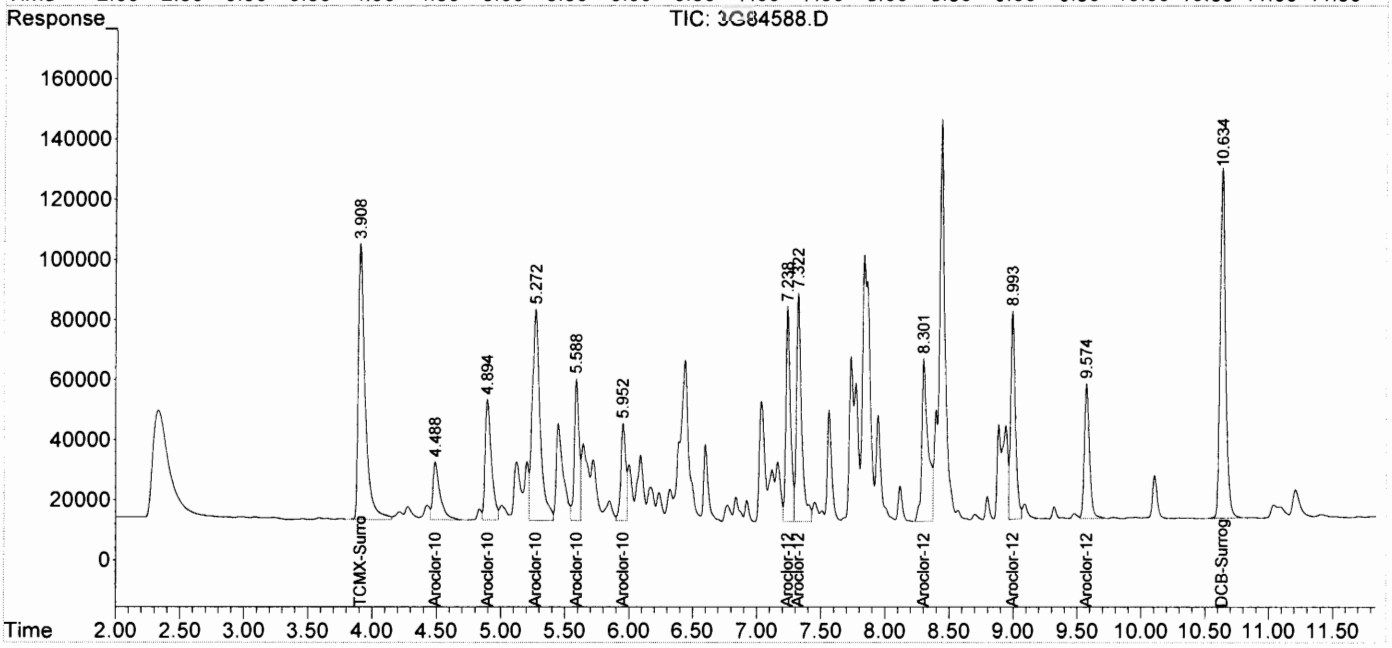
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84588.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 15:53
Operator : MLC/MAS
Sample : AC78780-001(MS)
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 10:09:46 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

4052101 1158

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84589.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 16:08
Operator : MLC/MAS
Sample : AC78780-001(MSD)
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 10:10:08 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.917	3.909	2722407	2854686	101.555	86.879
2)Aroclor-1016 {1}	4.322	4.488	764833	628777	1237.001	822.659 #
3)Aroclor-1016 {2}	4.654	4.896	1161247	1158515	1057.867	840.784
4)Aroclor-1016 {3}	5.112	5.273	2303138	2545415	1011.296	862.731
5)Aroclor-1016 {4}	5.228	5.589	1062352	1053907	1052.408	938.749
6)Aroclor-1016 {5}	5.435	5.954	1629179	776885	902.232	972.593
7)Aroclor-1260 {1}	6.892	7.241	1399981	1562981	935.214	832.687
8)Aroclor-1260 {2}	7.140	7.324	1628455	1830129	957.306	856.856
9)Aroclor-1260 {3}	7.619	8.303	962881	1518389	1158.388	836.793 #
10)Aroclor-1260 {4}	7.900	8.994	1127542	1567681	917.761	835.356m
11)Aroclor-1260 {5}	8.603	9.576	1865487	1069270	919.408	767.816
45)DCB-Surrogate	9.861	10.636	2194015	2811079	91.176	79.699

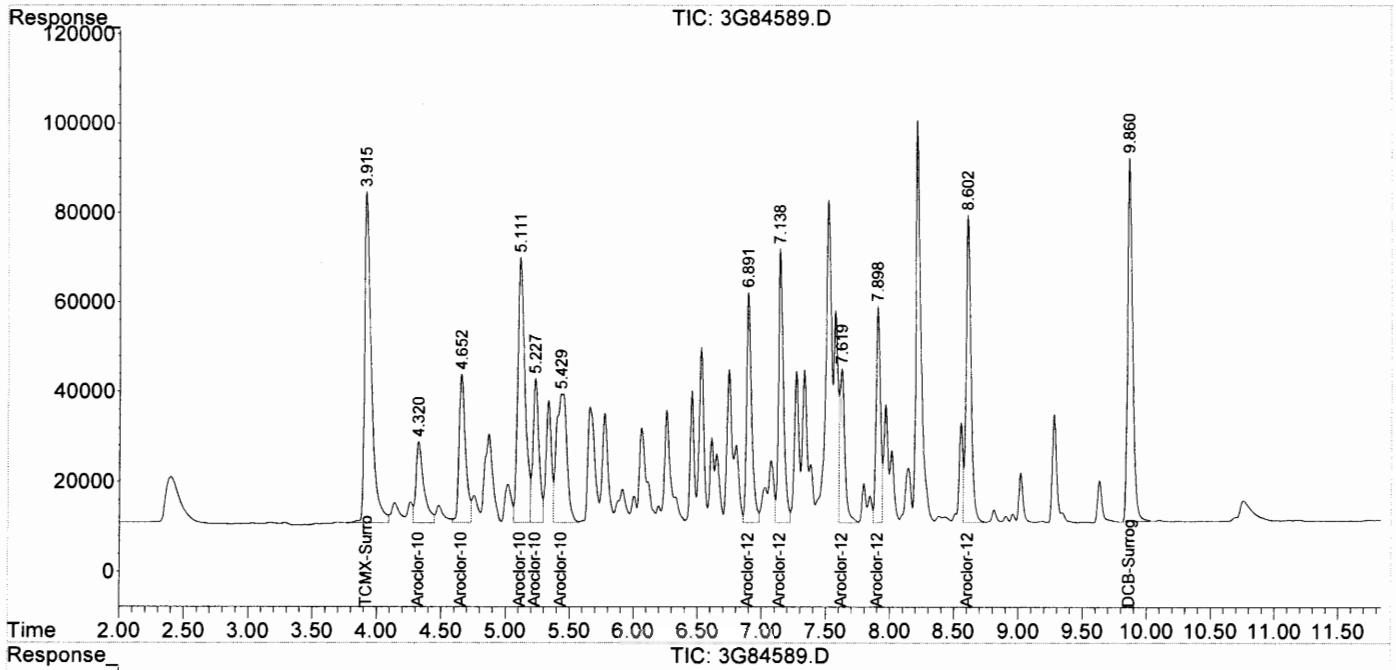
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

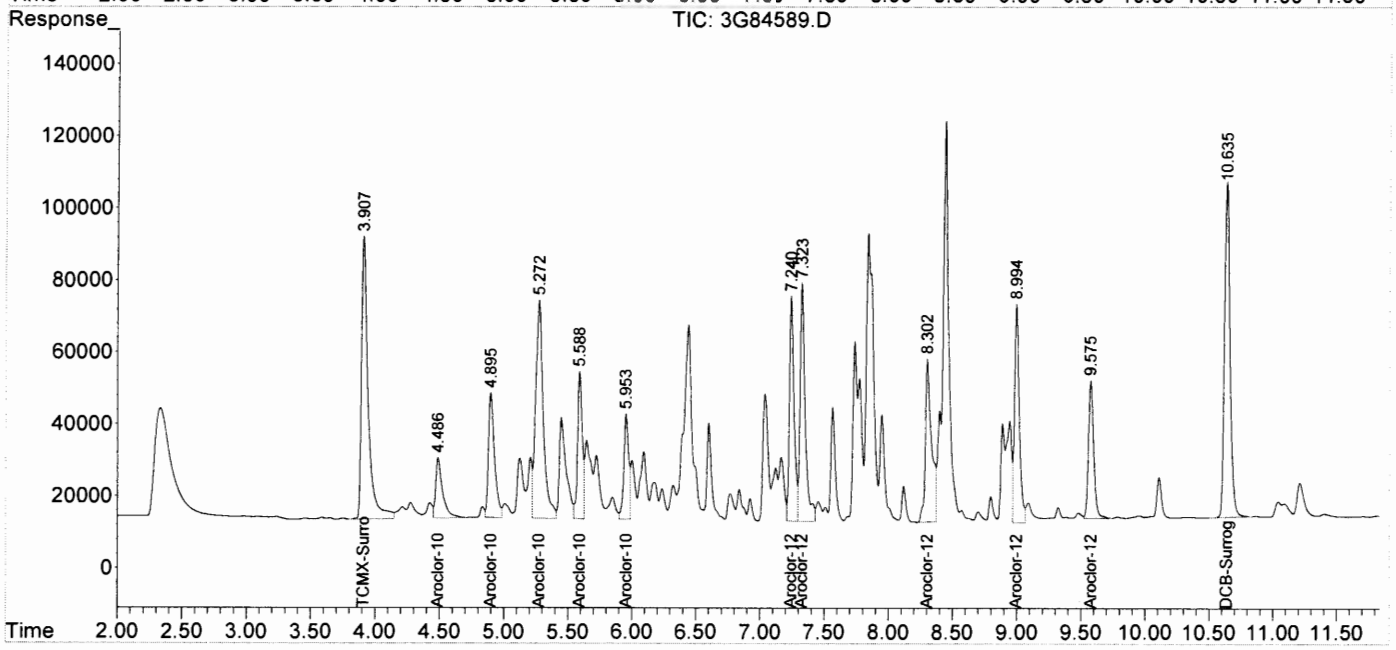
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_3\Data\05-29-14\
Data File : 3G84589.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 16:08
Operator : MLC/MAS
Sample : AC78780-001(MSD)
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: May 30 10:10:08 2014
Quant Method : G:\GCDATA\2014\GC_3\METHODQT\3G_C0507.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu May 08 13:31:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





GC PCB Data
Logbook Data

QC33930 — Pest

QC33931 — PCB

Hampton-Clarke/Veritech

SONICATION EXTRACTION – Method 3550B

Method Blank No. SMB- _____ Date: 5/28/14
Blank Spike (SMBS): _____ Matrix Spike: 33930 — Pest
Blank Spike (SMBS): _____ Matrix Spike: 33931 — PCB

Analysis: Pest / PCB / Herb / Other

Sample Number	No. in batch				Initial Volume	Final Volume	Extracted By/Position/ Comments
	Pest 3550B	PCB 3550B	Herb	Other			
MB 33930/33931	X	X			20.0g	10.0 ml	BAS /
MBS 33930/33931	X	X					/ /
MS 78787-019	X	X					/ /
MSD 78787-019	X	X					/ /
Ac 78787-019	1	1					/ /
-020	2	2					/ /
-021	3	3					/ /
-022	4	4					/ /
-023	5	5					/ /
-024	6	6					/ /
-025	7	7					/ /
-026	8	8					/ /
-001	9	9					/ /
-002	10	10					/ /
-007	11	11					/ /
Ac 78744-001	12	12					/ /
-002	13	13					/ /
Ac 78871-001	14	14					/ /
-002	15	15					/ /
Ac 78804-015	16						/ /
Ac 78692-036	17						/ /
-037	18						/ /
-040	19						/ /
-042	20						/ /
							/ /
							/ /
							/ /
							/ /
							/ / Pack#
							/

Cleanup: Acid X TBA ___ Copper X Florisil ___ Other ___

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	100	V-184589	Pest / PCB / Other
	10	V-178304	

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	10	V-186046	Pest / PCB / Herb / Other

Reagent Lots: MeCL2 _____ Acetone V-8663 Hexane V-8677 Na2SO4 V-8665 Ether ___
MTBE _____ Copper Powder _____ Acetone/Hexane _____ Other _____

Relinquished By: BAS Date: 5/28/14
Received By: LT Date: 5.29.14

T:\QC\FORMS\LOGBOOK FORMS\extractions\PestPCB Soil Sonication Ext Log 2012.doc

QC33933 — Pest

QC33934 — PCB

Hampton-Clarke/Veritech

SONICATION EXTRACTION – Method 3550B

Method Blank No. SMB- _____ Date: 5-29-14
Blank Spike (SMBS): _____ Matrix Spike: _____
Blank Spike (SMBS): _____ Matrix Spike: _____

Analysis: Pest / PCB / Herb / Other

Sample Number	No. in batch				Initial Volume	Final Volume	Extracted By/Position/ Comments
	Pest 3550B	PCB 3550B	Herb	Other			
33934							
MB 33933	x	x			20g	10ml	SW /
MBS 33933	x						/ /
MBS 33934		x					/ /
MS 78784-008	x						/ /
MSD 78784-008	x						/ /
MS 78780-001		x					/ /
MSD 78780-001		x					/ /
AC 78780-001		1					/ /
AC 78780-003		2					/ /
AC 78787-008	1	3					/ /
AC 78787-014	2	4					/ /
AC 78787-015	3	5					/ /
AC 78787-018	4	6					/ /
AC 78790-001	5	7					/ /
AC 78790-002	6	8					/ /
AC 78792-001	7	9					/ /
AC 78792-003	8	10					/ /
AC 78792-005	9	11					/ /
AC 78792-007	10	12					/ /
AC 78826-001	11	13					/ /
AC 78826-002	12	14					/ /
AC 78818-001	13	15					/ /
AC 78818-002	14	16					/ /
AC 78824-001	15	17					/ /
AC 78824-003	16	18					/ /
AC 78824-005	17	19					/ /
							/ /
							/ /
							/ /
							/

Cleanup: Acid ___ TBA ___ Copper ___ Florisil ___ Other ___

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	10	178334	Pest / PCB / Other
100	100	184589	↓

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	10	186046	Pest / PCB / Herb / Other

Reagent Lots: MeCL2 _____ Acetone 8663 Hexane 8677 Na2SO4 8665 Ether ___
MTBE _____ Copper Powder _____ Acetone/Hexane _____ Other _____

Relinquished By: SW Date: 5-29-14
Received By: LT Date: 5.29.14

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QC33880 Pest QC33881 PCB

Hampton-Clarke/Veritech

Method Blank No. WMB- _____
Blank Spike (WMBS): _____
Blank Spike (WMBS): _____

Date: 5/22/14
Matrix Spike: 30773 Pest
Matrix Spike: 33881 PCB

Extraction: Pest (3510C) / PCB (3510C) / Other(list):

Sample Number	No. in batch Pest	No. in batch PCB	No. in batch Other	Initial Vol	Final Vol	Extracted By/ Comments	TCLP QC	Extraction Fluid
M133380/33881	X	X		1000ml	5ml	MGL Rack#		
M133380/33881	X	X		↓	5ml	11		
MS78788-004	X	X		500ml	↓			
MSD78788-004	X	X		↓				
AC78788-004	7	1		↓	2.5ml			1/2 Surr.
AC78788-003	8	2		900ml	5.0ml			
AC78788-005	9	3		↓	↓			
AC78788-007	10	4		950ml				
AC78787-003	11	5		1000ml				
AC78787-005	12	6		↓				
AC78787-009	13	7		1000ml				
AC78787-011	14	8		↓				
AC78787-016	15	9		900ml				
AC78790-003	16	10		950ml				
AC78792-009	17	11		900ml				
AC78793-001	18	12		1000ml	↓			
AC78799-001	19	13		↓	1.0ml			10ml Surr.
AC78812-001		14		950ml	5.0ml			
AC78812-002		15		900ml	↓	↓		

Cleanup: Acid ___ TBA ___ Copper ___ Florisil ___ Other ___

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	178304	Pest / PCB / Other
↓	100	184589	Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No. MGL 5/22/14	
50	10	184589	Pest / PCB / Other
		186046	Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other

Reagent Lots: MeCl2 8662 Acetone _____ Hexane 8677 Na2SO4 8665 Ether ____

MTBE _____ Copper Powder _____ Other _____

Relinquished By: MGL Date: 5/22/14
Received By: LT Date: 5/22/14

T:\QC\FORMS\LOGBOOK FORMS\extractions\PestPCB Aq Ext Log 2012.doc

RUN LOG

1-1-2G89548

Instrument: G4052101 1164
Analyst: MAS

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2G89548.D	200PPB	CnS8				Soil	1	1	8082	05/02 08:42
2G89549.D	TEST	CnS8				Soil	1	1	8082	05/02 16:47
2G89550.D	BLK	CnS8	NOT USED	MS 05/06/14		Soil	1	1	8082	05/02 17:02
2G89551.D	BLK	CnS8	NOT USED	MS 05/06/14		Soil	1	1	8082	05/02 17:17
2G89552.D	BLK	Cn	NOT USED	MS 05/06/14		Soil	1	1	8082	05/02 17:32
2G89553.D	BLK	Cn	NOT USED	MS 05/06/14		Soil	1	1	8082	05/02 17:47
2G89554.D	BLK	CnS8	NOT USED	MS 05/06/14		Soil	1	1	8082	05/02 18:02
2G89555.D	BLK	CnS8	NOT USED	MS 05/06/14		Soil	1	1	8082	05/02 18:17
2G89556.D	BLK	CnS8	NOT USED	MS 05/06/14		Soil	1	1	8082	05/02 18:33
2G89557.D	BLK	CnS8	NOT USED	MS 05/06/14		Soil	1	1	8082	05/02 18:48
2G89558.D	BLK	CnS8	NOT USED	MS 05/06/14		Soil	1	1	8082	05/02 19:03
2G89559.D	BLK	Cn	NOT USED	MS 05/06/14		Soil	1	1	8082	05/02 19:18
2G89560.D	CAL 3268@500PPB		OK,V-185680	MS 05/06/14		Soil	1	1	608\808	05/02 19:33
2G89561.D	CAL 1242@500PPB		OK,V-185682	MS 05/06/14		Soil	1	1	608\808	05/02 19:48
2G89562.D	CAL 1248@500PPB		OK,V-185684	MS 05/06/14		Soil	1	1	608\808	05/02 20:03
2G89563.D	CAL 2154@500PPB		OK,V-178426	MS 05/06/14		Soil	1	1	608\808	05/02 20:19
2G89564.D	CAL 1262@500PPB		OK,V-178428	MS 05/06/14		Soil	1	1	608\808	05/02 20:34
2G89565.D	CAL 1660@50PPB		OK,B-17213	MS 05/06/14		Soil	1	1	608\808	05/02 20:49
2G89566.D	CAL 1660@200PPB		OK,B-17213	MS 05/06/14		Soil	1	1	608\808	05/02 21:04
2G89567.D	CAL 1660@500PPB		OK,B-17213	MS 05/06/14		Soil	1	1	608\808	05/02 21:19
2G89568.D	CAL 1660@1000PP		OK,B-17213	MS 05/06/14		Soil	1	1	608\808	05/02 21:34
2G89569.D	CAL 1660@2000PP		OK,B-17213	MS 05/06/14		Soil	1	1	608\808	05/02 21:49
2G89570.D	CAL 1660@4000PP		OK,B-17213	MS 05/06/14		Soil	1	1	608\808	05/02 22:05
2G89571.D	ICV		OK,V-185082	MS 05/06/14		Soil	1	1	8082	05/02 22:20
2G89572.D	PEST WS	S8Do	OK	MS 05/06/14		Soil	1	1	8082	05/02 22:35
2G89573.D	MDL-1(1242) ST		OK	MS 05/06/14		Soil	1	1242	8082	05/02 22:50
2G89574.D	MDL-2(1242) ST		OK	MS 05/06/14		Soil	1	1242	8082	05/02 23:05
2G89575.D	MDL-3(1242) ST		OK	MS 05/06/14		Soil	1	1242	8082	05/02 23:20
2G89576.D	MDL-4(1242) ST		OK	MS 05/06/14		Soil	1	1242	8082	05/02 23:35
2G89577.D	MDL-5(1242) ST		OK	MS 05/06/14		Soil	1	1242	8082	05/02 23:51
2G89578.D	MDL-7(1242) ST		OK	MS 05/06/14		Soil	1	1242	8082	05/03 00:06
2G89579.D	MDL-8(1242) ST		OK	MS 05/06/14		Soil	1	1242	8082	05/03 00:21
2G89580.D	MDL-9(1242) ST		OK	MS 05/06/14		Soil	1	1242	8082	05/03 00:36
2G89581.D	MDL-VERI(1242) S		OK	MS 05/06/14		Soil	1	1242	8082	05/03 00:51
2G89582.D	CAL 1660@1000PP		OK	MS 05/06/14		Soil	0.5	1	608\808	05/03 01:06
2G89583.D	CAL 1660@2000PP		OK	MS 05/06/14		Soil	0.25	1	608\808	05/03 01:21
2G89584.D	MDL-1(1262) ST		OK	MS 05/06/14		Soil	1	1262	8082	05/03 01:36
2G89585.D	MDL-2(1262) ST		OK	MS 05/06/14		Soil	1	1262	8082	05/03 01:51
2G89586.D	MDL-3(1262) ST		OK	MS 05/06/14		Soil	1	1262	8082	05/03 02:06
2G89587.D	MDL-4(1262) ST		OK	MS 05/06/14		Soil	1	1262	8082	05/03 02:21
2G89588.D	MDL-5(1262) ST		OK	MS 05/06/14		Soil	1	1262	8082	05/03 02:36
2G89589.D	MDL-6(1262) ST		OK	MS 05/06/14		Soil	1	1262	8082	05/03 02:51
2G89590.D	MDL-7(1262) ST		OK	MS 05/06/14		Soil	1	1262	8082	05/03 03:07
2G89591.D	MDL-8(1262) ST		OK	MS 05/06/14		Soil	1	1262	8082	05/03 03:22
2G89592.D	MDL-9(1262) ST		OK	MS 05/06/14		Soil	1	1262	8082	05/03 03:37
2G89593.D	MDL-VERI(1262) S		OK	MS 05/06/14		Soil	1	1262	8082	05/03 03:52
2G89594.D	1000PPB		NOT USED	MS 05/06/14		Soil	0.5	1	8082	05/03 04:07
2G89595.D	CAL 1660@2000PP		OK	MS 05/06/14		Soil	0.25	1	608\808	05/03 04:22

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B8m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eob
B8m	Blank 8000 series missing	Etn	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing drft or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-3G84214

RUN LOG

Instrument: GC4052101 1165
Analyst: MLC/MAS

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G84214.D	2000PPB	IsCn	NOT USED	MS 05/08/14		Aqueous	0.25	1	608\808	05/07 08:44
3G84215.D	CAL 1660@50PPB		OK,B-17213	MS 05/08/14		Aqueous	1	1	608\808	05/07 10:35
3G84216.D	CAL 1660@200PPB		OK,B-17213	MS 05/08/14		Aqueous	1	1	608\808	05/07 10:50
3G84217.D	CAL 1660@500PPB		OK,B-17213	MS 05/08/14		Aqueous	1	1	608\808	05/07 11:05
3G84218.D	CAL 1660@1000PP		OK,B-17213	MS 05/08/14		Aqueous	1	1	608\808	05/07 11:20
3G84219.D	CAL 1660@2000PP		OK,B-17213	MS 05/08/14		Aqueous	1	1	608\808	05/07 11:35
3G84220.D	CAL 1660@4000PP		OK,B-17213	MS 05/08/14		Aqueous	1	1	608\808	05/07 11:50
3G84221.D	CAL 3268@500PPB		OK,V-185680	MS 05/08/14		Aqueous	1	1	608\808	05/07 12:05
3G84222.D	CAL 1242@500PPB		OK,V-185682	MS 05/08/14		Aqueous	1	1	608\808	05/07 12:20
3G84223.D	CAL 1248@500PPB		OK,V-185684	MS 05/08/14		Aqueous	1	1	608\808	05/07 12:35
3G84224.D	CAL 2154@500PPB		OK,V-178426	MS 05/08/14		Aqueous	1	1	608\808	05/07 12:50
3G84225.D	CAL 1262@500PPB		OK,V-178428	MS 05/08/14		Aqueous	1	1	608\808	05/07 13:05
3G84226.D	CAL ICV		OK,V-185082	MS 05/08/14		Aqueous	1	1	608\808	05/07 13:19
3G84227.D	PEST WS	S6S8DoDo	OK	MS 05/08/14		Aqueous	1	1	608\808	05/07 13:35
3G84228.D	SMB30792		OK	MS 05/08/14		Soil	1	1	8082	05/07 15:56
3G84229.D	MDL-1(3268) ST		OK	MS 05/08/14		Soil	1	3268	8082	05/07 16:11
3G84230.D	MDL-2(3268) ST		OK	MS 05/08/14		Soil	1	3268	8082	05/07 16:26
3G84231.D	MDL-3(3268) ST		OK	MS 05/08/14		Soil	1	3268	8082	05/07 16:41
3G84232.D	MDL-4(3268) ST		OK	MS 05/08/14		Soil	1	3268	8082	05/07 16:57
3G84233.D	MDL-5(3268) ST		OK	MS 05/08/14		Soil	1	3268	8082	05/07 17:12
3G84234.D	MDL-6(3268) ST		OK	MS 05/08/14		Soil	1	3268	8082	05/07 17:27
3G84235.D	MDL-7(3268) ST		OK	MS 05/08/14		Soil	1	3268	8082	05/07 17:42
3G84236.D	MDL-VERI(3268) S		OK	MS 05/08/14		Soil	1	3268	8082	05/07 17:58
3G84237.D	CAL 1660@1000PP		OK,V-184984	MS 05/08/14		Soil	0.5	1	608\808	05/07 18:13
3G84238.D	2000PPB	Cme	OK	MS 05/08/14		Soil	0.25	1	8082	05/07 18:28

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for enb
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method..	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-3G84478

RUN LOG

Instrument: G(4052101 1166
Analyst: MLC/MAS

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G84478.D	CAL 1660@2000PP		OK,OK, V-184983	KD 05/23/14		Soil	0.25	1	608\808	05/23 08:41
3G84479.D	WMB33881		OK	KD 05/23/14		Aqueous	1	1	608\808	05/23 09:04
3G84480.D	WMB33881(MS)		OK WMB33881	KD 05/23/14		Aqueous	1	1	608\808	05/23 09:20
3G84481.D	AC78812-001		RR10X	KD 05/23/14	PCB-608	Aqueous	1	1	608	05/23 09:35
3G84482.D	AC78812-002		RR20X	KD 05/23/14	PCB-608	Aqueous	1	1	608	05/23 09:50
3G84483.D	AC78799-001		OK	KD 05/23/14	PCB-8082	Aqueous	1	1	8082	05/23 10:05
3G84484.D	AC78788-003		OK	KD 05/23/14	PCB-608	Aqueous	1	1	608	05/23 10:20
3G84485.D	AC78788-004		OK WMB33881	KD 05/23/14	PCB-608	Aqueous	1	1	608	05/23 10:36
3G84486.D	AC78788-005		OK	KD 05/23/14	PCB-608	Aqueous	1	1	608	05/23 10:51
3G84487.D	AC78812-001(10X)		OK	KD 05/23/14	PCB-608	Aqueous	10	10	608	05/23 11:06
3G84488.D	AC78812-002(20X)		OK	KD 05/23/14	PCB-608	Aqueous	20	20	608	05/23 11:22
3G84489.D	CAL 1660@2000PP		OK	MS 05/27/14		Aqueous	0.25	1	608\808	05/23 11:36
3G84490.D	AC78788-004(MS)		OK WMB33881	MS 05/27/14	PCB-608	Aqueous	1	1	608\808	05/23 12:02
3G84491.D	AC78788-004(MSD)		OK WMB33881	MS 05/27/14	PCB-608	Aqueous	1	1	608\808	05/23 12:17
3G84492.D	AC78788-007		OK	MS 05/27/14	PCB-608	Aqueous	1	1	608	05/23 12:32
3G84493.D	AC78793-001		OK	MS 05/27/14	PCB-608	Aqueous	1	1	608	05/23 12:48
3G84494.D	AC78713-028(10X)		OK	MS 05/27/14	PCB-8082	Soil	10	10	8082	05/23 13:03
3G84495.D	AC78713-031(10X)		OK	MS 05/27/14	PCB-8082	Soil	10	10	8082	05/23 13:19
3G84496.D	AC78713-026(10X)		OK SMB33885	MS 05/27/14	PCB-8082	Soil	10	10	8082	05/23 13:34
3G84497.D	AC78713-029(10X)(		OK SMB33885	MS 05/27/14	PCB-8082	Soil	10	10	8082	05/23 13:49
3G84498.D	AC78713-030(10X)(		OK SMB33885	MS 05/27/14	PCB-8082	Soil	10	10	8082	05/23 14:04
3G84499.D	AC78790-003		OK	MS 05/27/14	PCB-8082	Aqueous	1	1	8082	05/23 14:19
3G84500.D	AC78792-009		OK	MS 05/27/14	PCB-8082	Aqueous	1	1	8082	05/23 14:34
3G84501.D	SMB33891(MS)		OK SMB33891	MS 05/27/14		Soil	1	1	8082	05/23 14:49
3G84502.D	SMB33891		OK	MS 05/23/14		Soil	1	1	8082	05/23 15:04
3G84503.D	CAL 1660@2000PP		OK	MS 05/27/14		Soil	0.25	1	608\808	05/23 15:19
3G84504.D	AC78787-003		OK	MS 05/27/14	PCB-8082	Aqueous	1	1	8082	05/23 15:51
3G84505.D	AC78787-005		OK	MS 05/27/14	PCB-8082	Aqueous	1	1	8082	05/23 16:06
3G84506.D	AC78787-009		OK	MS 05/27/14	PCB-8082	Aqueous	1	1	8082	05/23 16:21
3G84507.D	AC78787-011		OK	MS 05/27/14	PCB-8082	Aqueous	1	1	8082	05/23 16:37
3G84508.D	AC78787-016		OK	MS 05/27/14	PCB-8082	Aqueous	1	1	8082	05/23 16:52
3G84509.D	SMB33893(MS)		OK SMB33893	MS 05/27/14		Soil	1	1	8082	05/23 17:07
3G84510.D	SMB33893		OK	MS 05/27/14		Soil	1	1	8082	05/23 17:22
3G84511.D	AC78676-022(MS)		OK SMB33893	MS 05/27/14	PCB-8082	Soil	1	1	8082	05/23 17:38
3G84512.D	AC78676-022(MSD)		OK SMB33893	MS 05/27/14	PCB-8082	Soil	1	1	8082	05/23 17:53
3G84513.D	AC78676-022		OK SMB33893	MS 05/27/14	PCB-8082	Soil	1	1	8082	05/23 18:08
3G84514.D	1000PPB		NOT USED	MS 05/27/14		Soil	0.5	1	8082	05/23 18:24
3G84515.D	CAL 1660@2000PP		OK	MS 05/27/14		Soil	0.25	1	608\808	05/23 18:38
3G84516.D	AC78676-021		OK	MS 05/27/14	PCB-8082	Soil	1	1	8082	05/23 18:54
3G84517.D	AC78676-023		OK	MS 05/27/14	PCB-8082	Soil	1	1	8082	05/23 19:09
3G84518.D	AC78676-024		OK	MS 05/27/14	PCB-8082	Soil	1	1	8082	05/23 19:24
3G84519.D	AC78676-025		OK	MS 05/27/14	PCB-8082	Soil	1	1	8082	05/23 19:40
3G84520.D	AC78676-026		OK	MS 05/27/14	PCB-8082	Soil	1	1	8082	05/23 19:55
3G84521.D	AC78676-027		RR 100X	MS 05/27/14	PCB-8082	Soil	1	1	8082	05/23 20:10
3G84522.D	AC78676-028		OK	MS 05/27/14	PCB-8082	Soil	1	1	8082	05/23 20:26
3G84523.D	AC78676-029		OK	MS 05/27/14	PCB-8082	Soil	1	1	8082	05/23 20:41
3G84524.D	AC78676-030		OK	MS 05/27/14	PCB-8082	Soil	1	1	8082	05/23 20:56
3G84525.D	AC78676-031		OK	MS 05/27/14	PCB-8082	Soil	1	1	8082	05/23 21:11
3G84526.D	1000PPB		NOT USED	MS 05/27/14		Soil	0.5	1	8082	05/23 21:27
3G84527.D	CAL 1660@2000PPC16		OK	MS 05/27/14		Soil	0.25	1	608\808	05/23 21:42

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16,R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I26	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Dift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method.	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GC 40521011167
Analyst: MLC/MAS

1-1-3G84554

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G84554.D	CAL 1660@2000PP		OK,V-184983	MS 05/28/14		Soil	0.25	1	608\808	05/28 09:27
3G84555.D	AC78718-003		OK SMB33903	MS 05/28/14	PCB-8082	Soil	1	1	8082	05/28 10:10
3G84556.D	AC78718-005		OK	MS 05/28/14	PCB-8082	Soil	1	1	8082	05/28 10:26
3G84557.D	AC78718-001		OK	MS 05/28/14	PCB-8082	Soil	1	1	8082	05/28 10:41
3G84558.D	AC78725-001(10X)		OK	MS 05/28/14	PCB-8082	Soil	10	10	8082	05/28 10:56
3G84559.D	AC78718-003(MS)		OK SMB33903	MS 05/28/14	PCB-8082	Soil	1	1	8082	05/28 11:12
3G84560.D	AC78718-003(MSD)		OK SMB33903	MS 05/28/14	PCB-8082	Soil	1	1	8082	05/28 11:27
3G84561.D	AC78676-027(100X)SdDo		OK	MS 05/28/14	PCB-8082	Soil	100	100	8082	05/28 11:43
3G84562.D	CAL 1660@2000PP		OK	MS 05/28/14,MS 05/29/14,MS 05/29/14,MS 05/29/14		Soil	0.25	1	608\808	05/28 12:42
3G84563.D	WMB33923		OK	MS 05/29/14		Aqueous	1	1	608\808	05/28 16:36
3G84564.D	WMB33923(MS)		OK WMB33923	MS 05/29/14		Aqueous	1	1	608\808	05/28 16:52
3G84565.D	SMB33931		OK	MS 05/29/14		Soil	1	1	8082	05/28 17:06
3G84566.D	MB		NOT USED	MS 05/29/14		Soil	1	1	8082	05/28 17:22
3G84567.D	SMB33931(MS)		OK SMB33931	MS 05/29/14		Soil	1	1	8082	05/28 17:37
3G84568.D	MBS		NOT USED MBS	MS 05/29/14		Soil	1	1	8082	05/28 17:52
3G84569.D	AC78817-001		OK	MS 05/29/14	PCB-608	Aqueous	1	1	608	05/28 18:07
3G84570.D	AC78872-009		OK,RE-EXT	MS 05/29/14	PCB-8082	Aqueous	1	1	8082	05/28 18:23
3G84571.D	AC78829-014		OK	MS 05/29/14	PCB-8082	Aqueous	1	1	8082	05/28 18:38
3G84572.D	AC78818-003		OK	MS 05/29/14	PCB-8082	Aqueous	1	1	8082	05/28 18:53
3G84573.D	1000PPB	Tmw	NOT USED	MS 05/29/14		Aqueous	0.5	1	608\808	05/28 19:09
3G84574.D	CAL 1660@2000PP		OK	MS 05/29/14		Aqueous	0.25	1	608\808	05/28 19:24

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eob
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing dd1 or endpn
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R18,R28	Rod Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I26	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rod Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Diff
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

1-1-3G84575

RUN LOG

Instrument: GC 4052101 1168
Analyst: MLC/MAS

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G84575.D	CAL 1660@2000PP		OK,V-184983	MS 05/29/14		Aqueous	0.25	1	608\808	05/29 09:12
3G84576.D	OMB33937		OK	MS 05/29/14		OIL/OTH	1	1	8082	05/29 11:51
3G84577.D	OMB33937(MS)		OK OMB33937	MS 05/29/14		OIL/OTH	1	1	8082	05/29 12:06
3G84578.D	AC78877-001		OK	MS 05/29/14	PCB-8082	OIL/OTH	1	1	8082	05/29 12:21
3G84579.D	CAL 1660@2000PP		OK	MS 05/29/14		OIL/OTH	0.25	1	608\808	05/29 12:44
3G84580.D	SMB-ST(JR)		FAILED	MS 05/30/14		Soil	1	1	8082	05/29 13:35
3G84581.D	MBS1-ST		OK MBS1-ST	MS 05/30/14		Soil	1	1	8082	05/29 13:50
3G84582.D	MBS2-ST		OK MBS2-ST	MS 05/30/14		Soil	1	1	8082	05/29 14:05
3G84583.D	MBS3-ST		OK MBS3-ST	MS 05/30/14		Soil	1	1	8082	05/29 14:19
3G84584.D	MBS4-ST		OK MBS4-ST	MS 05/30/14		Soil	1	1	8082	05/29 14:34
3G84585.D	MBS5-ST		OK MBS5-ST	MS 05/30/14		Soil	1	1	8082	05/29 14:49
3G84586.D	SMB33934		OK	MS 05/30/14		Soil	1	1	8082	05/29 15:23
3G84587.D	SMB33934(MS)		OK SMB33934	MS 05/30/14		Soil	1	1	8082	05/29 15:38
3G84588.D	AC78780-001(MS)		OK SMB33934	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 15:53
3G84589.D	AC78780-001(MSD)		OK SMB33934	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 16:08
3G84590.D	AC78780-003		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 16:23
3G84591.D	AC78787-008		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 16:38
3G84592.D	AC78787-014		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 16:53
3G84593.D	AC78787-015		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 17:08
3G84594.D	AC78787-018		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 17:24
3G84595.D	AC78792-001		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 17:39
3G84596.D	AC78792-003		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 17:54
3G84597.D	AC78826-001		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 18:09
3G84598.D	AC78824-001		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 18:24
3G84599.D	AC78824-003		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 18:39
3G84600.D	AC78824-005	Tm	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 18:55
3G84601.D	1000PPB	Tm	NOT USED	MS 05/30/14		Soil	0.5	1	8082	05/29 19:10
3G84602.D	CAL 1660@2000PPC16C18		OK	MS 05/30/14		Soil	0.25	1	608\808	05/29 19:25

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B8m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	FvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rto	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrot.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-2G90154

Instrument: GC 4052101 1169
Analyst: MAS

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2G90154.D	1000PPB	Cn	NOT USED	MS 05/29/14		Soil	0.5	1	8082	05/29 09:19
2G90155.D	CAL 1660@1000PP		OK,V-184984,OK,V-184984,V-184983	MS 05/29/14,MS 05/30/14,MS 05/30/14,MS 05/30/14		Soil	0.5	1	608\808	05/29 11:03
2G90156.D	MDL-1 (1248)					Aqueous	1	1248	608\808	05/29 11:26
2G90157.D	MDL-2 (1248)					Aqueous	1	1248	608\808	05/29 11:41
2G90158.D	MDL-3 (1248)					Aqueous	1	1248	608\808	05/29 11:56
2G90159.D	MDL-4 (1248)					Aqueous	1	1248	608\808	05/29 12:11
2G90160.D	MDL-5 (1248)					Aqueous	1	1248	608\808	05/29 12:26
2G90161.D	MDL-6 (1248)					Aqueous	1	1248	608\808	05/29 12:41
2G90162.D	MDL-7 (1248)					Aqueous	1	1248	608\808	05/29 12:56
2G90163.D	MDL-8 (1248)					Aqueous	1	1248	608\808	05/29 13:12
2G90164.D	AC78871-001	S8	RR	MS 05/29/14	PCB-8082	Soil	1	1	8082	05/29 13:27
2G90165.D	AC78871-002	S8	RR	MS 05/29/14	PCB-8082	Soil	1	1	8082	05/29 13:42
2G90166.D	1000PPB					Soil	0.5	1	8082	05/29 13:59
2G90167.D	CAL 1660@1000PP					Soil	0.5	1	608\808	05/29 14:26
2G90168.D	MDL- 9(1248)					Soil	1	1248	8082	05/29 14:56
2G90169.D	MDL- VERI(1248)					Soil	1	1248	8082	05/29 15:11
2G90170.D	MDL- 1(2154)					Soil	1	2154	8082	05/29 15:26
2G90171.D	MDL- 2(2154)					Soil	1	2154	8082	05/29 15:41
2G90172.D	MDL- 3(2154)					Soil	1	2154	8082	05/29 15:56
2G90173.D	MDL- 4(2154)					Soil	1	2154	8082	05/29 16:11
2G90174.D	MDL- 5(2154)					Soil	1	2154	8082	05/29 16:27
2G90175.D	MDL- 6(2154)					Soil	1	2154	8082	05/29 16:51
2G90176.D	MDL- 7(2154)					Soil	1	2154	8082	05/29 17:06
2G90177.D	MDL- 8(2154)					Soil	1	2154	8082	05/29 17:21
2G90178.D	CAL 1660@1000PP		OK	MS 05/30/14		Soil	0.5	1	608\808	05/29 17:36
2G90179.D	2000PPB		NOT USED	MS 05/30/14		Soil	0.25	1	8082	05/29 17:51
2G90180.D	MDL-9(2154)					Soil	1	2154	8082	05/29 18:06
2G90181.D	MDL-VERI(2154)					Soil	1	2154	8082	05/29 18:21
2G90182.D	AC78787-025	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 18:37
2G90183.D	AC78787-024	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 18:52
2G90184.D	AC78787-026	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 19:07
2G90185.D	AC78787-022	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 19:22
2G90186.D	AC78787-023	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 19:37
2G90187.D	AC78787-020	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 19:52
2G90188.D	AC78790-001		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 20:07
2G90189.D	AC78790-002		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 20:22
2G90190.D	AC78780-001		OK SMB33934	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 20:37
2G90191.D	AC78792-007		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 20:52
2G90192.D	AC78818-002		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 21:08
2G90193.D	AC78818-001		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 21:23
2G90194.D	AC78826-002		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 21:38
2G90195.D	CAL 1660@1000PP		OK	MS 05/30/14		Soil	0.5	1	608\808	05/29 21:53
2G90196.D	2000PPB		NOT USED	MS 05/30/14		Soil	0.25	1	8082	05/29 22:08
2G90197.D	AC78787-019(MS)	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 22:23
2G90198.D	AC78787-019(MSD)	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 22:38
2G90199.D	AC78787-019	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 22:53
2G90200.D	AC78744-001	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 23:08
2G90201.D	AC78744-002	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 23:24
2G90202.D	AC78787-001	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 23:39
2G90203.D	AC78787-002	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/29 23:54
2G90204.D	AC78787-021	S8	RR	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 00:09
2G90205.D	AC78792-005		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 00:24
2G90206.D	AC78871-002		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 00:39
2G90207.D	AC78871-001		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 00:54

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Eto	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eob
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16,R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I26	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Diff
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method...	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

1-1-2G90208

RUN LOG

Instrument: GC4052101 1170
Analyst: MAS

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2G90208.D	CAL 1660@1000PP		OK	MS 05/30/14		Soil	0.5	1	608\808	05/30 01:09
2G90209.D	2000PPB	Cme	NOT USED	MS 05/30/14		Soil	0.25	1	8082	05/30 08:50

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eoh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method...	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

1-1-3G84603

RUN LOG

Instrument: GC4052101 1171
Analyst: MLC/MAS

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G84603.D	CAL 1660@2000PP		OK,V-184983	MS 05/30/14		Soil	0.25	1	608\808	05/30 08:45
3G84604.D	AC78787-025		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 10:22
3G84605.D	AC78787-020		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 10:37
3G84606.D	AC78787-023		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 10:52
3G84607.D	AC78787-024		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 11:07
3G84608.D	AC78787-026		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 11:22
3G84609.D	CAL 1660@2000PPC16		OK	MS 05/30/14		Soil	0.25	1	608\808	05/30 12:34
3G84610.D	AC78890-004(MS)		OK WMB33950	MS 06/02/14	PCB-608	Aqueous	1	1	608\808	05/30 16:55
3G84611.D	AC78890-004(MSD)		OK WMB33950	MS 06/02/14	PCB-608	Aqueous	1	1	608\808	05/30 17:10
3G84612.D	WMB33950 (MS)		OK WMB33950	MS 06/02/14		Aqueous	1	1	608\808	05/30 17:25
3G84613.D	AC78872-009		OK	MS 06/02/14	PCB-8082	Aqueous	1	1	8082	05/30 17:41
3G84614.D	AC78890-001		OK	MS 06/02/14	PCB-608	Aqueous	1	1	608	05/30 17:56
3G84615.D	AC78890-002		OK	MS 06/02/14	PCB-608	Aqueous	1	1	608	05/30 18:11
3G84616.D	AC78890-003		OK	MS 06/02/14	PCB-608	Aqueous	1	1	608	05/30 18:27
3G84617.D	AC78890-004		OK WMB33950	MS 06/02/14	PCB-608	Aqueous	1	1	608	05/30 18:42
3G84618.D	AC78890-005		OK	MS 06/02/14	PCB-608	Aqueous	1	1	608	05/30 18:57
3G84619.D	AC78890-006		OK	MS 06/02/14	PCB-608	Aqueous	1	1	608	05/30 19:12
3G84620.D	AC78890-007	Tm	RR RE-EXT	MS 06/02/14	PCB-608	Aqueous	1	1	608	05/30 19:28
3G84621.D	1000PPB	Tmw	NOT USED	MS 06/02/14		Aqueous	0.5	1	608\808	05/30 19:43
3G84622.D	CAL 1660@2000PP		OK	MS 06/02/14		Aqueous	0.25	1	608\808	05/30 19:58

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Eto	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enb
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning .Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

1-1-2G90210

RUN LOG

Instrument: G(4052101 1172
Analyst: MAS

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2G90210.D	CAL 1660@1000PP		OK,V-184984,OK,V-184984,V-184983	MS 05/30/14,MS 06/02/14,MS 06/02/14,MS 06/02/14		Soil	0.5	1	608\808	05/30 09:16
2G90211.D	AC78744-001		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 10:24
2G90212.D	AC78744-002		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 10:39
2G90213.D	AC78787-001		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 10:55
2G90214.D	AC78787-002		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 11:10
2G90215.D	AC78787-021		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 11:25
2G90216.D	AC78787-022		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 11:40
2G90217.D	AC78787-007		OK	MS 05/30/14	PCB-8082	Soil	1	1	8082	05/30 11:55
2G90218.D	CAL 1660@1000PP		OK	MS 05/30/14		Soil	0.5	1	608\808	05/30 12:35
2G90219.D	SMB33952		OK	MS 06/02/14		Soil	1	1	8082	05/30 15:48
2G90220.D	SMB33952(MS)		OK SMB33952	MS 06/02/14		Soil	1	1	8082	05/30 16:03
2G90221.D	AC78829-001(MS)		OK SMB33952	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 16:18
2G90222.D	AC78829-001(MSD)		OK SMB33952	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 16:33
2G90223.D	AC78829-001		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 16:48
2G90224.D	AC78829-002		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 17:03
2G90225.D	AC78829-003		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 17:18
2G90226.D	AC78829-005		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 17:33
2G90227.D	AC78829-011		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 17:48
2G90228.D	AC78863-001		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 18:04
2G90229.D	AC78863-003		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 18:19
2G90230.D	AC78863-005		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 18:34
2G90231.D	AC78863-006		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 18:49
2G90232.D	BLK		NOT USED	MS 06/02/14		Soil	1	1	8082	05/30 19:04
2G90233.D	BLK		NOT USED	MS 06/02/14		Soil	1	1	8082	05/30 19:19
2G90234.D	CAL 1660@1000PP		OK	MS 06/02/14		Soil	0.5	1	608\808	05/30 19:34
2G90235.D	2000PPB		NOT USED	MS 06/02/14		Soil	0.25	1	8082	05/30 19:50
2G90236.D	AC78863-004		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 20:05
2G90237.D	AC78879-001		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 20:20
2G90238.D	AC78854-014		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 20:35
2G90239.D	AC78854-009		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 20:50
2G90240.D	AC78854-006		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 21:05
2G90241.D	SMB33946		OK	MS 06/02/14		Soil	1	1	8082	05/30 21:20
2G90242.D	SMB33946(MS)		OK SMB33946	MS 06/02/14		Soil	1	1	8082	05/30 21:35
2G90243.D	BLK		NOT USED	MS 06/02/14		Soil	1	1	8082	05/30 21:51
2G90244.D	BLK		NOT USED	MS 06/02/14		Soil	1	1	8082	05/30 22:06
2G90245.D	1000PPB		NOT USED	MS 06/02/14		Soil	0.5	1	8082	05/30 22:21
2G90246.D	CAL 1660@2000PP		OK	MS 06/02/14		Soil	0.25	1	608\808	05/30 22:36
2G90247.D	AC78854-001		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 22:51
2G90248.D	AC78895-002		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 23:06
2G90249.D	AC78793-002		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 23:21
2G90250.D	AC78854-017		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 23:36
2G90251.D	AC78829-013		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/30 23:51
2G90252.D	AC78829-004		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/31 00:06
2G90253.D	AC78829-006		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/31 00:21
2G90254.D	AC78829-007		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/31 00:37
2G90255.D	AC78829-008		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/31 00:52
2G90256.D	AC78829-010		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/31 01:07
2G90257.D	AC78829-012		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/31 01:22
2G90258.D	AC78862-001		OK,RR 5X	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/31 01:37
2G90259.D	AC78863-002		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	05/31 01:52
2G90260.D	AC78863-009		OK	MS 06/02/14		Soil	1	1	8082	05/31 02:07
2G90261.D	BLK		NOT USED	MS 06/02/14		Soil	1	1	8082	05/31 02:22
2G90262.D	BLK		NOT USED	MS 06/02/14		Soil	1	1	8082	05/31 02:37
2G90263.D	BLK		NOT USED	MS 06/02/14		Soil	1	1	8082	05/31 02:53

Anc	Area Not Checked	Fp	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Ftn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for epb
B8m	Blank 8000 series missing	Fto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: G(4052101 1173
Analyst: MAS

1-1-2G90264

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2G90264.D	CAL 1660@1000PPC16C18		OK	MS 06/02/14		Soil	0.5	1	608\808	05/31 03:08
2G90265.D	2000PPB	Cme	NOT USED	MS 06/02/14		Soil	0.25	1	8082	05/31 03:23

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
An	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for epb
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method.	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series).

RUN LOG

Instrument: GC 4052101 1174
Analyst: MLC/MAS

1-1-3G84623

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G84623.D	CAL 1660@2000PP		OK,V-184983	MS 06/02/14		Aqueous	0.25	1	608\808	06/02 09:06
3G84624.D	MB		RR	MS 06/02/14		Aqueous	1	1	608\808	06/02 09:56
3G84625.D	AC78895-003		RE-EXT	MS 06/02/14	PCB-8082	Aqueous	1	1	8082	06/02 10:10
3G84626.D	TEST	S6S8	NOT USED	MS 06/02/14		Aqueous	1	1	608\808	06/02 11:05
3G84627.D	AC78862-001(5X)		OK	MS 06/02/14	PCB-8082	Aqueous	5	5	8082	06/02 11:57
3G84628.D	SMB33963(MS)		OK SMB33963	MS 06/02/14		Soil	1	1	8082	06/02 13:46
3G84629.D	SMB33964(MS)		OK SMB33964	MS 06/02/14		Soil	1	1	8082	06/02 14:01
3G84630.D	SMB33963		OK	MS 06/02/14		Soil	1	1	8082	06/02 14:16
3G84631.D	SMB33964		OK	MS 06/02/14		Soil	1	1	8082	06/02 14:31
3G84632.D	AC78920-001		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	06/02 14:46
3G84633.D	AC78906-001		OK	MS 06/02/14	PCB-8082	Soil	1	1	8082	06/02 15:01
3G84634.D	AC78787-019(MS)		OK SMB33931	MS 06/02/14	PCB-8082	Soil	1	1	8082	06/02 15:16
3G84635.D	AC78787-019		OK SMB33931	MS 06/02/14	PCB-8082	Soil	1	1	8082	06/02 15:31
3G84636.D	AC78787-019(MSD)		OK SMB33931	MS 06/02/14	PCB-8082	Soil	1	1	8082	06/02 15:46
3G84637.D	CAL 1660@2000PP		OK	MS 06/02/14		Soil	0.25	1	608\808	06/02 16:19

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for epb
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-172949

Prepared By: Revolus, Jean
Description: PEST/PCB SURR
Prep Date: 9/18/2013
Expiration Date: 9/18/2014
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 09/24/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7364	Acetone	100 ml	neat neat	
7247	2,4,5,6-Tetrachloro-m-xylene	20 mg	neat neat	200 ppm
7246	Decachlorobiphenyl	20 mg	Neat neat	200 ppm

Veritech Lot Number: V-178425

Prepared By: Shah, Meghaben A.
Description: 2154 inter
Prep Date: 12/13/2013
Expiration Date: 6/13/2014
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: jean
ApproveDate: 12/13/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8333	Aroclor 1221	100 ul	1000 ppm	100 ppm
8337	Aroclor 1254	100 ul	1000 ppm	100 ppm
V-172949	PEST/PCB SURR	50 ul	200 ppm	10 ppm
8172	n-hexane	750 ul	neat neat	

Veritech Lot Number: V-178426

Prepared By: Shah, Meghaben A.
Description: CAL 2154@500PPB
Prep Date: 12/13/2013
Expiration Date: 6/13/2014
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 12/13/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-178425	2154 inter	50 ul	100 ppm	500 ppb
8172	n-hexane	9950 ul	neat neat	

Veritech Lot Number: V-178427

Prepared By: Shah, Meghaben A.
Description: 1262 inter
Prep Date: 12/13/2013
Expiration Date: 6/13/2014
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: jean
ApproveDate: 12/13/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8338	Aroclor 1262	100 ul	1000 ppm	100 ppm
V-172949	PEST/PCB SURR	50 ul	200 ppm	10 ppm
8172	n-hexane	850 ul	neat neat	

Veritech Lot Number: V-178428

Prepared By: Shah, Meghaben A.
Description: CAL 1262@500PPB
Prep Date: 12/13/2013
Expiration Date: 6/13/2014
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 12/13/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-178427	1262 inter	50 ul	100 ppm	500 ppb
8172	n-hexane	9950 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-184589

Prepared By: Ceus, Mahalia
Description: PCB SPIKE
Prep Date: 4/4/2014
Expiration Date: 10/4/2014
Department: Organics
BatchNumber: B-17180
Concentration: 100 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 04/16/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8591	Acetone	80 ml	neat neat	
7759	Aroclor 1016	10 ml	1000 ppm	100 ppm
8370	Aroclor 1260	10 ml	1000 ppm	100 ppm

Veritech Lot Number: V-184980

Prepared By: Shah, Meghaben A.
Description: 1660 INTERMEDIATE
Prep Date: 4/3/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 04/15/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8140	Hexane	3750 ul	neat neat	
7711	Aroclor 1016	500 ul	1000 ppm	1000 ppm
7710	Aroclor 1260	500 ul	1000 ppm	1000 ppm
V-172949	PEST/PCB SURR	250 ul	200 ppm	10 ppm

Veritech Lot Number: V-184981

Prepared By: Shah, Meghaben A.
Description: CAL 1660@50PPB
Prep Date: 4/3/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber: B-17213
Concentration: 50 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/15/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8140	Hexane	9000 ul	neat neat	
V-184985	CAL 1660@500PPB	1000 ul	500 ppb	50 ppb

Veritech Lot Number: V-184982

Prepared By: Shah, Meghaben A.
Description: CAL 1660@4000PPB
Prep Date: 4/3/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber: B-17213
Concentration: 4000 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 04/15/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-184980	1660 INTERMEDIATE	2000 ul	100 ppm	4000 ppb
8140	Hexane	48000 ul	neat neat	

Veritech Lot Number: V-184983

Prepared By: Shah, Meghaben A.
Description: CAL 1660@2000PPB
Prep Date: 4/3/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber: B-17213
Concentration: 2000 ppb
Final Volume: 75 ml
ApprovedBy: akmal
ApproveDate: 04/15/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-184980	1660 INTERMEDIATE	1500 ul	100 ppm	2000 ppb
8140	Hexane	73500 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-184984

Prepared By: Shah, Meghaben A.
Description: CAL 1660@1000PPB
Prep Date: 4/3/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber: B-17213
Concentration: 1000 ppb
Final Volume: 75 ml
ApprovedBy: akmal
ApproveDate: 04/15/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-184980	1660 INTERMEDIATE	750 ul	100 ppm	1000 ppb
8140	Hexane	74250 ul	neat neat	

Veritech Lot Number: V-184985

Prepared By: Shah, Meghaben A.
Description: CAL 1660@500PPB
Prep Date: 4/3/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber: B-17213
Concentration: 500 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 04/15/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-184980	1660 INTERMEDIATE	250 ul	100 ppm	500 ppb
8140	Hexane	49750 ul	neat neat	

Veritech Lot Number: V-184986

Prepared By: Shah, Meghaben A.
Description: CAL 1660@200PPB
Prep Date: 4/3/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber: B-17213
Concentration: 200 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/15/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-184983	CAL 1660@2000PPB	1000 ul	2000 ppb	200 ppb
8140	Hexane	9000 ul	neat neat	

Veritech Lot Number: V-185082

Prepared By: Ceus, Mahalia
Description: ICV-PCB
Prep Date: 4/14/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber:
Concentration: 1000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/15/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-172949	PEST/PCB SURR	5 ul	200 ppm	100 ppb
V-184589	PCB SPIKE	9895 ul	100 ppm	1000 ppb

Veritech Lot Number: V-185679

Prepared By: Ceus, Mahalia
Description: 3268 inter
Prep Date: 4/14/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7388	Aroclor1232	100 ul	1000 ppm	100 ppm
7380	Aroclor1268	100 ul	1000 ppm	100 ppm
V-172949	PEST/PCB SURR	50 ul	200 ppm	10 ppm
8320	n-hexane	750 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-185680

Prepared By: Ceus, Mahalia
Description: CAL 3268@500PPB
Prep Date: 4/14/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-185679	3268 inter	50 ul	100 ppm	500 ppb
8320	n-hexane	9950 ul	neat neat	

Veritech Lot Number: V-185681

Prepared By: Ceus, Mahalia
Description: 1242 inter
Prep Date: 4/14/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8335	Aroclor 1242	100 ul	1000 ppm	100 ppm
V-172949	PEST/PCB SURR	50 ul	200 ppm	10 ppm
8320	n-hexane	850 ul	neat neat	

Veritech Lot Number: V-185682

Prepared By: Ceus, Mahalia
Description: CAL 1242@500PPB
Prep Date: 4/14/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-185681	1242 inter	50 ul	100 ppm	500 ppb
8320	n-hexane	9950 ul	neat neat	

Veritech Lot Number: V-185683

Prepared By: Ceus, Mahalia
Description: 1248 inter
Prep Date: 4/14/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8336	Aroclor 1248	100 ul	1000 ppm	100 ppm
V-172949	PEST/PCB SURR	50 ul	200 ppm	10 ppm
8320	n-hexane	850 ul	neat neat	

Veritech Lot Number: V-185684

Prepared By: Ceus, Mahalia
Description: CAL 1248@500PPB
Prep Date: 4/14/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-185683	1248 inter	50 ul	100 ppm	500 ppb
8320	n-hexane	9950 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-186046

Prepared By:	Ceus, Mahalia	Department:	Organics	ApprovedBy:	jean
Description:	PEST/PCB SURR	BatchNumber:		ApproveDate:	04/30/14
Prep Date:	4/28/2014	Concentration:	10 ppm	Checked:	Yes
Expiration Date:	9/18/2014	Final Volume:	500 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-172949	PEST/PCB SURR	25 ml	200 ppm	10 ppm
8645	Acetone	475 ml	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7246

Description
Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 08/16/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2537	LB93097V	08/16/12	05/31/15	Hamid, Akmal	2	100m	Neat	Neat

Veritech Control/Receipt Number: 7247

Description
2,4,5,6-Tetrachloro-m-xylene

ApprovedBy: akmal
ApproveDate: 08/16/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2298	LB87361V	08/16/12	09/30/14	Hamid, Akmal	1	1000	neat	neat

Veritech Control/Receipt Number: 7364

Description
Acetone

ApprovedBy: richq
ApproveDate: 10/10/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	A40-4	124104	10/10/12	10/09/14	Quimby, Richard	1	4L	neat	neat

Veritech Control/Receipt Number: 7380

Description
Aroclor1268

ApprovedBy: akmal
ApproveDate: 10/19/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	32410	A087817	10/18/12	07/31/18	Hamid, Akmal	1	1ml	1000	ppm

Veritech Control/Receipt Number: 7388

Description
Aroclor1232

ApprovedBy: akmal
ApproveDate: 10/19/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4-4805	LB78773	10/18/12	09/30/15	Hamid, Akmal	1	1ml	1000	ppm

Veritech Control/Receipt Number: 7710

Description
Aroclor 1260

ApprovedBy: akmal
ApproveDate: 02/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4-4809	LB92109	02/20/13	04/30/15	Hamid, Akmal	1	1ml	1000	ppm

Veritech Control/Receipt Number: 7711

Description
Aroclor 1016

ApprovedBy: akmal
ApproveDate: 02/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4-8097	LB95199	02/20/13	09/30/15	Hamid, Akmal	1	1ml	1000	ppm

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7759

Description
Aroclor 1016

ApprovedBy: jean
ApproveDate: 03/11/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-216S-H-10X-PAK	212061353	03/07/13	06/29/22	Revolus, Jean	10	1ml	1000	PPM

Veritech Control/Receipt Number: 8140

Description
Hexane

ApprovedBy: jean
ApproveDate: 09/29/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H303-4	134316	09/18/13	07/31/18	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 8172

Description
n-hexane

ApprovedBy: aurora
ApproveDate: 10/11/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H306-4	133970	10/04/13	07/31/18	Lopez, Jose	22	4L	neat	neat

Veritech Control/Receipt Number: 8320

Description
n-hexane

ApprovedBy: jean
ApproveDate: 01/08/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H306-4	133465	12/06/13	07/31/18	Lopez, Jose	19	4L	neat	neat

Veritech Control/Receipt Number: 8333

Description
Aroclor 1221

ApprovedBy: akmal
ApproveDate: 12/12/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4-8098	LB98893	12/12/13	05/31/16	Hamid, Akmal	1	1ml	1000	ppm

Veritech Control/Receipt Number: 8335

Description
Aroclor 1242

ApprovedBy: akmal
ApproveDate: 12/12/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4-4806	LB88851	12/12/13	11/30/14	Hamid, Akmal	1	1ml	1000	ppm

Veritech Control/Receipt Number: 8336

Description
Aroclor 1248

ApprovedBy: akmal
ApproveDate: 12/12/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4-4807	LB88969	12/12/13	01/31/15	Hamid, Akmal	1	1ml	1000	ppm

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8337

Description
Aroclor 1254

ApprovedBy: akmal
ApproveDate: 12/12/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4-4808	LB98272	12/12/13	02/28/16	Hamid, Akmal	1	1ml	1000	ppm

Veritech Control/Receipt Number: 8338

Description
Aroclor 1262

ApprovedBy: akmal
ApproveDate: 12/12/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4-4810	LB95196	12/12/13	09/30/15	Hamid, Akmal	1	1ml	1000	ppm

Veritech Control/Receipt Number: 8370

Description
Aroclor 1260

ApprovedBy: jean
ApproveDate: 12/27/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-260S-H-10X-PAK	212101200	12/27/13	10/30/22	Revolus, Jean	10	1ml	1000	PPM

Veritech Control/Receipt Number: 8591

Description
Acetone

ApprovedBy: jean
ApproveDate: 04/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	64130	03/24/14	10/22/16	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 8645

Description
Acetone

ApprovedBy: jean
ApproveDate: 04/20/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	64130	04/15/14	11/07/16	Lopez, Jose	24	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8662

Description
Methylene Chloride

ApprovedBy: jean
ApproveDate: 05/02/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9464-03	73090	04/28/14	05/15/15	Lopez, Jose	120	4L	neat	neat

Veritech Control/Receipt Number: 8663

Description
Acetone

ApprovedBy: jean
ApproveDate: 05/02/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	65382	04/28/14	11/26/16	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 8665

Description
Sodium Sulfate

ApprovedBy: jean
ApproveDate: 05/02/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Seidler	SC-3375-1C	342501	04/28/14	04/27/19	Lopez, Jose	4	100L	neat	neat

Veritech Control/Receipt Number: 8677

Description
Hexanes

ApprovedBy: jean
ApproveDate: 05/05/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H300-4	141536	05/05/14	04/30/19	Lopez, Jose	40	4L	neat	neat

GC Pesticide Data

GC Pesticide Data
QC Summary

FORM2

Surrogate Recovery Method: EPA 8081B

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
5G51676.D	WMB30773	Aqueous	05/06/14 10:23	1		43	41	89	84		
6G49174.D	WMB33880	Aqueous	05/23/14 09:35	1		82	76	98	105		
6G49281.D	SMB33930	Soil	05/29/14 00:28	1		79	70	83	79		
6G49323.D	SMB33933	Soil	05/30/14 00:46	1		97	89	101	99		
6G49339.D	AC78787-001	Soil	05/30/14 05:25	1		81	72	73	94		
6G49340.D	AC78787-002	Soil	05/30/14 05:42	1		65	64	84	56		
5G51961.D	AC78787-003	Aqueous	05/23/14 12:33	1		61	61	97	99		
5G51962.D	AC78787-005	Aqueous	05/23/14 12:51	1		82	85	96	99		
6G49336.D	AC78787-007	Soil	05/30/14 04:32	1		70	65	71	73		
5G52076.D	AC78787-008	Soil	05/30/14 01:20	1		86	100	105	108		
5G51963.D	AC78787-009	Aqueous	05/23/14 13:08	1		68	68	91	94		
5G51964.D	AC78787-011	Aqueous	05/23/14 13:26	1		60	60	94	99		
6G49335.D	AC78787-014	Soil	05/30/14 04:15	1		93	88	89	90		
6G49334.D	AC78787-015	Soil	05/30/14 03:58	1		85	83	83	93		
5G51965.D	AC78787-016	Aqueous	05/23/14 13:44	1		60	63	87	97		
5G52075.D	AC78787-018	Soil	05/30/14 01:02	1		70	69	96	101		
5G52101.D	AC78787-019	Soil	05/30/14 10:54	1		52	54	57	55		
5G52080.D	AC78787-020	Soil	05/30/14 02:31	1		73	79	85	85		
6G49337.D	AC78787-021	Soil	05/30/14 04:50	1		67	56	66	61		
5G52094.D	AC78787-022	Soil	05/30/14 06:39	1		71	71	87	86		
5G52079.D	AC78787-023	Soil	05/30/14 02:13	1		70	76	80	81		
5G52078.D	AC78787-024	Soil	05/30/14 01:55	1		75	78	86	91		
6G49330.D	AC78787-025	Soil	05/30/14 02:48	1		81	74	81	82		
5G52077.D	AC78787-026	Soil	05/30/14 01:37	1		65	69	76	78		
5G51677.D	WMB30773(M	Aqueous	05/06/14 10:41	1		64	62	99	98		
5G51678.D	AC78482-005(	Aqueous	05/06/14 10:59	1		52	47	61	55		
5G51679.D	AC78482-005(	Aqueous	05/06/14 11:16	1		61	56	70	63		
5G51681.D	AC78482-005	Aqueous	05/06/14 11:52	1		53	48	67	60		
5G52097.D	AC78787-008(	Soil	05/30/14 09:43	1		86	93	102	101		
5G52098.D	AC78787-008(	Soil	05/30/14 10:01	1		83	82	101	103		
6G49175.D	WMB33880(M	Aqueous	05/23/14 09:52	1		67	62	96	99		
6G49282.D	SMB33930(M	Soil	05/29/14 00:45	1		81	76	85	83		
6G49326.D	SMB33933(M	Soil	05/30/14 01:38	1		97	94	101	97		
6G49346.D	AC78787-019(	Soil	05/30/14 10:08	1		85	80	76	83		
6G49347.D	AC78787-019(	Soil	05/30/14 10:25	1		80	75	69	80		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8081B

Soil Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	37-141
S2=TCMX-Surrogate	100	37-141
S3=DCB-Surrogate	100	33-146
S4=DCB-Surrogate	100	33-146

Aqueous Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	39-132
S2=TCMX-Surrogate	100	39-132
S3=DCB-Surrogate	100	39-142
S4=DCB-Surrogate	100	39-142

Form3
Recovery Data
QC Batch: WMB30773

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G51677.D	WMB30773(MS)	5/6/2014 10:41:23 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	84.01	0	100	84	50	130
gamma-BHC	2	86.48	0	100	86	50	130
beta-BHC	2	86.86	0	100	87	50	130
Heptachlor	2	86.69	0	100	87	50	130
delta-BHC	2	90.46	0	100	90	50	130
Aldrin	2	84.93	0	100	85	70	130
Heptachlor Epoxide	2	89.67	0	100	90	70	130
Endosulfan I	2	93.05	0	100	93	70	130
p,p'-DDE	2	93.59	0	100	94	70	130
Dieldrin	2	95.74	0	100	96	70	130
Endrin	2	102.02	0	100	102	70	130
p,p'-DDD	2	98.39	0	100	98	70	130
Endosulfan II	2	95.44	0	100	95	70	130
p,p'-DDT	2	102.63	0	100	103	70	130
Endrin Aldehyde	2	92.34	0	100	92	50	130
Endosulfan Sulfate	2	92.84	0	100	93	70	130
Methoxychlor	2	95.15	0	100	95	50	130
Endrin Ketone	2	101.76	0	100	102	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: WMB33880

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G49175.D	WMB33880(MS)	5/23/2014 9:52:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	71.64	0	100	72	50	130
gamma-BHC	2	79.22	0	100	79	50	130
beta-BHC	2	83.62	0	100	84	50	130
Heptachlor	2	72.65	0	100	73	50	130
delta-BHC	2	75.99	0	100	76	50	130
Aldrin	2	69.59	0	100	70	70	130
Heptachlor Epoxide	2	80.34	0	100	80	70	130
Endosulfan I	2	82.53	0	100	83	70	130
p,p'-DDE	2	85.34	0	100	85	70	130
Dieldrin	2	89.12	0	100	89	70	130
Endrin	2	96.59	0	100	97	70	130
p,p'-DDD	2	92.39	0	100	92	70	130
Endosulfan II	2	98.97	0	100	99	70	130
p,p'-DDT	2	98.97	0	100	99	70	130
Endrin Aldehyde	2	91.18	0	100	91	50	130
Endosulfan Sulfate	2	103.48	0	100	103	70	130
Methoxychlor	2	106.99	0	100	107	50	130
Endrin Ketone	2	95.46	0	100	95	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: SMB33930

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G49282.D	SMB33930(MS)	5/29/2014 12:45:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	82.96	0	100	83	60	130
gamma-BHC	2	92.11	0	100	92	60	130
beta-BHC	2	90.47	0	100	90	60	130
Heptachlor	2	92.63	0	100	93	60	130
delta-BHC	2	79.78	0	100	80	60	130
Aldrin	2	87.07	0	100	87	70	130
Heptachlor Epoxide	2	89.13	0	100	89	70	130
Endosulfan I	2	91.26	0	100	91	70	130
p,p'-DDE	2	91.14	0	100	91	70	130
Dieldrin	2	93.27	0	100	93	70	130
Endrin	2	106.43	0	100	106	70	130
p,p'-DDD	2	89.3	0	100	89	70	130
Endosulfan II	2	94.01	0	100	94	70	130
p,p'-DDT	2	92.97	0	100	93	70	130
Endrin Aldehyde	2	75.33	0	100	75	10	130
Endosulfan Sulfate	2	87.28	0	100	87	70	130
Methoxychlor	2	101.64	0	100	102	60	130
Endrin Ketone	2	93.22	0	100	93	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: SMB33933

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G49326.D	SMB33933(MS)	5/30/2014 1:38:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	100.74	0	100	101	60	130
gamma-BHC	2	109.85	0	100	110	60	130
beta-BHC	2	107.41	0	100	107	60	130
Heptachlor	2	108.47	0	100	108	60	130
delta-BHC	2	96.54	0	100	97	60	130
Aldrin	2	103.83	0	100	104	70	130
Heptachlor Epoxide	2	104.2	0	100	104	70	130
Endosulfan I	2	107.57	0	100	108	70	130
p,p'-DDE	2	108.45	0	100	108	70	130
Dieldrin	2	110.71	0	100	111	70	130
Endrin	2	117.91	0	100	118	70	130
p,p'-DDD	2	103.93	0	100	104	70	130
Endosulfan II	2	111.1	0	100	111	70	130
p,p'-DDT	2	112.85	0	100	113	70	130
Endrin Aldehyde	2	45.2	0	100	45	10	130
Endosulfan Sulfate	2	107.65	0	100	108	70	130
Methoxychlor	2	119.2	0	100	119	60	130
Endrin Ketone	2	105.85	0	100	106	70	130

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Form3
Recovery Data
QC Batch: WMB30773

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G51678.D	AC78482-005(MS)	5/6/2014 10:59:07 AM
Non Spike(If applicable):	5G51681.D	AC78482-005	5/6/2014 11:52:32 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	67.17	0	100	67	50	130
gamma-BHC	2	74.34	0	100	74	50	130
beta-BHC	2	64.23	0	100	64	50	130
Heptachlor	2	77.45	0	100	77	50	130
delta-BHC	2	79.61	0	100	80	50	130
Aldrin	2	73.49	0	100	73	70	130
Heptachlor Epoxide	2	77.97	0	100	78	70	130
Endosulfan I	2	77.72	0	100	78	70	130
p,p'-DDE	2	81.47	0	100	81	70	130
Dieldrin	2	111.45	0	100	111	70	130
Endrin	2	112.77	0	100	113	70	130
p,p'-DDD	2	85.36	0	100	85	70	130
Endosulfan II	2	81.36	0	100	81	70	130
p,p'-DDT	2	91.9	0	100	92	70	130
Endrin Aldehyde	2	70.29	0	100	70	50	130
Endosulfan Sulfate	2	78.82	0	100	79	70	130
Methoxychlor	2	98.5	0	100	98	50	130
Endrin Ketone	2	87.46	0	100	87	70	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G51679.D	AC78482-005(MSD)	5/6/2014 11:16:54 AM
Non Spike(If applicable):	5G51681.D	AC78482-005	5/6/2014 11:52:32 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	76.4	0	100	76	50	130
gamma-BHC	2	83.46	0	100	83	50	130
beta-BHC	2	73.93	0	100	74	50	130
Heptachlor	2	92.7	0	100	93	50	130
delta-BHC	2	92.45	0	100	92	50	130
Aldrin	2	83.67	0	100	84	70	130
Heptachlor Epoxide	2	87.48	0	100	87	70	130
Endosulfan I	2	86.16	0	100	86	70	130
p,p'-DDE	2	91.39	0	100	91	70	130
Dieldrin	2	127.98	0	100	128	70	130
Endrin	2	136.36	0	100	136 *	70	130
p,p'-DDD	2	104.65	0	100	105	70	130
Endosulfan II	2	99.09	0	100	99	70	130
p,p'-DDT	2	103.64	0	100	104	70	130
Endrin Aldehyde	2	80.07	0	100	80	50	130
Endosulfan Sulfate	2	89.39	0	100	89	70	130
Methoxychlor	2	112.59	0	100	113	50	130
Endrin Ketone	2	100.44	0	100	100	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: WMB30773

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G51679.D	AC78482-005(MSD)	5/6/2014 11:16:54 AM
Duplicate(If applicable):	5G51678.D	AC78482-005(MS)	5/6/2014 10:59:07 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	2	76.4	67.17	13	40
gamma-BHC	2	83.46	74.34	12	40
beta-BHC	2	73.93	64.23	14	40
Heptachlor	2	92.7	77.45	18	40
delta-BHC	2	92.45	79.61	15	40
Aldrin	2	83.67	73.49	13	40
Heptachlor Epoxide	2	87.48	77.97	11	40
Endosulfan I	2	86.16	77.72	10	40
p,p'-DDE	2	91.39	81.47	11	40
Dieldrin	2	127.98	111.45	14	40
Endrin	2	136.36	112.77	19	40
p,p'-DDD	2	104.65	85.36	20	40
Endosulfan II	2	99.09	81.36	20	40
p,p'-DDT	2	103.64	91.9	12	40
Endrin Aldehyde	2	80.07	70.29	13	40
Endosulfan Sulfate	2	89.39	78.82	13	40
Methoxychlor	2	112.59	98.5	13	40
Endrin Ketone	2	100.44	87.46	14	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data
QC Batch: SMB33930

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G49346.D	AC78787-019(MS)	5/30/2014 10:08:00 AM
Non Spike(If applicable):	5G52101.D	AC78787-019	5/30/2014 10:54:51 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	90.9	0	100	91	60	130
gamma-BHC	2	102.86	0	100	103	60	130
beta-BHC	2	102.98	0	100	103	60	130
Heptachlor	2	112.39	0	100	112	60	130
delta-BHC	2	90.68	0	100	91	60	130
Aldrin	2	91.02	0	100	91	70	130
Heptachlor Epoxide	2	93.15	0	100	93	70	130
Endosulfan I	2	93.63	0	100	94	70	130
p,p'-DDE	2	91.26	0	100	91	70	130
Dieldrin	2	98.72	0	100	99	70	130
Endrin	2	115.32	0	100	115	70	130
p,p'-DDD	2	88.53	0	100	89	70	130
Endosulfan II	2	90.48	0	100	90	70	130
p,p'-DDT	2	93.62	0	100	94	70	130
Endrin Aldehyde	2	81.82	0	100	82	10	130
Endosulfan Sulfate	2	84.5	0	100	84	70	130
Methoxychlor	2	104.1	0	100	104	60	130
Endrin Ketone	2	92.77	0	100	93	70	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G49347.D	AC78787-019(MSD)	5/30/2014 10:25:00 AM
Non Spike(If applicable):	5G52101.D	AC78787-019	5/30/2014 10:54:51 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	84.08	0	100	84	60	130
gamma-BHC	2	94.03	0	100	94	60	130
beta-BHC	2	97.8	0	100	98	60	130
Heptachlor	2	104.19	0	100	104	60	130
delta-BHC	2	81.33	0	100	81	60	130
Aldrin	2	80.96	0	100	81	70	130
Heptachlor Epoxide	2	83.64	0	100	84	70	130
Endosulfan I	2	82.12	0	100	82	70	130
p,p'-DDE	2	79.93	0	100	80	70	130
Dieldrin	2	98.09	0	100	98	70	130
Endrin	2	103.49	0	100	103	70	130
p,p'-DDD	2	78.21	0	100	78	70	130
Endosulfan II	2	83.41	0	100	83	70	130
p,p'-DDT	2	85.73	0	100	86	70	130
Endrin Aldehyde	2	76.74	0	100	77	10	130
Endosulfan Sulfate	2	79.4	0	100	79	70	130
Methoxychlor	2	86.73	0	100	87	60	130
Endrin Ketone	2	82.76	0	100	83	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: SMB33930

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G49347.D	AC78787-019(MSD)	5/30/2014 10:25:00 AM
Duplicate(If applicable):	6G49346.D	AC78787-019(MS)	5/30/2014 10:08:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	2	84.08	90.9	7.8	40
gamma-BHC	2	94.03	102.86	9	40
beta-BHC	2	97.8	102.98	5.2	40
Heptachlor	2	104.19	112.39	7.6	40
delta-BHC	2	81.33	90.68	11	40
Aldrin	2	80.96	91.02	12	40
Heptachlor Epoxide	2	83.64	93.15	11	40
Endosulfan I	2	82.12	93.63	13	40
p,p'-DDE	2	79.93	91.26	13	40
Dieldrin	2	98.09	98.72	0.64	40
Endrin	2	103.49	115.32	11	40
p,p'-DDD	2	78.21	88.53	12	40
Endosulfan II	2	83.41	90.48	8.1	40
p,p'-DDT	2	85.73	93.62	8.8	40
Endrin Aldehyde	2	76.74	81.82	6.4	40
Endosulfan Sulfate	2	79.4	84.5	6.2	40
Methoxychlor	2	86.73	104.1	18	40
Endrin Ketone	2	82.76	92.77	11	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data
QC Batch: SMB33933

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G52097.D	AC78787-008(MS)	5/30/2014 9:43:49 AM
Non Spike(If applicable):	5G52076.D	AC78787-008	5/30/2014 1:20:01 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	101.03	0	100	101	60	130
gamma-BHC	2	103.99	0	100	104	60	130
beta-BHC	2	108.96	0	100	109	60	130
Heptachlor	2	127.69	0	100	128	60	130
delta-BHC	2	105.22	0	100	105	60	130
Aldrin	2	101.05	0	100	101	70	130
Heptachlor Epoxide	2	105.95	0	100	106	70	130
Endosulfan I	2	110.79	0	100	111	70	130
p,p'-DDE	2	110.72	0	100	111	70	130
Dieldrin	2	116.67	0	100	117	70	130
Endrin	2	145.73	0	100	146 *	70	130
p,p'-DDD	2	123.75	0	100	124	70	130
Endosulfan II	2	122.08	0	100	122	70	130
p,p'-DDT	2	131.3	0	100	131 *	70	130
Endrin Aldehyde	2	84.96	0	100	85	10	130
Endosulfan Sulfate	2	113.59	0	100	114	70	130
Methoxychlor	2	148.84	0	100	149 *	60	130
Endrin Ketone	2	113.26	0	100	113	70	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G52098.D	AC78787-008(MSD)	5/30/2014 10:01:32 AM
Non Spike(If applicable):	5G52076.D	AC78787-008	5/30/2014 1:20:01 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	100.9	0	100	101	60	130
gamma-BHC	2	106.1	0	100	106	60	130
beta-BHC	2	109.98	0	100	110	60	130
Heptachlor	2	128.12	0	100	128	60	130
delta-BHC	2	107.59	0	100	108	60	130
Aldrin	2	104.12	0	100	104	70	130
Heptachlor Epoxide	2	112.17	0	100	112	70	130
Endosulfan I	2	114.88	0	100	115	70	130
p,p'-DDE	2	117.19	0	100	117	70	130
Dieldrin	2	123.75	0	100	124	70	130
Endrin	2	154.73	0	100	155 *	70	130
p,p'-DDD	2	134.42	0	100	134 *	70	130
Endosulfan II	2	128.5	0	100	128	70	130
p,p'-DDT	2	139.47	0	100	139 *	70	130
Endrin Aldehyde	2	91.14	0	100	91	10	130
Endosulfan Sulfate	2	122.22	0	100	122	70	130
Methoxychlor	2	157.86	0	100	158 *	60	130
Endrin Ketone	2	121.17	0	100	121	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: SMB33933

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G52098.D	AC78787-008(MSD)	5/30/2014 10:01:32 AM
Duplicate(If applicable):	5G52097.D	AC78787-008(MS)	5/30/2014 9:43:49 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	2	100.9	101.03	0.13	40
gamma-BHC	2	106.1	103.99	2	40
beta-BHC	2	109.98	108.96	0.93	40
Heptachlor	2	128.12	127.69	0.34	40
delta-BHC	2	107.59	105.22	2.2	40
Aldrin	2	104.12	101.05	3	40
Heptachlor Epoxide	2	112.17	105.95	5.7	40
Endosulfan I	2	114.88	110.79	3.6	40
p,p'-DDE	2	117.19	110.72	5.7	40
Dieldrin	2	123.75	116.67	5.9	40
Endrin	2	154.73	145.73	6	40
p,p'-DDD	2	134.42	123.75	8.3	40
Endosulfan II	2	128.5	122.08	5.1	40
p,p'-DDT	2	139.47	131.3	6	40
Endrin Aldehyde	2	91.14	84.96	7	40
Endosulfan Sulfate	2	122.22	113.59	7.3	40
Methoxychlor	2	157.86	148.84	5.9	40
Endrin Ketone	2	121.17	113.26	6.7	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: WMB30773
Blank Data File: 5G51676.D
Matrix: Aqueous

Blank Analysis Date: 05/06/14 10:23
Blank Extraction Date: 05/05/14
(If Applicable)
Method: EPA 8081B

Sample Number	Data File	Analysis Date
AC78482-005	5G51681.D	05/06/14 11:52
AC78482-005(MSD	5G51679.D	05/06/14 11:16
AC78482-005(MS)	5G51678.D	05/06/14 10:59
WMB30773(MS)	5G51677.D	05/06/14 10:41

FORM 4
Blank Summary

Blank Number: WMB33880
Blank Data File: 6G49174.D
Matrix: Aqueous

Blank Analysis Date: 05/23/14 09:35
Blank Extraction Date: 05/22/14
(If Applicable)
Method: EPA 8081B

Sample Number	Data File	Analysis Date
AC78787-003	5G51961.D	05/23/14 12:33
AC78787-005	5G51962.D	05/23/14 12:51
AC78787-009	5G51963.D	05/23/14 13:08
AC78787-011	5G51964.D	05/23/14 13:26
AC78787-016	5G51965.D	05/23/14 13:44
WMB33880(MS)	6G49175.D	05/23/14 09:52

FORM 4
Blank Summary

Blank Number: SMB33930
Blank Data File: 6G49281.D
Matrix: Soil

Blank Analysis Date: 05/29/14 00:28
Blank Extraction Date: 05/28/14
(If Applicable)
Method: EPA 8081B

Sample Number	Data File	Analysis Date
AC78787-001	6G49339.D	05/30/14 05:25
AC78787-002	6G49340.D	05/30/14 05:42
AC78787-007	6G49336.D	05/30/14 04:32
AC78787-019	5G52101.D	05/30/14 10:54
AC78787-020	5G52080.D	05/30/14 02:31
AC78787-021	6G49337.D	05/30/14 04:50
AC78787-022	5G52094.D	05/30/14 06:39
AC78787-023	5G52079.D	05/30/14 02:13
AC78787-024	5G52078.D	05/30/14 01:55
AC78787-025	6G49330.D	05/30/14 02:48
AC78787-026	5G52077.D	05/30/14 01:37
AC78787-019(MS)	6G49346.D	05/30/14 10:08
AC78787-019(MSD	6G49347.D	05/30/14 10:25
SMB33930(MS)	6G49282.D	05/29/14 00:45

FORM 4
Blank Summary

Blank Number: SMB33933
Blank Data File: 6G49323.D
Matrix: Soil

Blank Analysis Date: 05/30/14 00:46
Blank Extraction Date: 05/29/14
(If Applicable)
Method: EPA 8081B

Sample Number	Data File	Analysis Date
AC78787-008	5G52076.D	05/30/14 01:20
AC78787-014	6G49335.D	05/30/14 04:15
AC78787-015	6G49334.D	05/30/14 03:58
AC78787-018	5G52075.D	05/30/14 01:02
SMB33933(MS)	6G49326.D	05/30/14 01:38
AC78787-008(MSD	5G52098.D	05/30/14 10:01
AC78787-008(MS)	5G52097.D	05/30/14 09:43

Form 5

Method: EPA 8081B

Instrument: GC_5 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
5G51409.D	EVAL	04/22/14 10:25	Soil					
5G51410.D	CAL EVAL	04/22/14 10:57	Soil					
5G51411.D	CAL CHLOR@100PPB	04/22/14 11:15	Soil	5G51413.	13.1872	0.0159	13.4966	0.003
5G51412.D	CAL TOX@500PPB	04/22/14 11:33	Soil	5G51413.	13.1865	0.0106	13.4977	0.0111
5G51413.D	CAL PEST@2PPB	04/22/14 11:50	Soil	5G51413.	13.1851	0	13.4962	0
5G51414.D	CAL PEST@10PPB	04/22/14 12:08	Soil	5G51413.	13.1848	0.0023	13.4956	0.0044
5G51415.D	CAL PEST@50PPB	04/22/14 12:26	Soil	5G51413.	13.1862	0.0083	13.4960	0.0015
5G51416.D	CAL PEST@100PPB	04/22/14 12:44	Soil	5G51413.	13.1858	0.0053	13.4965	0.0022
5G51417.D	CAL PEST@200PPB	04/22/14 13:01	Soil	5G51413.	13.1877	0.0197	13.4979	0.0126
5G51418.D	CAL PEST@400PPB	04/22/14 13:19	Soil	5G51413.	13.1887	0.0273	13.5006	0.0326
5G51419.D	CAL ICV	04/22/14 13:37	Soil	5G51413.	13.1877	0.0197	13.4971	0.0067
5G51420.D	AC78179-004(T)	04/22/14 13:55	Aqueous	5G51413.	13.1881	0.0228	13.4982	0.0148
5G51421.D	AC78179-005(T)	04/22/14 14:13	Aqueous	5G51413.	13.1888	0.0281	13.4999	0.0274
5G51422.D	AC78182-002(T)	04/22/14 14:30	Aqueous	5G51413.	13.1881	0.0228	13.4980	0.0133
5G51423.D	AC78075-005	04/22/14 14:48	Soil	5G51413.	13.1871	0.0152	13.4967	0.0037
5G51424.D	AC78075-006	04/22/14 15:06	Soil	5G51413.	13.1880	0.022	13.4991	0.0215
5G51425.D	AC78170-016	04/22/14 15:24	Soil	5G51413.	13.1881	0.0228	13.4987	0.0185
5G51426.D	AC78170-017	04/22/14 15:42	Soil	5G51413.	13.1880	0.022	13.4987	0.0185
5G51427.D	CAL PEST@200PPB	04/22/14 16:46	Soil	5G51413.	13.1847	0.003	13.4972	0.0074

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_5 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
5G51674.D	CAL EVAL	05/06/14 09:23	Aqueous					
5G51675.D	CAL PEST@100PPB	05/06/14 09:59	Aqueous	5G51675.	13.1849	0	13.4955	0
5G51676.D	WMB30773	05/06/14 10:23	Aqueous	5G51675.	13.1847	0.0015	13.4948	0.0052
5G51677.D	WMB30773(MS)	05/06/14 10:41	Aqueous	5G51675.	13.1796	0.0402	13.4933	0.0163
5G51678.D	AC78482-005(MS)	05/06/14 10:59	Aqueous	5G51675.	13.1796	0.0402	13.4930	0.0185
5G51679.D	AC78482-005(MSD)	05/06/14 11:16	Aqueous	5G51675.	13.1795	0.041	13.4940	0.0111
5G51680.D	AC78482-001	05/06/14 11:34	Aqueous	5G51675.	13.1793	0.0425	13.4950	0.0037
5G51681.D	AC78482-005	05/06/14 11:52	Aqueous	5G51675.	13.1802	0.0357	13.4939	0.0119
5G51682.D	AC78482-007	05/06/14 12:10	Aqueous	5G51675.	13.1791	0.044	13.4924	0.023
5G51683.D	AC78482-009	05/06/14 12:28	Aqueous	5G51675.	13.1804	0.0341	13.4943	0.0089
5G51684.D	AC78482-013	05/06/14 12:45	Aqueous	5G51675.	13.1793	0.0425	13.4937	0.0133
5G51685.D	AC78482-011	05/06/14 13:03	Aqueous	5G51675.	13.1797	0.0394	13.4941	0.0104
5G51686.D	CAL PEST@100PPB	05/06/14 15:57	Aqueous	5G51675.	13.1776	0.0554	13.4931	0.0178

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_6

Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G49163.D	BLANK	05/23/14 01:01	Aqueous					
6G49164.D	CAL EVAL	05/23/14 01:18	Aqueous					
6G49165.D	CAL PEST@2PPB	05/23/14 01:36	Aqueous	6G49165.	12.3613	0	12.6819	0
6G49166.D	CAL PEST@10PPB	05/23/14 01:53	Aqueous	6G49165.	12.3595	0.0146	12.6820	0.0008
6G49167.D	CAL PEST@50PPB	05/23/14 02:11	Aqueous	6G49165.	12.3588	0.0202	12.6816	0.0024
6G49168.D	CAL PEST@100PPB	05/23/14 02:28	Aqueous	6G49165.	12.3560	0.0429	12.6822	0.0024
6G49169.D	CAL PEST@200PPB	05/23/14 02:46	Aqueous	6G49165.	12.3550	0.051	12.6814	0.0039
6G49170.D	CAL PEST@400PPB	05/23/14 03:03	Aqueous	6G49165.	12.3533	0.0647	12.6802	0.0134
6G49171.D	CAL CHLOR @100PPB	05/23/14 03:21	Aqueous	6G49165.	12.3576	0.0299	12.6835	0.0126
6G49172.D	CAL TOX @500PPB	05/23/14 03:38	Aqueous	6G49165.	12.3590	0.0186	12.6834	0.0118
6G49173.D	ICV	05/23/14 03:56	Aqueous	6G49165.	12.3564	0.0397	12.6827	0.0063
6G49174.D	WMB33880	05/23/14 09:35	Aqueous	6G49165.	12.3626	0.0105	12.6805	0.011
6G49175.D	WMB33880(MS)	05/23/14 09:52	Aqueous	6G49165.	12.3568	0.0364	12.6811	0.0063
6G49176.D	AC78788-003	05/23/14 10:09	Aqueous	6G49165.	12.3539	0.0599	12.6799	0.0158
6G49177.D	AC78788-004	05/23/14 10:27	Aqueous	6G49165.	12.3524	0.072	12.6791	0.0221
6G49178.D	AC78788-005	05/23/14 10:44	Aqueous	6G49165.	12.3559	0.0437	12.6798	0.0166
6G49179.D	AC78788-007	05/23/14 11:02	Aqueous	6G49165.	12.3535	0.0631	12.6791	0.0221
6G49180.D	AC78799-001	05/23/14 11:19	Aqueous	6G49165.	12.3526	0.0704	12.6790	0.0229
6G49181.D	AC78793-001	05/23/14 11:37	Aqueous	6G49165.	12.3511	0.0826	12.6785	0.0268
6G49182.D	SMB33890	05/23/14 11:54	Soil	6G49165.	12.3549	0.0518	12.6815	0.0032
6G49183.D	SMB33890(MS)	05/23/14 12:12	Soil	6G49165.	12.3564	0.0397	12.6824	0.0039
6G49184.D	CAL PEST@200PPB	05/23/14 12:30	Soil	6G49165.	12.3563	0.0405	12.6831	0.0095
6G49185.D	CAL EVAL	05/23/14 12:58	Soil					

Drift Compound:

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_5 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
5G51946.D	BLK	05/23/14 01:01	Aqueous					
5G51947.D	CAL EVAL	05/23/14 01:19	Aqueous					
5G51948.D	CAL PEST@2PPB	05/23/14 01:36	Aqueous	5G51948.	13.1748	0	13.4896	0
5G51949.D	CAL PEST@10PPB	05/23/14 01:54	Aqueous	5G51948.	13.1743	0.0038	13.4901	0.0037
5G51950.D	CAL PEST@50PPB	05/23/14 02:12	Aqueous	5G51948.	13.1735	0.0099	13.4904	0.0059
5G51951.D	CAL PEST@100PPB	05/23/14 02:30	Aqueous	5G51948.	13.1736	0.0091	13.4888	0.0059
5G51952.D	CAL PEST@200PPB	05/23/14 02:47	Aqueous	5G51948.	13.1727	0.0159	13.4885	0.0082
5G51953.D	CAL PEST@400PPB	05/23/14 03:05	Aqueous	5G51948.	13.1731	0.0129	13.4894	0.0015
5G51954.D	CAL CHLOR@500PPB	05/23/14 03:23	Aqueous	5G51948.	13.1735	0.0099	13.4893	0.0022
5G51955.D	CAL TOX @500PPB	05/23/14 03:41	Aqueous	5G51948.	13.1735	0.0099	13.4893	0.0022
5G51956.D	ICV	05/23/14 03:58	Aqueous	5G51948.	13.1737	0.0083	13.4895	0.0007
5G51957.D	CAL EVAL	05/23/14 11:08	Aqueous					
5G51958.D	CAL PEST@100PPB	05/23/14 11:34	Aqueous	5G51948.	13.1784	0.0273	13.4916	0.0148
5G51959.D	AC78790-003	05/23/14 11:57	Aqueous	5G51958.	13.1769	0.0114	13.4897	0.0141
5G51960.D	AC78792-009	05/23/14 12:15	Aqueous	5G51958.	13.1729	0.0417	13.4889	0.02
5G51961.D	AC78787-003	05/23/14 12:33	Aqueous	5G51958.	13.1731	0.0402	13.4892	0.0178
5G51962.D	AC78787-005	05/23/14 12:51	Aqueous	5G51958.	13.1732	0.0395	13.4889	0.02
5G51963.D	AC78787-009	05/23/14 13:08	Aqueous	5G51958.	13.1735	0.0372	13.4902	0.0104
5G51964.D	AC78787-011	05/23/14 13:26	Aqueous	5G51958.	13.1717	0.0509	13.4873	0.0319
5G51965.D	AC78787-016	05/23/14 13:44	Aqueous	5G51958.	13.1739	0.0342	13.4892	0.0178
5G51966.D	CAL PEST@100PPB	05/23/14 14:06	Aqueous	5G51958.	13.1765	0.0144	13.4915	0.0007

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G49277.D	CAL EVAL	05/28/14 23:01	Soil					
6G49278.D	BLK	05/28/14 23:36	Soil					
6G49279.D	CAL PEST@100PPB	05/28/14 23:53	Soil	6G49279.	12.3501	0	12.6777	0
6G49280.D	CAL PEST@200PPB	05/29/14 00:11	Soil	6G49279.	12.3482	0.0154	12.6769	0.0063
6G49281.D	SMB33930	05/29/14 00:28	Soil	6G49279.	12.3505	0.0032	12.6776	0.0008
6G49282.D	SMB33930(MS)	05/29/14 00:45	Soil	6G49279.	12.3505	0.0032	12.6783	0.0047
6G49283.D	AC78801-001	05/29/14 01:03	Soil	6G49279.	12.3494	0.0057	12.6765	0.0095
6G49284.D	AC78801-002	05/29/14 01:20	Soil	6G49279.	12.3497	0.0032	12.6778	0.0008
6G49285.D	AC78801-004	05/29/14 01:38	Soil	6G49279.	12.3490	0.0089	12.6768	0.0071
6G49286.D	AC78801-005	05/29/14 01:55	Soil	6G49279.	12.3490	0.0089	12.6769	0.0063
6G49287.D	AC78801-006	05/29/14 02:12	Soil	6G49279.	12.3505	0.0032	12.6782	0.0039
6G49288.D	AC78801-007	05/29/14 02:30	Soil	6G49279.	12.3502	0.0008	12.6776	0.0008
6G49289.D	AC78801-008	05/29/14 02:47	Soil	6G49279.	12.3495	0.0049	12.6765	0.0095
6G49290.D	AC78801-009	05/29/14 03:05	Soil	6G49279.	12.3506	0.0041	12.6778	0.0008
6G49291.D	AC78801-010	05/29/14 03:22	Soil	6G49279.	12.3508	0.0057	12.6775	0.0016
6G49292.D	AC78801-011	05/29/14 03:40	Soil	6G49279.	12.3505	0.0032	12.6774	0.0024
6G49293.D	AC78801-012	05/29/14 03:57	Soil	6G49279.	12.3501	0	12.6775	0.0016
6G49294.D	AC78801-013	05/29/14 04:14	Soil	6G49279.	12.3506	0.0041	12.6786	0.0071
6G49295.D	AC78801-043	05/29/14 04:32	Soil	6G49279.	12.3480	0.017	12.6756	0.0166
6G49296.D	AC78801-003	05/29/14 04:49	Soil	6G49279.	12.3493	0.0065	12.6763	0.011
6G49297.D	AC78731-002	05/29/14 05:07	Soil	6G49279.	12.3478	0.0186	12.6758	0.015
6G49298.D	AC78731-004	05/29/14 05:24	Soil	6G49279.	12.3481	0.0162	12.6752	0.0197
6G49299.D	AC78731-003	05/29/14 05:42	Soil	6G49279.	12.3474	0.0219	12.6755	0.0174
6G49300.D	AC78731-001	05/29/14 05:59	Soil	6G49279.	12.3469	0.0259	12.6766	0.0087
6G49301.D	CAL PEST@200PPB	05/29/14 09:08	Soil	6G49279.	12.3511	0.0081	12.6777	0
6G49302.D	CAL EVAL	05/29/14 09:36	Soil					
6G49303.D	WMB33922	05/29/14 10:06	Aqueous	6G49301.	12.3588	0.0623	12.6803	0.0205
6G49304.D	WMB33922(MS)	05/29/14 10:23	Aqueous	6G49301.	12.3526	0.0121	12.6782	0.0039
6G49305.D	AC78872-009	05/29/14 10:41	Aqueous	6G49301.	12.3513	0.0016	12.6785	0.0063
6G49306.D	AC78864-090	05/29/14 10:58	Aqueous	6G49301.	12.3520	0.0073	12.6786	0.0071
6G49307.D	AC78818-003	05/29/14 11:16	Aqueous	6G49301.	12.3530	0.0154	12.6805	0.0221
6G49308.D	AC78829-014	05/29/14 11:33	Aqueous	6G49301.	12.3523	0.0097	12.6794	0.0134
6G49309.D	AC78731-001(10X)	05/29/14 11:50	Soil	6G49301.	12.3497	0.0113	12.6763	0.011
6G49310.D	AC78692-025	05/29/14 12:08	Soil	6G49301.	12.3477	0.0275	12.6759	0.0142
6G49311.D	AC78871-001	05/29/14 12:25	Soil	6G49301.	12.3493	0.0146	12.6764	0.0103
6G49312.D	AC78871-002	05/29/14 12:43	Soil	6G49301.	12.3489	0.0178	12.6779	0.0016
6G49313.D	AC78692-031	05/29/14 13:00	Soil	6G49301.	12.3483	0.0227	12.6765	0.0095
6G49314.D	AC78692-019	05/29/14 13:18	Soil	6G49301.	12.3472	0.0316	12.6767	0.0079
6G49315.D	AC78692-035	05/29/14 13:35	Soil	6G49301.	12.3484	0.0219	12.6762	0.0118
6G49316.D	AC78692-024	05/29/14 13:53	Soil	6G49301.	12.3485	0.0211	12.6779	0.0016
6G49317.D	AC78692-013	05/29/14 14:10	Soil	6G49301.	12.3508	0.0024	12.6774	0.0024
6G49318.D	CAL PEST@200PPB	05/29/14 15:02	Soil	6G49301.	12.3490	0.017	12.6757	0.0158

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G49319.D	CAL EVAL	05/29/14 23:01	Soil					
6G49320.D	BLK	05/29/14 23:53	Soil					
6G49321.D	100PPB	05/30/14 00:11	Soil					
6G49322.D	CAL PEST@200PPB	05/30/14 00:28	Soil	6G49322.	12.3501	0	12.6788	0
6G49323.D	SMB33933	05/30/14 00:46	Soil	6G49322.	12.3516	0.0121	12.6779	0.0071
6G49324.D	SMB33942	05/30/14 01:03	Soil	6G49322.	12.3522	0.017	12.6791	0.0024
6G49325.D	SMB33943	05/30/14 01:21	Soil	6G49322.	12.3515	0.0113	12.6775	0.0103
6G49326.D	SMB33933(MS)	05/30/14 01:38	Soil	6G49322.	12.3506	0.0041	12.6777	0.0087
6G49327.D	SMB33942(MS)	05/30/14 01:55	Soil	6G49322.	12.3523	0.0178	12.6801	0.0103
6G49328.D	SMB33943(MS)	05/30/14 02:13	Soil	6G49322.	12.3521	0.0162	12.6799	0.0087
6G49329.D	SMB33932(MS)	05/30/14 02:30	Soil	6G49322.	12.3521	0.0162	12.6776	0.0095
6G49330.D	AC78787-025	05/30/14 02:48	Soil	6G49322.	12.3474	0.0219	12.6744	0.0347
6G49331.D	AC78692-037	05/30/14 03:05	Soil	6G49322.	12.3442	0.0478	12.6730	0.0458
6G49332.D	AC78692-040	05/30/14 03:23	Soil	6G49322.	12.3475	0.0211	12.6766	0.0173
6G49333.D	AC78692-036	05/30/14 03:40	Soil	6G49322.	12.3457	0.0356	12.6751	0.0292
6G49334.D	AC78787-015	05/30/14 03:58	Soil	6G49322.	12.3461	0.0324	12.6747	0.0323
6G49335.D	AC78787-014	05/30/14 04:15	Soil	6G49322.	12.3463	0.0308	12.6740	0.0379
6G49336.D	AC78787-007	05/30/14 04:32	Soil	6G49322.	12.3454	0.0381	12.6736	0.041
6G49337.D	AC78787-021	05/30/14 04:50	Soil	6G49322.	12.3462	0.0316	12.6748	0.0316
6G49338.D	AC78692-042	05/30/14 05:07	Soil	6G49322.	12.3463	0.0308	12.6748	0.0316
6G49339.D	AC78787-001	05/30/14 05:25	Soil	6G49322.	12.3446	0.0445	12.6769	0.015
6G49340.D	AC78787-002	05/30/14 05:42	Soil	6G49322.	12.3425	0.0616	12.6802	0.011
6G49341.D	AC78744-001	05/30/14 05:59	Soil	6G49322.	12.3463	0.0308	12.6751	0.0292
6G49342.D	AC78744-002	05/30/14 06:17	Soil	6G49322.	12.3466	0.0283	12.6754	0.0268
6G49343.D	200PPB	05/30/14 08:25	Soil	6G49322.	12.3489	0.0097	12.6760	0.0221
6G49344.D	CAL PEST@100PPB	05/30/14 09:02	Soil	6G49322.	12.3574	0.0591	12.6794	0.0047
6G49345.D	CAL EVAL	05/30/14 09:30	Soil					
6G49346.D	AC78787-019(MS)	05/30/14 10:08	Soil	6G49344.	12.3551	0.0186	12.6778	0.0126
6G49347.D	AC78787-019(MSD)	05/30/14 10:25	Soil	6G49344.	12.3471	0.0834	12.6734	0.0473
6G49348.D	AC78864-001(MS)	05/30/14 10:43	Soil	6G49344.	12.3470	0.0842	12.6745	0.0387
6G49349.D	AC78864-001(MSD)	05/30/14 11:00	Soil	6G49344.	12.3473	0.0818	12.6746	0.0379
6G49350.D	AC78864-001	05/30/14 11:18	Soil	6G49344.	12.3471	0.0834	12.6733	0.0481
6G49351.D	AC78864-048	05/30/14 11:35	Soil	6G49344.	12.3461	0.0915	12.6737	0.045
6G49352.D	AC78826-002	05/30/14 11:52	Soil	6G49344.	12.3461	0.0915	12.6757	0.0292
6G49353.D	AC78824-005	05/30/14 12:10	Soil	6G49344.	12.3475	0.0801	12.6755	0.0308
6G49354.D	AC78826-001	05/30/14 12:27	Soil	6G49344.	12.3460	0.0923	12.6753	0.0323
6G49355.D	AC78792-001	05/30/14 12:45	Soil	6G49344.	12.3465	0.0882	12.6737	0.045
6G49356.D	AC78818-002	05/30/14 13:02	Soil	6G49344.	12.3473	0.0818	12.6773	0.0166
6G49357.D	AC78790-002	05/30/14 13:20	Soil	6G49344.	12.3479	0.0769	12.6738	0.0442
6G49358.D	AC78824-003	05/30/14 13:37	Soil	6G49344.	12.3487	0.0704	12.6758	0.0284
6G49359.D	AC78792-007	05/30/14 13:55	Soil	6G49344.	12.3473	0.0818	12.6764	0.0237
6G49360.D	AC78792-003	05/30/14 14:12	Soil	6G49344.	12.3497	0.0623	12.6768	0.0205
6G49361.D	AC78818-001	05/30/14 14:30	Soil	6G49344.	12.3498	0.0615	12.6782	0.0095
6G49362.D	AC78790-001	05/30/14 14:47	Soil	6G49344.	12.3497	0.0623	12.6758	0.0284
6G49363.D	AC78792-005	05/30/14 15:05	Soil	6G49344.	12.3496	0.0631	12.6768	0.0205
6G49364.D	AC78864-008	05/30/14 15:22	Soil	6G49344.	12.3496	0.0631	12.6760	0.0268
6G49365.D	CAL PEST@100PPB	05/30/14 16:18	Soil	6G49344.	12.3524	0.0405	12.6786	0.0063
6G49366.D	SMB33951	05/30/14 16:40	Soil	6G49365.	12.3570	0.0372	12.6807	0.0166
6G49367.D	SMB33951(MS)	05/30/14 16:57	Soil	6G49365.	12.3531	0.0057	12.6782	0.0032
6G49368.D	SMB33945	05/30/14 17:15	Soil	6G49365.	12.3532	0.0065	12.6785	0.0008
6G49369.D	SMB33945(MS)	05/30/14 17:32	Soil	6G49365.	12.3541	0.0138	12.6812	0.0205
6G49370.D	AC78864-085(MS)	05/30/14 17:50	Soil	6G49365.	12.3517	0.0057	12.6781	0.0039
6G49371.D	AC78864-085(MSD)	05/30/14 18:07	Soil	6G49365.	12.3526	0.0016	12.6798	0.0095
6G49372.D	AC78864-016(5X)	05/30/14 18:25	Soil	6G49365.	12.3538	0.0113	12.6792	0.0047
6G49373.D	AC78864-041(5X)	05/30/14 18:42	Soil	6G49365.	12.3521	0.0024	12.6775	0.0087
6G49374.D	AC78864-025(20X)	05/30/14 18:59	Soil	6G49365.	12.3570	0.0372	12.6800	0.011
6G49375.D	AC78864-033(20X)	05/30/14 19:17	Soil	6G49365.	12.3548	0.0194	12.6780	0.0047
6G49376.D	AC78864-001(5X)(MS)	05/30/14 19:34	Soil	6G49365.	12.3513	0.0089	12.6769	0.0134
6G49377.D	AC78864-001(5X)(MSD)	05/30/14 19:52	Soil	6G49365.	12.3509	0.0121	12.6758	0.0221
6G49378.D	CAL PEST@100PPB	05/30/14 20:09	Soil	6G49365.	12.3537	0.0105	12.6810	0.0189
6G49379.D	200PPB	05/30/14 20:26	Soil	6G49378.	12.3508	0.0235	12.6792	0.0142

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_5 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
5G52071.D	BLK	05/29/14 23:51	Soil					
5G52072.D	CAL EVAL	05/30/14 00:09	Soil					
5G52073.D	CAL PEST@100PPB	05/30/14 00:26	Soil	5G52073.	13.1703	0	13.4866	0
5G52074.D	200PPB	05/30/14 00:44	Soil	5G52073.	13.1695	0.0061	13.4865	0.0007
5G52075.D	AC78787-018	05/30/14 01:02	Soil	5G52073.	13.1685	0.0137	13.4854	0.0089
5G52076.D	AC78787-008	05/30/14 01:20	Soil	5G52073.	13.1679	0.0182	13.4848	0.0133
5G52077.D	AC78787-026	05/30/14 01:37	Soil	5G52073.	13.1680	0.0175	13.4849	0.0126
5G52078.D	AC78787-024	05/30/14 01:55	Soil	5G52073.	13.1697	0.0046	13.4865	0.0007
5G52079.D	AC78787-023	05/30/14 02:13	Soil	5G52073.	13.1692	0.0083	13.4869	0.0022
5G52080.D	AC78787-020	05/30/14 02:31	Soil	5G52073.	13.1671	0.0243	13.4837	0.0215
5G52081.D	AC78864-003	05/30/14 02:48	Soil	5G52073.	13.1683	0.0152	13.4855	0.0082
5G52082.D	AC78864-007	05/30/14 03:06	Soil	5G52073.	13.1678	0.019	13.4848	0.0133
5G52083.D	AC78864-009	05/30/14 03:24	Soil	5G52073.	13.1684	0.0144	13.4854	0.0089
5G52084.D	AC78864-011	05/30/14 03:41	Soil	5G52073.	13.1689	0.0106	13.4855	0.0082
5G52085.D	AC78864-015	05/30/14 03:59	Soil	5G52073.	13.1687	0.0121	13.4858	0.0059
5G52086.D	AC78864-023	05/30/14 04:17	Soil	5G52073.	13.1687	0.0121	13.4853	0.0096
5G52087.D	AC78864-047	05/30/14 04:35	Soil	5G52073.	13.1686	0.0129	13.4861	0.0037
5G52088.D	AC78864-019	05/30/14 04:52	Soil	5G52073.	13.1687	0.0121	13.4862	0.003
5G52089.D	AC78864-027	05/30/14 05:10	Soil	5G52073.	13.1699	0.003	13.4876	0.0074
5G52090.D	AC78864-031	05/30/14 05:28	Soil	5G52073.	13.1697	0.0046	13.4855	0.0082
5G52091.D	AC78864-035	05/30/14 05:46	Soil	5G52073.	13.1681	0.0167	13.4850	0.0119
5G52092.D	AC78864-039	05/30/14 06:03	Soil	5G52073.	13.1683	0.0152	13.4857	0.0067
5G52093.D	AC78864-043	05/30/14 06:21	Soil	5G52073.	13.1699	0.003	13.4859	0.0052
5G52094.D	AC78787-022	05/30/14 06:39	Soil	5G52073.	13.1698	0.0038	13.4868	0.0015
5G52095.D	CAL PEST@100PPB	05/30/14 08:20	Soil	5G52073.	13.1648	0.0418	13.4827	0.0289
5G52096.D	CAL EVAL	05/30/14 09:04	Soil					
5G52097.D	AC78787-008(MS)	05/30/14 09:43	Soil	5G52095.	13.1746	0.0744	13.4880	0.0393
5G52098.D	AC78787-008(MSD)	05/30/14 10:01	Soil	5G52095.	13.1710	0.0471	13.4876	0.0363
5G52099.D	AC78804-007(MS)	05/30/14 10:19	Soil	5G52095.	13.1693	0.0342	13.4864	0.0274
5G52100.D	AC78804-007(MSD)	05/30/14 10:36	Soil	5G52095.	13.1688	0.0304	13.4875	0.0356
5G52101.D	AC78787-019	05/30/14 10:54	Soil	5G52095.	13.1688	0.0304	13.4869	0.0311
5G52102.D	AC78864-062	05/30/14 11:12	Soil	5G52095.	13.1687	0.0296	13.4857	0.0222
5G52103.D	AC78864-057	05/30/14 11:30	Soil	5G52095.	13.1687	0.0296	13.4861	0.0252
5G52104.D	AC78864-050	05/30/14 11:48	Soil	5G52095.	13.1696	0.0365	13.4864	0.0274
5G52105.D	AC78864-016	05/30/14 12:05	Soil	5G52095.	13.1701	0.0403	13.4870	0.0319
5G52106.D	AC78864-017	05/30/14 12:23	Soil	5G52095.	13.1701	0.0403	13.4867	0.0297
5G52107.D	AC78864-025	05/30/14 12:41	Soil	5G52095.	13.1699	0.0387	13.4875	0.0356
5G52108.D	AC78864-033	05/30/14 12:59	Soil	5G52095.	13.1687	0.0296	13.4858	0.023
5G52109.D	AC78864-041	05/30/14 13:16	Soil	5G52095.	13.1678	0.0228	13.4858	0.023
5G52110.D	AC78864-055	05/30/14 13:34	Soil	5G52095.	13.1688	0.0304	13.4854	0.02
5G52111.D	AC78864-003(5X)	05/30/14 13:52	Soil	5G52095.	13.1711	0.0478	13.4873	0.0341
5G52112.D	AC78864-009(20X)	05/30/14 14:10	Soil	5G52095.	13.1701	0.0403	13.4861	0.0252
5G52113.D	AC78864-011(10X)	05/30/14 14:27	Soil	5G52095.	13.1704	0.0425	13.4871	0.0326
5G52114.D	AC78864-001(5X)	05/30/14 14:45	Soil	5G52095.	13.1693	0.0342	13.4862	0.026
5G52115.D	AC78824-001	05/30/14 15:03	Soil	5G52095.	13.1694	0.0349	13.4862	0.026
5G52116.D	CAL PEST@100PPB	05/30/14 16:17	Soil	5G52095.	13.1710	0.0471	13.4889	0.046

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

GC Pesticide Data
Sample Data

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-001
Client Id: EXT1(0-2')
Data File: 6G49339.D
Analysis Date: 05/30/14 05:25
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0061	U	7421-93-4	Endrin Aldehyde	0.0061	U
319-84-6	alpha-BHC	0.0012	U	53494-70-5	Endrin Ketone	0.0061	U
319-85-7	beta-BHC	0.0012	U	58-89-9	gamma-BHC	0.0012	U
57-74-9	Chlordane	0.030	U	76-44-8	Heptachlor	0.0061	U
319-86-8	delta-BHC	0.0061	U	1024-57-3	Heptachlor Epoxide	0.0061	U
60-57-1	Dieldrin	0.0012	U	72-43-5	Methoxychlor	0.0061	U
959-98-8	Endosulfan I	0.0061	U	72-54-8	p,p'-DDD	0.0030	U
33213-65-9	Endosulfan II	0.0061	U	72-55-9	p,p'-DDE	0.0030	U
1031-07-8	Endosulfan Sulfate	0.0061	U	50-29-3	p,p'-DDT	0.0030	U
72-20-8	Endrin	0.0061	U	8001-35-2	Toxaphene	0.030	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 1210

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49339.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 5:25
Operator : MLC/MAS
Sample : AC78787-001
Misc : S,PEST
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:59:01 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.074	4.919	870045	1014336	80.540m	72.394m
22)DCB-Surrogate	12.345	12.677	686595	1076616	72.886m	93.505m#

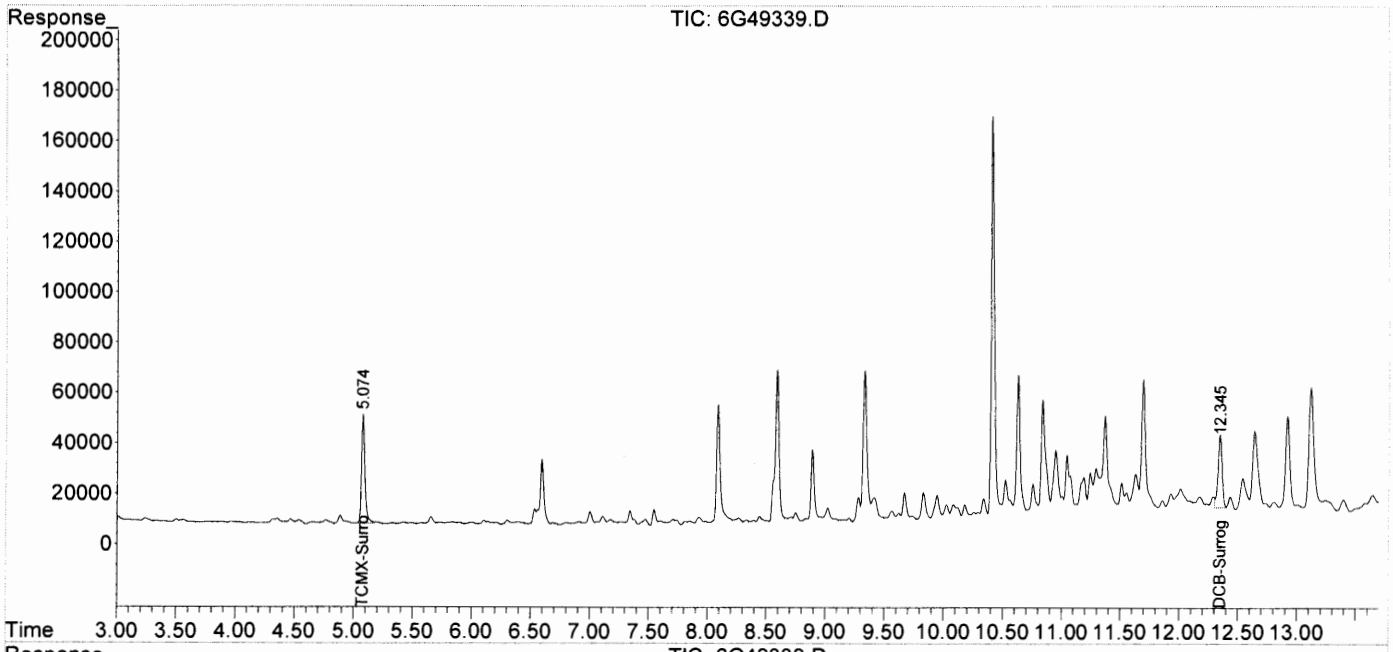
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

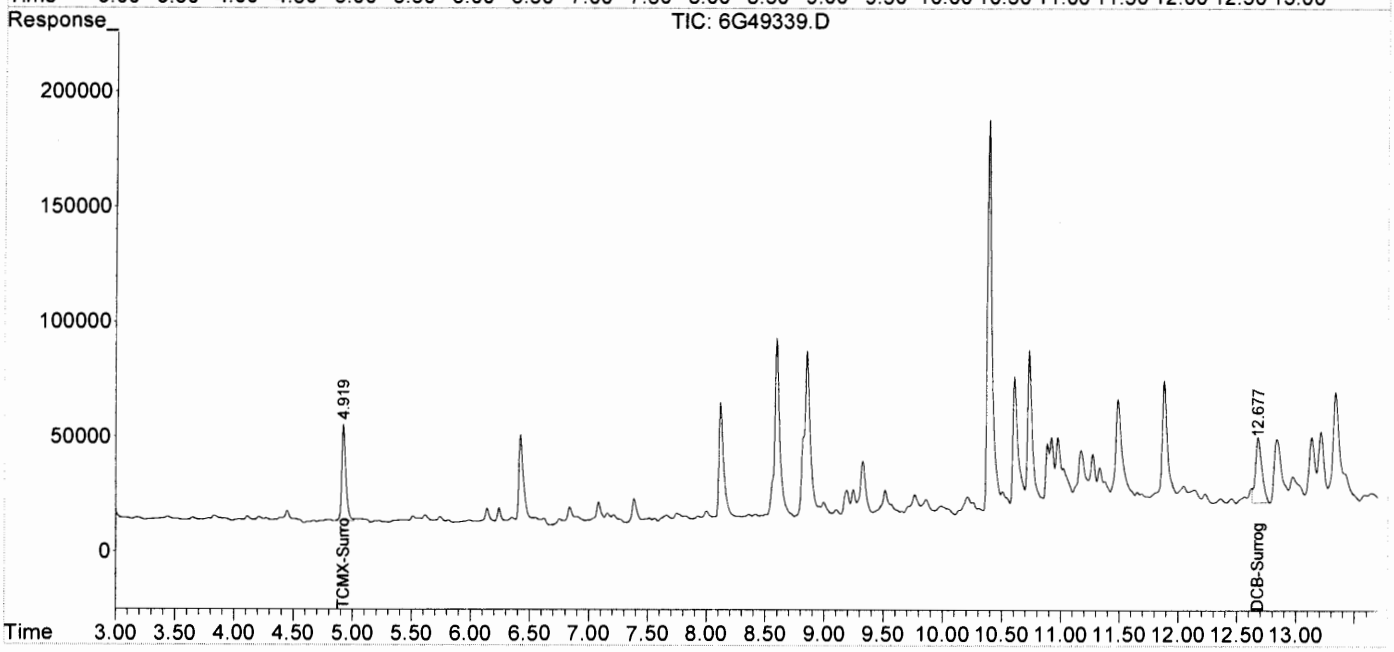
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49339.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 5:25
Operator : MLC/MAS
Sample : AC78787-001
Misc : S,PEST
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:59:01 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-002
Client Id: EXT1(15-17')
Data File: 6G49340.D
Analysis Date: 05/30/14 05:42
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0057	U	7421-93-4	Endrin Aldehyde	0.0057	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0057	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	**Chlordane**	**0.029**	**0.12**	76-44-8	Heptachlor	0.0057	U
319-86-8	delta-BHC	0.0057	U	1024-57-3	Heptachlor Epoxide	0.0057	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0057	U
959-98-8	Endosulfan I	0.0057	U	72-54-8	p,p'-DDD	0.0029	U
33213-65-9	Endosulfan II	0.0057	U	72-55-9	p,p'-DDE	0.0029	U
1031-07-8	Endosulfan Sulfate	0.0057	U	50-29-3	p,p'-DDT	0.0029	U
72-20-8	Endrin	0.0057	U	8001-35-2	Toxaphene	0.029	U

Worksheet #: 304445

Total Target Concentration 0.12

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 1213

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49340.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 5:42
Operator : MLC/MAS
Sample : AC78787-002
Misc : S,PEST
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 12:00:37 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.074	4.921	710270	904605	65.285m	64.451
22)DCB-Surrogate	12.343	12.680	788772	653086	84.346m	55.924m#
24)Chlordane {2}	8.656	8.175	254782	609077	182.422m	239.390m#
25)Chlordane {3}	8.741	8.404	511187	139393	249.076m	97.154m#

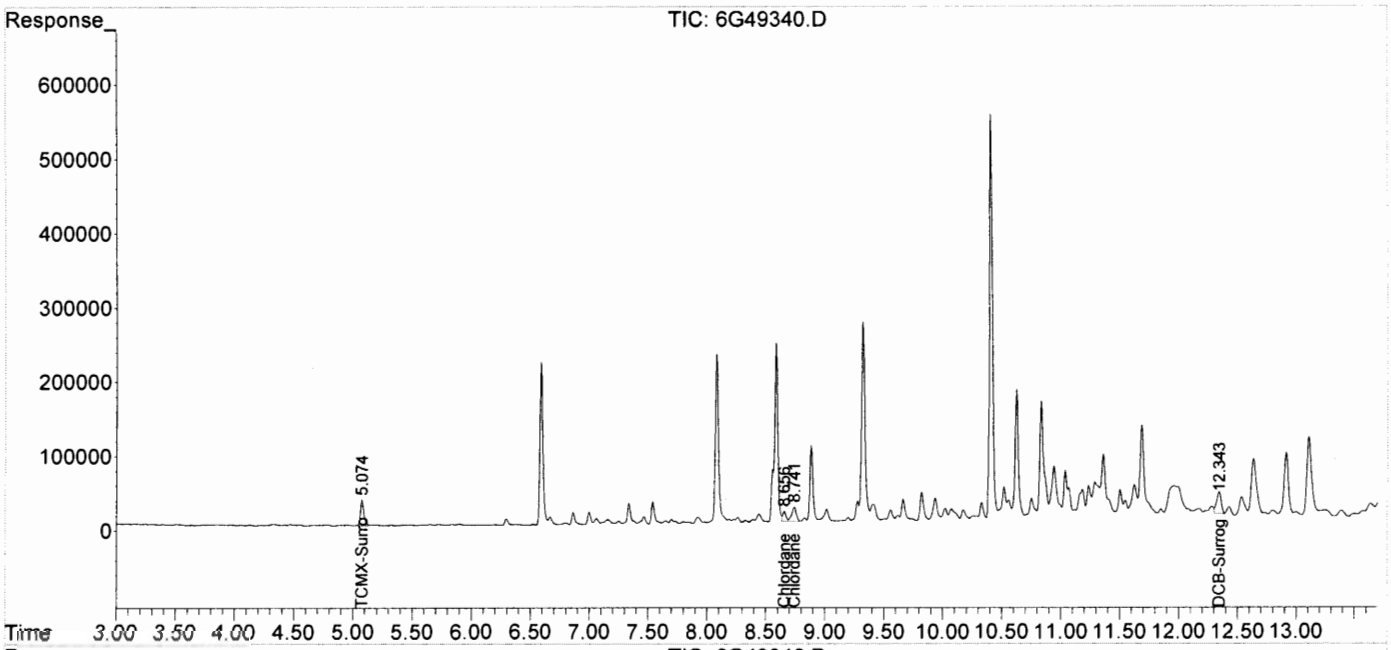
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

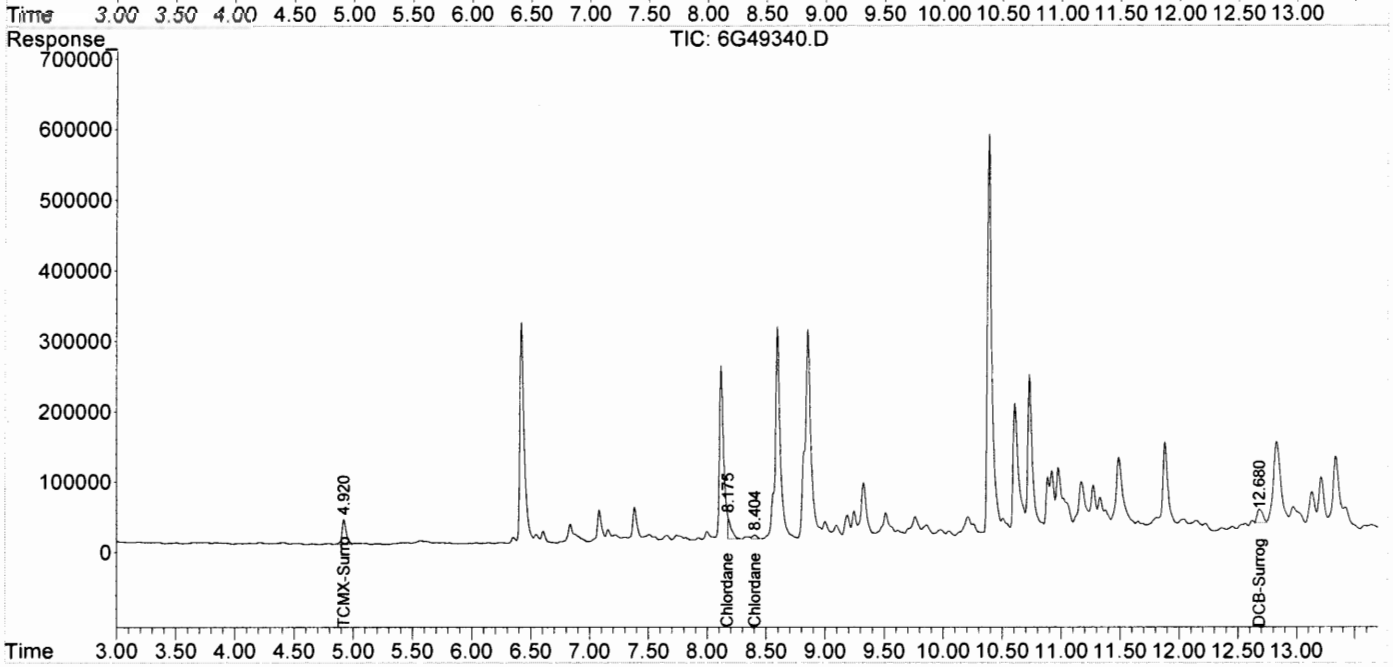
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49340.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 5:42
Operator : MLC/MAS
Sample : AC78787-002
Misc : S,PEST
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 12:00:37 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-003
Client Id: EXT 1 U
Data File: 5G51961.D
Analysis Date: 05/23/14 12:33
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.010	U	7421-93-4	Endrin Aldehyde	0.010	U
319-84-6	alpha-BHC	0.010	U	53494-70-5	Endrin Ketone	0.010	U
319-85-7	beta-BHC	0.010	U	58-89-9	gamma-BHC	0.010	U
57-74-9	Chlordane	0.10	U	76-44-8	Heptachlor	0.010	U
319-86-8	delta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
60-57-1	Dieldrin	0.010	U	72-43-5	Methoxychlor	0.010	U
959-98-8	Endosulfan I	0.010	U	72-54-8	p,p'-DDD	0.010	U
33213-65-9	Endosulfan II	0.010	U	72-55-9	p,p'-DDE	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	50-29-3	p,p'-DDT	0.010	U
72-20-8	Endrin	0.010	U	8001-35-2	Toxaphene	0.25	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 1216

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51961.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 12:33:27
Operator : MAS/MLC
Sample : AC78787-003
Misc : A,PEST
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:08:29 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.205	6.073	149.7E6	109.3E6	60.803	60.812
22)DCB-Surrogate	13.173	13.489	172.9E6	130.0E6	97.142	99.120

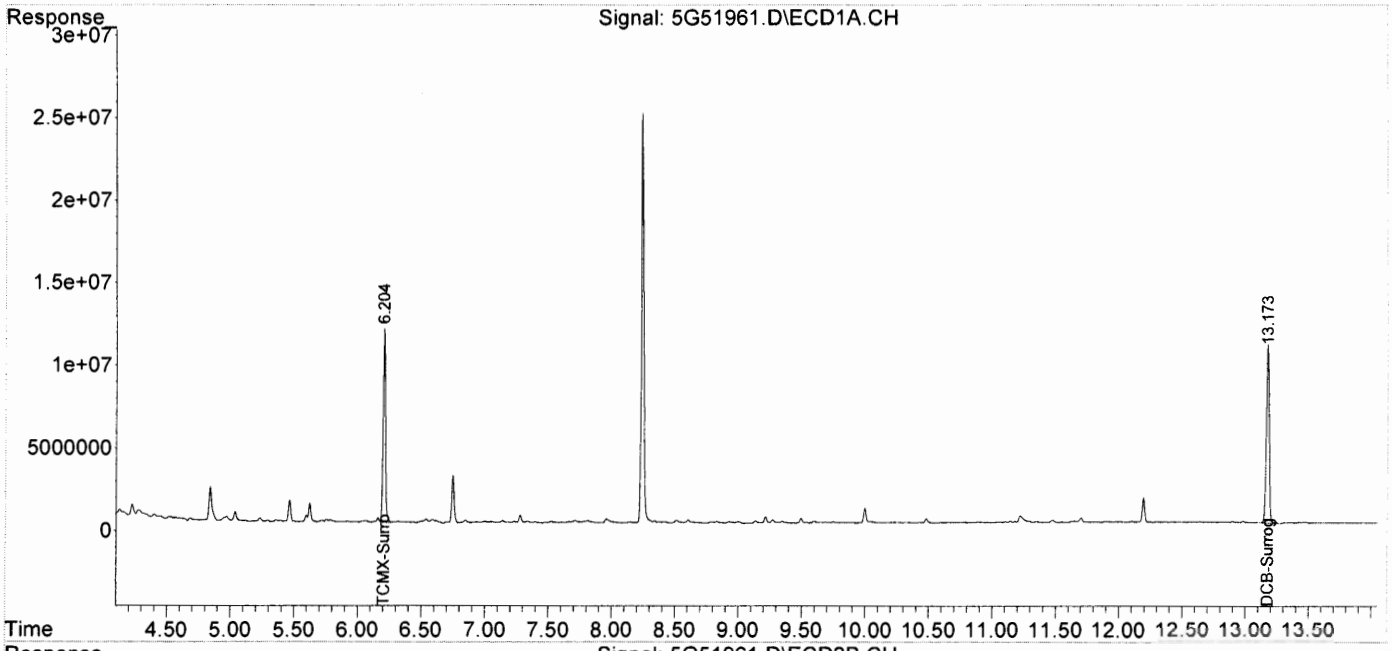
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

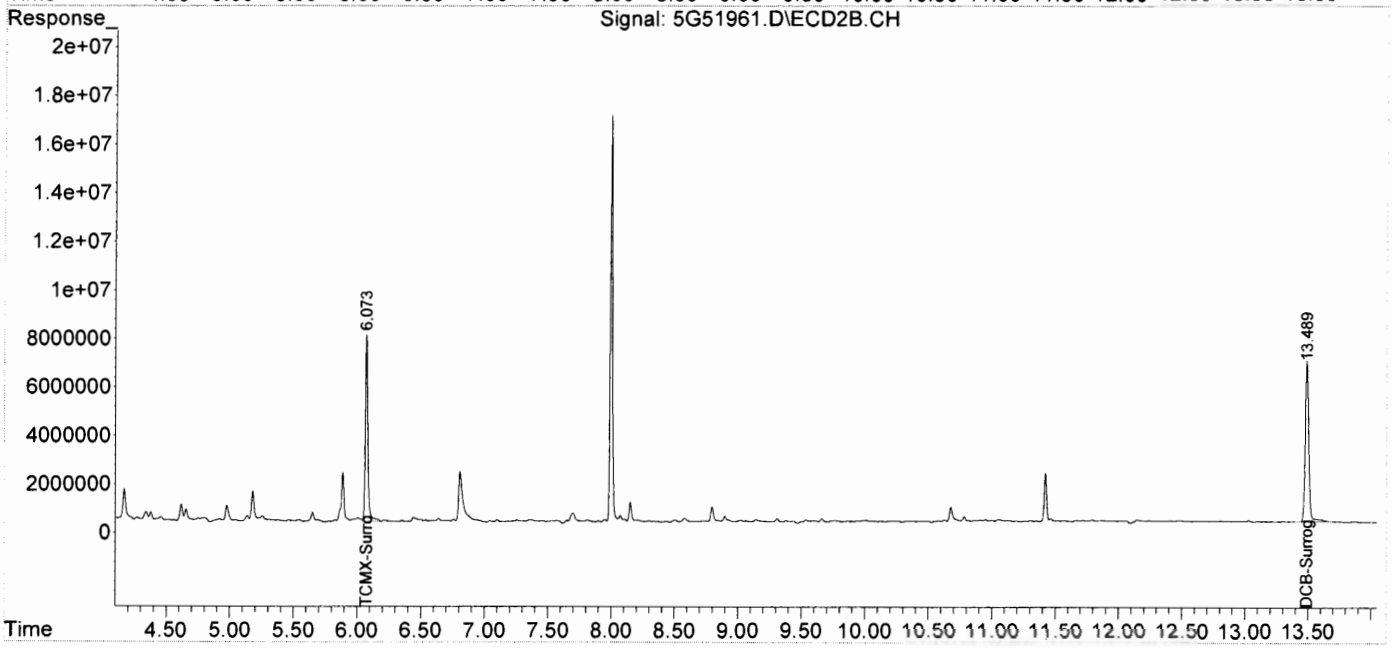
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51961.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 12:33:27
Operator : MAS/MLC
Sample : AC78787-003
Misc : A,PEST
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:08:29 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-005
Client Id: FB052014 U
Data File: 5G51962.D
Analysis Date: 05/23/14 12:51
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.010	U	7421-93-4	Endrin Aldehyde	0.010	U
319-84-6	alpha-BHC	0.010	U	53494-70-5	Endrin Ketone	0.010	U
319-85-7	beta-BHC	0.010	U	58-89-9	gamma-BHC	0.010	U
57-74-9	Chlordane	0.10	U	76-44-8	Heptachlor	0.010	U
319-86-8	delta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
60-57-1	Dieldrin	0.010	U	72-43-5	Methoxychlor	0.010	U
959-98-8	Endosulfan I	0.010	U	72-54-8	p,p'-DDD	0.010	U
33213-65-9	Endosulfan II	0.010	U	72-55-9	p,p'-DDE	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	50-29-3	p,p'-DDT	0.010	U
72-20-8	Endrin	0.010	U	8001-35-2	Toxaphene	0.25	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51962.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 12:51:11
Operator : MAS/MLC
Sample : AC78787-005
Misc : A,PEST
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:09:02 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.205	6.073	202.8E6	153.3E6	82.380	85.312
22)DCB-Surrogate	13.173	13.489	171.6E6	129.3E6	96.435	98.578

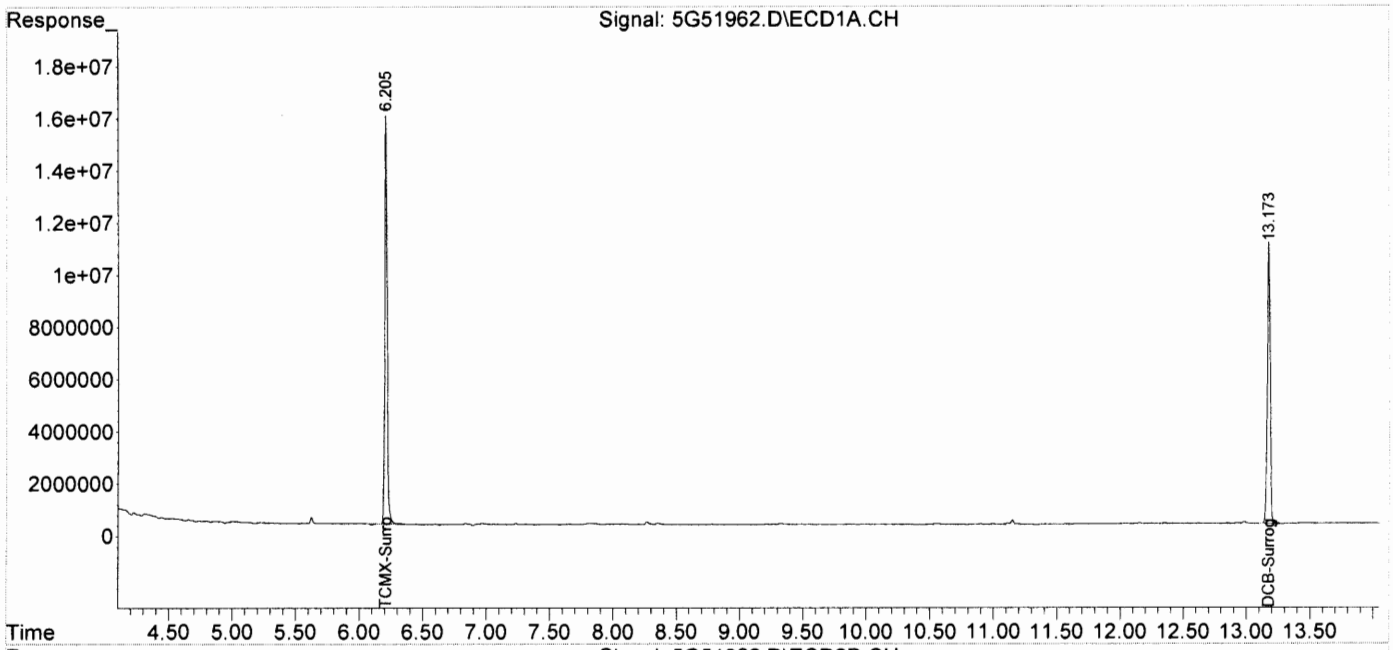
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

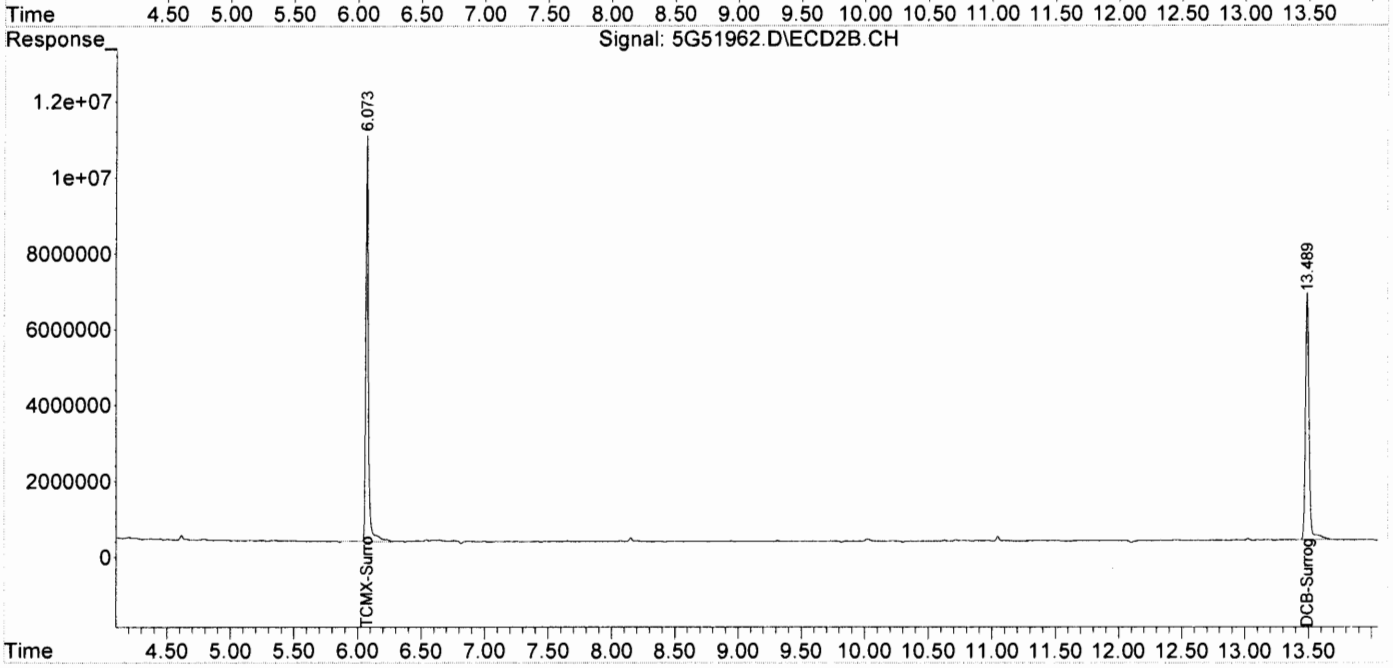
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51962.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 12:51:11
Operator : MAS/MLC
Sample : AC78787-005
Misc : A,PEST
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:09:02 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-007
Client Id: EXT 2(0-2')
Data File: 6G49336.D
Analysis Date: 05/30/14 04:32
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0060	U	7421-93-4	Endrin Aldehyde	0.0060	U
319-84-6	alpha-BHC	0.0012	U	53494-70-5	Endrin Ketone	0.0060	U
319-85-7	beta-BHC	0.0012	U	58-89-9	gamma-BHC	0.0012	U
57-74-9	Chlordane	0.030	U	76-44-8	Heptachlor	0.0060	U
319-86-8	delta-BHC	0.0060	U	1024-57-3	Heptachlor Epoxide	0.0060	U
60-57-1	Dieldrin	0.0012	U	72-43-5	Methoxychlor	0.0060	U
959-98-8	Endosulfan I	0.0060	U	72-54-8	p,p'-DDD	0.0030	U
33213-65-9	Endosulfan II	0.0060	U	72-55-9	p,p'-DDE	0.0030	U
1031-07-8	Endosulfan Sulfate	0.0060	U	50-29-3	p,p'-DDT	0.0030	U
72-20-8	Endrin	0.0060	U	8001-35-2	Toxaphene	0.030	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 1222

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49336.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 4:32
Operator : MLC/MAS
Sample : AC78787-007
Misc : S,PEST
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:51:30 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.078	4.922	757031	905645	69.727	64.527
22)DCB-Surrogate	12.345	12.674	667862	844878	70.804m	72.807m

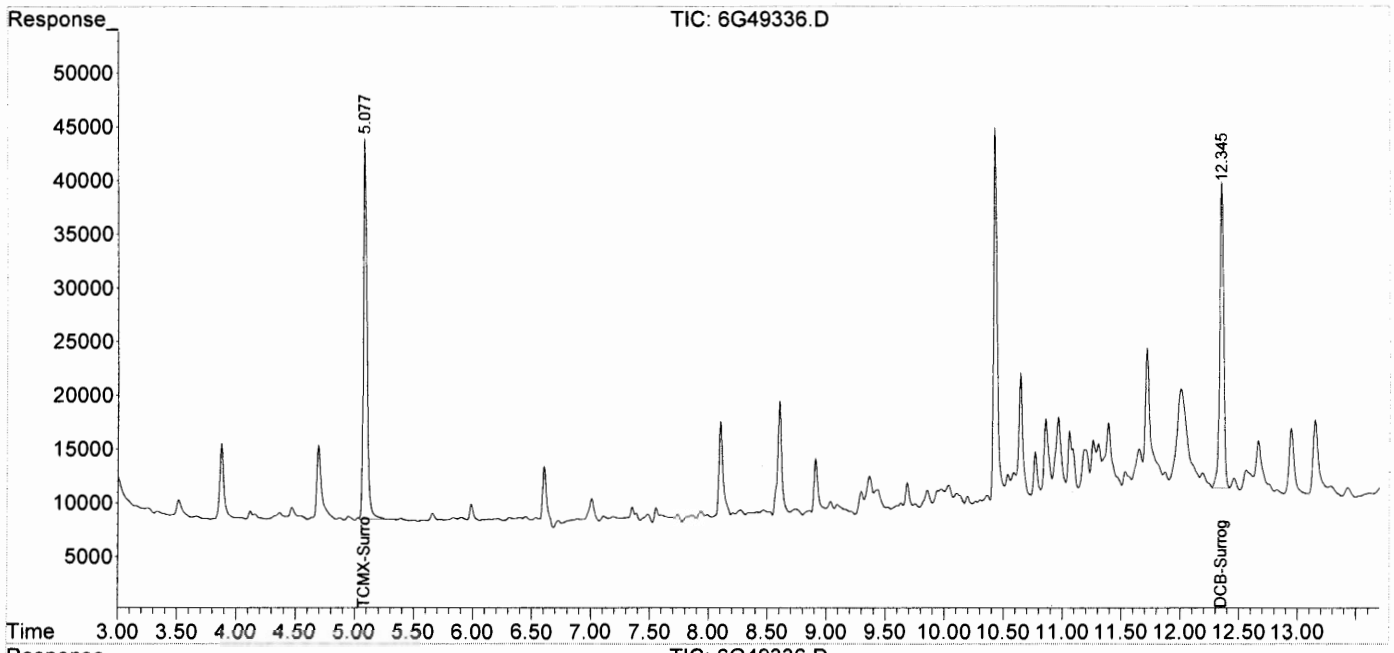
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

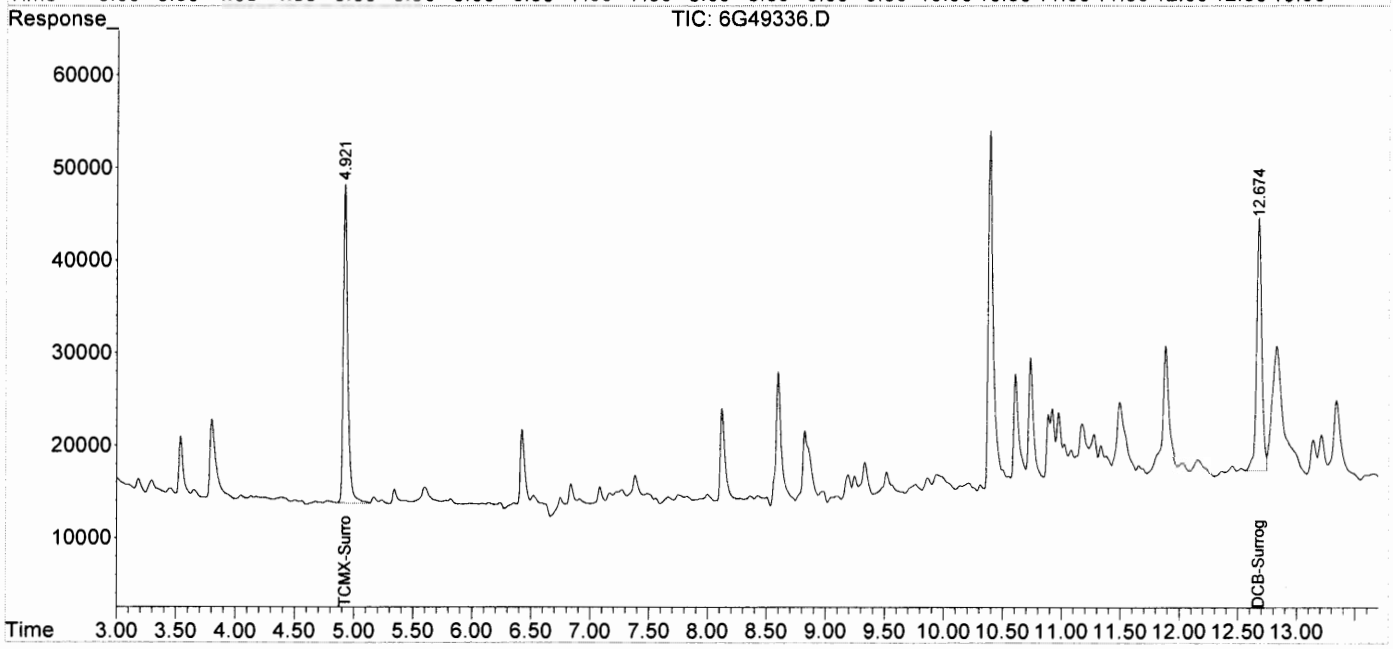
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49336.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 4:32
Operator : MLC/MAS
Sample : AC78787-007
Misc : S,PEST
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:51:30 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-008
Client Id: EXT 2(15-17')
Data File: 5G52076.D
Analysis Date: 05/30/14 01:20
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0053	U	7421-93-4	Endrin Aldehyde	0.0053	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0053	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.026	U	76-44-8	Heptachlor	0.0053	U
319-86-8	delta-BHC	0.0053	U	1024-57-3	Heptachlor Epoxide	0.0053	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0053	U
959-98-8	Endosulfan I	0.0053	U	72-54-8	p,p'-DDD	0.0026	U
33213-65-9	Endosulfan II	0.0053	U	72-55-9	p,p'-DDE	0.0026	U
1031-07-8	Endosulfan Sulfate	0.0053	U	50-29-3	p,p'-DDT	0.0026	U
72-20-8	Endrin	0.0053	U	8001-35-2	Toxaphene	0.026	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 1225

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52076.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 01:20:01
Operator : MAS/MLC
Sample : AC78787-008
Misc : S,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:42:09 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.203	6.071	211.4E6	180.0E6	85.857	100.187
22)DCB-Surrogate	13.168	13.485	187.3E6	142.1E6	105.221	108.405

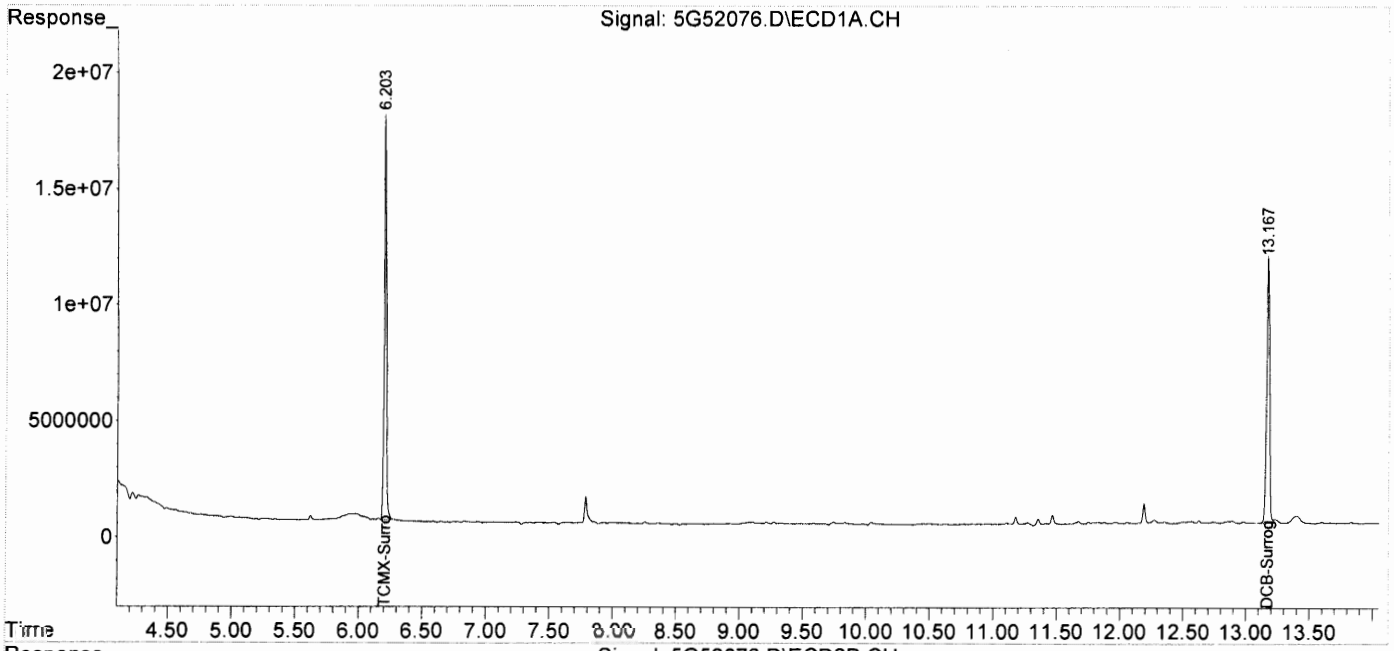
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

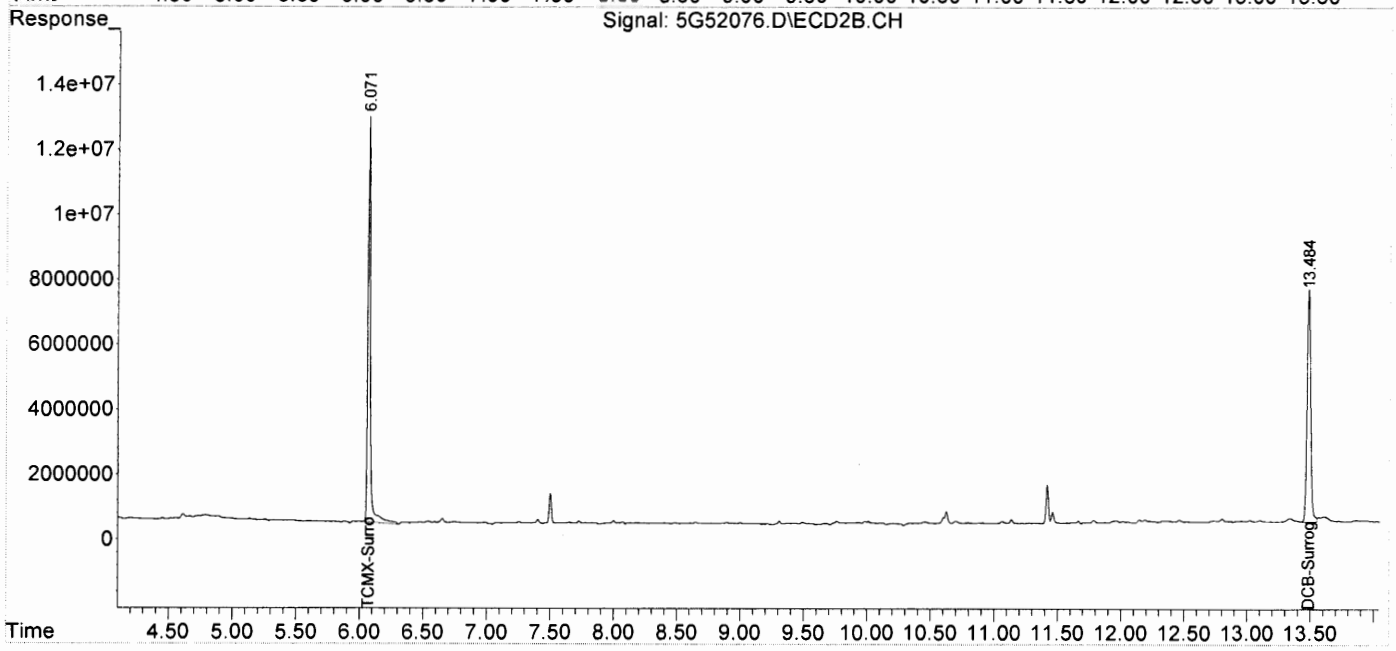
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52076.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 01:20:01
Operator : MAS/MLC
Sample : AC78787-008
Misc : S,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:42:09 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-009
Client Id: DUP052014 U
Data File: 5G51963.D
Analysis Date: 05/23/14 13:08
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.010	U	7421-93-4	Endrin Aldehyde	0.010	U
319-84-6	alpha-BHC	0.010	U	53494-70-5	Endrin Ketone	0.010	U
319-85-7	beta-BHC	0.010	U	58-89-9	gamma-BHC	0.010	U
57-74-9	Chlordane	0.10	U	76-44-8	Heptachlor	0.010	U
319-86-8	delta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
60-57-1	Dieldrin	0.010	U	72-43-5	Methoxychlor	0.010	U
959-98-8	Endosulfan I	0.010	U	72-54-8	p,p'-DDD	0.010	U
33213-65-9	Endosulfan II	0.010	U	72-55-9	p,p'-DDE	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	50-29-3	p,p'-DDT	0.010	U
72-20-8	Endrin	0.010	U	8001-35-2	Toxaphene	0.25	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51963.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 13:08:55
Operator : MAS/MLC
Sample : AC78787-009
Misc : A,PEST
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:09:45 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

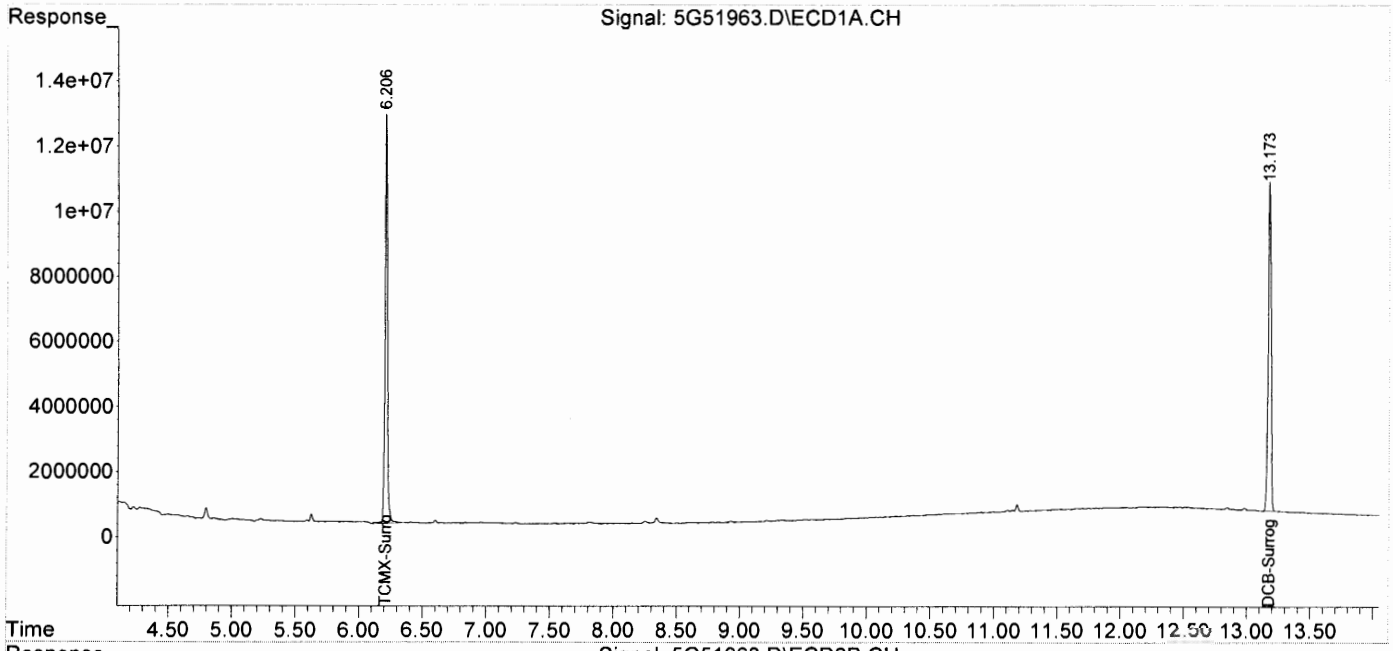
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.206	6.073	168.3E6	122.2E6	68.332	68.017
22)DCB-Surrogate	13.174	13.490	161.3E6	123.8E6	90.612	94.439

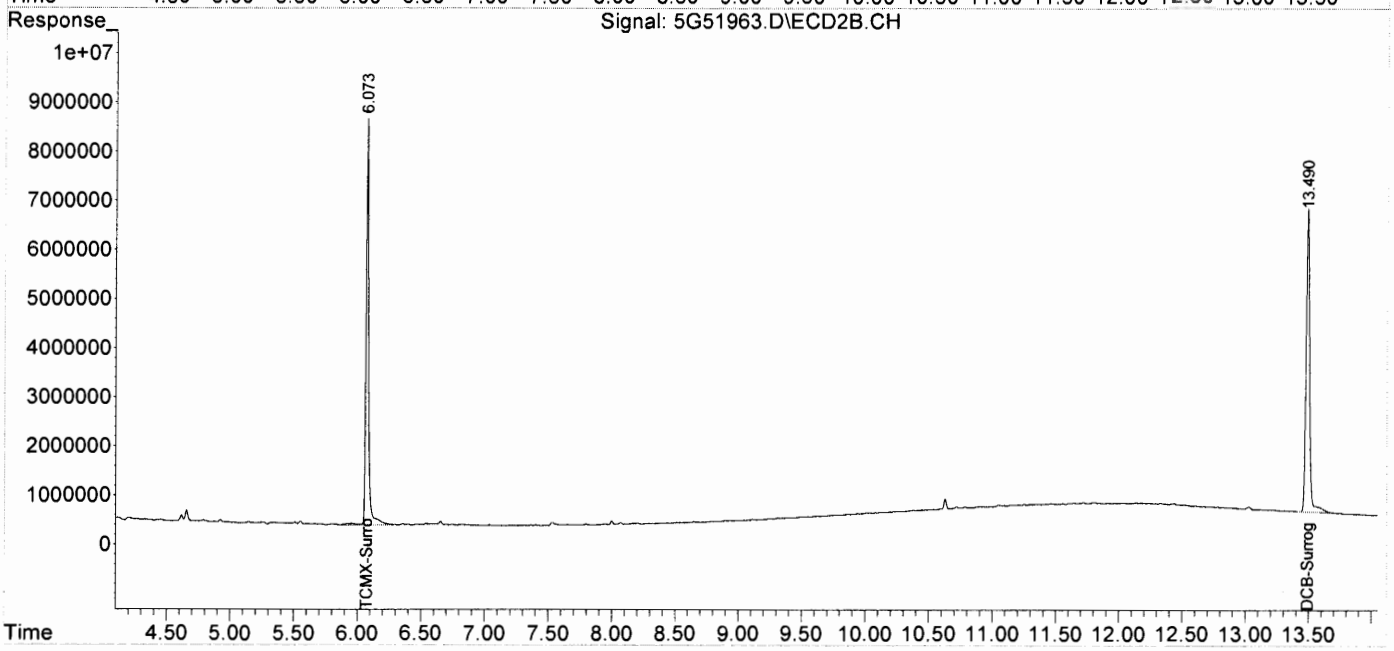
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51963.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 13:08:55
Operator : MAS/MLC
Sample : AC78787-009
Misc : A,PEST
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:09:45 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-011
Client Id: EXT 2 U
Data File: 5G51964.D
Analysis Date: 05/23/14 13:26
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.010	U	7421-93-4	Endrin Aldehyde	0.010	U
319-84-6	alpha-BHC	0.010	U	53494-70-5	Endrin Ketone	0.010	U
319-85-7	beta-BHC	0.010	U	58-89-9	gamma-BHC	0.010	U
57-74-9	Chlordane	0.10	U	76-44-8	Heptachlor	0.010	U
319-86-8	delta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
60-57-1	Dieldrin	0.010	U	72-43-5	Methoxychlor	0.010	U
959-98-8	Endosulfan I	0.010	U	72-54-8	p,p'-DDD	0.010	U
33213-65-9	Endosulfan II	0.010	U	72-55-9	p,p'-DDE	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	50-29-3	p,p'-DDT	0.010	U
72-20-8	Endrin	0.010	U	8001-35-2	Toxaphene	0.25	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51964.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 13:26:46
Operator : MAS/MLC
Sample : AC78787-011
Misc : A,PEST
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:10:05 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

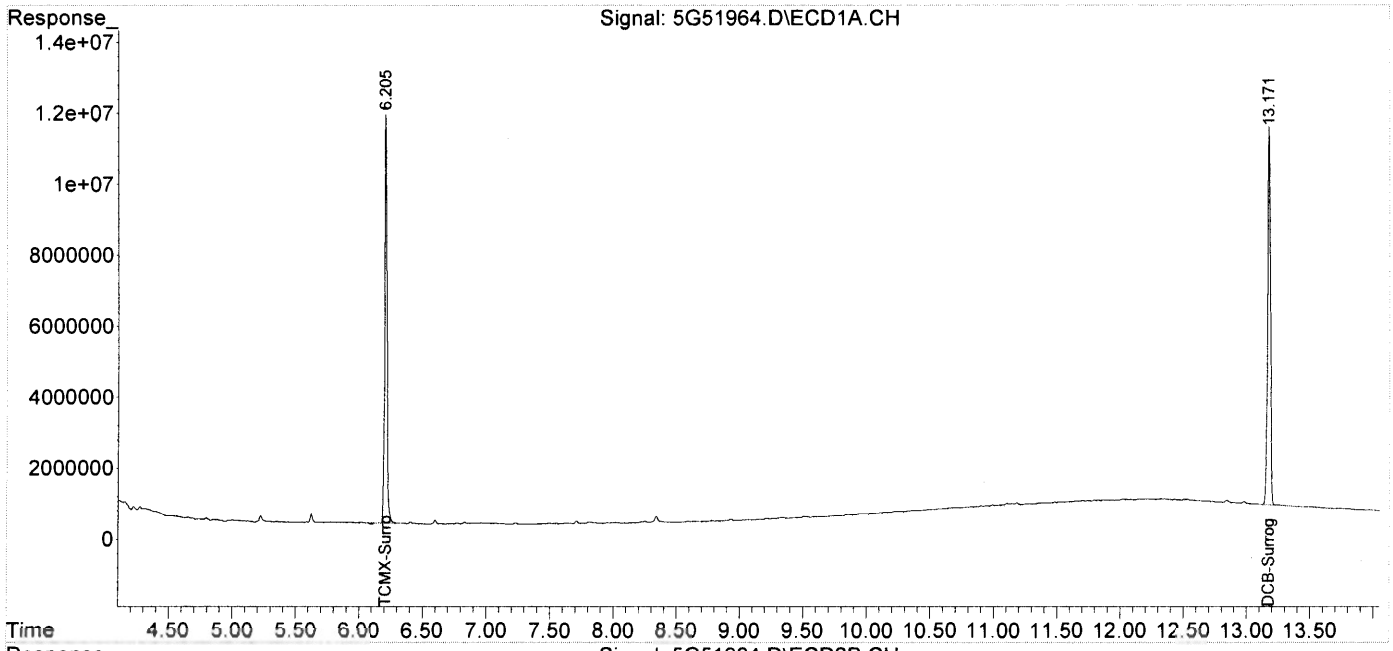
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.206	6.073	148.6E6	107.9E6	60.363	60.048
22)DCB-Surrogate	13.172	13.487	168.0E6	129.2E6	94.381	98.522

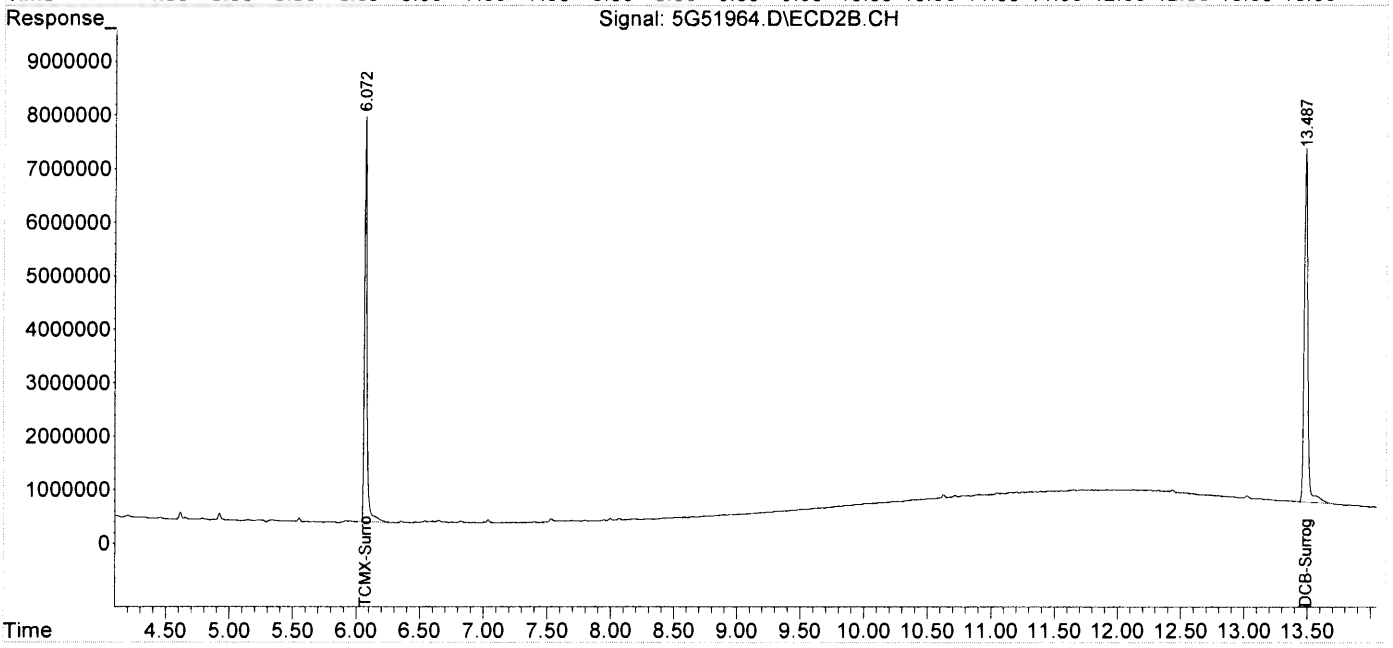
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51964.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 13:26:46
Operator : MAS/MLC
Sample : AC78787-011
Misc : A,PEST
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:10:05 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-014
Client Id: EXT 3(0-2')
Data File: 6G49335.D
Analysis Date: 05/30/14 04:15
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0055	U	7421-93-4	Endrin Aldehyde	0.0055	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0055	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0055	U
319-86-8	delta-BHC	0.0055	U	1024-57-3	Heptachlor Epoxide	0.0055	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0055	U
959-98-8	Endosulfan I	0.0055	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0055	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0055	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0055	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 1234

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49335.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 4:15
Operator : MLC/MAS
Sample : AC78787-014
Misc : S,PEST
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:50:28 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.075	4.919	1003462	1230518	93.453m	88.125m
22)DCB-Surrogate	12.346	12.674	828091	1035337	88.803m	89.794m

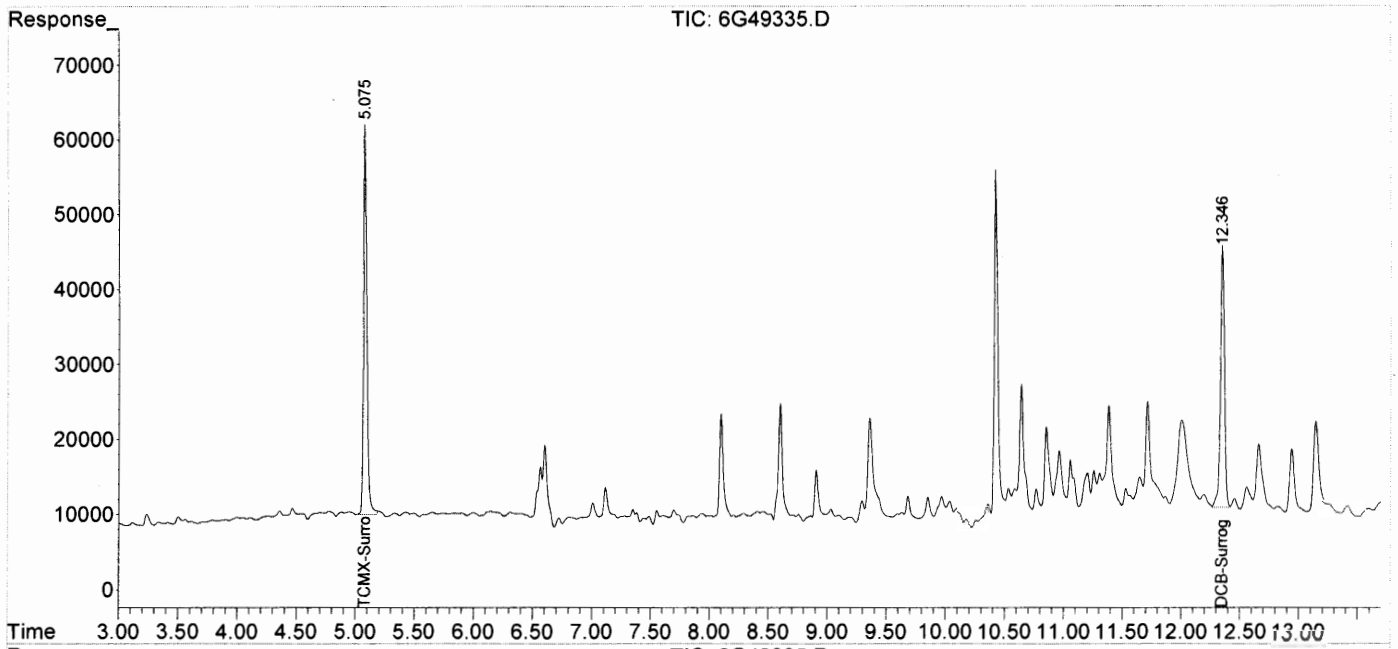
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

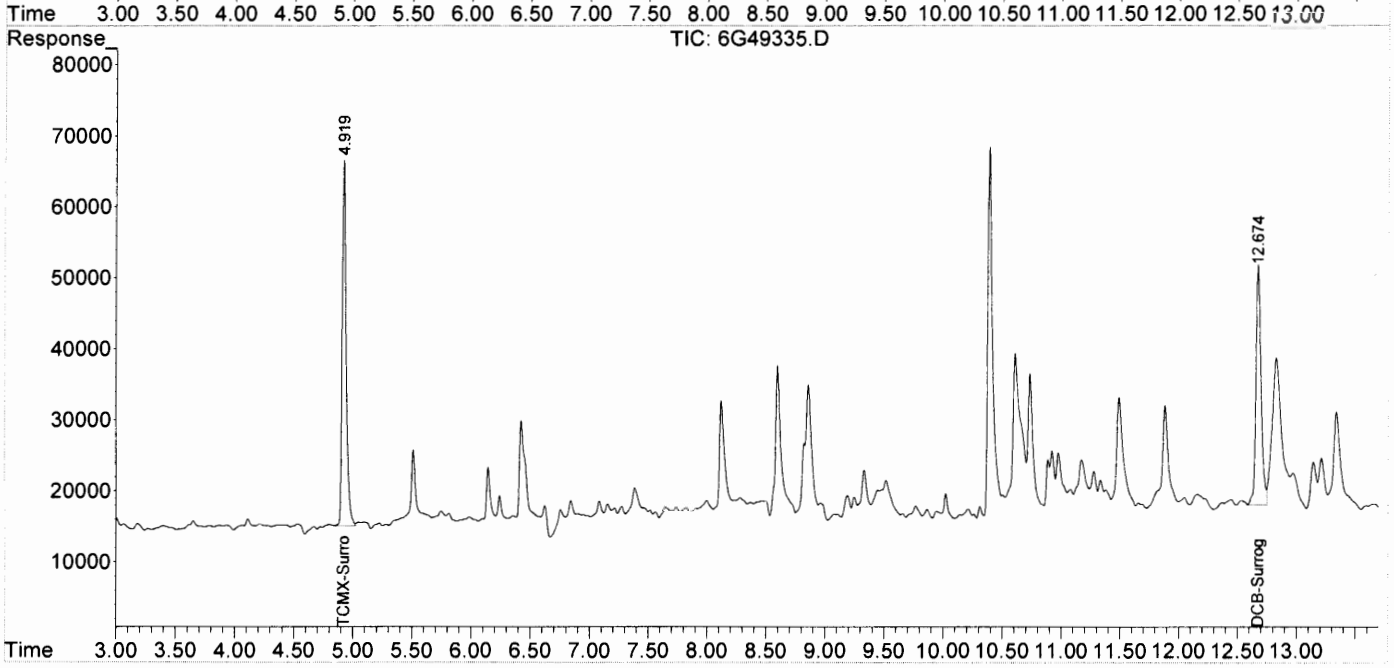
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49335.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 4:15
Operator : MLC/MAS
Sample : AC78787-014
Misc : S,PEST
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:50:28 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-015
Client Id: EXT 3(15-17')
Data File: 6G49334.D
Analysis Date: 05/30/14 03:58
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0056	U	7421-93-4	Endrin Aldehyde	0.0056	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0056	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.028	U	76-44-8	Heptachlor	0.0056	U
319-86-8	delta-BHC	0.0056	U	1024-57-3	Heptachlor Epoxide	0.0056	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0056	U
959-98-8	Endosulfan I	0.0056	U	72-54-8	p,p'-DDD	0.0028	U
33213-65-9	Endosulfan II	0.0056	U	72-55-9	p,p'-DDE	0.0028	U
1031-07-8	Endosulfan Sulfate	0.0056	U	50-29-3	p,p'-DDT	0.0028	U
72-20-8	Endrin	0.0056	U	8001-35-2	Toxaphene	0.028	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49334.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 3:58
Operator : MLC/MAS
Sample : AC78787-015
Misc : S,PEST
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:49:11 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.075	4.919	911446	1156226	84.529m	82.707m
22)DCB-Surrogate	12.346	12.675	776630	1065577	82.975m	92.512m

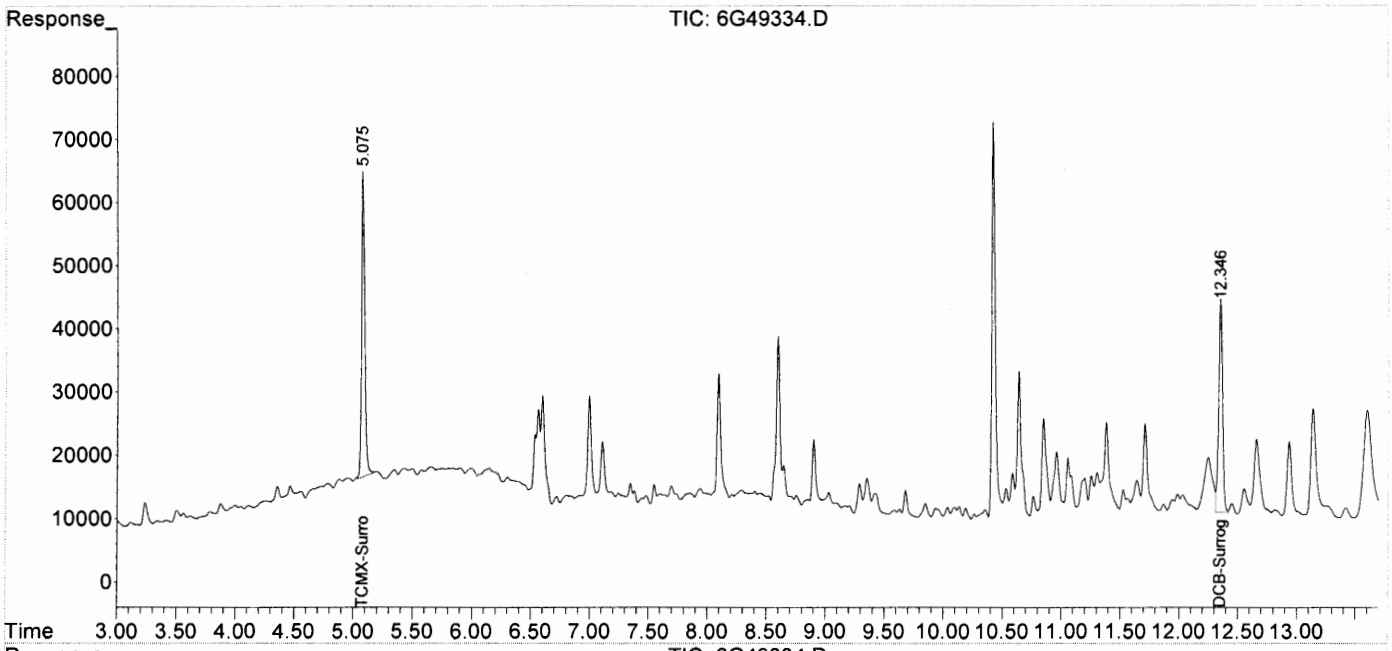
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

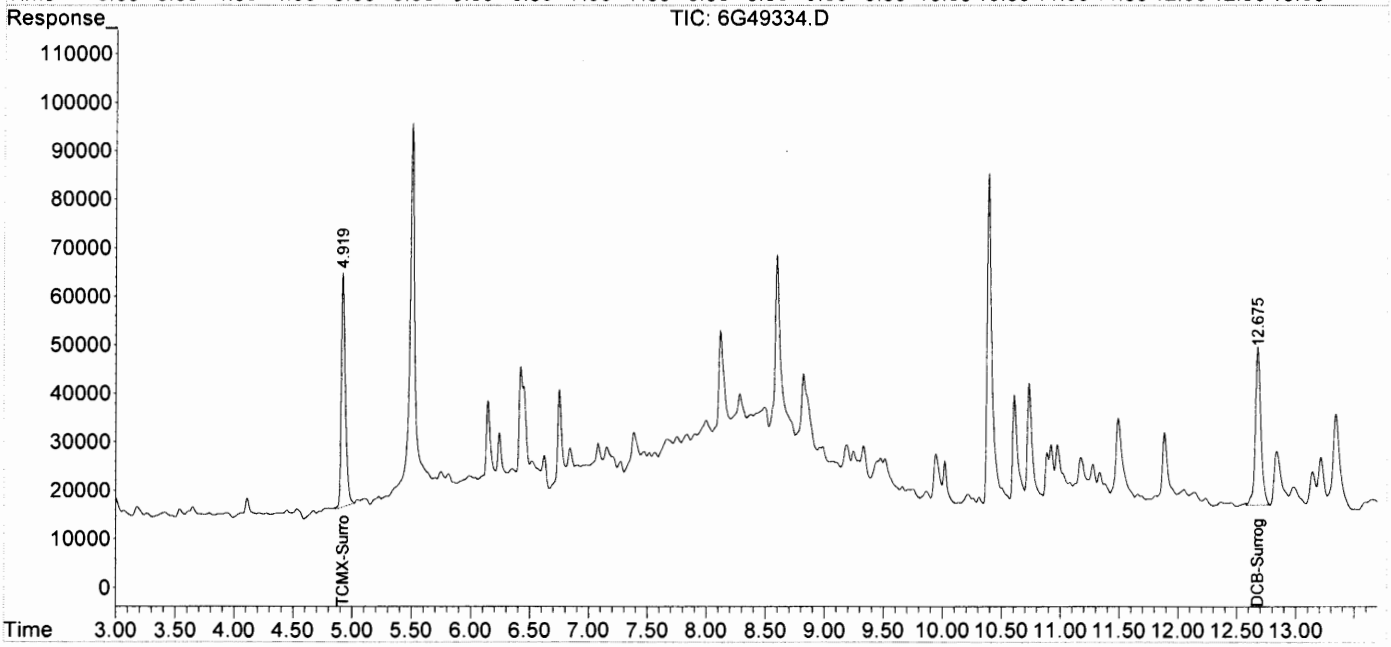
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49334.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 3:58
Operator : MLC/MAS
Sample : AC78787-015
Misc : S,PEST
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:49:11 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-016
Client Id: EXT 3 U
Data File: 5G51965.D
Analysis Date: 05/23/14 13:44
Date Rec/Extracted: 05/20/14-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 900ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.011	U	7421-93-4	Endrin Aldehyde	0.011	U
319-84-6	alpha-BHC	0.011	U	53494-70-5	Endrin Ketone	0.011	U
319-85-7	beta-BHC	0.011	U	58-89-9	gamma-BHC	0.011	U
57-74-9	Chlordane	0.11	U	76-44-8	Heptachlor	0.011	U
319-86-8	delta-BHC	0.011	U	1024-57-3	Heptachlor Epoxide	0.011	U
60-57-1	Dieldrin	0.011	U	72-43-5	Methoxychlor	0.011	U
959-98-8	Endosulfan I	0.011	U	72-54-8	p,p'-DDD	0.011	U
33213-65-9	Endosulfan II	0.011	U	72-55-9	p,p'-DDE	0.011	U
1031-07-8	Endosulfan Sulfate	0.011	U	50-29-3	p,p'-DDT	0.011	U
72-20-8	Endrin	0.011	U	8001-35-2	Toxaphene	0.28	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 1240

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51965.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 13:44:30
Operator : MAS/MLC
Sample : AC78787-016
Misc : A,PEST
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:10:30 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.213	6.083	148.9E6	112.7E6	60.488	62.735
22)DCB-Surrogate	13.174	13.489	154.5E6	126.7E6	86.820	96.662

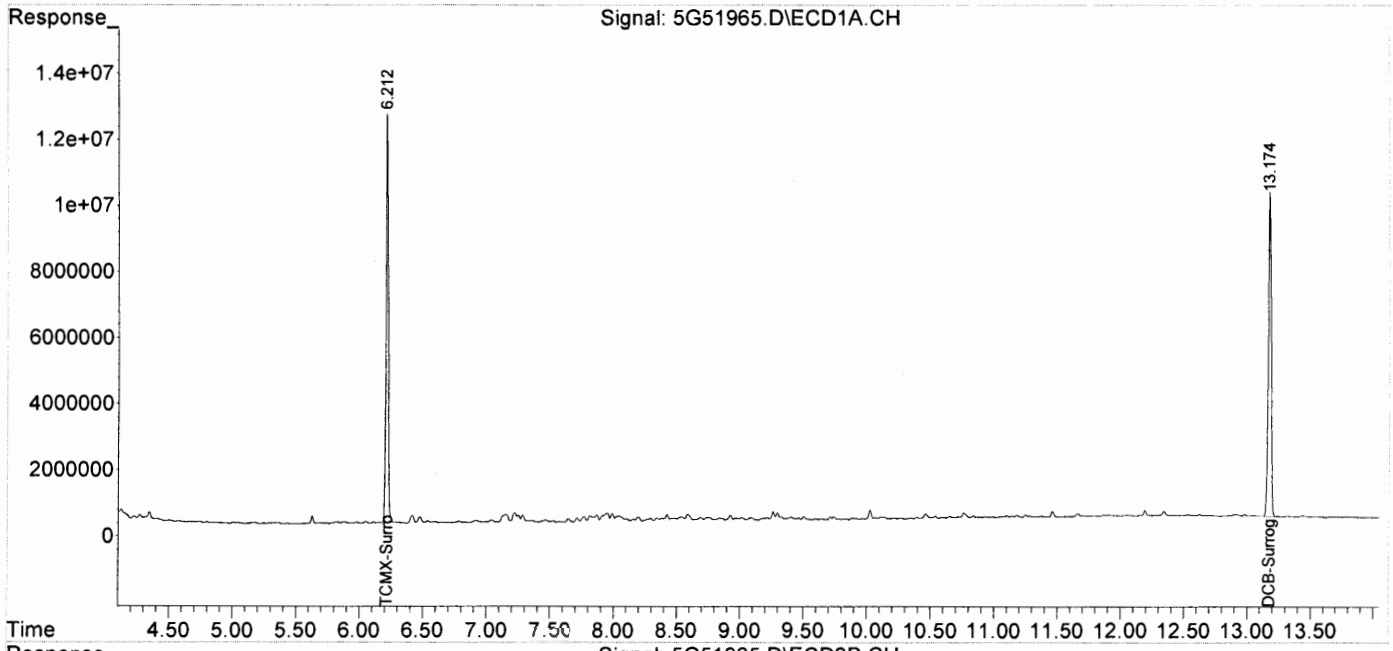
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

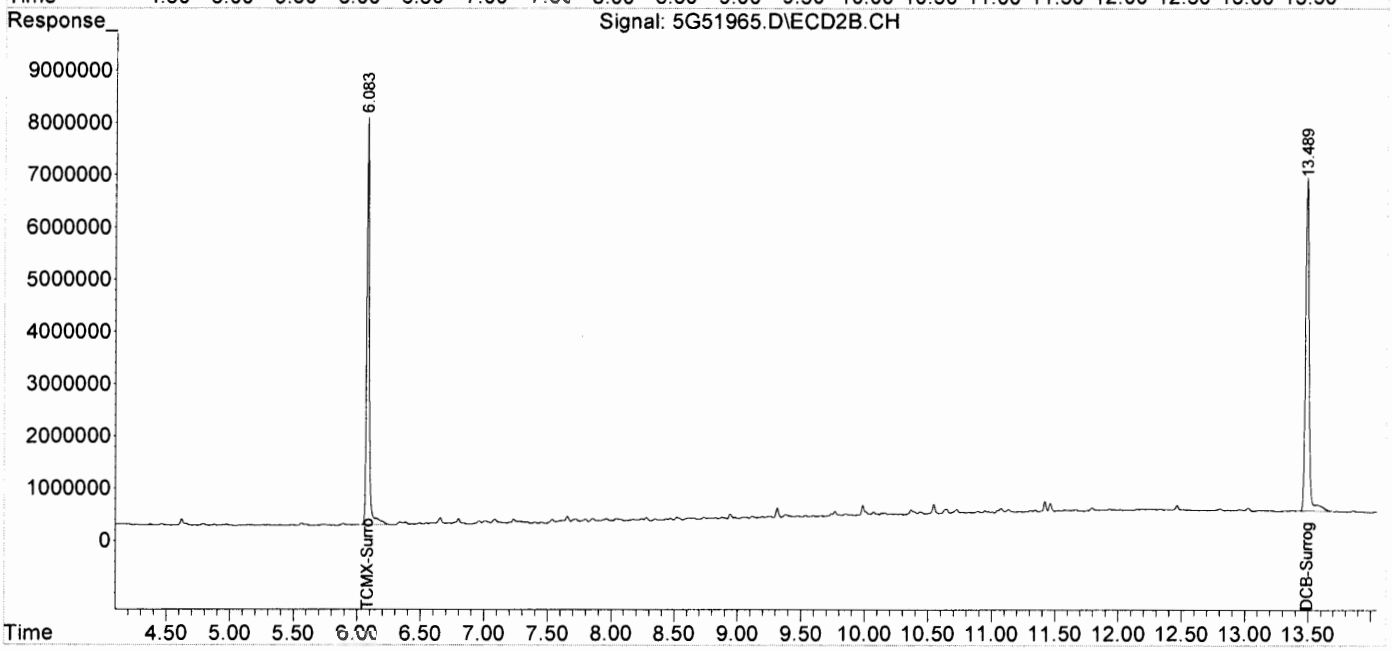
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51965.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 13:44:30
Operator : MAS/MLC
Sample : AC78787-016
Misc : A,PEST
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:10:30 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-018
Client Id: EXT 3(27-29')
Data File: 5G52075.D
Analysis Date: 05/30/14 01:02
Date Rec/Extracted: 05/20/14-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0057	U	7421-93-4	Endrin Aldehyde	0.0057	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0057	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.029	U	76-44-8	Heptachlor	0.0057	U
319-86-8	delta-BHC	0.0057	U	1024-57-3	Heptachlor Epoxide	0.0057	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0057	U
959-98-8	Endosulfan I	0.0057	U	72-54-8	p,p'-DDD	0.0029	U
33213-65-9	Endosulfan II	0.0057	U	72-55-9	p,p'-DDE	0.0029	U
1031-07-8	Endosulfan Sulfate	0.0057	U	50-29-3	p,p'-DDT	0.0029	U
72-20-8	Endrin	0.0057	U	8001-35-2	Toxaphene	0.029	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 1243

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52075.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 01:02:20
Operator : MAS/MLC
Sample : AC78787-018
Misc : S,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:41:44 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.202	6.072	173.1E6	124.9E6	70.307m	69.478
22)DCB-Surrogate	13.168	13.485	171.2E6	132.1E6	96.181m	100.728m

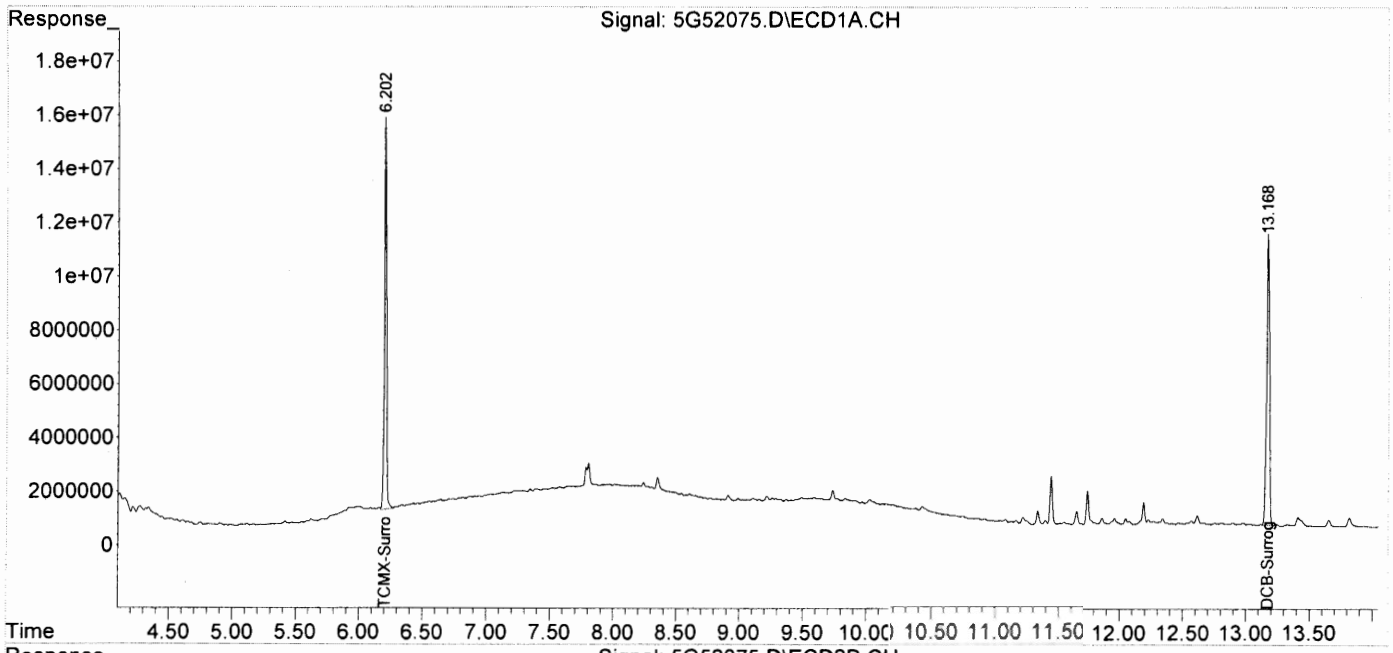
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

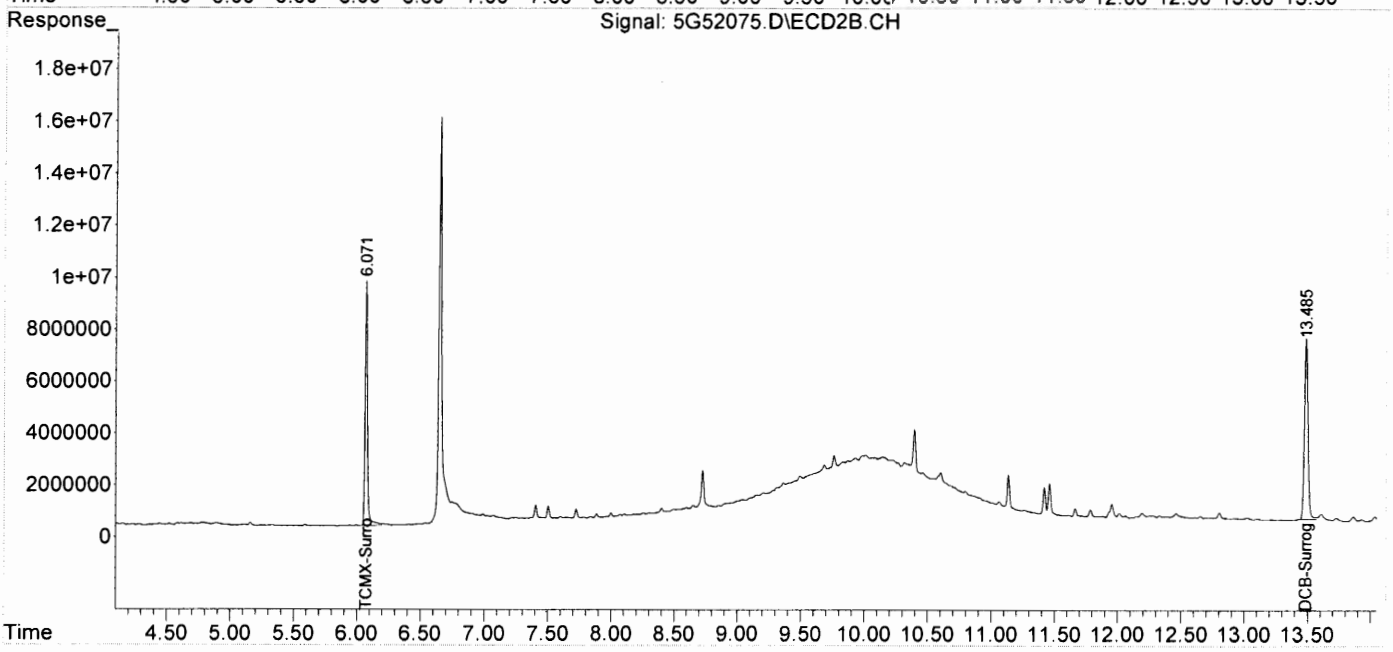
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52075.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 01:02:20
Operator : MAS/MLC
Sample : AC78787-018
Misc : S,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:41:44 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-019
Client Id: SUMP1(0-2')
Data File: 5G52101.D
Analysis Date: 05/30/14 10:54
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0054	U	7421-93-4	Endrin Aldehyde	0.0054	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0054	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0054	U
319-86-8	delta-BHC	0.0054	U	1024-57-3	Heptachlor Epoxide	0.0054	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0054	U
959-98-8	Endosulfan I	0.0054	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0054	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0054	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0054	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 1246

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52101.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 10:54:51
Operator : MAS/MLC
Sample : AC78787-019
Misc : S,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 13:11:19 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.204	6.072	127.5E6	97658665	51.797m	54.344m
22)DCB-Surrogate	13.169	13.487	101.1E6	72136686	56.797m	55.014m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

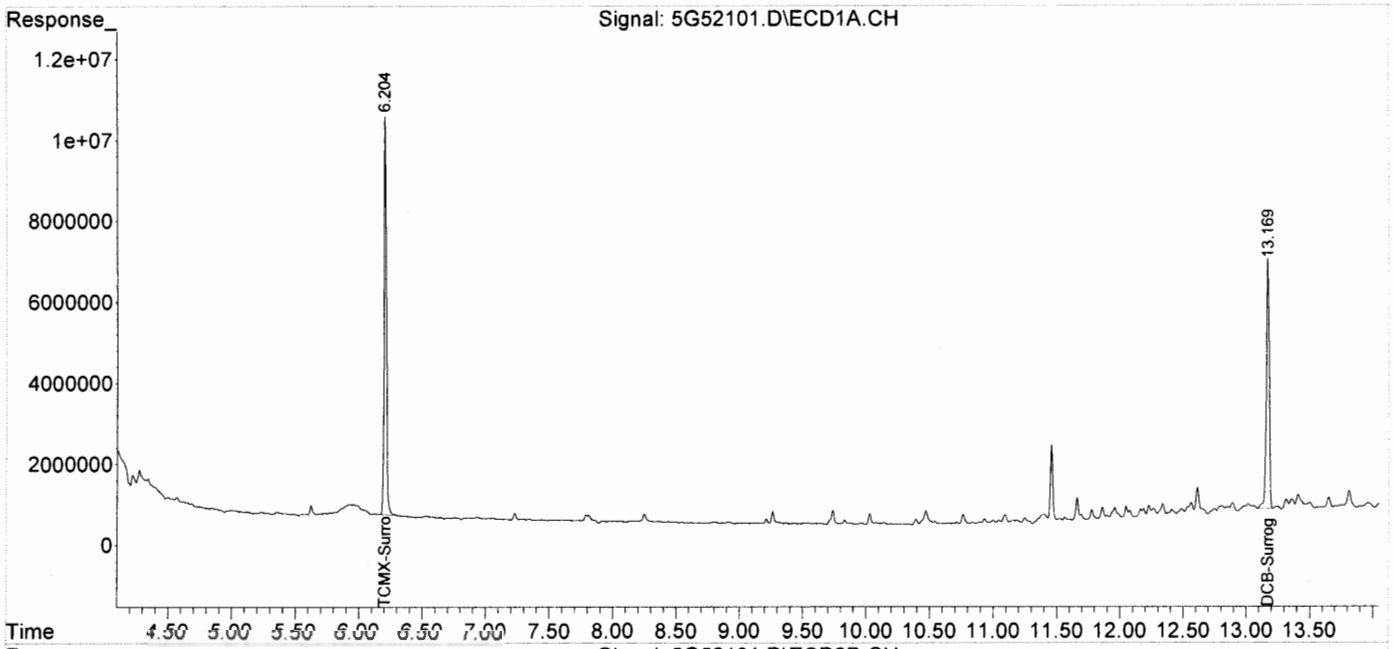
15

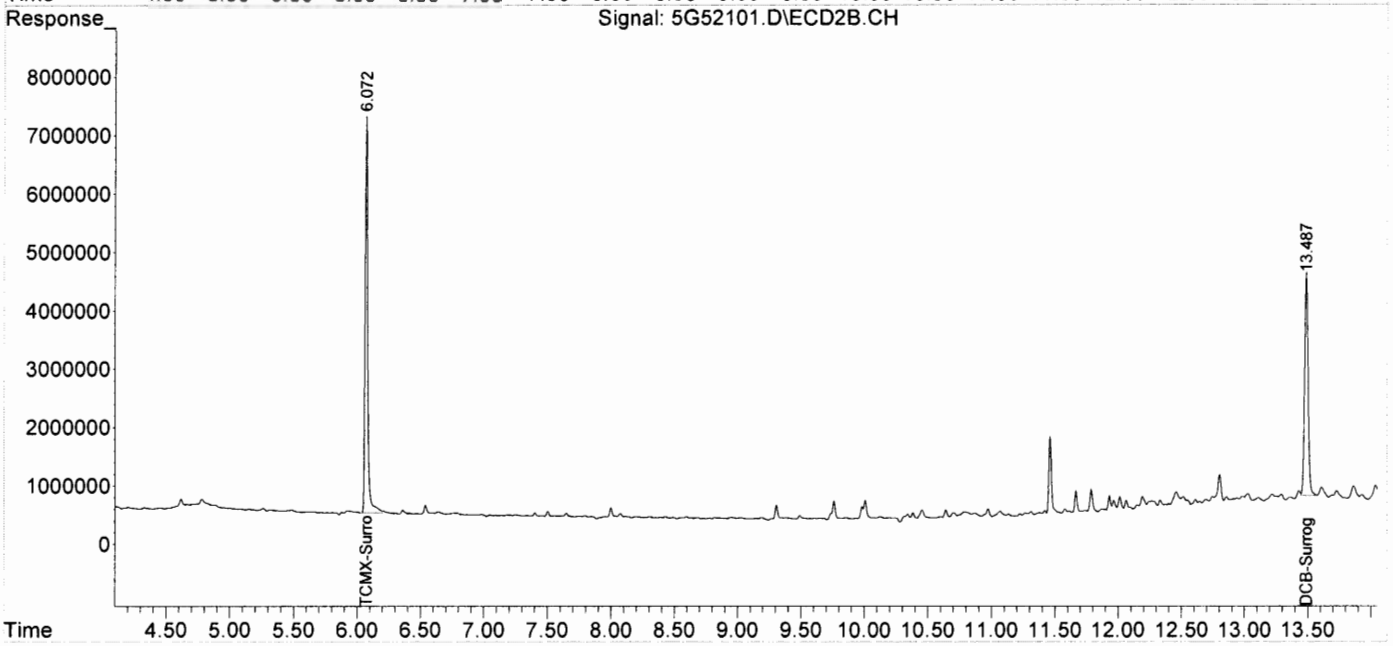
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52101.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 10:54:51
Operator : MAS/MLC
Sample : AC78787-019
Misc : S,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 13:11:19 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-020
Client Id: SUMP1(3-5')
Data File: 5G52080.D
Analysis Date: 05/30/14 02:31
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 94

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0053	U	7421-93-4	Endrin Aldehyde	0.0053	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0053	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0053	U
319-86-8	delta-BHC	0.0053	U	1024-57-3	Heptachlor Epoxide	0.0053	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0053	U
959-98-8	Endosulfan I	0.0053	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0053	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0053	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0053	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 1249

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52080.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 02:31:00
Operator : MAS/MLC
Sample : AC78787-020
Misc : S,PEST
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:44:34 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.203	6.072	180.8E6	141.5E6	73.430	78.766
22)DCB-Surrogate	13.167	13.484	150.4E6	111.5E6	84.528	85.025m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

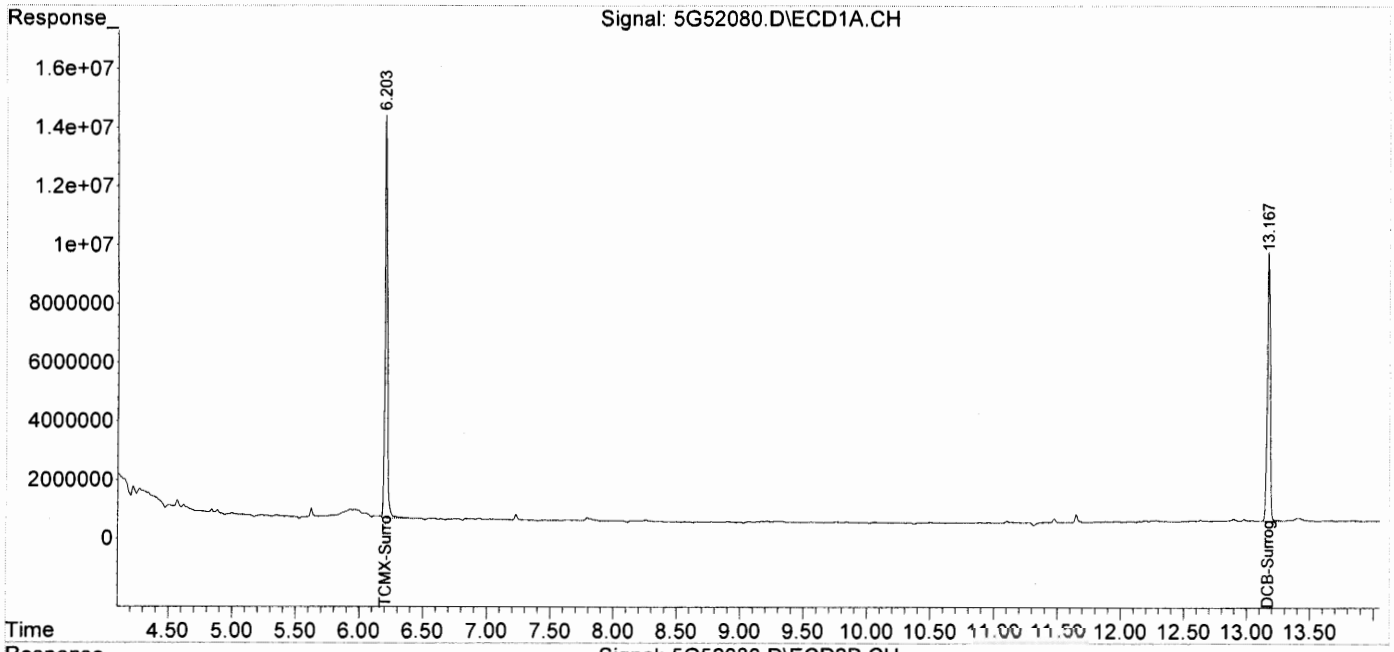
5

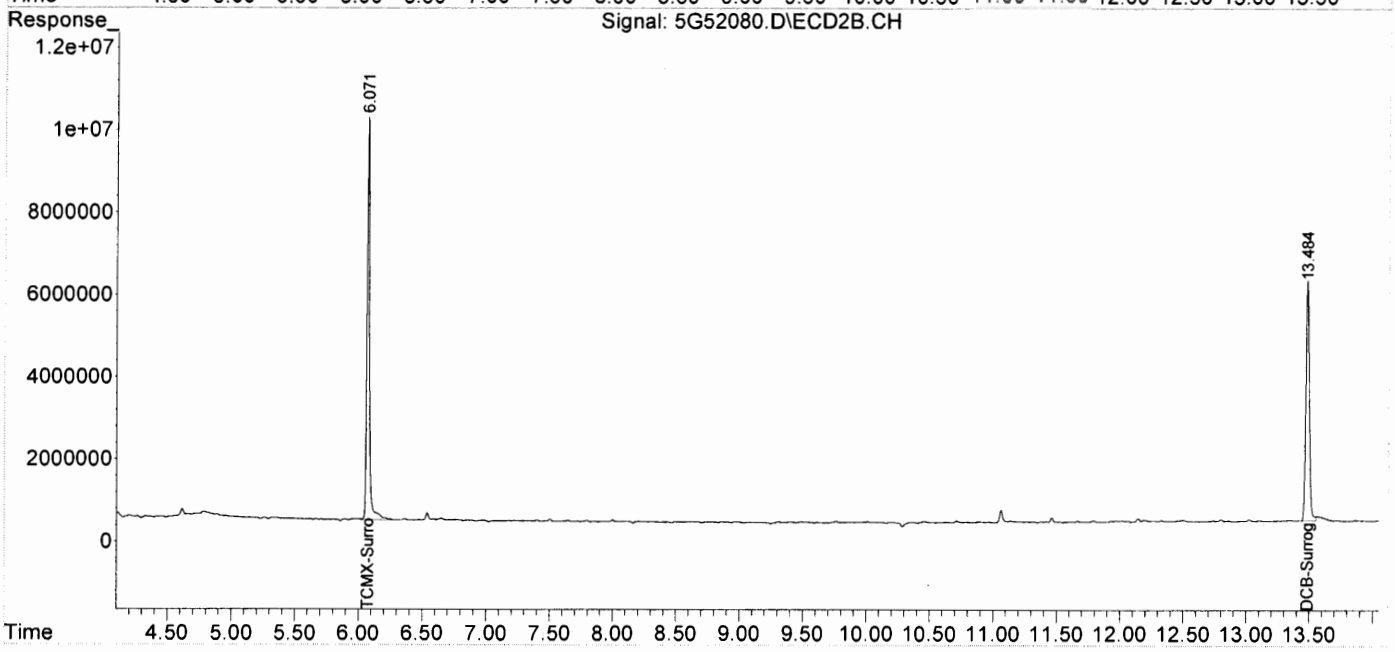
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52080.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 02:31:00
Operator : MAS/MLC
Sample : AC78787-020
Misc : S,PEST
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:44:34 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-021
Client Id: BASE 1(0-2')
Data File: 6G49337.D
Analysis Date: 05/30/14 04:50
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0056	U	7421-93-4	Endrin Aldehyde	0.0056	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0056	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.028	U	76-44-8	Heptachlor	0.0056	U
319-86-8	delta-BHC	0.0056	U	1024-57-3	Heptachlor Epoxide	0.0056	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0056	U
959-98-8	Endosulfan I	0.0056	U	72-54-8	p,p'-DDD	0.0028	U
33213-65-9	Endosulfan II	0.0056	U	72-55-9	p,p'-DDE	0.0028	U
1031-07-8	Endosulfan Sulfate	0.0056	U	**50-29-3**	**(^)p,p'-DDT**	**0.0028**	**0.0063 d**
72-20-8	Endrin	0.0056	U	8001-35-2	Toxaphene	0.028	U

Worksheet #: 304445

Total Target Concentration 0.0063

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49337.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 4:50
Operator : MLC/MAS
Sample : AC78787-021
Misc : S,PEST
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:56:41 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.076	4.920	731369	790611	67.287	56.229
17)p,p'-DDT	9.957	9.765	142426	105188	19.533m	11.233m#
22)DCB-Surrogate	12.346	12.675	621766	715228	65.705m	61.371m

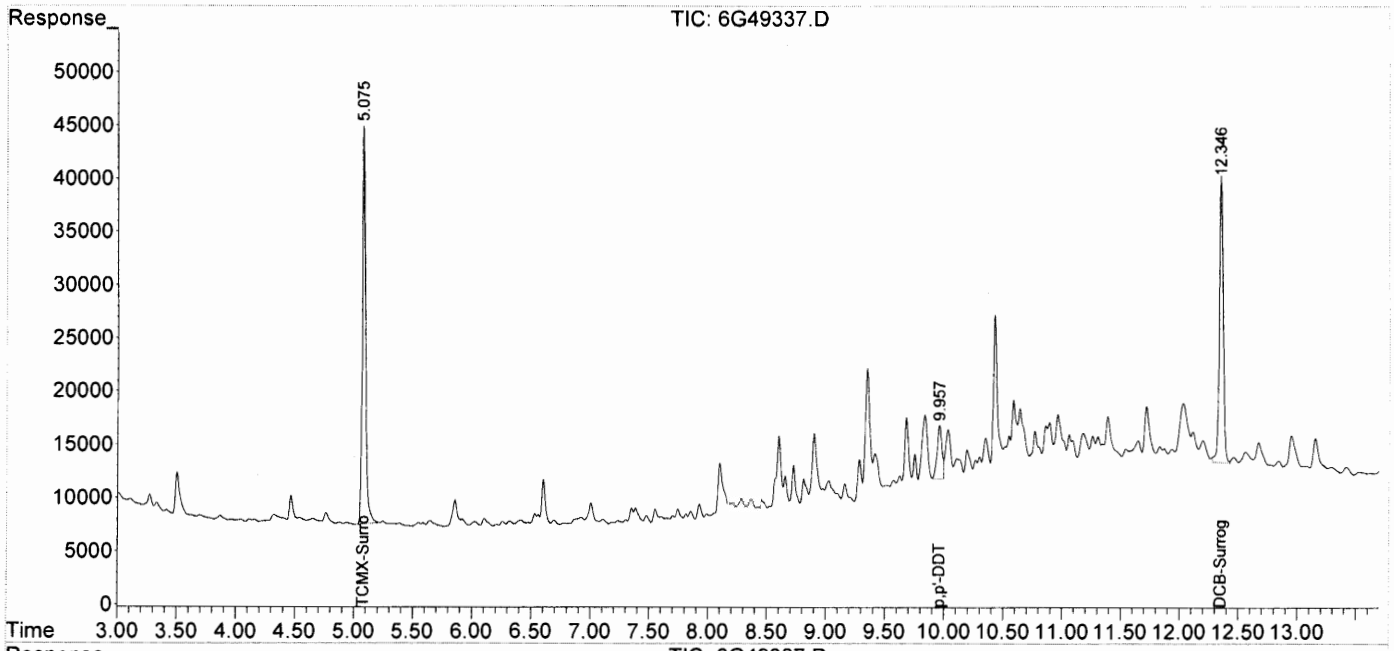
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

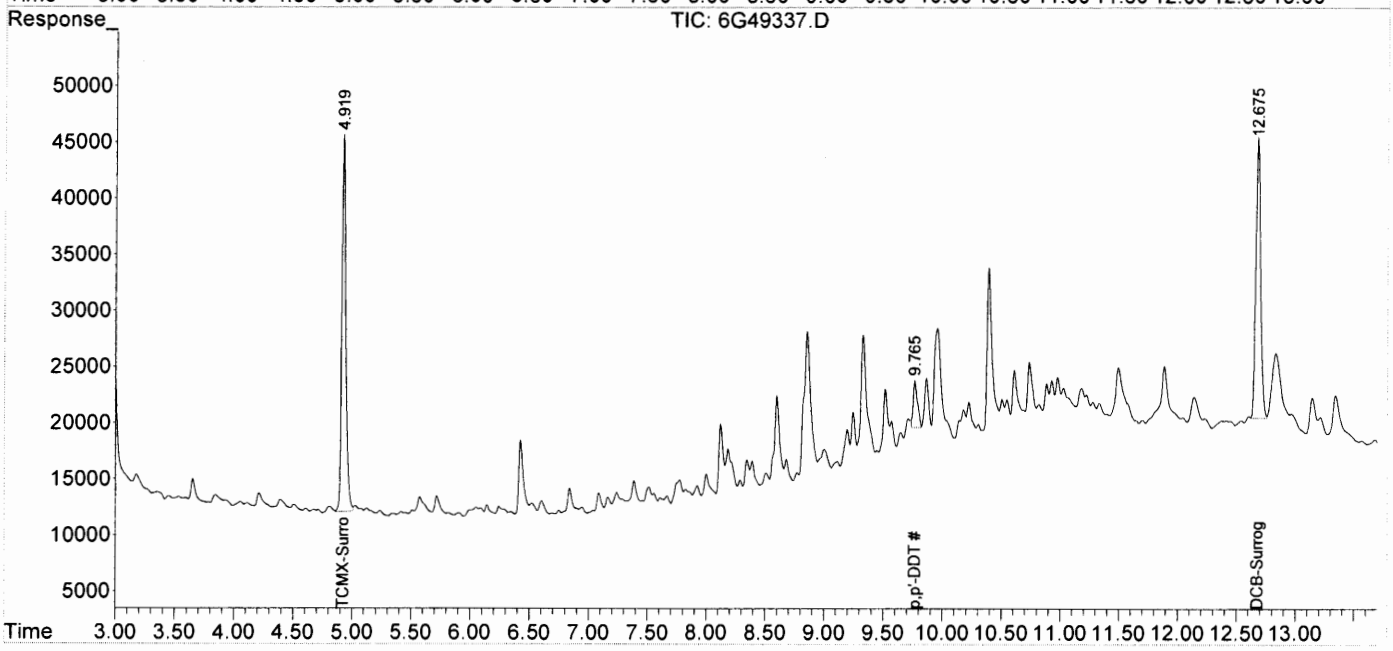
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49337.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 4:50
Operator : MLC/MAS
Sample : AC78787-021
Misc : S,PEST
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 11:56:41 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-022
Client Id: BASE 1(3-5')
Data File: 5G52094.D
Analysis Date: 05/30/14 06:39
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0054	U	7421-93-4	Endrin Aldehyde	0.0054	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0054	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0054	U
319-86-8	delta-BHC	0.0054	U	1024-57-3	Heptachlor Epoxide	0.0054	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0054	U
959-98-8	Endosulfan I	0.0054	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0054	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0054	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0054	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 1255

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52094.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 06:39:26
Operator : MAS/MLC
Sample : AC78787-022
Misc : S,PEST
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:48:46 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.204	6.073	175.3E6	128.3E6	71.173	71.381
22)DCB-Surrogate	13.170	13.487	155.1E6	113.3E6	87.178m	86.394m

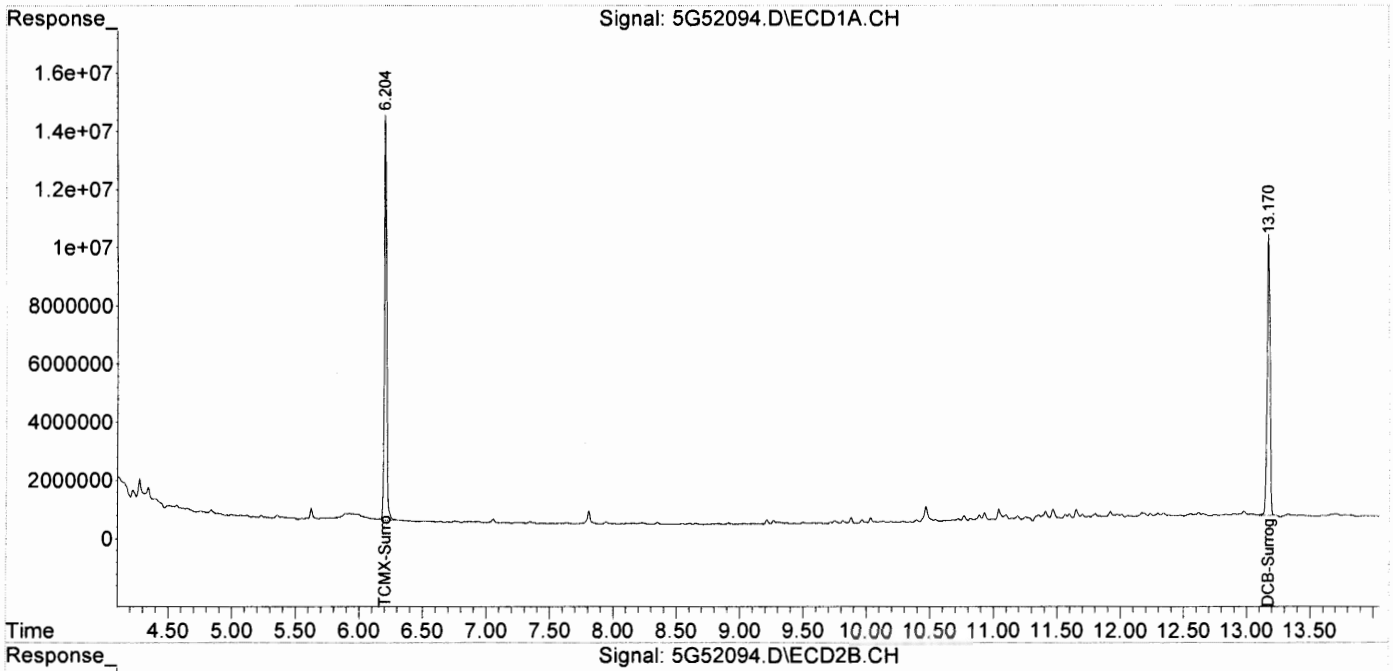
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

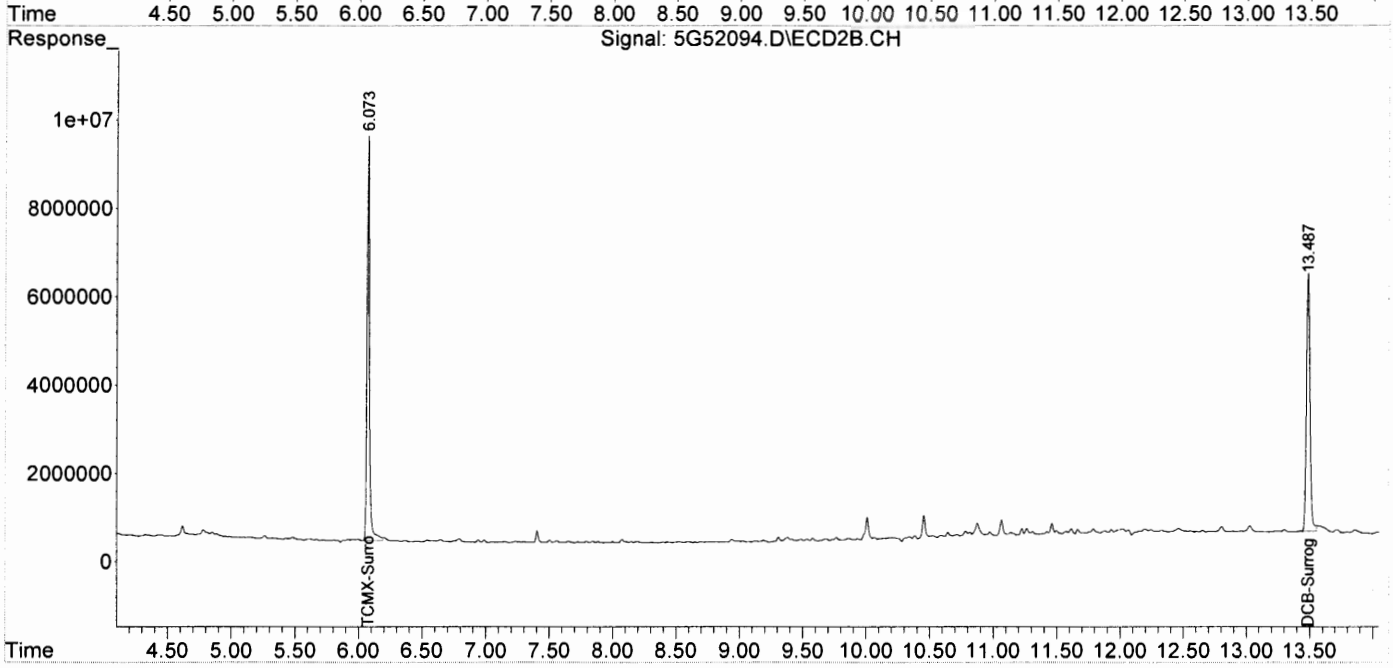
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52094.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 06:39:26
Operator : MAS/MLC
Sample : AC78787-022
Misc : S,PEST
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:48:46 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-023
Client Id: BASE 2 (0-2')
Data File: 5G52079.D
Analysis Date: 05/30/14 02:13
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0054	U	7421-93-4	Endrin Aldehyde	0.0054	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0054	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0054	U
319-86-8	delta-BHC	0.0054	U	1024-57-3	Heptachlor Epoxide	0.0054	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0054	U
959-98-8	Endosulfan I	0.0054	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0054	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0054	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0054	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52079.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 02:13:15
Operator : MAS/MLC
Sample : AC78787-023
Misc : S,PEST
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:43:59 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.204	6.072	171.8E6	137.1E6	69.779	76.292
22)DCB-Surrogate	13.169	13.487	141.5E6	106.7E6	79.521m	81.403m

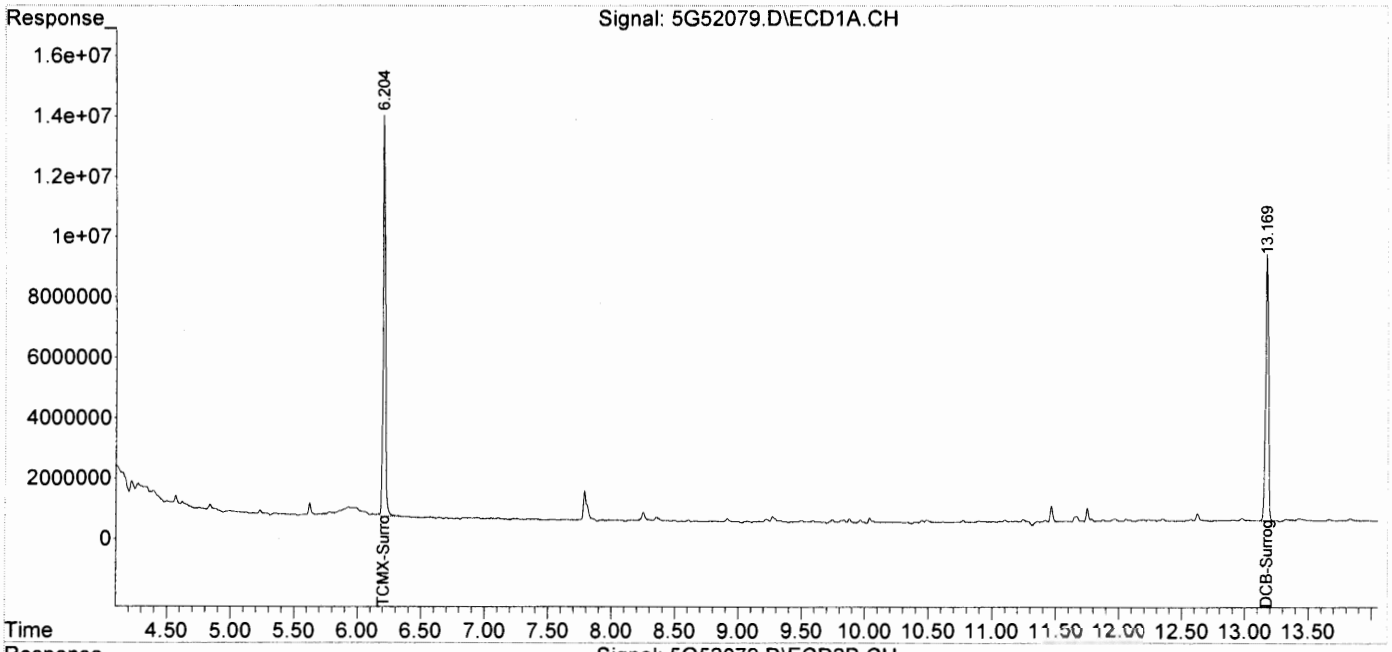
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

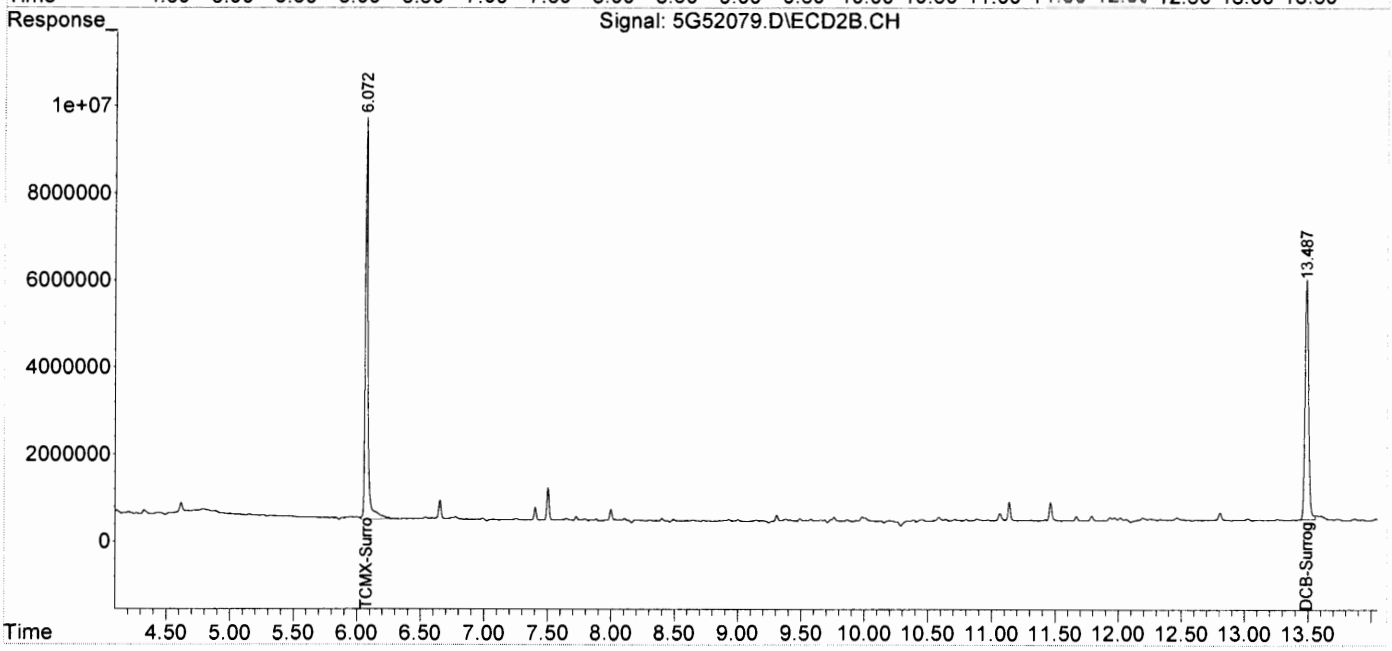
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52079.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 02:13:15
Operator : MAS/MLC
Sample : AC78787-023
Misc : S,PEST
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:43:59 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-024
Client Id: BASE 2 (3-5')
Data File: 5G52078.D
Analysis Date: 05/30/14 01:55
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0053	U	7421-93-4	Endrin Aldehyde	0.0053	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0053	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.026	U	76-44-8	Heptachlor	0.0053	U
319-86-8	delta-BHC	0.0053	U	1024-57-3	Heptachlor Epoxide	0.0053	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0053	U
959-98-8	Endosulfan I	0.0053	U	72-54-8	p,p'-DDD	0.0026	U
33213-65-9	Endosulfan II	0.0053	U	72-55-9	p,p'-DDE	0.0026	U
1031-07-8	Endosulfan Sulfate	0.0053	U	50-29-3	p,p'-DDT	0.0026	U
72-20-8	Endrin	0.0053	U	8001-35-2	Toxaphene	0.026	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4052101 1261

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52078.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 01:55:24
Operator : MAS/MLC
Sample : AC78787-024
Misc : S,PEST
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:43:17 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.204	6.073	184.3E6	139.6E6	74.848	77.656
22)DCB-Surrogate	13.170	13.487	152.7E6	119.0E6	85.829	90.766

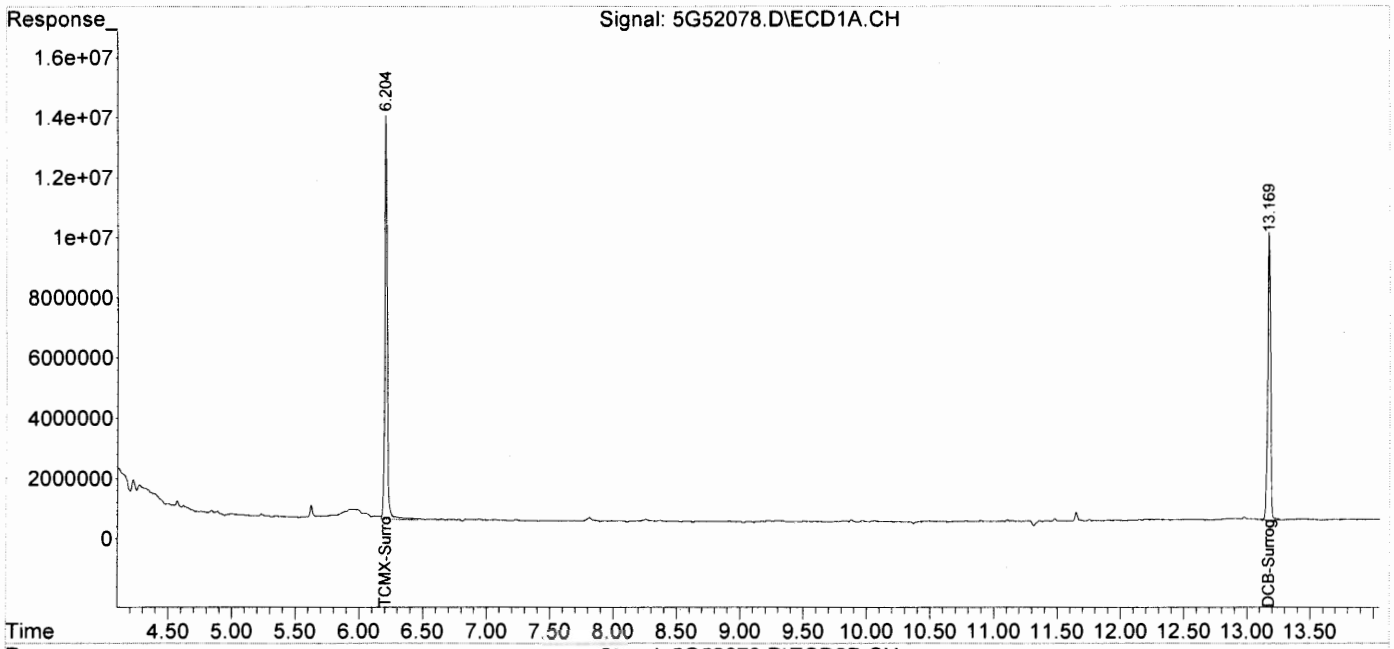
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

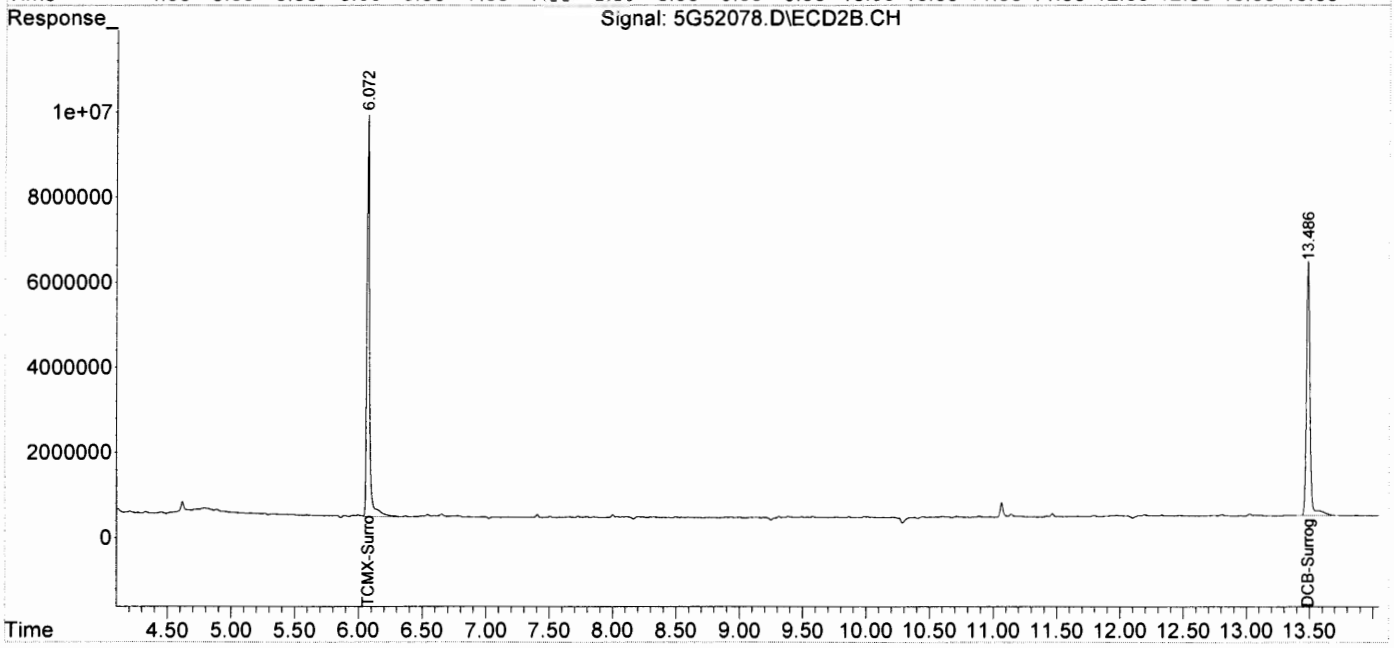
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52078.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 01:55:24
Operator : MAS/MLC
Sample : AC78787-024
Misc : S,PEST
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:43:17 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-025
Client Id: BASE 3 (0-2')
Data File: 6G49330.D
Analysis Date: 05/30/14 02:48
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0054	U	7421-93-4	Endrin Aldehyde	0.0054	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0054	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0054	U
319-86-8	delta-BHC	0.0054	U	1024-57-3	Heptachlor Epoxide	0.0054	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0054	U
959-98-8	Endosulfan I	0.0054	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0054	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0054	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0054	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49330.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 2:48
Operator : MLC/MAS
Sample : AC78787-025
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:57:18 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.076	4.919	879717	1042547	81.470	74.441m
22)DCB-Surrogate	12.347	12.674	763259	951338	81.468	82.274

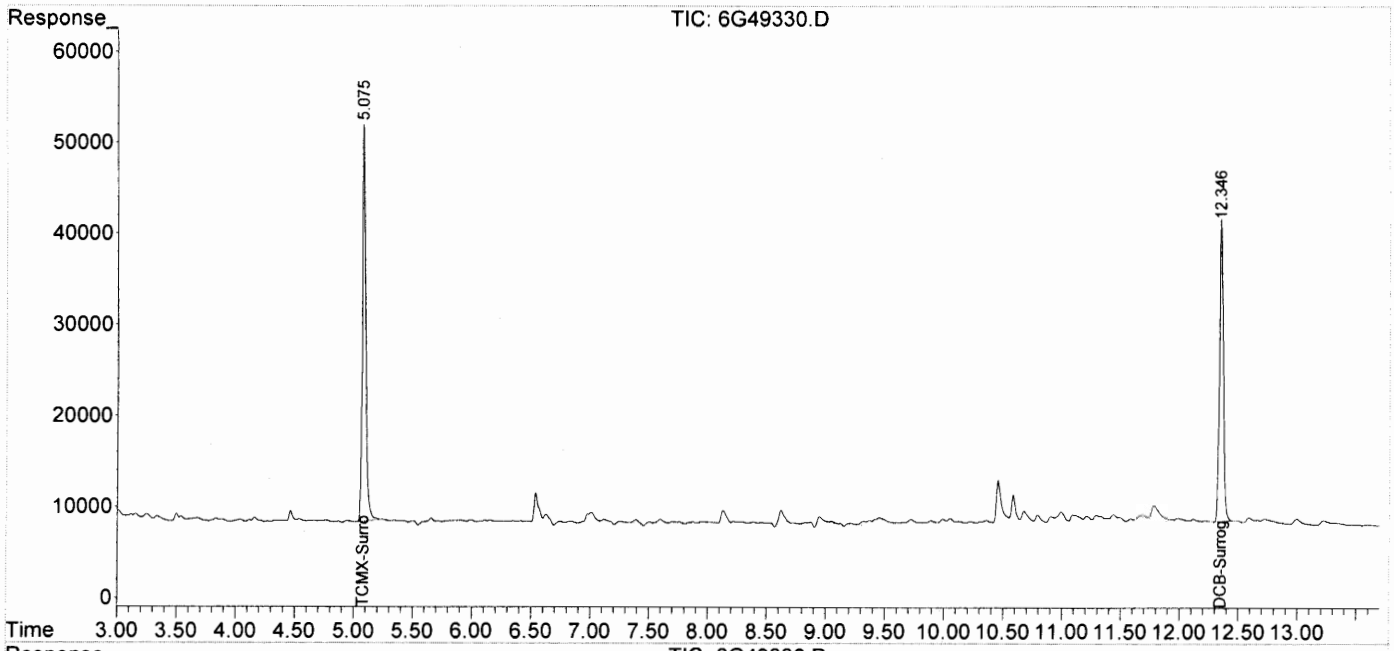
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

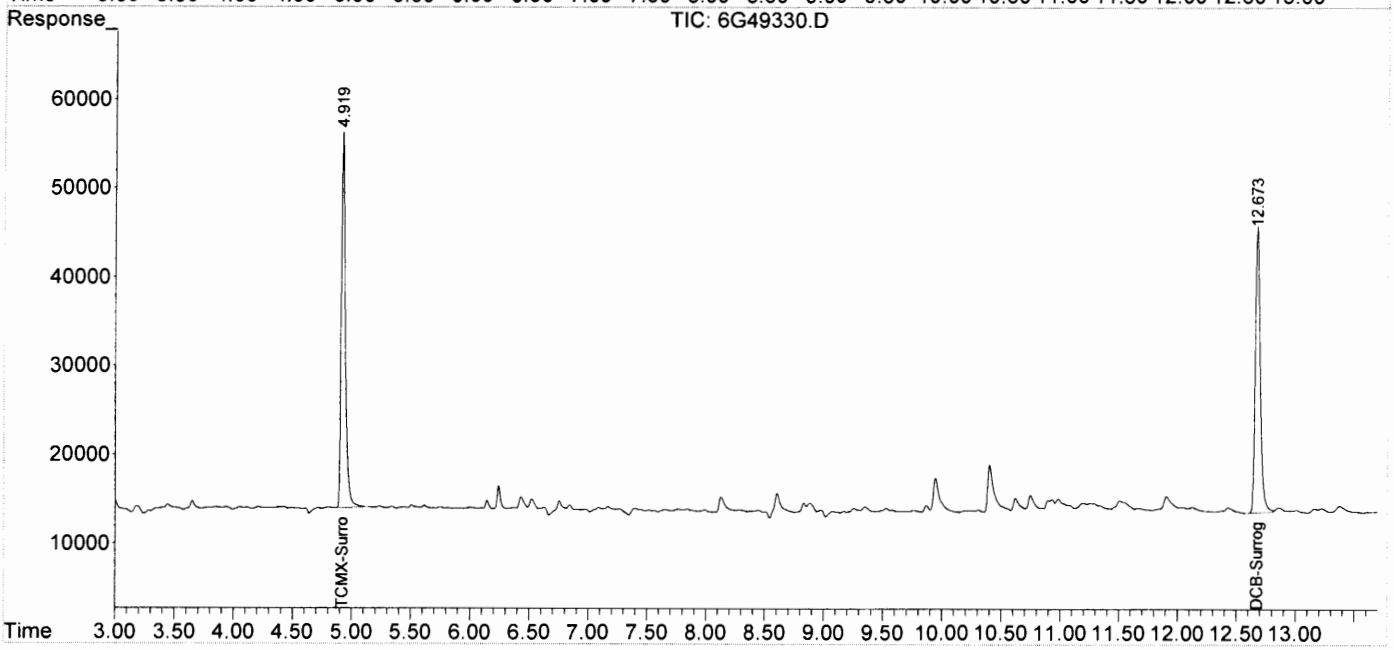
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49330.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 2:48
Operator : MLC/MAS
Sample : AC78787-025
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:57:18 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC78787-026
Client Id: BASE 3 (3-5')
Data File: 5G52077.D
Analysis Date: 05/30/14 01:37
Date Rec/Extracted: 05/20/14-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0054	U	7421-93-4	Endrin Aldehyde	0.0054	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0054	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0054	U
319-86-8	delta-BHC	0.0054	U	1024-57-3	Heptachlor Epoxide	0.0054	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0054	U
959-98-8	Endosulfan I	0.0054	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0054	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0054	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0054	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4052101 1267

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52077.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 01:37:42
Operator : MAS/MLC
Sample : AC78787-026
Misc : S,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:42:49 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.204	6.072	161.3E6	123.3E6	65.488	68.610
22)DCB-Surrogate	13.168	13.485	134.7E6	101.9E6	75.712	77.729m

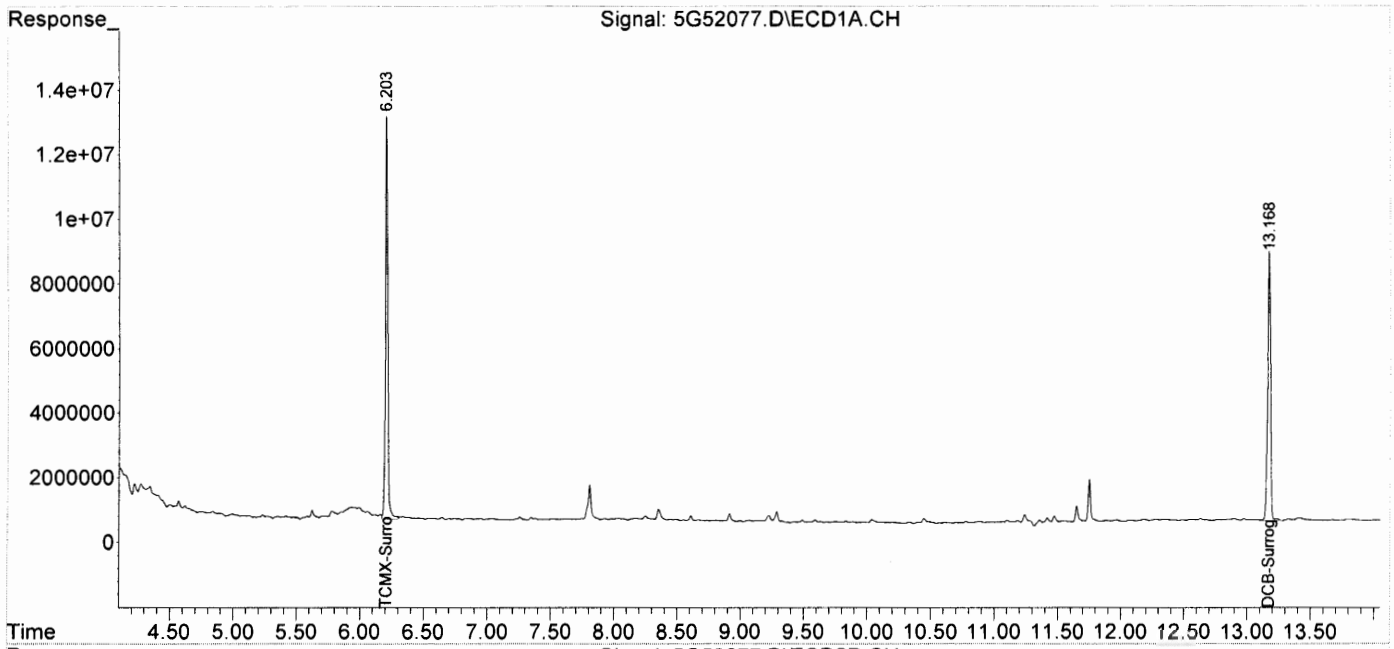
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

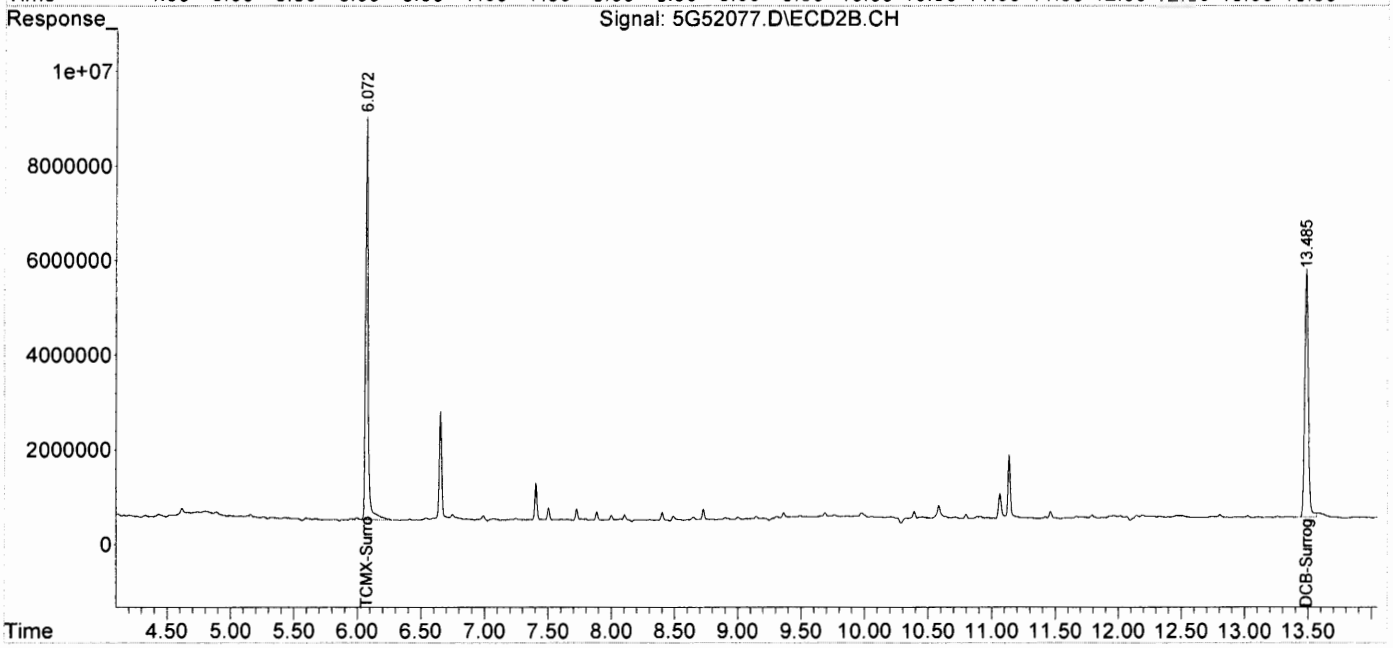
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52077.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 01:37:42
Operator : MAS/MLC
Sample : AC78787-026
Misc : S,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:42:49 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





GC Pesticide Data
Standards Data

4052101 1270

Method: EPA 8081B

Form 6
Initial Calibration

Instrument: GC_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5G51413.	CAL PEST@2PPB	04/22/14 11:50	2	5G51414.	CAL PEST@10PPB	04/22/14 12:08
3	5G51415.	CAL PEST@50PPB	04/22/14 12:26	4	5G51416.	CAL PEST@100PPB	04/22/14 12:44
5	5G51417.	CAL PEST@200PPB	04/22/14 13:01	6	5G51418.	CAL PEST@400PPB	04/22/14 13:19
7	5G51411.	CAL CHLOR@100PP	04/22/14 11:15	8	5G51412.	CAL TOX@500PPB	04/22/14 11:33

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	256.84	231.64	214.96	217.68	216.93	220.48	----	----	226	6.21	1.00	1.00	7.1	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Avg	290.58	293.97	292.88	308.52	317.22	337.66	----	----	307	7.47	0.999	1.00	6.0	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	Avg	297.47	280.44	267.11	276.54	282.05	302.39	----	----	284	7.99	0.999	1.00	4.7	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	Avg	135.19	118.51	109.80	112.63	112.37	115.24	----	----	117	8.88	1.00	1.00	7.9	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	Avg	249.72	236.96	225.85	230.96	229.77	233.71	----	----	234	8.28	1.00	1.00	3.6	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	260.69	233.05	235.78	246.14	252.62	268.50	----	----	249	9.20	0.999	1.00	5.6	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	263.70	255.77	248.54	254.94	255.22	259.46	----	----	256	8.63	1.00	1.00	2.0	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	Avg	235.09	225.27	215.88	219.56	217.50	220.99	----	----	222	9.44	1.00	1.00	3.2	2.00	10.00	50.00	100.0	200.0	400.0		
γ-chlordane	1	0	Avg	228.90	220.07	214.82	222.47	225.87	235.58	----	----	225	9.82	0.999	1.00	3.2	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	1	0	Avg	222.60	212.25	204.62	211.58	213.85	222.53	----	----	215	9.89	1.00	1.00	3.2	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	Avg	207.44	201.88	195.79	200.29	199.31	203.87	----	----	201	9.78	1.00	1.00	2.0	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	210.40	210.41	209.25	218.64	221.88	231.68	----	----	217	9.98	0.999	1.00	4.1	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	Avg	210.07	208.94	208.40	215.33	216.92	223.78	----	----	214	10.21	1.00	1.00	2.8	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	Avg	156.15	156.49	151.72	157.73	156.81	167.16	----	----	158	10.45	0.999	1.00	3.2	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	Avg	185.16	170.52	166.82	173.33	176.35	186.87	----	----	177	10.88	0.999	1.00	4.5	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	Avg	182.57	177.48	176.01	181.59	184.91	194.88	----	----	183	10.99	0.999	1.00	3.7	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	Qua	89.466	117.82	139.48	154.01	162.70	179.47	----	----	140	11.08	0.997	1.00	23	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	Avg	111.22	125.91	133.67	138.59	140.49	143.90	----	----	132	11.45	1.00	1.00	9.1	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	Avg	153.70	150.44	152.99	159.32	162.52	170.32	----	----	158	11.80	0.999	1.00	4.7	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	Qua	61.407	71.416	75.056	81.220	83.468	88.795	----	----	76.9	11.73	0.999	1.00	13	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Avg	151.24	157.78	160.41	170.03	175.01	186.93	----	----	167	12.28	0.999	1.00	7.8	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	Avg	182.00	174.01	157.48	160.26	161.05	168.35	----	----	167	13.19	0.999	1.00	5.7	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane	1	1	Avg	----	----	----	----	----	----	----	----	10.9	8.28	-1	-1	Lvl=7	100.0							
Chlordane	1	2	Avg	----	----	----	----	----	----	----	----	23.1	9.82	-1	-1	Lvl=7	100.0							
Chlordane	1	3	Avg	----	----	----	----	----	----	----	----	32.0	9.89	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	----	----	----	----	----	----	----	----	1.07	10.24	-1	-1	Lvl=8	500.0							
Toxaphene	1	2	Avg	----	----	----	----	----	----	----	----	2.86	10.57	-1	-1	Lvl=8	500.0							
Toxaphene	1	3	Avg	----	----	----	----	----	----	----	----	3.19	11.02	-1	-1	Lvl=8	500.0							
Toxaphene	1	4	Avg	----	----	----	----	----	----	----	----	2.92	11.32	-1	-1	Lvl=8	500.0							
Toxaphene	1	5	Avg	----	----	----	----	----	----	----	----	3.85	11.76	-1	-1	Lvl=8	500.0							
TCMX-Surrogate	2	0	Avg	186.12	180.55	171.60	168.88	164.73	152.54	----	----	171	6.07	0.998	1.00	7.0	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	Avg	250.19	248.59	243.12	246.62	243.30	243.08	----	----	246	7.08	1.00	1.00	1.3	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	Avg	230.14	220.62	214.91	218.72	215.35	215.16	----	----	219	7.62	1.00	1.00	2.7	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	Avg	126.85	113.22	104.73	105.09	103.17	101.46	----	----	109	7.71	1.00	1.00	8.8	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	Avg	208.76	184.59	173.16	175.77	169.33	164.78	----	----	179	8.05	1.00	1.00	8.8	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	Avg	215.93	207.73	211.40	214.27	212.02	212.30	----	----	212	8.19	1.00	1.00	1.3	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 5.9 Avg Rsd Col 2: 4.44

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

4052101 1271

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5G51413.	CAL PEST@2PPB	04/22/14 11:50	2	5G51414.	CAL PEST@10PPB	04/22/14 12:08
3	5G51415.	CAL PEST@50PPB	04/22/14 12:26	4	5G51416.	CAL PEST@100PPB	04/22/14 12:44
5	5G51417.	CAL PEST@200PPB	04/22/14 13:01	6	5G51418.	CAL PEST@400PPB	04/22/14 13:19
7	5G51411.	CAL CHLOR@100PP	04/22/14 11:15	8	5G51412.	CAL TOX@500PPB	04/22/14 11:33

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	Avg	206.26	197.56	190.34	192.60	185.15	179.50	----	----	192	8.48	1.00	1.00	4.9	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	Avg	185.48	174.42	162.92	163.13	156.31	151.95	----	----	166	9.19	1.00	1.00	7.4	2.00	10.00	50.00	100.0	200.0	400.0		
γ-chlordane	2	0	Avg	194.57	182.61	172.84	176.46	172.80	172.11	----	----	179	9.39	1.00	1.00	4.9	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	2	0	Avg	169.88	165.03	156.20	159.25	155.93	155.24	----	----	160	9.58	1.00	1.00	3.7	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	Avg	181.63	185.16	172.06	170.54	164.10	159.04	----	----	172	9.63	1.00	1.00	5.8	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	Avg	166.85	163.83	160.44	168.19	162.71	162.14	----	----	164	9.87	1.00	1.00	1.8	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	Avg	174.08	168.31	162.76	165.20	164.07	161.52	----	----	166	10.00	1.00	1.00	2.8	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	125.54	119.92	111.92	114.27	110.24	112.03	----	----	116	10.44	1.00	1.00	5.1	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	Avg	140.92	134.88	132.37	136.30	135.12	136.26	----	----	136	10.53	1.00	1.00	2.1	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	Avg	154.76	146.07	138.31	140.05	136.88	136.26	----	----	142	10.65	1.00	1.00	5.0	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	Avg	119.63	119.70	123.13	130.20	131.70	135.40	----	----	127	10.89	0.999	1.00	5.3	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	Avg	119.30	118.56	115.15	116.22	114.85	112.73	----	----	116	11.03	1.00	1.00	2.1	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	Avg	128.82	130.39	126.85	128.86	127.00	126.27	----	----	128	11.18	1.00	1.00	1.2	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	Avg	59.361	53.826	54.629	57.484	57.789	59.409	----	----	57.1	11.89	1.00	1.00	4.1	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	Avg	120.08	132.04	141.35	145.31	145.95	147.36	----	----	139	12.10	1.00	1.00	7.7	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	Avg	137.22	136.12	130.08	130.09	128.83	123.34	----	----	131	13.50	0.999	1.00	3.9	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane	2	1	Avg	----	----	----	----	----	----	----	----	8.35	7.84	-1	-1	Lvl=7	100.0							
Chlordane	2	2	Avg	----	----	----	----	----	----	----	----	20.4	9.39	-1	-1	Lvl=7	100.0							
Chlordane	2	3	Avg	----	----	----	----	----	----	----	----	16.6	9.58	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	----	----	----	----	----	----	----	----	0.977	10.23	-1	-1	Lvl=8	500.0							
Toxaphene	2	2	Avg	----	----	----	----	----	----	----	----	2.92	10.67	-1	-1	Lvl=8	500.0							
Toxaphene	2	3	Avg	----	----	----	----	----	----	----	----	2.47	10.93	-1	-1	Lvl=8	500.0							
Toxaphene	2	4	Avg	----	----	----	----	----	----	----	----	2.43	11.64	-1	-1	Lvl=8	500.0							
Toxaphene	2	5	Avg	----	----	----	----	----	----	----	----	2.39	11.71	-1	-1	Lvl=8	500.0							

Avg Rsd Col 1: 5.9 Avg Rsd Col 2: 4.44

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Quantitation Report (QT Reviewed)

4052101 1272

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51413.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 11:50:46
Operator : MAS/MLC
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 12:51:56 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 12:43:21 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.210	6.073	5136901	3722542	2.283	2.120m
2)alpha-BHC	7.471	7.079	5811726	5003853	1.872	2.074
3)gamma-BHC	7.993	7.616	5949435	4602965	2.077m	2.241
4)beta-BHC	8.882	7.706	2703922	2537035	2.248	2.429
5)Heptachlor	8.275	8.050	4994406	4175340	2.143	2.451
6)delta-BHC	9.203	8.192	5213946	4318651	2.080	2.171
7)Aldrin	8.633	8.482	5274093	4125331	2.011	2.163
8)Heptachlor Epoxid	9.442	9.186	4701828	3709736	2.043	2.206
9)y-chlordane	9.824	9.385	4578066	3891598	1.867	2.102
10)a-chlordane	9.888	9.582	4452071	3397742	1.888	2.202
11)Endosulfan I	9.784	9.625	4148885	3632679	2.113	2.067
12)p,p'-DDE	9.979	9.869	4208025	3337154	1.835	2.072
13)Dieldrin	10.209	9.998	4201470	3481667	1.871	2.009
14)Endrin	10.454	10.443	3123185	2510986	2.313	2.920 #
15)p,p'-DDD	10.881	10.533	3703218	2818478	2.070m	2.195
16)Endosulfan II	10.990	10.652	3651582	3095309	1.821m	1.995
17)p,p'-DDT	11.077	10.892	1789331	2392736	1.182m	1.976 #
18)Endrin Aldehyde	11.455	11.036	2224428	2386141	1.458m	1.834 #
19)Endosulfan Sulfat	11.802	11.177	3074159	2576408	1.748m	1.905
20)Methoxychlor	11.732	11.891	1228149	1187229	1.912m	2.289
21)Endrin Ketone	12.281	12.095	3024962	2401758	1.673m	1.607
22)DCB-Surrogate	13.185	13.496	3640196	2744498	2.042m	2.010
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

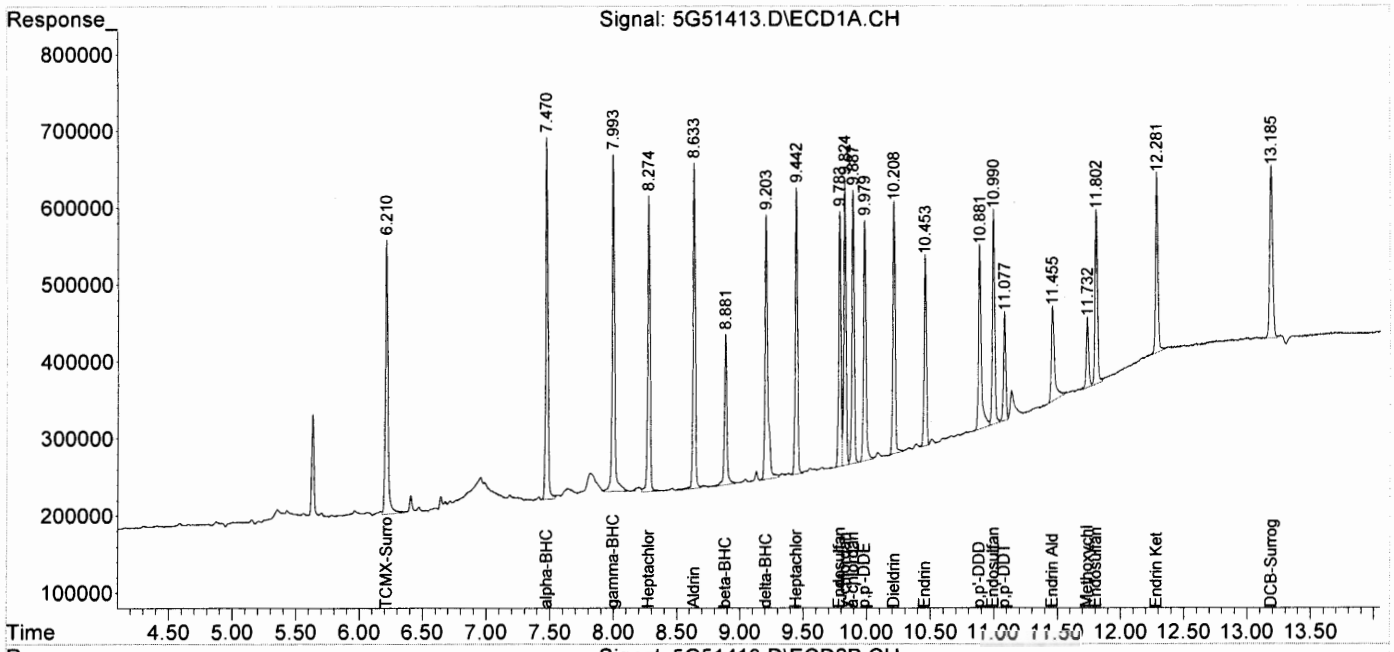
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

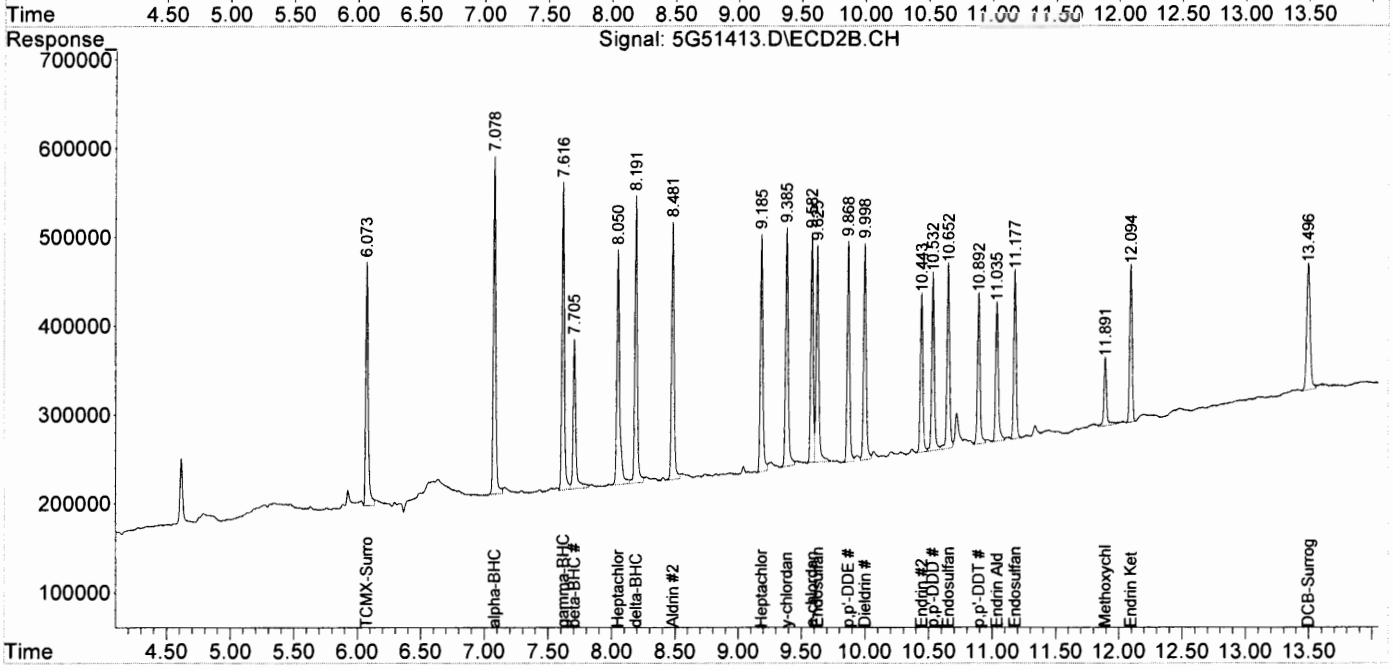
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51413.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 11:50:46
Operator : MAS/MLC
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 12:51:56 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 12:43:21 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1274

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51414.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 12:08:31
Operator : MAS/MLC
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 12:43:42 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 12:43:21 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.209	6.074	23164667	18055148	10.295	10.318
2)alpha-BHC	7.470	7.079	29397852	24859166	9.470	10.303
3)gamma-BHC	7.993	7.616	28044244	22062759	9.793	10.743
4)beta-BHC	8.880	7.706	11851249	11322941	9.852	10.841
5)Heptachlor	8.275	8.050	23696828	18459675	10.166	10.836
6)delta-BHC	9.201	8.191	23305533	20773274	9.298	10.444
7)Aldrin	8.632	8.481	25577003	19756137	9.752	10.360
8)Heptachlor Epoxid	9.442	9.185	22527935	17442981	9.789	10.374
9)y-chlordane	9.824	9.385	22007075	18261107	8.977	9.864
10)a-chlordane	9.888	9.581	21225024	16503366	9.001	10.697
11)Endosulfan I	9.783	9.625	20188306	18516419	10.284	10.560
12)p,p'-DDE	9.977	9.868	21041296	16383184	9.178	10.173
13)Dieldrin	10.208	9.997	20894449	16831314	9.306	9.711
14)Endrin	10.453	10.443	15649934	11992351	11.592	13.952
15)p,p'-DDD	10.879	10.532	17052570	13488677	9.532	10.503
16)Endosulfan II	10.990	10.651	17748847	14607694	8.853	9.415
17)p,p'-DDT	11.076	10.891	11782045	11970319	7.759	9.886 #
18)Endrin Aldehyde	11.454	11.034	12591021	11856246	8.254	9.113
19)Endosulfan Sulfat	11.801	11.177	15044361	13039035	8.553	9.639
20)Methoxychlor	11.731	11.892	7141675	5382668	11.063	10.377
21)Endrin Ketone	12.281	12.095	15778893	13204974	8.725	8.834
22)DCB-Surrogate	13.185	13.496	17401210	13612311	9.760	9.970
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

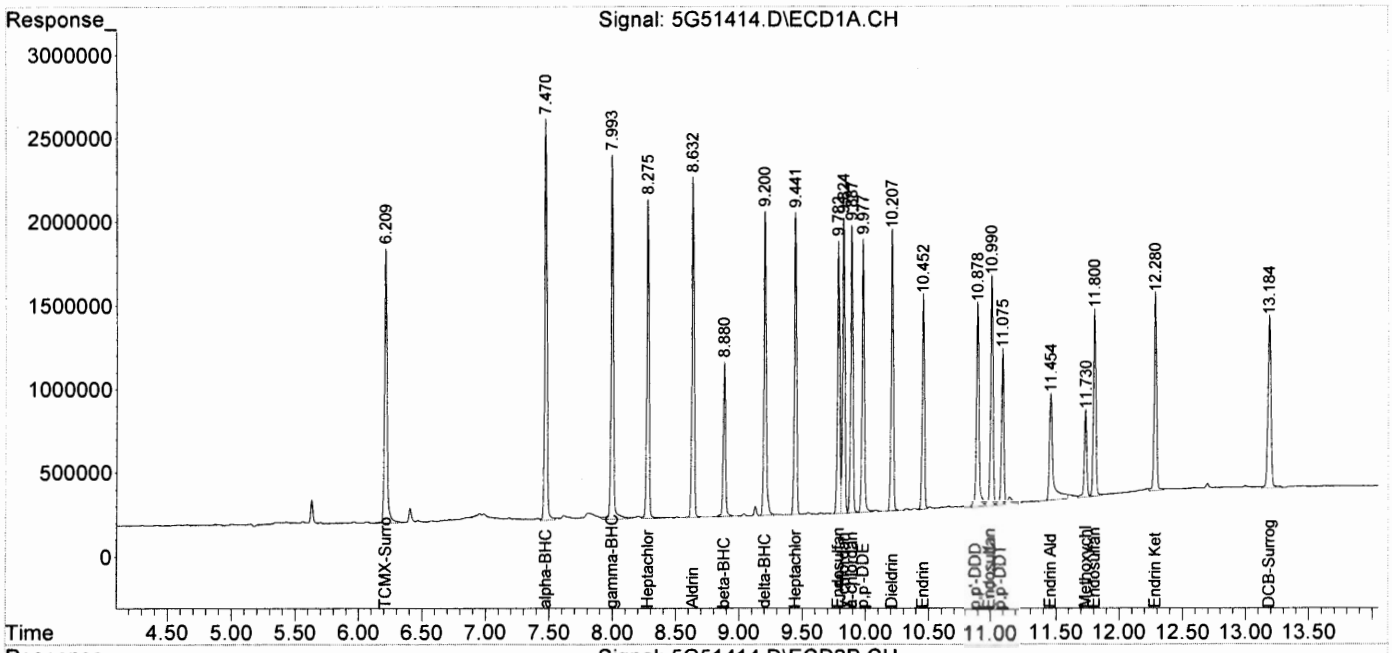
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

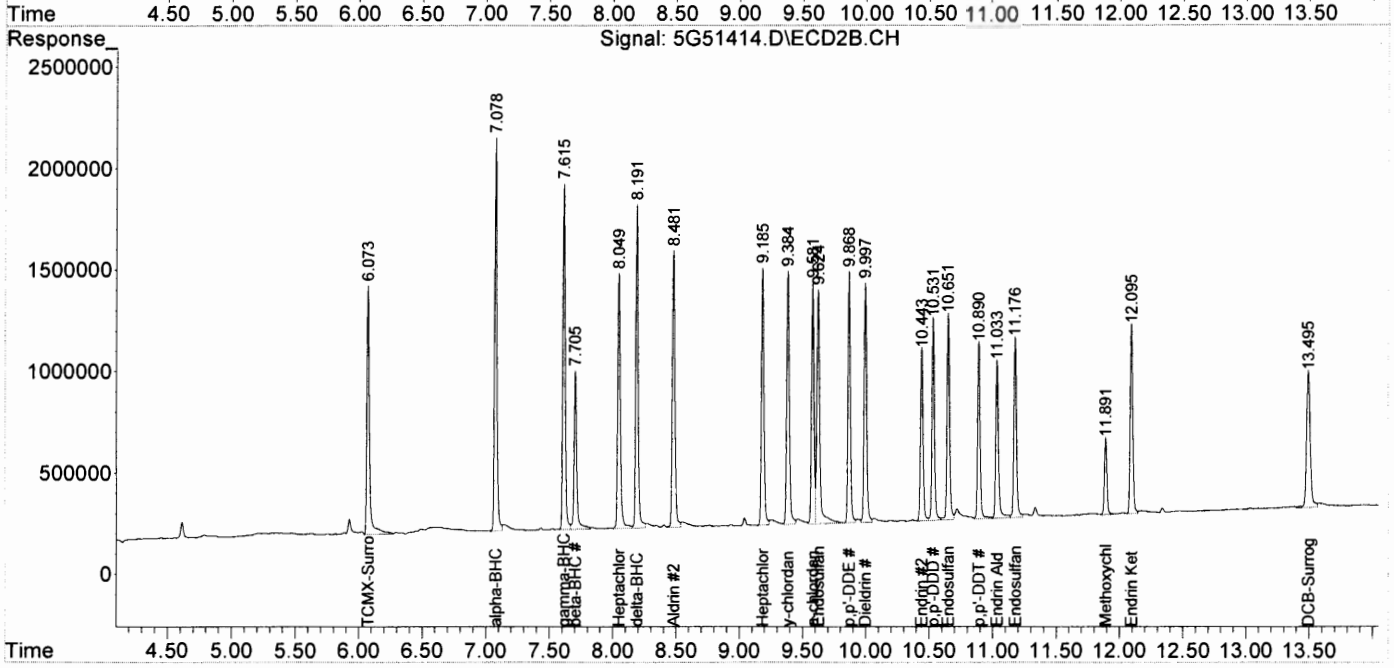
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51414.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 12:08:31
Operator : MAS/MLC
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 12:43:42 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 12:43:21 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1276

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51415.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 12:26:15
Operator : MAS/MLC
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 12:43:29 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 12:43:21 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.209	6.074	107.5E6	85802104	47.765	49.816
2)alpha-BHC	7.470	7.079	146.4E6	121.6E6	47.173	50.380
3)gamma-BHC	7.993	7.616	133.6E6	107.5E6	46.636	52.325
4)beta-BHC	8.880	7.706	54903029	52369227	45.642	50.139
5)Heptachlor	8.275	8.051	112.9E6	86583249	48.448	50.826
6)delta-BHC	9.201	8.192	117.9E6	105.7E6	47.034	53.144
7)Aldrin	8.633	8.482	124.3E6	95173319	47.382	49.911
8)Heptachlor Epoxid	9.443	9.186	107.9E6	81464164	46.903	48.448
9)y-chlordane	9.825	9.386	107.4E6	86420947	43.816	46.680
10)a-chlordane	9.888	9.583	102.3E6	78101398	43.389	50.621
11)Endosulfan I	9.784	9.626	97898835	86031049	49.871	49.631
12)p,p'-DDE	9.977	9.870	104.6E6	80221764	45.636	49.813
13)Dieldrin	10.208	9.998	104.2E6	81384458	46.410	46.955
14)Endrin	10.454	10.443	75862585	55962973	56.194	65.253
15)p,p'-DDD	10.878	10.533	83414800	66186925	46.625	51.539
16)Endosulfan II	10.991	10.652	88006107	69155558	43.896	44.574
17)p,p'-DDT	11.076	10.892	69741726	61568905	45.125	50.846
18)Endrin Aldehyde	11.454	11.035	66838995	57578231	43.816	44.255
19)Endosulfan Sulfat	11.801	11.177	76495904	63426368	43.489	46.887
20)Methoxychlor	11.731	11.891	37528424	27314631	56.755	52.659
21)Endrin Ketone	12.282	12.096	80208419	70679864	44.349	47.284
22)DCB-Surrogate	13.186	13.496	78743971	65042658	44.165	47.637
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

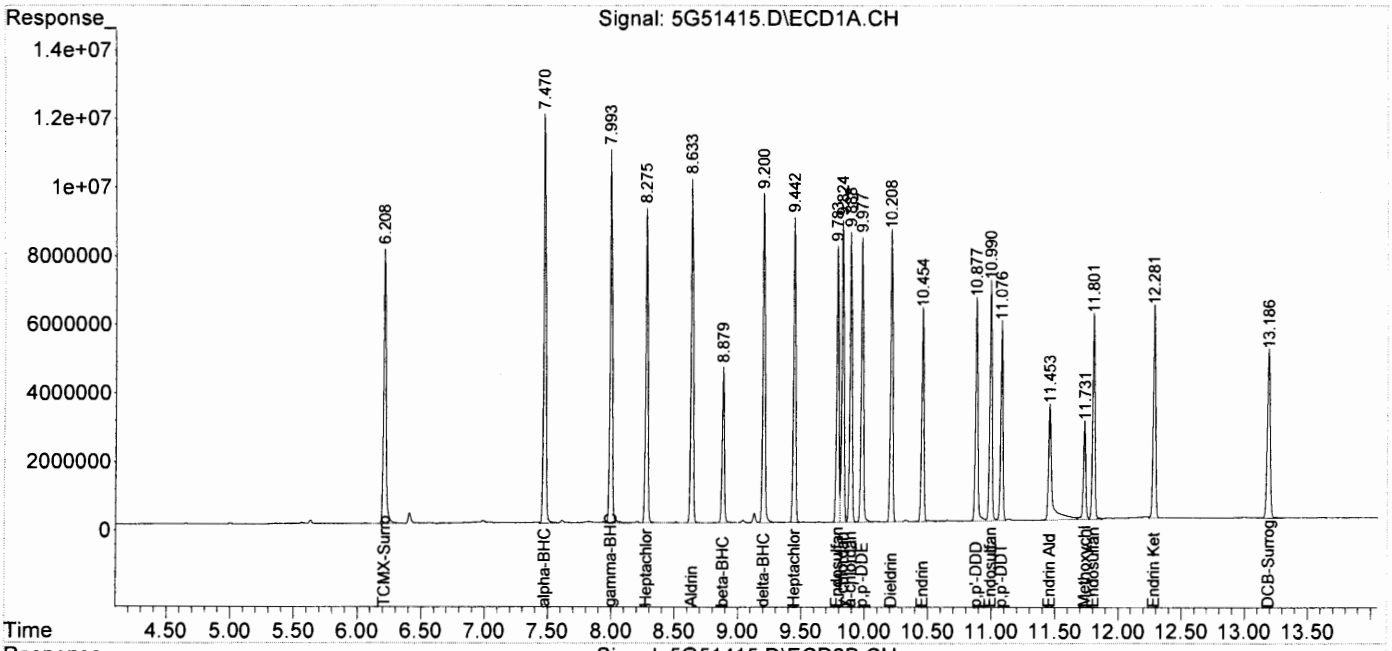
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

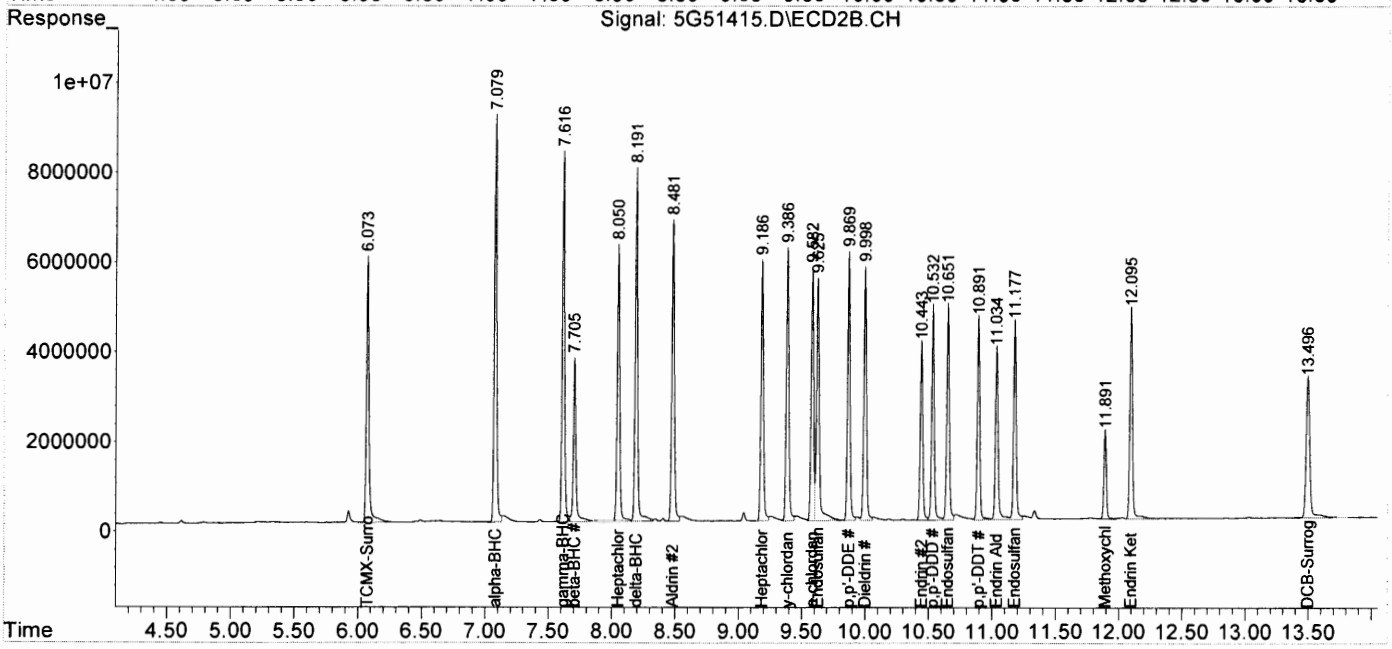
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51415.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 12:26:15
Operator : MAS/MLC
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 12:43:29 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 12:43:21 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1278

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51416.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 12:44:06
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 13:27:40 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:10:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.208	6.073	217.7E6	168.9E6	96.744	100.083
2)alpha-BHC	7.471	7.079	308.5E6	246.6E6	99.384	102.209
3)gamma-BHC	7.993	7.616	276.5E6	218.7E6	96.567	106.505
4)beta-BHC	8.880	7.706	112.6E6	105.1E6	93.634	100.619
5)Heptachlor	8.276	8.050	231.0E6	175.8E6	99.088	103.183
6)delta-BHC	9.201	8.192	246.1E6	214.3E6	98.204	107.731
7)Aldrin	8.634	8.482	254.9E6	192.6E6	97.206	101.008
8)Heptachlor Epoxid	9.443	9.186	219.6E6	163.1E6	95.405	97.019
9)y-chlordane	9.826	9.386	222.5E6	176.5E6	90.750	95.316
10)a-chlordane	9.890	9.583	211.6E6	159.3E6	89.728	103.222
11)Endosulfan I	9.784	9.626	200.3E6	170.5E6	102.034	99.865
12)p,p'-DDE	9.977	9.870	218.6E6	168.2E6	95.368	104.438
13)Dieldrin	10.209	9.998	215.3E6	165.2E6	95.906	95.313
14)Endrin	10.454	10.444	157.7E6	114.3E6	116.836	133.644
15)p,p'-DDD	10.878	10.533	173.3E6	136.3E6	96.885	106.140
16)Endosulfan II	10.991	10.652	181.6E6	140.1E6	90.578	90.271
17)p,p'-DDT	11.077	10.892	154.0E6	130.2E6	97.287	107.528
18)Endrin Aldehyde	11.455	11.035	138.6E6	116.2E6	90.853	89.334
19)Endosulfan Sulfat	11.802	11.178	159.3E6	128.9E6	90.576	95.263
20)Methoxychlor	11.731	11.892	81220182	57484063	118.986	110.821
21)Endrin Ketone	12.282	12.096	170.0E6	145.3E6	94.018	97.212
22)DCB-Surrogate	13.186	13.496	160.3E6	130.1E6	89.886	95.285
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

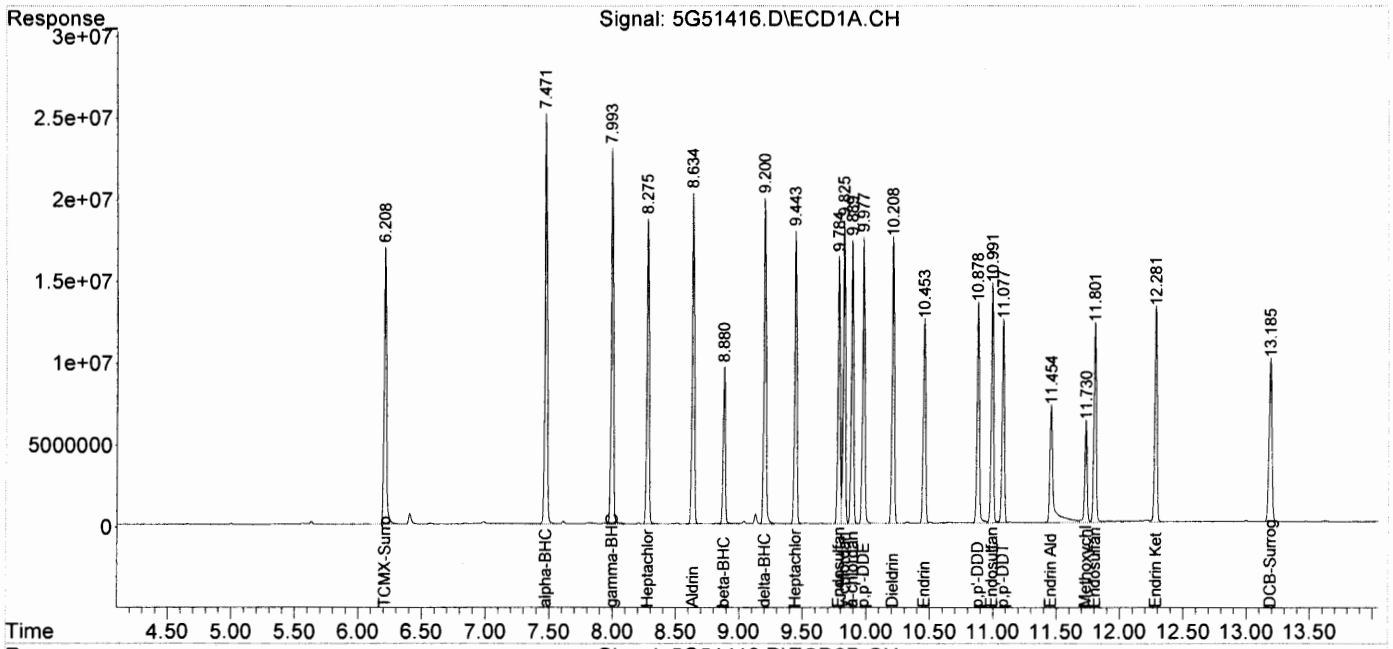
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

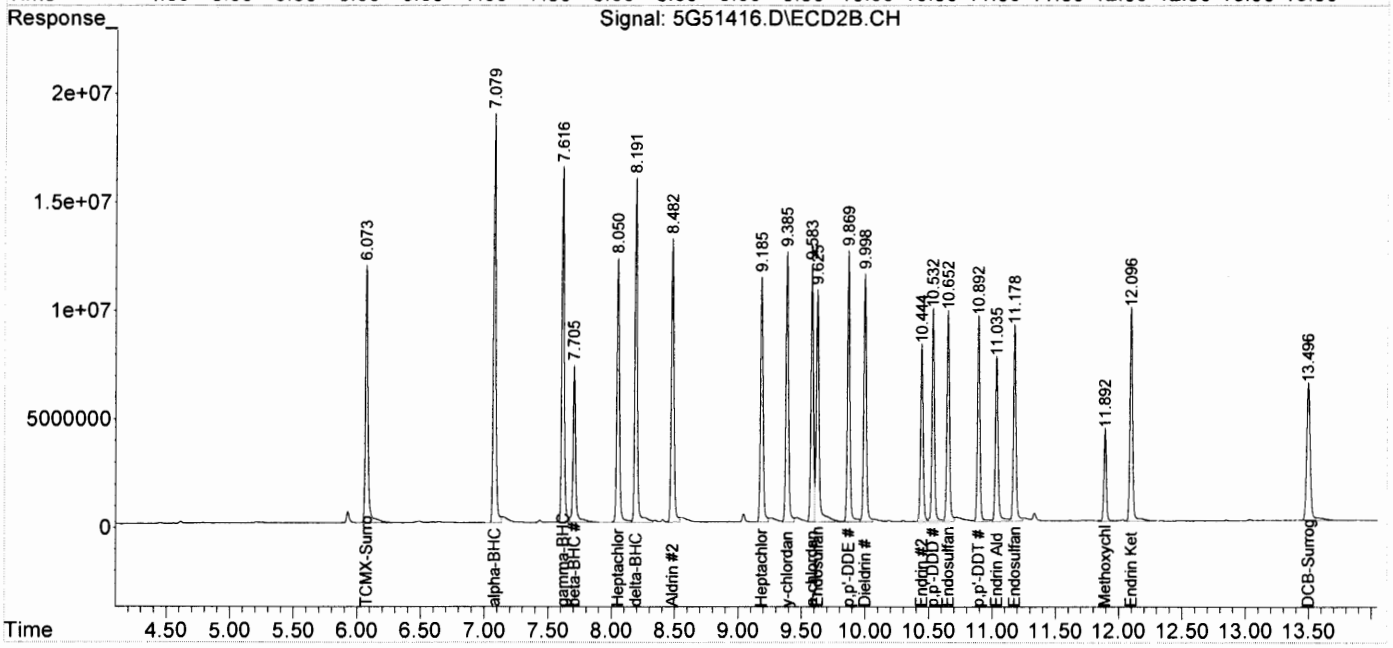
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51416.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 12:44:06
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 13:27:40 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:10:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1280

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51417.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 13:01:53
Operator : MAS/MLC
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 13:27:53 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:10:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.209	6.074	433.9E6	329.5E6	192.815	203.980
2)alpha-BHC	7.472	7.080	634.4E6	486.6E6	204.369	201.666
3)gamma-BHC	7.994	7.617	564.1E6	430.7E6	196.979	209.730
4)beta-BHC	8.880	7.707	224.8E6	206.3E6	186.844	197.554
5)Heptachlor	8.277	8.052	459.5E6	338.7E6	197.154	198.805
6)delta-BHC	9.202	8.193	505.3E6	424.1E6	201.576	213.199
7)Aldrin	8.635	8.483	510.5E6	370.3E6	194.627	194.203
8)Heptachlor Epoxid	9.444	9.187	435.0E6	312.6E6	189.015	185.924
9)y-chlordane	9.825	9.387	451.8E6	345.6E6	184.279	186.683
10)a-chlordane	9.890	9.583	427.7E6	311.9E6	181.378	202.135
11)Endosulfan I	9.785	9.626	398.6E6	328.2E6	203.070	197.999
12)p,p'-DDE	9.978	9.871	443.8E6	325.4E6	193.561	202.078
13)Dieldrin	10.210	10.000	433.8E6	328.1E6	193.225	189.327
14)Endrin	10.455	10.444	313.6E6	220.5E6	232.323	259.279
15)p,p'-DDD	10.878	10.534	352.7E6	270.3E6	197.143	210.440
16)Endosulfan II	10.991	10.653	369.8E6	273.8E6	184.461	176.457
17)p,p'-DDT	11.077	10.893	325.4E6	263.4E6	196.641	217.539
18)Endrin Aldehyde	11.456	11.036	281.0E6	229.7E6	184.205	176.566
19)Endosulfan Sulfat	11.802	11.179	325.1E6	254.0E6	184.797	187.768
20)Methoxychlor	11.731	11.892	166.9E6	115.6E6	231.467	222.819
21)Endrin Ketone	12.283	12.098	350.0E6	291.9E6	193.539	195.287
22)DCB-Surrogate	13.188	13.498	322.1E6	257.7E6	180.656	188.724
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

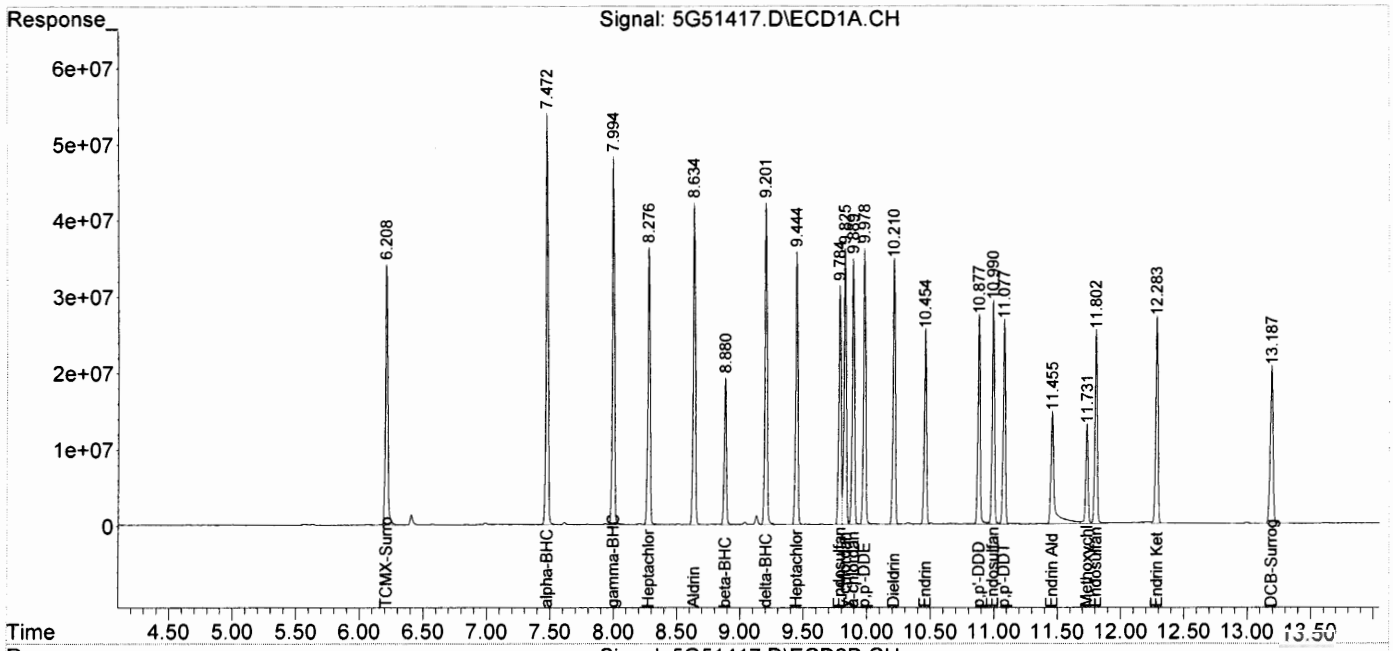
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

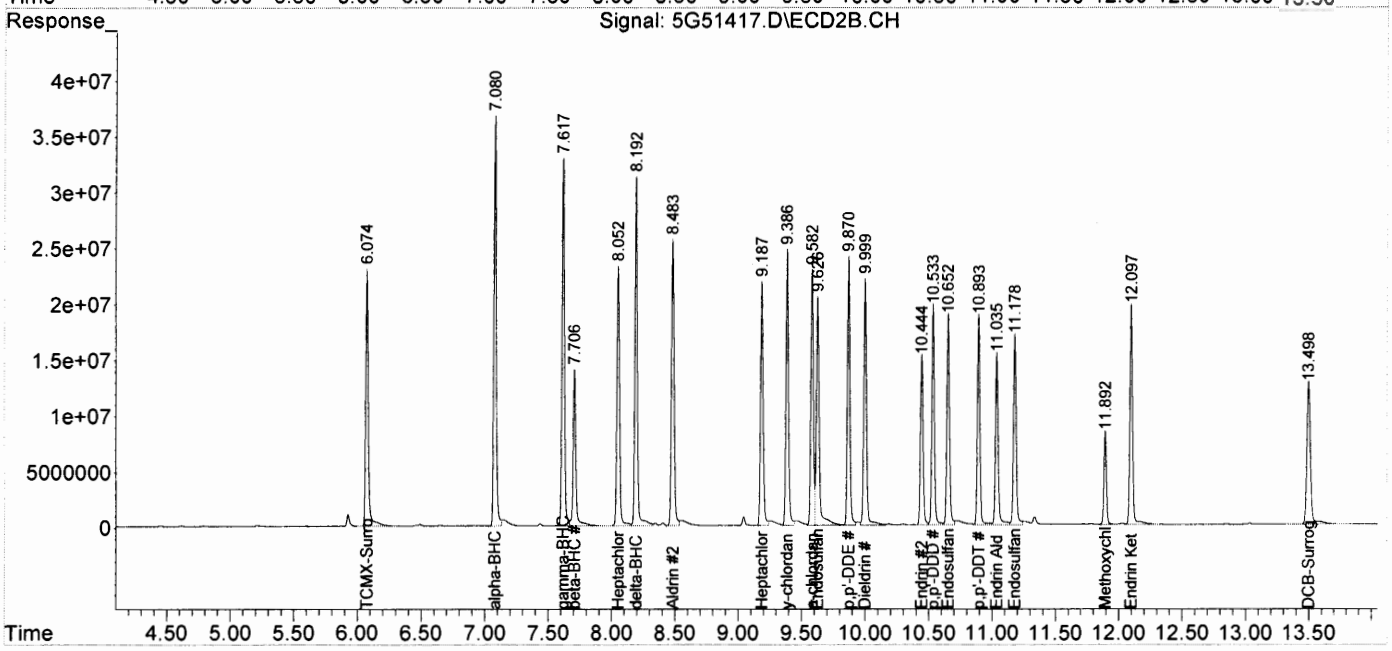
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51417.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 13:01:53
Operator : MAS/MLC
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 13:27:53 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:10:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1282

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51418.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 13:19:40
Operator : MAS/MLC
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 13:34:45 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:10:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.210	6.075	881.9E6	610.2E6	391.945	415.651
2)alpha-BHC	7.473	7.081	1350.7E6	972.3E6	435.083	402.971
3)gamma-BHC	7.996	7.618	1209.6E6	860.7E6	422.364	419.086
4)beta-BHC	8.881	7.707	461.0E6	405.9E6	383.212	388.585
5)Heptachlor	8.278	8.053	934.9E6	659.1E6	401.081	386.930
6)delta-BHC	9.203	8.194	1074.0E6	849.2E6	428.485	426.962
7)Aldrin	8.637	8.485	1037.9E6	718.0E6	395.725	376.537
8)Heptachlor Epoxid	9.445	9.188	884.0E6	607.8E6	384.097	361.490
9)y-chlordane	9.827	9.388	942.3E6	688.5E6	384.393	371.870
10)a-chlordane	9.891	9.584	890.1E6	621.0E6	377.483	402.483
11)Endosulfan I	9.786	9.628	815.5E6	636.2E6	415.423	410.680
12)p,p'-DDE	9.979	9.872	926.8E6	648.6E6	404.228	402.716
13)Dieldrin	10.211	10.001	895.1E6	646.1E6	398.672	372.776
14)Endrin	10.456	10.445	668.7E6	448.2E6	495.304	533.425
15)p,p'-DDD	10.879	10.535	747.5E6	545.1E6	417.814	424.429
16)Endosulfan II	10.992	10.654	779.5E6	545.1E6	388.814	351.317
17)p,p'-DDT	11.078	10.894	717.9E6	541.6E6	398.693	447.297
18)Endrin Aldehyde	11.456	11.037	575.6E6	450.9E6	377.337	346.594
19)Endosulfan Sulfat	11.804	11.179	681.3E6	505.1E6	387.328	373.382
20)Methoxychlor	11.732	11.894	355.2E6	237.6E6	446.718	458.129
21)Endrin Ketone	12.285	12.099	747.8E6	589.5E6	413.451	394.348
22)DCB-Surrogate	13.189	13.501	673.4E6	493.4E6	377.700	361.365
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

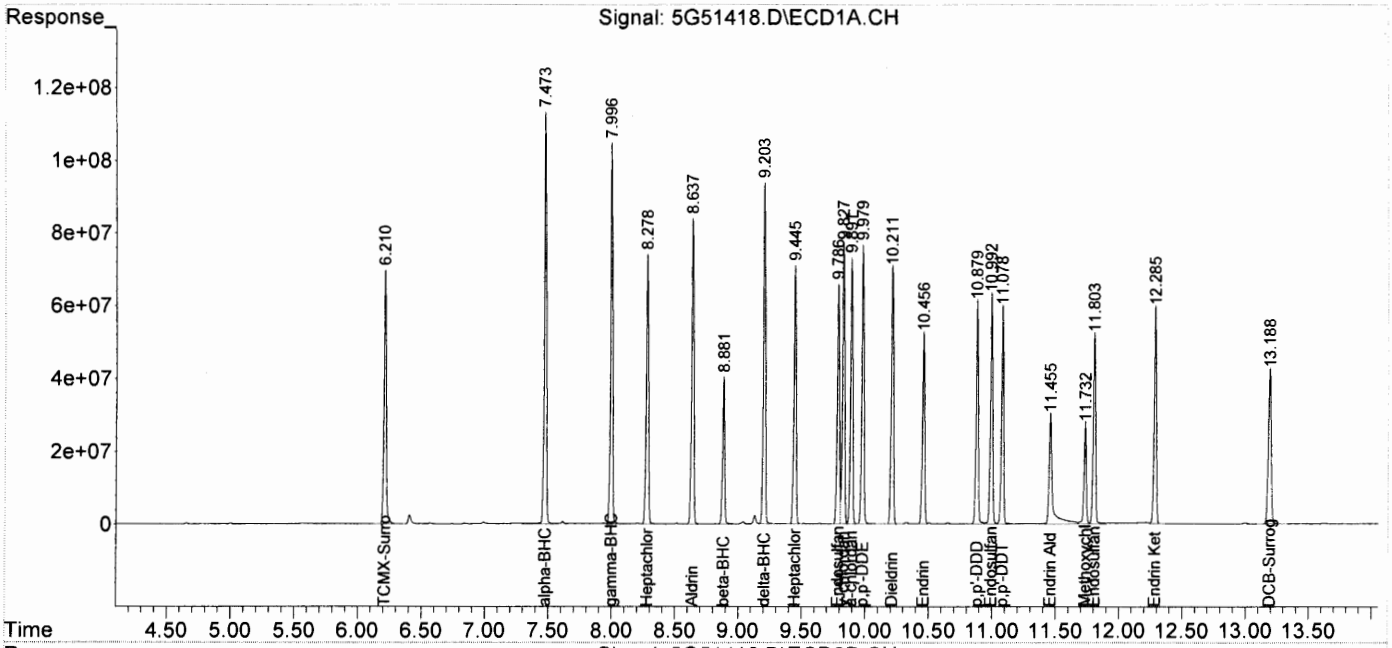
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

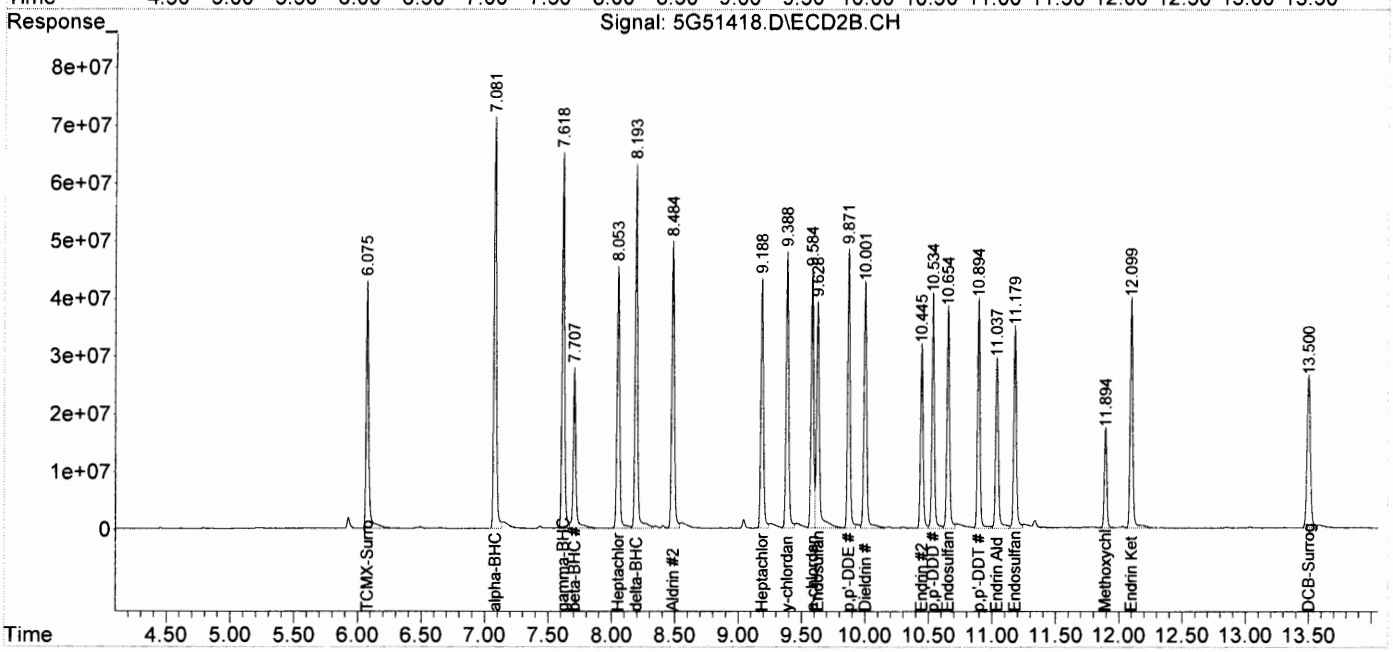
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51418.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 13:19:40
Operator : MAS/MLC
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 13:34:45 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:10:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1284

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51411.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 11:15:07
Operator : MAS/MLC
Sample : CAL CHLOR@100PPB (Sig #1); CAL CHLOR (Sig #2)
Misc : S,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 12:52:33 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 12:52:25 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.208	6.073	212.9E6	159.4E6	94.606	94.238
2)alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)Heptachlor Epoxid	0.000	0.000	0	0	N.D. d	N.D. d
9)y-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
10)a-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
12)p,p'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)p,p'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)Endosulfan II	0.000	0.000	0	0	N.D. d	N.D. d
17)p,p'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)Endrin Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
19)Endosulfan Sulfat	0.000	0.000	0	0	N.D. d	N.D. d
20)Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)Endrin Ketone	0.000	0.000	0	0	N.D. d	N.D. d
22)DCB-Surrogate	13.187	13.497	160.8E6	121.3E6	90.178	88.807
23)Chlordane {1}	8.275	7.842	10894273	8349116	96.086	100.547
24)Chlordane {2}	9.824	9.385	23055917	20393551	90.463	115.182 #
25)Chlordane {3}	9.889	9.582	32013506	16642971	85.570	86.297
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

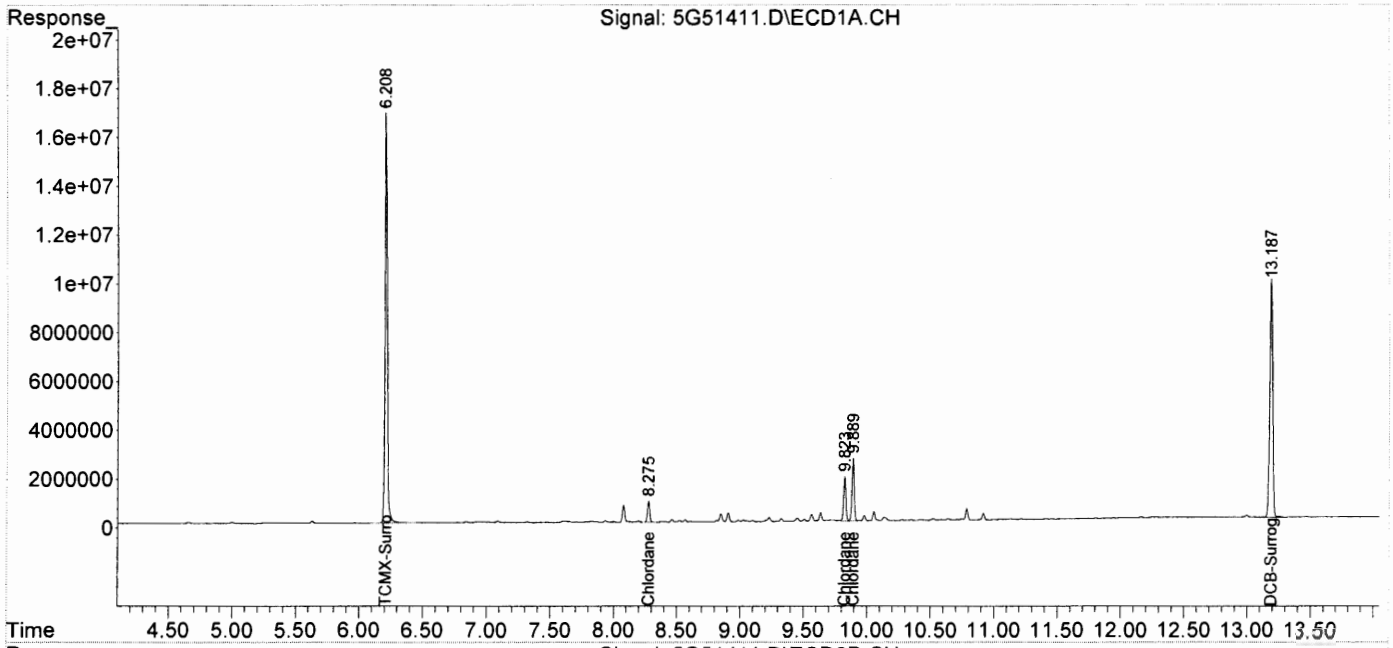
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

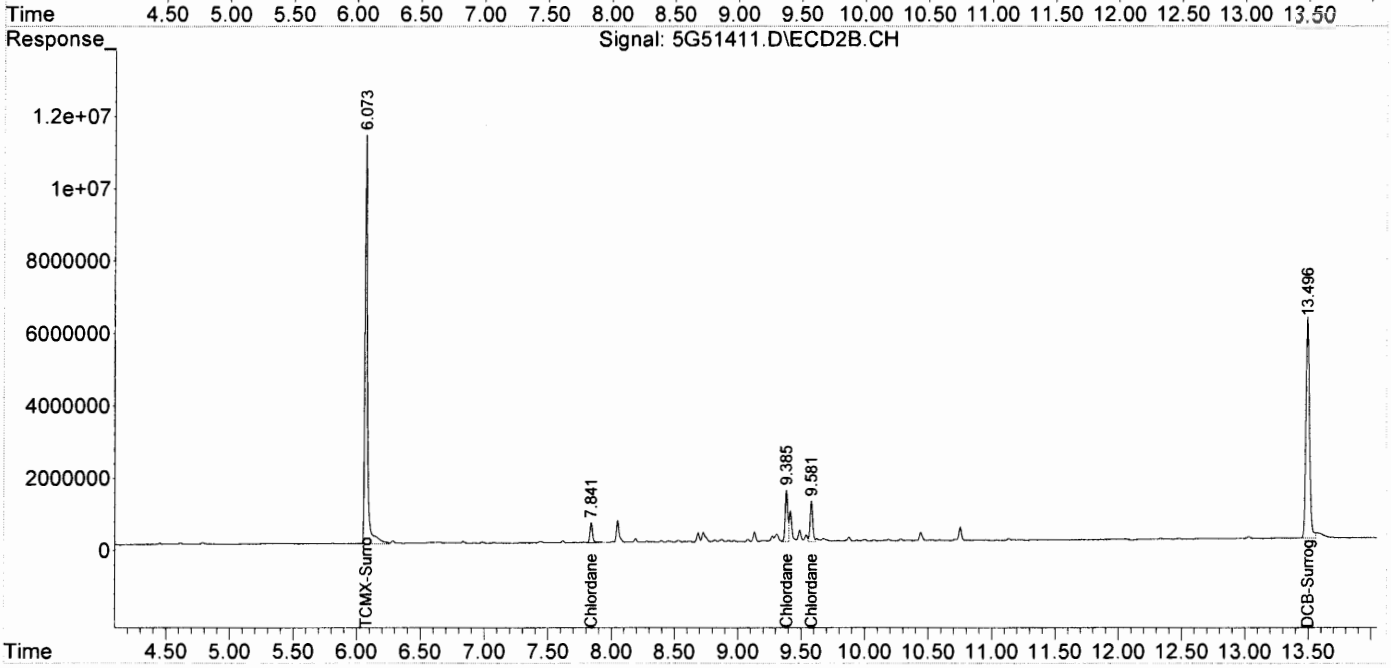
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51411.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 11:15:07
Operator : MAS/MLC
Sample : CAL CHLOR@100PPB (Sig #1); CAL CHLOR (Sig #2)
Misc : S,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 12:52:33 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 12:52:25 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1286

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51412.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 11:33:02 (#1); 22-Apr-14, 11:33:01 (#2)
Operator : MAS/MLC
Sample : CAL TOX@500PPB (Sig #1); CAL TOX (Sig #2)
Misc : S,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 13:11:27 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:10:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.209	6.073	104.4E6	85406351	46.375	49.582
2)alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)Heptachlor Epoxid	0.000	0.000	0	0	N.D. d	N.D. d
9)y-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
10)a-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
12)p,p'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)p,p'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)Endosulfan II	0.000	0.000	0	0	N.D. d	N.D. d
17)p,p'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)Endrin Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
19)Endosulfan Sulfat	0.000	0.000	0	0	N.D. d	N.D. d
20)Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)Endrin Ketone	0.000	0.000	0	0	N.D. d	N.D. d
22)DCB-Surrogate	13.186	13.498	77815056	58950963	43.644	43.176
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	10.237	10.229	5338613	4883661	281.115m	292.685m
27)Toxaphene {2}	10.574	10.666	14313927	14620237	464.584m	459.751m
28)Toxaphene {3}	11.019	10.931	15940389	12359200	422.410m	518.227m
29)Toxaphene {4}	11.325	11.637	14592456	12172934	443.568m	460.058m
30)Toxaphene {5}	11.760	11.707	19252680	11934353	406.105m	509.179m#

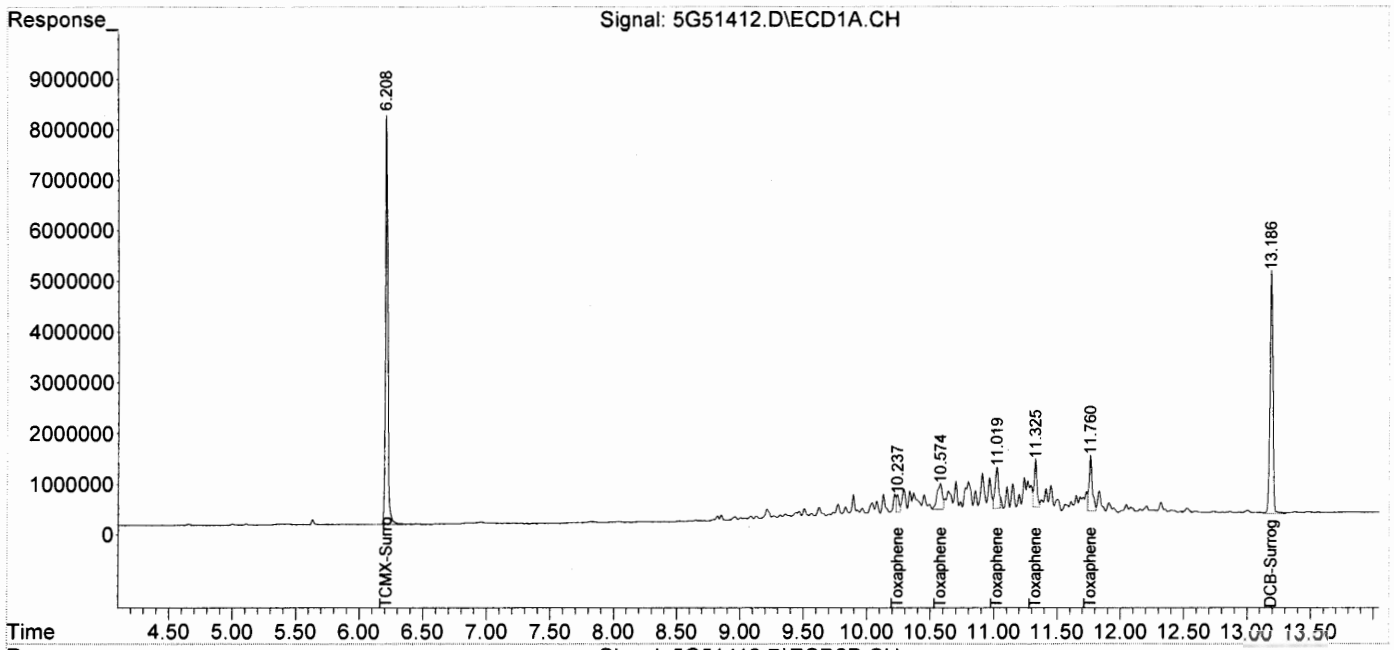
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

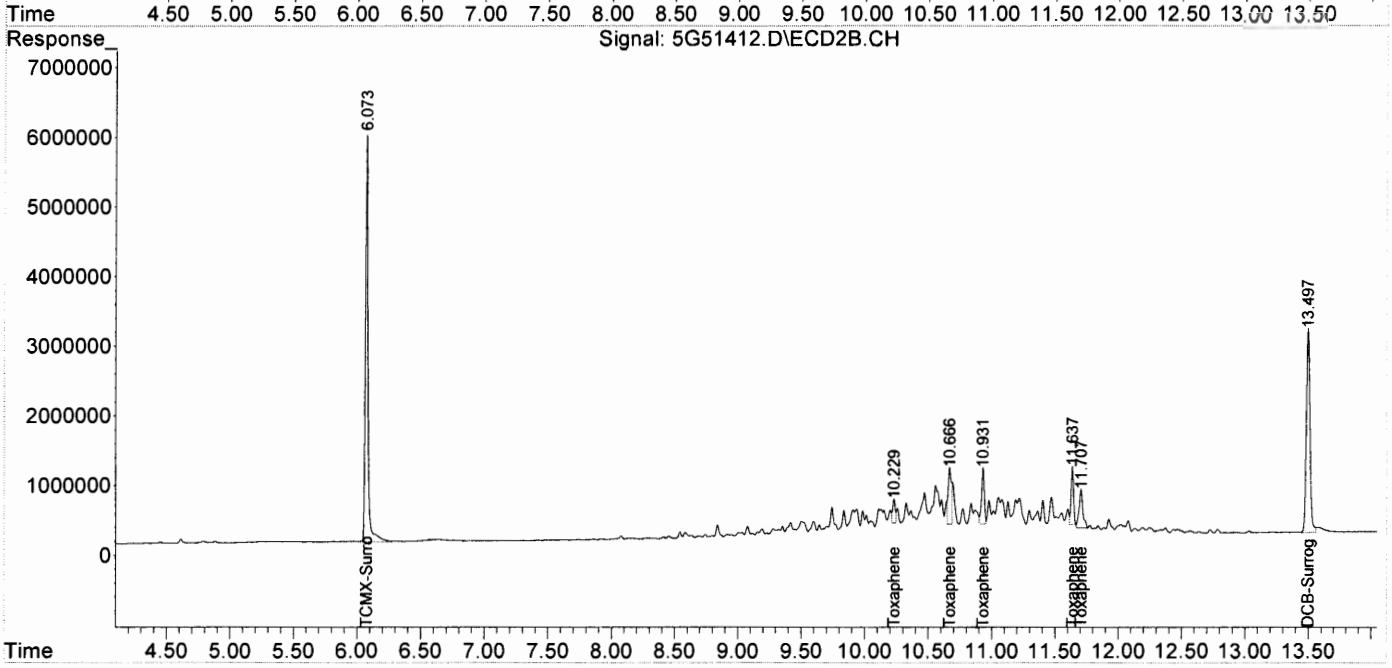
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\04-2214\
Data File : 5G51412.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-Apr-14, 11:33:02 (#1); 22-Apr-14, 11:33:01 (#2)
Operator : MAS/MLC
Sample : CAL TOX@500PPB (Sig #1); CAL TOX (Sig #2)
Misc : S,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Apr 22 13:11:27 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:10:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





4052101 1288

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6G49165.	CAL PEST@2PPB	05/23/14 01:36	2	6G49166.	CAL PEST@10PPB	05/23/14 01:53
3	6G49167.	CAL PEST@50PPB	05/23/14 02:11	4	6G49168.	CAL PEST@100PPB	05/23/14 02:28
5	6G49169.	CAL PEST@200PPB	05/23/14 02:46	6	6G49170.	CAL PEST@400PPB	05/23/14 03:03
7	6G49171.	CAL CHLOR @100PP	05/23/14 03:21	8	6G49172.	CAL TOX @500PPB	05/23/14 03:38

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Qua	1.3462	1.2565	1.1038	1.0698	1.0187	0.9195	----	----	1.12	5.08	0.997	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Avg	1.2917	1.2546	1.3064	1.3557	1.3702	1.2838	----	----	1.31	6.24	0.999	1.00	3.4	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	Avg	1.3140	1.2610	1.2744	1.2951	1.2811	1.1848	----	----	1.27	6.75	0.998	1.00	3.5	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	Qua	0.9873	1.2648	0.7007	0.6752	0.6398	0.5745	----	----	0.807	7.62	0.997	1.00	33	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	Qua	1.4375	1.2762	1.1678	1.1347	1.0904	0.9799	----	----	1.18	7.07	0.996	1.00	13	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	1.1625	1.1179	1.1095	1.1681	1.1978	1.1265	----	----	1.15	7.97	0.999	1.00	3.0	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	1.2685	1.1833	1.1499	1.1571	1.1435	1.0500	----	----	1.16	7.44	0.998	1.00	6.1	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	Qua	1.3505	1.2341	1.1121	1.0778	1.0292	0.9155	----	----	1.12	8.26	0.996	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		
γ-chlordane	1	0	LinF	1.5963	1.4313	1.2978	1.2921	1.2523	1.1489	----	----	1.34	8.66	0.998	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	1	0	LinF	1.4367	1.2961	1.1597	1.1305	1.0941	0.9987	----	----	1.19	8.73	0.998	1.00	13	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	Qua	1.0092	0.8753	0.8105	0.8574	0.8223	0.6940	----	----	0.845	8.63	0.991	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	0.9768	0.9813	0.9880	1.0207	1.0470	0.9735	----	----	0.998	8.82	0.999	1.00	3.0	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	Avg	1.1394	1.0566	1.0028	1.0087	0.9974	0.9068	----	----	1.02	9.07	0.997	1.00	7.5	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	Qua	0.8686	0.8236	0.7636	0.7490	0.7253	0.6442	----	----	0.762	9.33	0.996	1.00	10	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	Avg	0.8362	0.7841	0.7536	0.7809	0.7950	0.7465	----	----	0.783	9.76	0.999	1.00	4.1	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	Qua	1.2397	1.1019	0.9934	0.9695	0.9278	0.8292	----	----	1.01	9.89	0.996	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	Qua	0.5061	0.5960	0.6775	0.7034	0.7178	0.6796	----	----	0.647	9.98	0.999	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	Avg	0.8543	0.8485	0.8059	0.8027	0.7805	0.7229	----	----	0.803	10.37	0.998	1.00	6.0	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	Avg	0.9164	0.9231	0.8954	0.8771	0.8244	0.7428	----	----	0.863	10.73	0.996	1.00	8.0	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	Qua	0.2259	0.3019	0.3376	0.3448	0.3470	0.3186	----	----	0.313	10.67	0.998	1.00	15	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Qua	0.9012	0.9037	0.8829	0.9059	0.8740	0.7982	----	----	0.878	11.27	0.997	1.00	4.7	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	Qua	1.4531	1.1841	0.9931	0.9328	0.8582	0.7474	----	----	1.03	12.36	0.993	1.00	25	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane	1	1	Avg	----	----	----	----	----	----	----	----	0.0572	6.86	-1	-1	Lvl=7	100.0							
Chlordane	1	2	Avg	----	----	----	----	----	----	----	----	0.140	8.66	-1	-1	Lvl=7	100.0							
Chlordane	1	3	Avg	----	----	----	----	----	----	----	----	0.205	8.73	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	----	----	----	----	----	----	----	----	0.0180	9.46	-1	-1	Lvl=8	500.0							
Toxaphene	1	2	Avg	----	----	----	----	----	----	----	----	0.0176	9.69	-1	-1	Lvl=8	500.0							
Toxaphene	1	3	Avg	----	----	----	----	----	----	----	----	0.0196	9.92	-1	-1	Lvl=8	500.0							
Toxaphene	1	4	Avg	----	----	----	----	----	----	----	----	0.0245	10.24	-1	-1	Lvl=8	500.0							
Toxaphene	1	5	Avg	----	----	----	----	----	----	----	----	0.0201	10.72	-1	-1	Lvl=8	500.0							
TCMX-Surrogate	2	0	Qua	1.8422	1.3841	1.3673	1.3688	1.3757	1.3000	----	----	1.44	4.92	0.999	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	Qua	1.4000	1.3966	1.5576	1.7340	1.8974	1.8694	----	----	1.64	5.84	0.999	0.999	14	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	Avg	1.4580	1.4061	1.4981	1.6222	1.7224	1.6667	----	----	1.56	6.37	0.999	1.00	8.1	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	Avg	1.0134	0.9496	0.9125	0.9251	0.9459	0.9028	----	----	0.942	6.45	0.999	1.00	4.2	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	Avg	1.3889	1.1899	1.1584	1.2099	1.2754	1.2369	----	----	1.24	6.82	1.00	1.00	6.6	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	LinF	1.2897	1.2230	1.3443	1.5015	1.6389	1.6240	----	----	1.44	6.95	0.999	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 10.8 Avg Rsd Col 2: 8.45

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

4052101 1289

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6G49165.	CAL PEST@2PPB	05/23/14 01:36	2	6G49166.	CAL PEST@10PPB	05/23/14 01:53
3	6G49167.	CAL PEST@50PPB	05/23/14 02:11	4	6G49168.	CAL PEST@100PPB	05/23/14 02:28
5	6G49169.	CAL PEST@200PPB	05/23/14 02:46	6	6G49170.	CAL PEST@400PPB	05/23/14 03:03
7	6G49171.	CAL CHLOR @100PP	05/23/14 03:21	8	6G49172.	CAL TOX @500PPB	05/23/14 03:38

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	Avg	1.4620	1.3831	1.3053	1.3912	1.4852	1.4403	----	----	1.41	7.26	0.999	1.00	4.6	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	Avg	1.5332	1.3512	1.2603	1.2906	1.3115	1.2284	----	----	1.33	7.98	0.999	1.00	8.2	2.00	10.00	50.00	100.0	200.0	400.0		
γ-chlordane	2	0	Avg	1.6324	1.3828	1.3517	1.4133	1.4800	1.4311	----	----	1.45	8.19	1.00	1.00	6.9	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	2	0	Avg	1.4270	1.2826	1.2516	1.2819	1.2900	1.2063	----	----	1.29	8.39	0.999	1.00	5.7	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	Avg	1.4486	1.3076	1.2813	1.3574	1.4424	1.3783	----	----	1.37	8.44	0.999	0.999	5.0	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	Avg	1.2538	1.0678	1.0519	1.1633	1.2861	1.2846	----	----	1.18	8.68	0.999	0.999	9.0	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	Avg	1.3553	1.1722	1.1287	1.2101	1.2860	1.2288	----	----	1.23	8.83	0.999	0.999	6.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	1.0152	0.8965	0.8251	0.8314	0.8470	0.7899	----	----	0.868	9.30	0.999	1.00	9.3	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	LinF	0.8415	0.8712	0.8573	0.9066	0.9839	0.9812	----	----	0.907	9.39	1.00	1.00	6.9	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	Avg	1.1296	1.1731	1.1771	1.1953	1.2122	1.1388	----	----	1.17	9.52	0.999	1.00	2.7	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	LinF	0.7447	0.7331	0.8225	0.8810	0.9466	0.9392	----	----	0.845	9.77	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	Avg	1.0766	0.9709	0.9565	0.9754	0.9779	0.9248	----	----	0.980	9.93	0.999	1.00	5.2	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	Avg	1.0299	0.9129	0.9322	0.9632	0.9833	0.9387	----	----	0.960	10.08	0.999	1.00	4.4	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	Qua	0.5690	0.3849	0.4263	0.4553	0.4698	0.4497	----	----	0.459	10.82	0.999	1.00	13	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	Avg	1.1552	1.0441	1.0591	1.1080	1.1409	1.0880	----	----	1.10	11.06	0.999	1.00	4.0	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	Qua	1.8694	1.3281	1.1850	1.1396	1.1058	1.0176	----	----	1.27	12.68	0.998	1.00	24	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane	2	1	Avg	----	----	----	----	----	----	----	----	0.0578	6.82	-1	-1	Lvl=7	100.0							
Chlordane	2	2	Avg	----	----	----	----	----	----	----	----	0.254	8.19	-1	-1	Lvl=7	100.0							
Chlordane	2	3	Avg	----	----	----	----	----	----	----	----	0.143	8.39	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	----	----	----	----	----	----	----	----	0.0180	8.96	-1	-1	Lvl=8	500.0							
Toxaphene	2	2	Avg	----	----	----	----	----	----	----	----	0.0115	9.18	-1	-1	Lvl=8	500.0							
Toxaphene	2	3	Avg	----	----	----	----	----	----	----	----	0.0150	9.81	-1	-1	Lvl=8	500.0							
Toxaphene	2	4	Avg	----	----	----	----	----	----	----	----	0.0173	10.56	-1	-1	Lvl=8	500.0							
Toxaphene	2	5	Avg	----	----	----	----	----	----	----	----	0.0164	10.64	-1	-1	Lvl=8	500.0							

Avg Rsd Col 1: 10.8 Avg Rsd Col 2: 8.45

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Quantitation Report (QT Reviewed)

4052101 1290

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49165.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 1:36
Operator : MLC/MAS
Sample : CAL PEST@2PPB
Misc : A,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 09:08:31 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.081	4.919	26926	36845	2.482	2.481m
2)alpha-BHC	6.235	5.840	25835	28001	1.981	1.451 #
3)gamma-BHC	6.755	6.369	26281	29161	2.121	1.733m
4)beta-BHC	7.626	6.449	19748	20269	2.894	1.981m#
5)Heptachlor	7.066	6.813	28751	27778	2.648	1.898m#
6)delta-BHC	7.976	6.944	23250	25795	2.054	1.626m
7)Aldrin	7.441	7.260	25370	29242	2.303	2.066
8)Heptachlor Epoxid	8.263	7.980	27010	30664	2.464	2.278
9)y-chlordane	8.659	8.188	31927	32649	2.652	2.216
10)a-chlordane	8.729	8.391	28735	28541	2.619	2.167m
11)Endosulfan I	8.630	8.442	20185	28973	2.294m	2.095m
12)p,p'-DDE	8.827	8.682	19538	25077	2.044	2.056m
13)Dieldrin	9.071	8.832	22790	27107	2.383	2.220
14)Endrin	9.335	9.302	17373	20305	2.375	2.294
15)p,p'-DDD	9.774	9.385	16724	16831	2.172m	1.711
16)Endosulfan II	9.888	9.521	24796	22594	2.741m	1.967 #
17)p,p'-DDT	9.984	9.764	10123	14894	1.595m	1.714m
18)Endrin Aldehyde	10.371	9.925	17087	21532	2.556m	2.252
19)Endosulfan Sulfat	10.735	10.075	18330	20599	2.560	2.262
20)Methoxychlor	10.680	10.823	4520	11381	1.314m	2.354m#
21)Endrin Ketone	11.269	11.056	18024	23104	1.927	2.090m
22)DCB-Surrogate	12.361	12.682	29062	37389	3.463m	3.485m
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

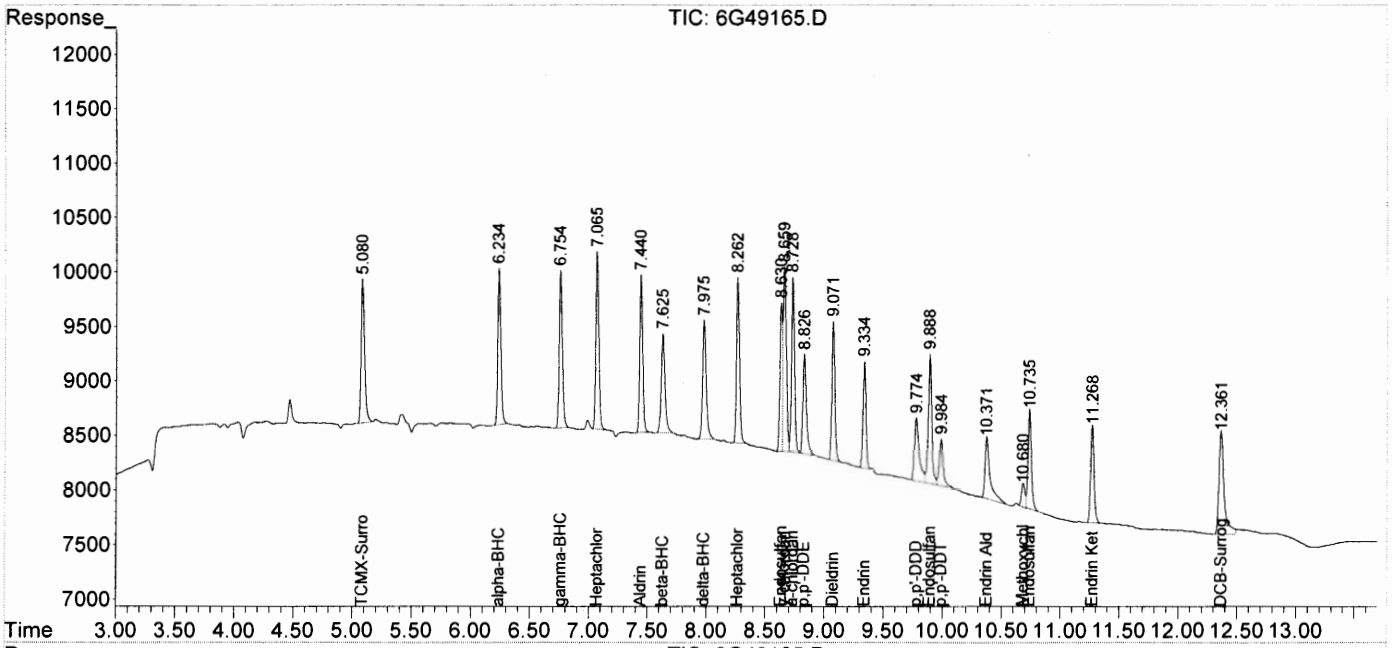
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

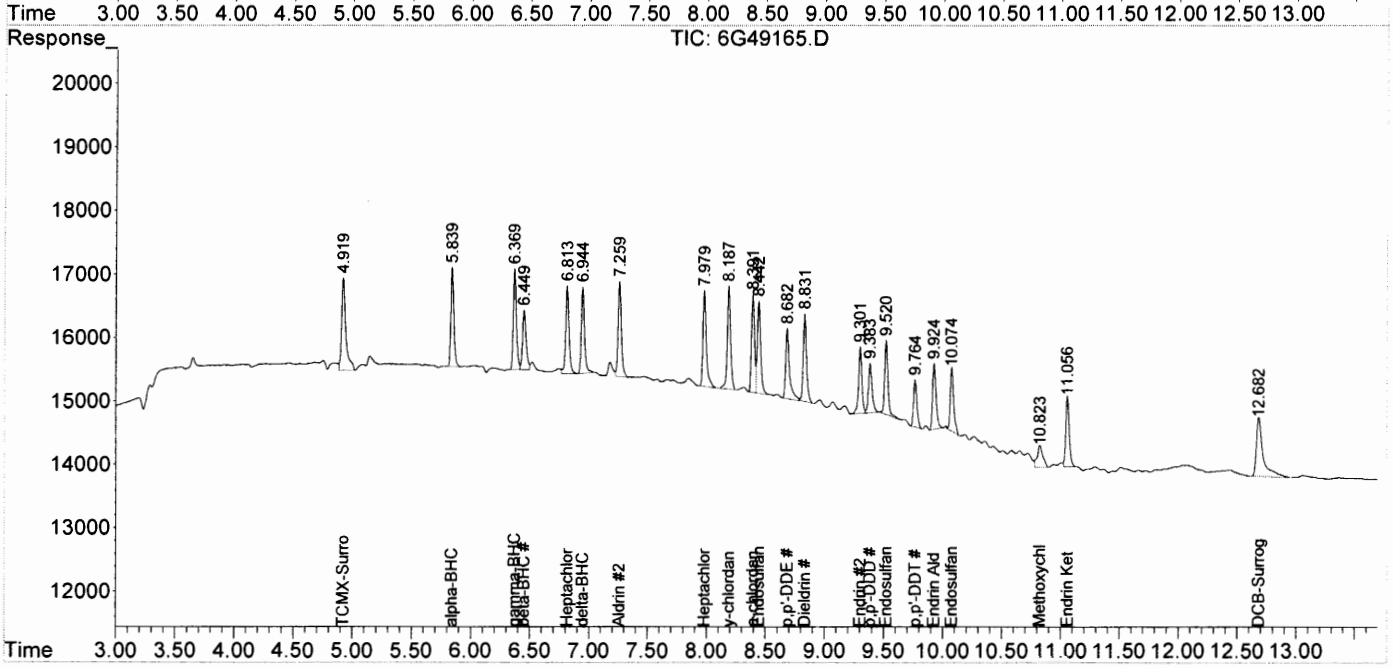
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49165.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 1:36
Operator : MLC/MAS
Sample : CAL PEST@2PPB
Misc : A,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 09:08:31 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49166.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 1:53
Operator : MLC/MAS
Sample : CAL PEST@10PPB
Misc : A,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 09:11:03 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.080	4.920	125652	138417	11.633m	9.320m
2)alpha-BHC	6.235	5.841	125468	139663	9.623	7.233
3)gamma-BHC	6.755	6.370	126100	140614	10.177	8.356
4)beta-BHC	7.623	6.450	126483	94967	18.685	9.280 #
5)Heptachlor	7.066	6.815	127628	118995	11.754	8.128 #
6)delta-BHC	7.973	6.946	111791	122307	9.876	7.709
7)Aldrin	7.441	7.260	118332	138314	10.743	9.771
8)Heptachlor Epoxid	8.262	7.980	123417	135126	11.310	10.040
9)y-chlordane	8.658	8.189	143133	138286	11.888	9.387
10)a-chlordane	8.729	8.393	129616	128263	11.814	9.738
11)Endosulfan I	8.630	8.443	87538	130765	9.991m	9.455
12)p,p'-DDE	8.823	8.683	98138	106783	10.269	8.756
13)Dieldrin	9.071	8.832	105664	117220	11.049	9.598
14)Endrin	9.334	9.301	82363	89659	11.260	10.127m
15)p,p'-DDD	9.769	9.383	78415	87127	10.184	8.852m
16)Endosulfan II	9.888	9.520	110191	117314	12.181	10.215m
17)p,p'-DDT	9.982	9.766	59601	73315	9.395	8.436
18)Endrin Aldehyde	10.371	9.923	84855	97098	12.694	10.169m
19)Endosulfan Sulfat	10.734	10.074	92316	91296	12.891	10.027
20)Methoxychlor	10.676	10.823	30194	38497	8.778m	7.963
21)Endrin Ketone	11.267	11.056	90373	104417	9.692	9.445
22)DCB-Surrogate	12.360	12.682	118411	132816	14.194	12.413
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

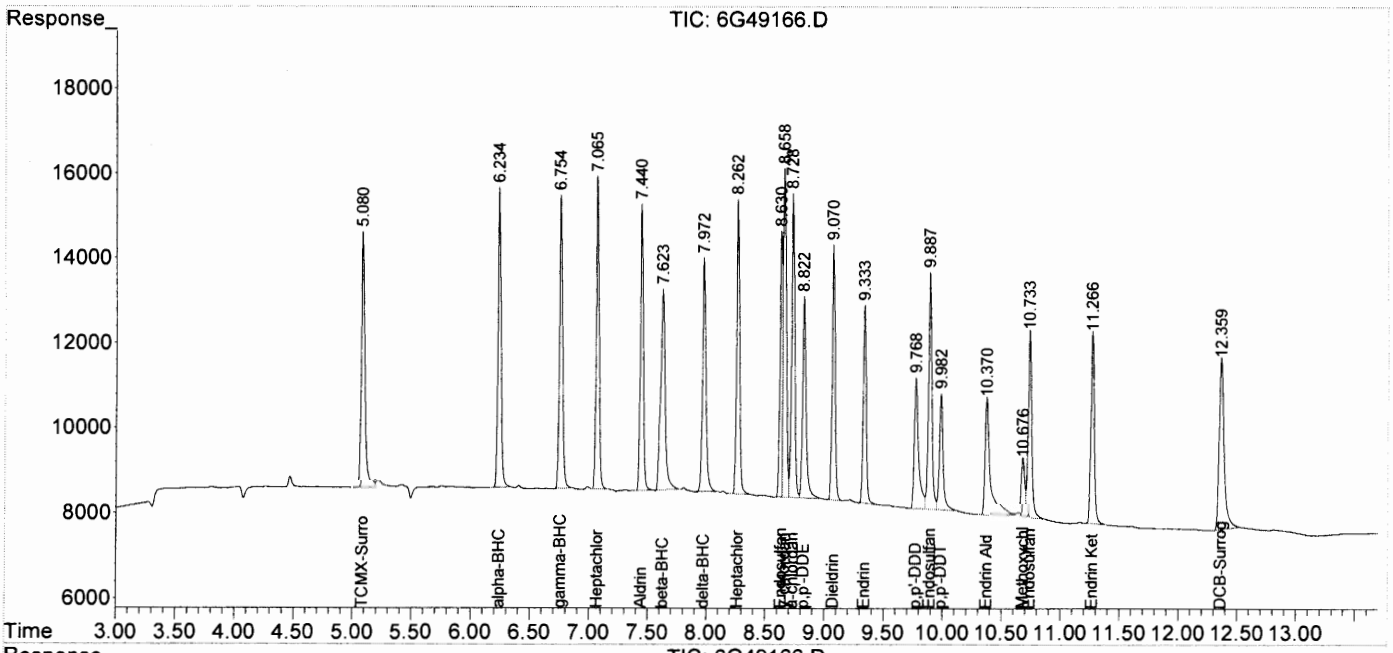
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

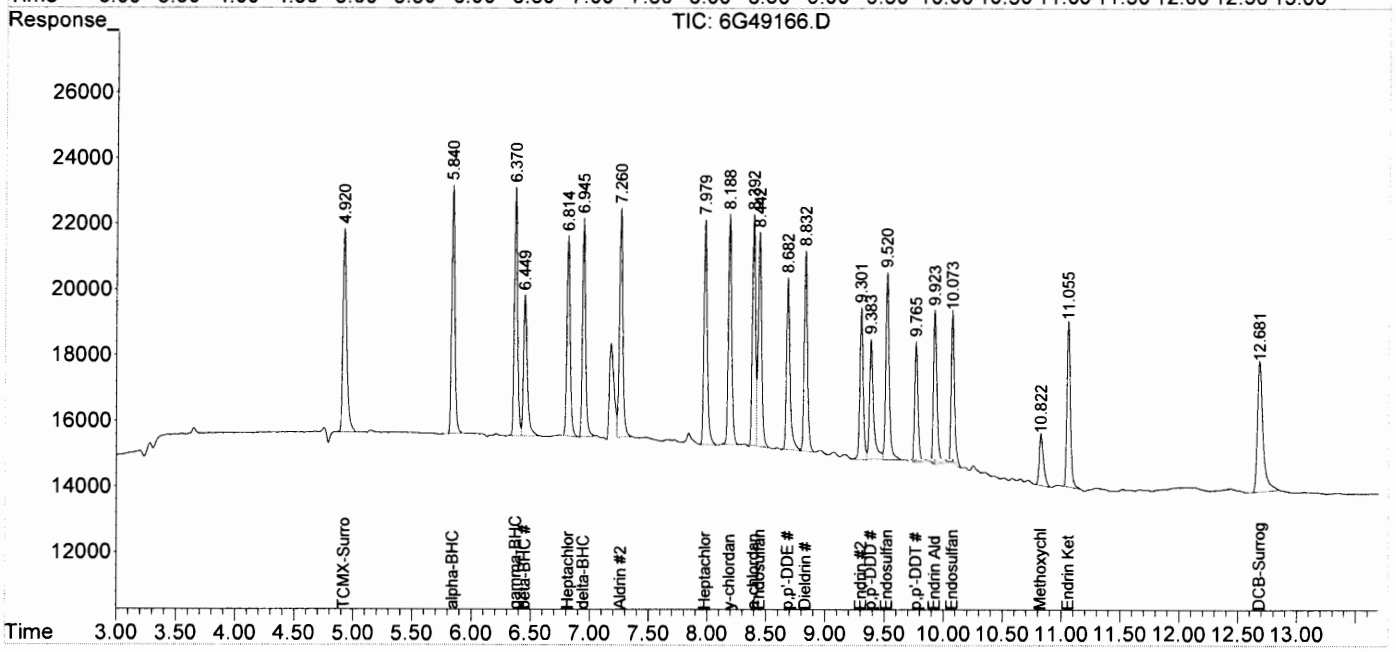
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49166.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 1:53
Operator : MLC/MAS
Sample : CAL PEST@10PPB
Misc : A,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 09:11:03 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1294

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49167.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 2:11
Operator : MLC/MAS
Sample : CAL PEST@50PPB
Misc : A,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 09:11:25 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.080	4.922	551924	683682	52.130	46.033
2)alpha-BHC	6.235	5.842	653207	778846	50.100	40.271
3)gamma-BHC	6.755	6.371	637232	749081	51.426	44.514
4)beta-BHC	7.623	6.451	350379	456259	52.671	44.585
5)Heptachlor	7.066	6.816	583901	579235	53.773	39.567 #
6)delta-BHC	7.971	6.946	554774	672196	49.011	42.370
7)Aldrin	7.441	7.262	574996	652665	52.203	46.107
8)Heptachlor Epoxid	8.262	7.981	556077	630149	52.022	46.823
9)y-chlordane	8.658	8.190	648901	675850	53.895	45.878
10)a-chlordane	8.728	8.394	579885	625815	52.853	47.514
11)Endosulfan I	8.630	8.444	405290	640692	47.209m	46.326
12)p,p'-DDE	8.822	8.684	493999	525993	51.692	43.132
13)Dieldrin	9.070	8.833	501426	564356	52.434	46.212
14)Endrin	9.334	9.303	381830	412576	52.201	46.602
15)p,p'-DDD	9.765	9.385	376800	428679	48.936	43.433
16)Endosulfan II	9.886	9.522	496726	588563	54.912	51.249
17)p,p'-DDT	9.980	9.766	338779	411285	53.481	47.324
18)Endrin Aldehyde	10.369	9.925	402957	478280	60.279	50.448
19)Endosulfan Sulfat	10.733	10.075	447744	466114	62.522	51.192
20)Methoxychlor	10.673	10.823	168801	213193	49.077	44.100
21)Endrin Ketone	11.267	11.057	441472	529588	48.082	47.906
22)DCB-Surrogate	12.359	12.682	496590	592534	61.131	56.155
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

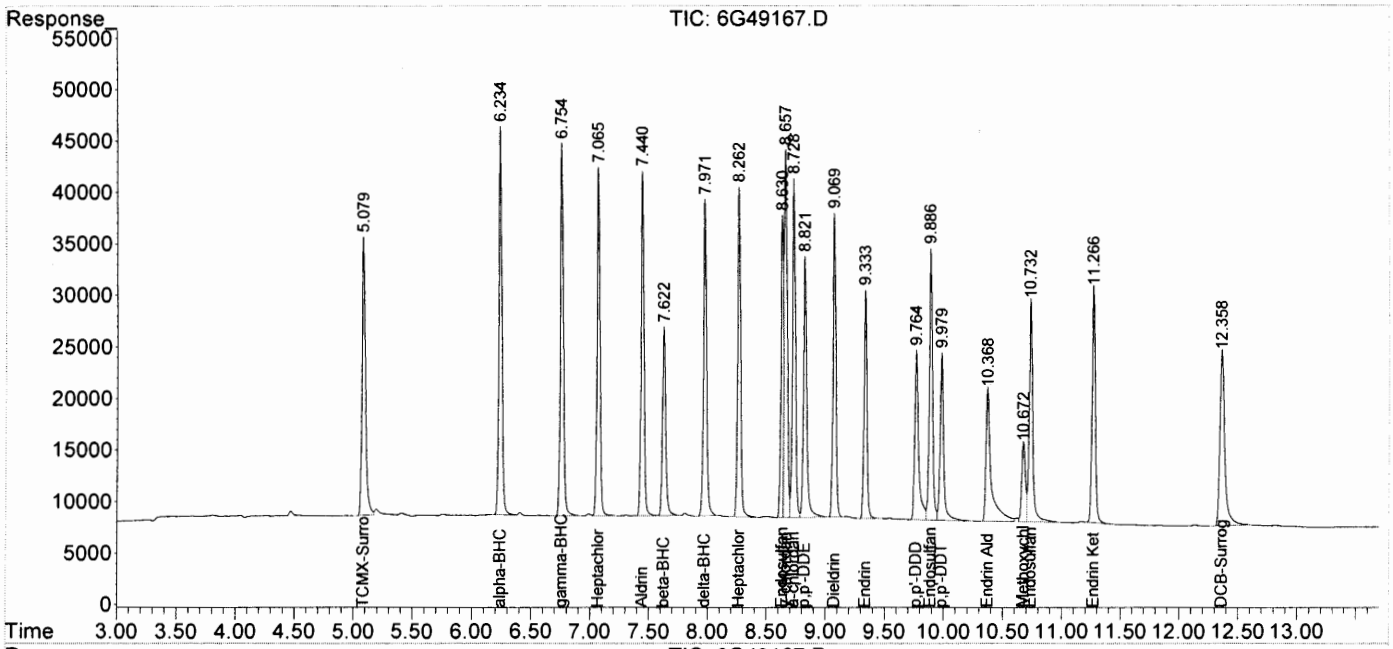
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

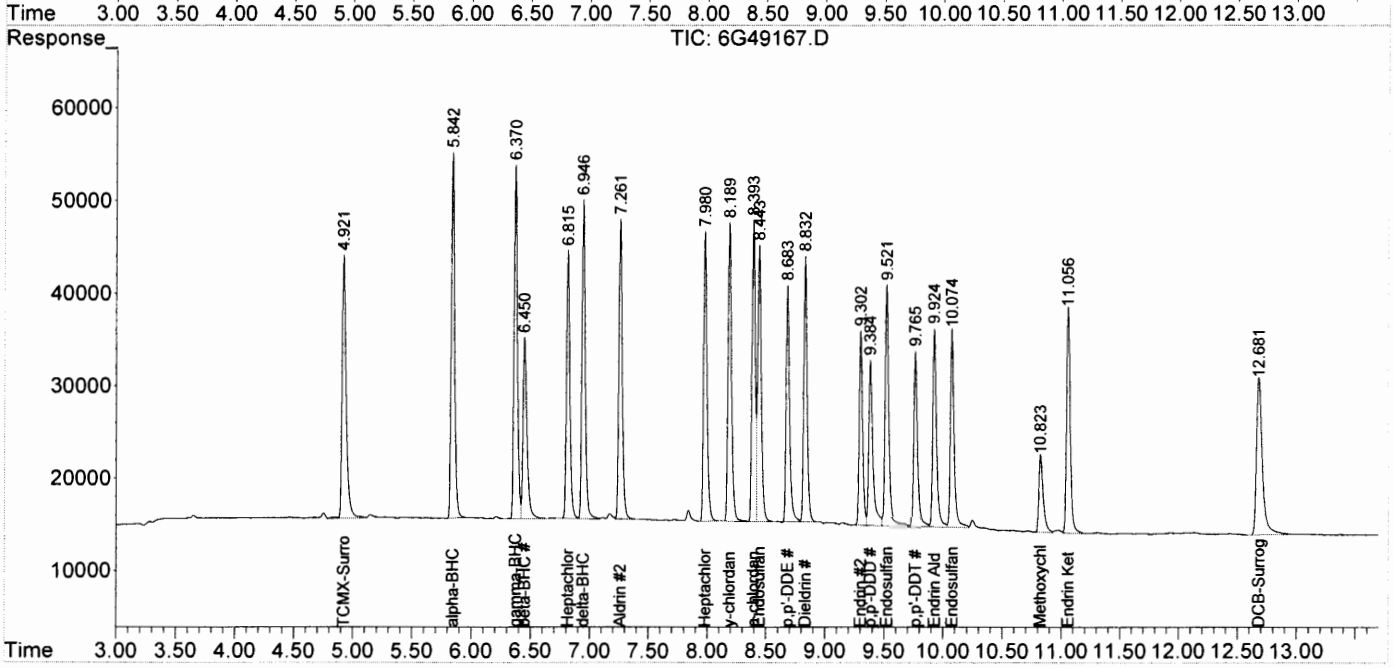
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49167.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 2:11
Operator : MLC/MAS
Sample : CAL PEST@50PPB
Misc : A,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 09:11:25 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49168.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 2:28
Operator : MLC/MAS
Sample : CAL PEST@100PPB
Misc : A,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 08:45:13 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.079	4.922	1069884	1368846	103.719	92.167
2)alpha-BHC	6.234	5.843	1355759	1734018	103.984	89.445
3)gamma-BHC	6.753	6.372	1295195	1622286	104.526	96.403
4)beta-BHC	7.621	6.450	675212	925135	104.289	90.404
5)Heptachlor	7.065	6.816	1134790	1209985	104.505	82.653
6)delta-BHC	7.969	6.946	1168101	1501503	103.196	94.644
7)Aldrin	7.440	7.262	1157128	1391209	105.054	98.281
8)Heptachlor Epoxid	8.262	7.981	1077882	1290607	103.571	95.898
9)y-chlordane	8.657	8.190	1292179	1413324	107.323	95.940
10)a-chlordane	8.727	8.394	1130594	1281947	103.048	97.330
11)Endosulfan I	8.629	8.444	857469	1357411	103.062m	98.149
12)p,p'-DDE	8.819	8.684	1020778	1163306	106.815	95.391
13)Dieldrin	9.070	8.834	1008726	1210188	105.482	99.096
14)Endrin	9.333	9.304	749020	831399	102.400	93.910
15)p,p'-DDD	9.761	9.385	780964	906605	101.425	91.499
16)Endosulfan II	9.885	9.522	969531	1195373	107.180	104.086
17)p,p'-DDT	9.978	9.766	703489	881014	111.269	101.373
18)Endrin Aldehyde	10.367	9.925	802743	975476	120.083	103.870
19)Endosulfan Sulfat	10.731	10.076	877114	963266	122.478	105.793
20)Methoxychlor	10.669	10.823	344840	455344	100.258	94.190
21)Endrin Ketone	11.265	11.057	905939	1108093	100.824	100.236
22)DCB-Surrogate	12.356	12.682	932865	1139610	118.768	109.893
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

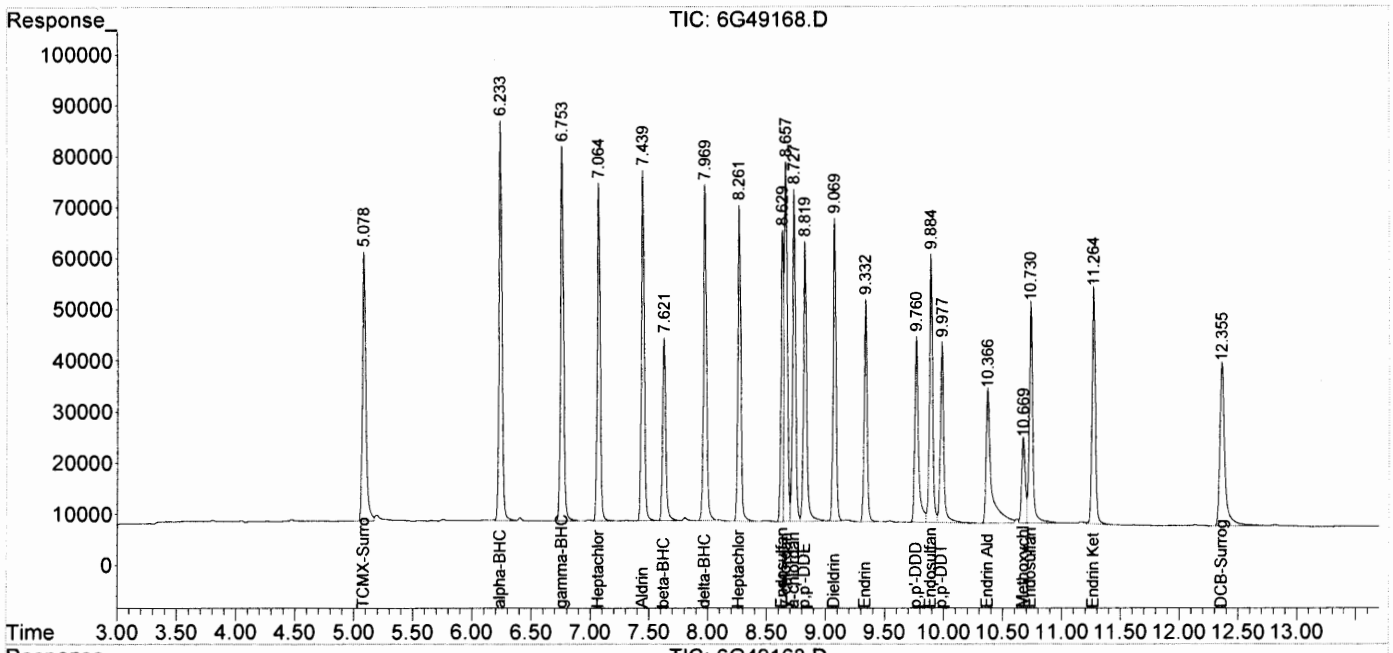
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

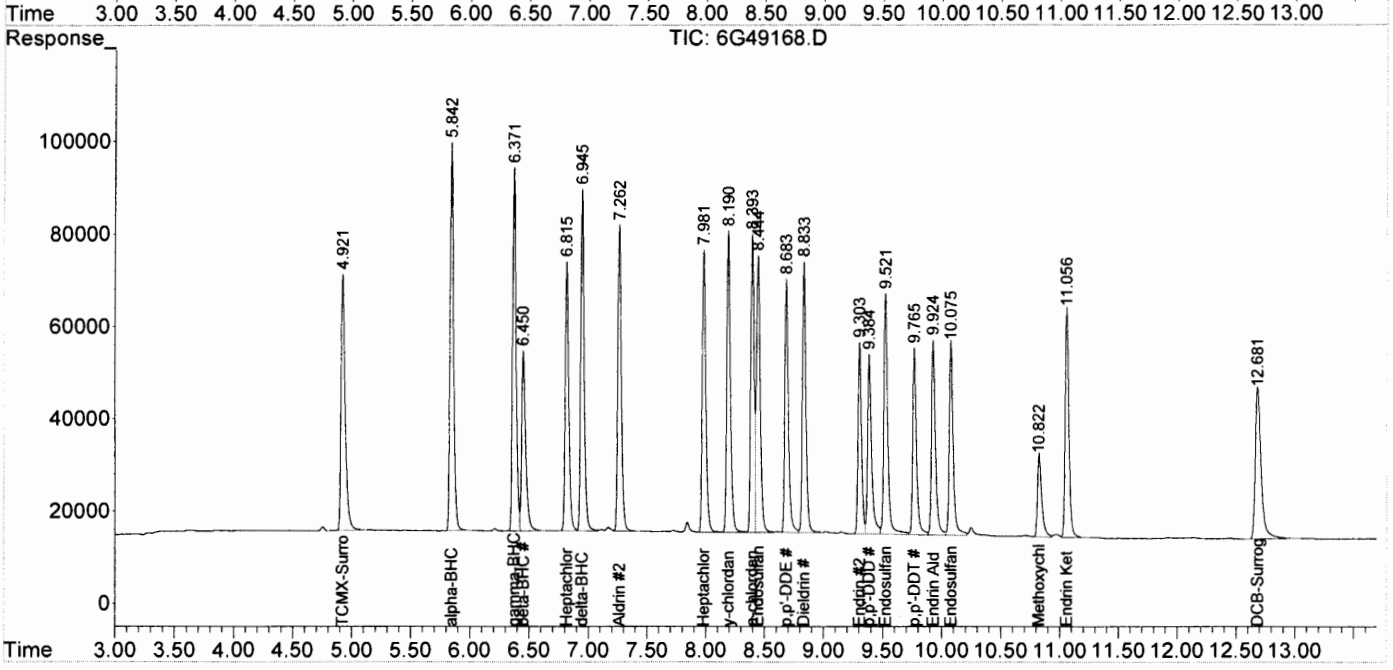
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49168.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 2:28
Operator : MLC/MAS
Sample : CAL PEST@100PPB
Misc : A,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 08:45:13 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49169.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 2:46
Operator : MLC/MAS
Sample : CAL PEST@200PPB
Misc : A,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 08:43:41 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.079	4.923	2037403	2751454	208.726	185.260
2)alpha-BHC	6.234	5.843	2740497	3794805	210.191	194.746
3)gamma-BHC	6.753	6.372	2562244	3444873	206.781	204.710
4)beta-BHC	7.620	6.451	1279671	1891975	209.349	184.883
5)Heptachlor	7.065	6.817	2180866	2550858	200.841	174.246
6)delta-BHC	7.968	6.947	2395744	3277793	211.651	206.608
7)Aldrin	7.440	7.263	2287108	2970443	207.644	209.845
8)Heptachlor Epoxid	8.261	7.982	2058405	2623050	209.446	194.904
9)y-chlordane	8.657	8.190	2504629	2960150	208.025	200.942
10)a-chlordane	8.727	8.394	2188281	2580056	199.450	195.888
11)Endosulfan I	8.628	8.444	1644593	2884962	210.580m	208.601
12)p,p'-DDE	8.818	8.684	2094136	2572273	219.132	210.927
13)Dieldrin	9.069	8.834	1994987	2572009	208.615	210.607
14)Endrin	9.332	9.304	1450734	1694159	198.332	191.363
15)p,p'-DDD	9.759	9.385	1590006	1967804	206.497	196.923
16)Endosulfan II	9.883	9.522	1855701	2424403	205.144	211.103
17)p,p'-DDT	9.976	9.766	1435776	1893266	227.974	217.846
18)Endrin Aldehyde	10.367	9.925	1561078	1955808	233.522	212.364
19)Endosulfan Sulfat	10.731	10.075	1648798	1966684	230.234	215.996
20)Methoxychlor	10.667	10.823	694033	939697	201.781	194.381
21)Endrin Ketone	11.263	11.057	1748038	2281947	203.156	206.422
22)DCB-Surrogate	12.355	12.681	1716487	2211685	234.690	221.301
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

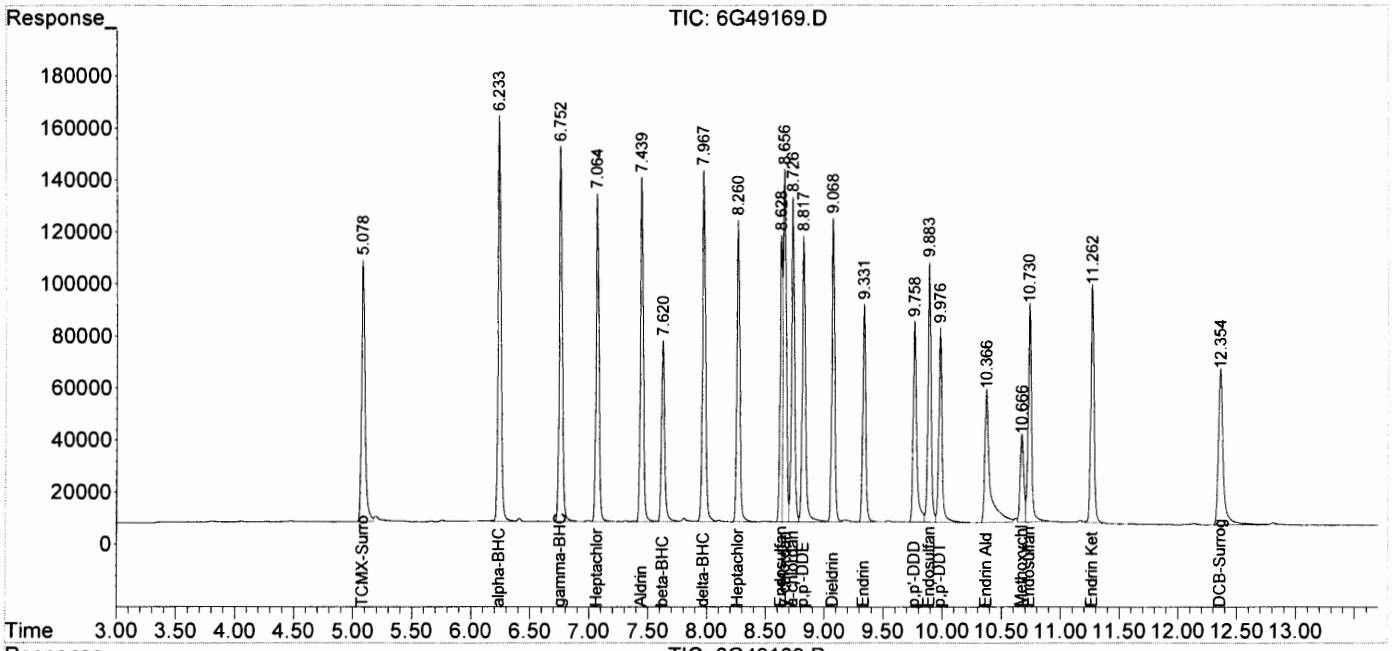
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

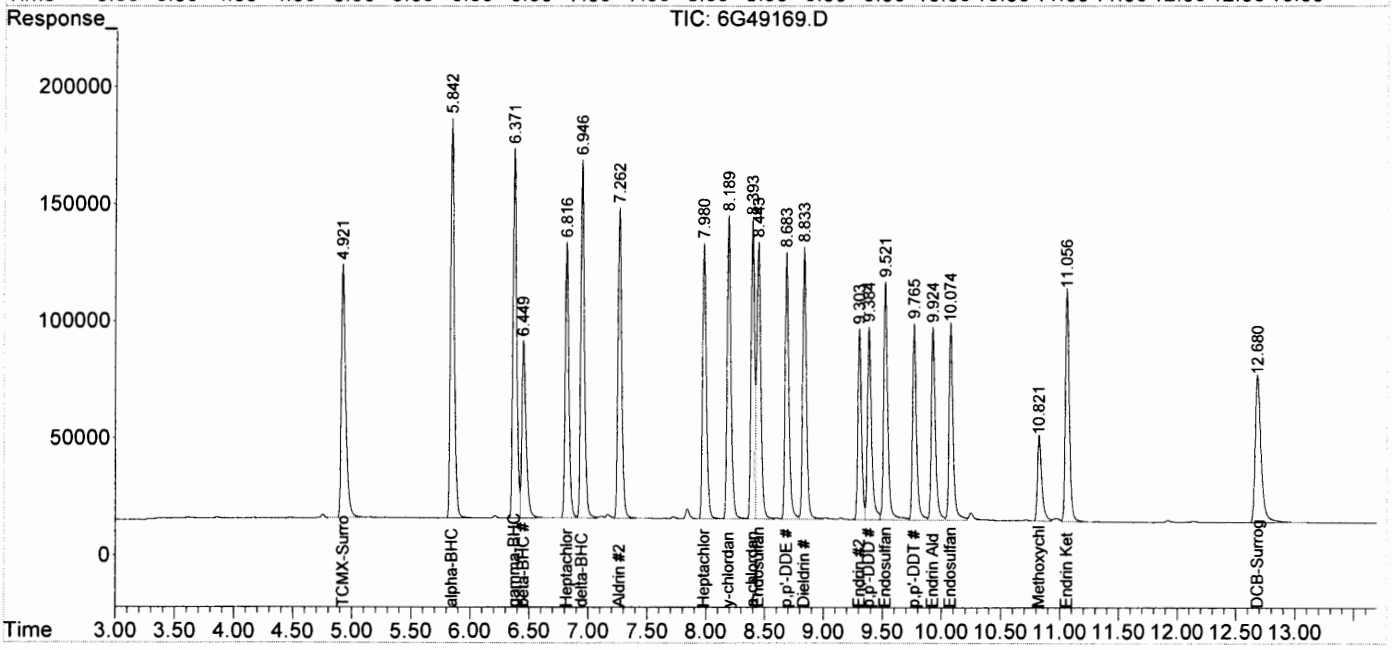
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49169.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 2:46
Operator : MLC/MAS
Sample : CAL PEST@200PPB
Misc : A,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 08:43:41 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1300

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49170.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 3:03
Operator : MLC/MAS
Sample : CAL PEST@400PPB
Misc : A,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 09:13:17 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.079	4.923	3678250	5200319	427.325	350.146
2)alpha-BHC	6.234	5.843	5135315	7477609	393.869	380.323
3)gamma-BHC	6.752	6.372	4739217	6666916	382.469	396.178
4)beta-BHC	7.619	6.450	2298308	3611268	429.127	352.892
5)Heptachlor	7.064	6.817	3919826	4947636	360.985	337.967
6)delta-BHC	7.967	6.946	4506055	6496325	398.086	409.480
7)Aldrin	7.440	7.263	4200331	5761516	381.344	407.019
8)Heptachlor Epoxid	8.261	7.981	3662314	4913929	422.912	365.126
9)y-chlordane	8.656	8.190	4595838	5724576	381.712	388.599
10)a-chlordane	8.727	8.393	3994912	4825515	364.115	366.371
11)Endosulfan I	8.628	8.443	2776029	5513353	402.313m	398.650
12)p,p'-DDE	8.817	8.684	3894186	5138632	407.491	421.368
13)Dieldrin	9.069	8.833	3627297	4915430	379.304	402.497
14)Endrin	9.332	9.303	2577142	3159686	352.325	356.900
15)p,p'-DDD	9.757	9.384	2986010	3924972	387.798	386.890
16)Endosulfan II	9.884	9.522	3317077	4555282	366.697	396.647
17)p,p'-DDT	9.975	9.765	2718493	3757028	434.634	432.297
18)Endrin Aldehyde	10.365	9.924	2891980	3699197	432.613	417.193
19)Endosulfan Sulfat	10.729	10.075	2971201	3755023	414.890	412.406
20)Methoxychlor	10.664	10.821	1274754	1798902	370.618	372.112
21)Endrin Ketone	11.262	11.057	3193124	4352068	407.001	393.682
22)DCB-Surrogate	12.353	12.680	2989586	4070398	487.214	439.736
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

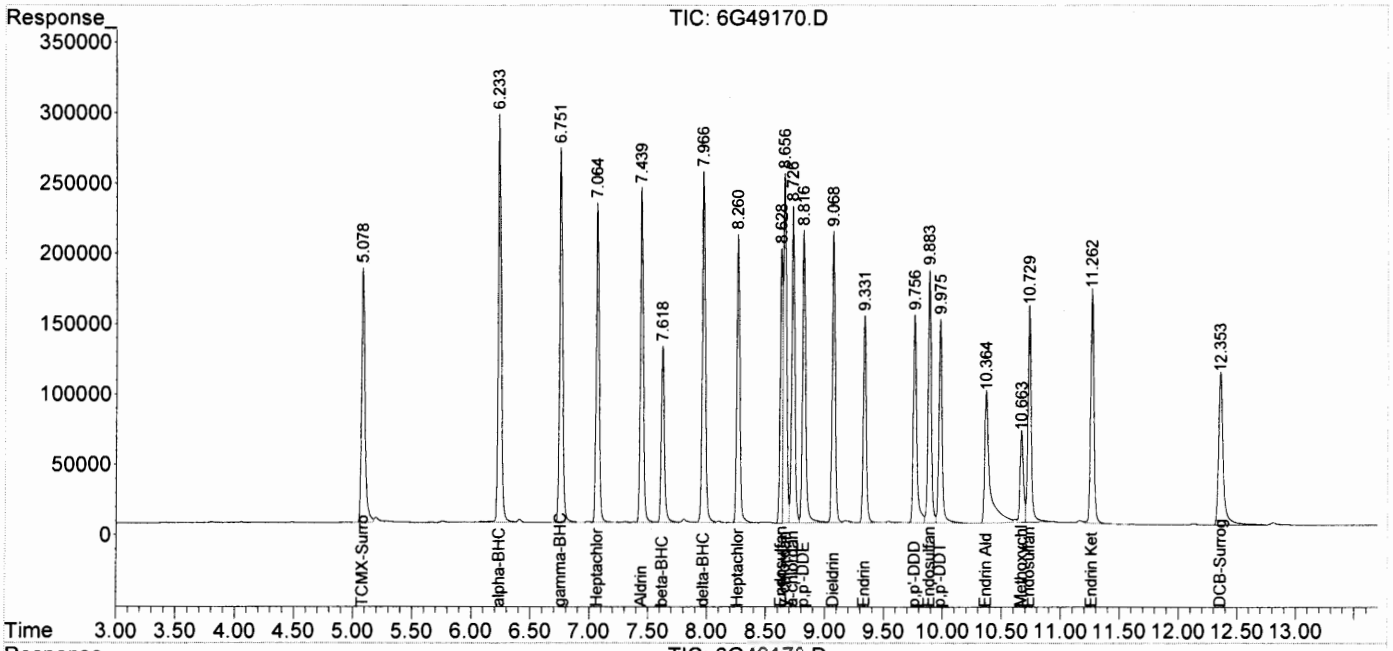
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

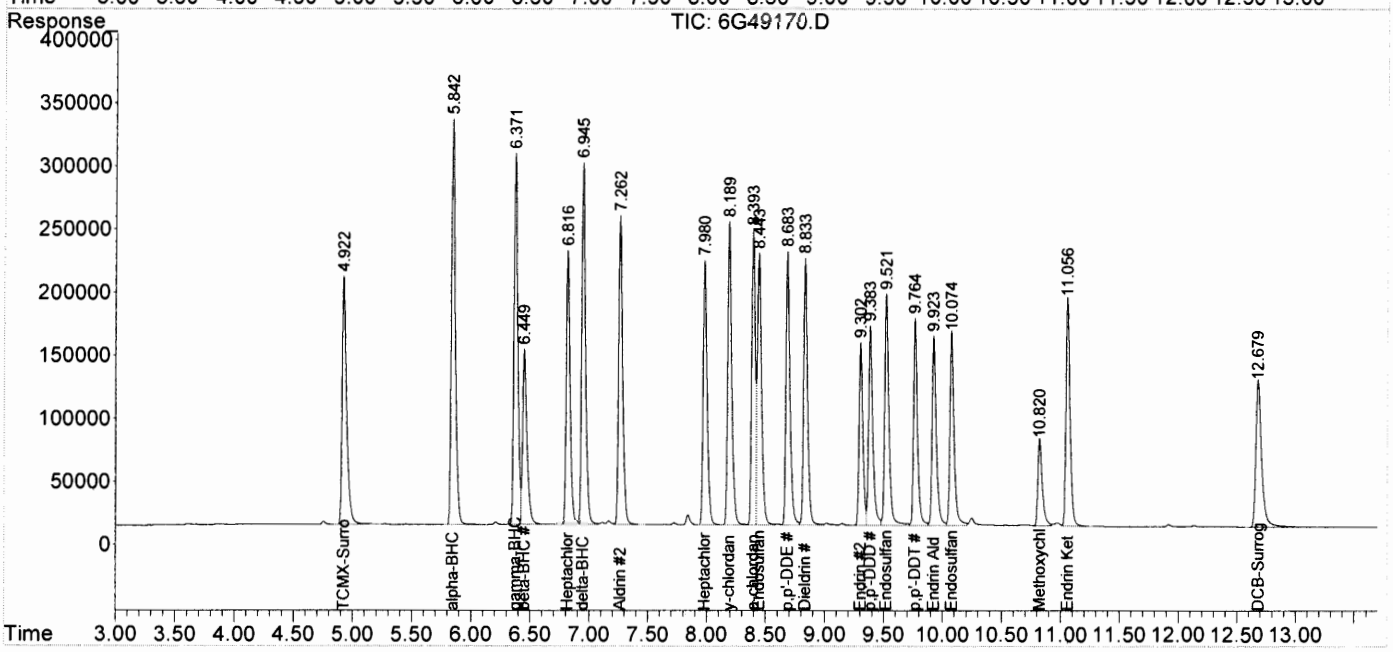
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49170.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 3:03
Operator : MLC/MAS
Sample : CAL PEST@400PPB
Misc : A,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 09:13:17 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1302

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49171.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 3:21
Operator : MLC/MAS
Sample : CAL CHLOR @100PPB
Misc : A,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 09:13:51 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.080	4.923	1109375	1387339	107.770	93.412
2)alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)Heptachlor Epoxid	0.000	0.000	0	0	N.D. d	N.D. d
9)y-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
10)a-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
12)p,p'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)p,p'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)Endosulfan II	0.000	0.000	0	0	N.D. d	N.D. d
17)p,p'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)Endrin Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
19)Endosulfan Sulfat	0.000	0.000	0	0	N.D.	N.D.
20)Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21)Endrin Ketone	0.000	0.000	0	0	N.D.	N.D.
22)DCB-Surrogate	12.358	12.683	954536	1145944	121.742	110.526
23)Chlordane {1}	6.864f	6.815	57152	57837	99.399m	82.055
24)Chlordane {2}	8.660	8.191	139666	254428	109.246	97.858
25)Chlordane {3}	8.729	8.393	205233	143477	107.657	96.096
26)Toxaphene {1}	0.000	0.000	0	0	N.D.	N.D.
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D.	N.D.
29)Toxaphene {4}	0.000	0.000	0	0	N.D.	N.D.
30)Toxaphene {5}	0.000	0.000	0	0	N.D.	N.D.

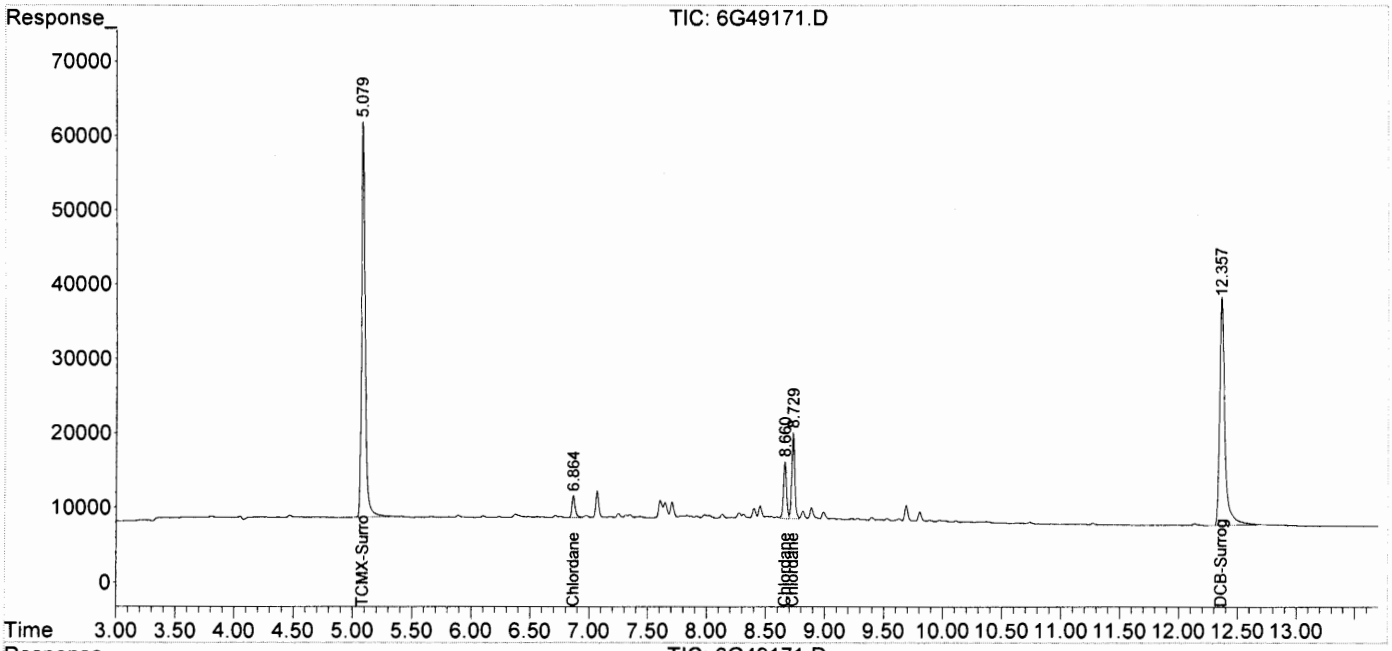
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

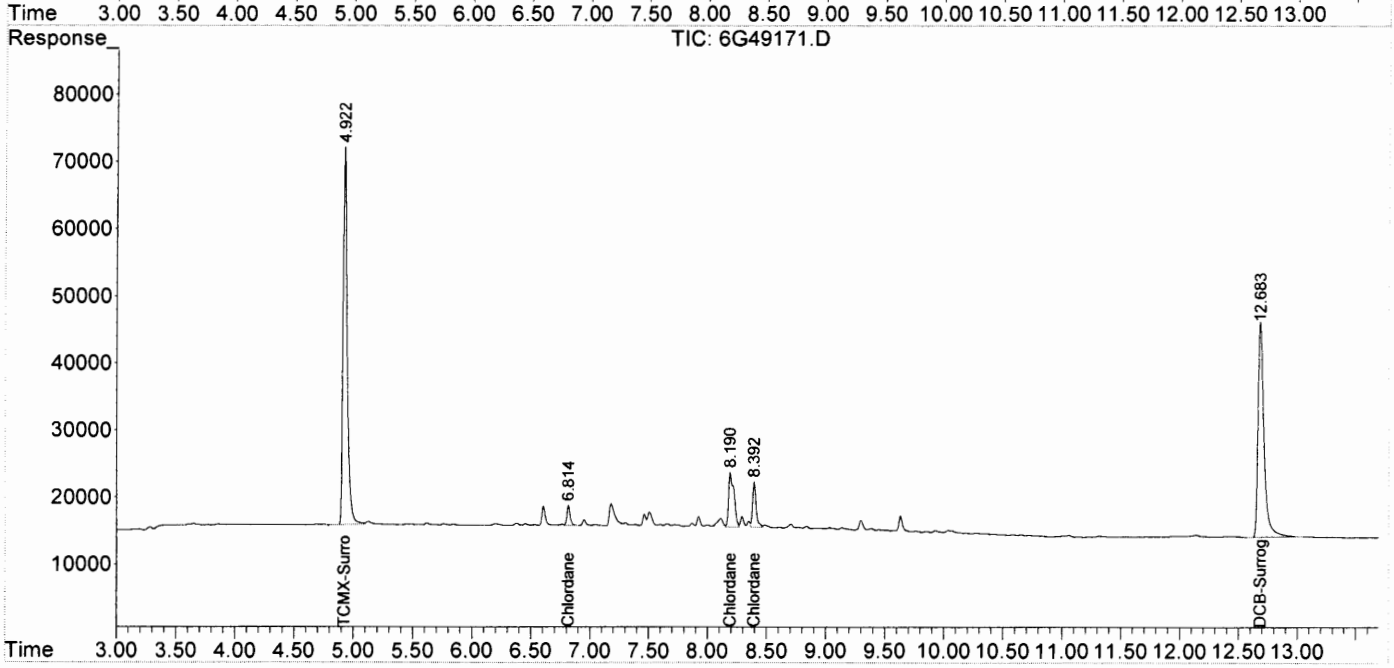
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49171.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 3:21
Operator : MLC/MAS
Sample : CAL CHLOR @100PPB
Misc : A,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 09:13:51 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1304

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49172.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 3:38
Operator : MLC/MAS
Sample : CAL TOX @500PPB
Misc : A,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 09:15:31 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.081	4.922	561587	656389	53.067	44.196
2)alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
3)gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)Heptachlor Epoxid	0.000	0.000	0	0	N.D. d	N.D. d
9)y-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
10)a-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
12)p,p'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)p,p'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)Endosulfan II	0.000	0.000	0	0	N.D. d	N.D. d
17)p,p'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)Endrin Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
19)Endosulfan Sulfat	0.000	0.000	0	0	N.D. d	N.D. d
20)Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)Endrin Ketone	0.000	0.000	0	0	N.D. d	N.D. d
22)DCB-Surrogate	12.359	12.683	498417	571176	61.364	54.096
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	9.455	8.959	89905	90159	469.475m	516.419m
27)Toxaphene {2}	9.692	9.176	87977	57538	514.455m	307.956m#
28)Toxaphene {3}	9.920	9.813	98067	74933	510.016m	400.590m
29)Toxaphene {4}	10.240	10.565	122530	86465	679.099m	359.197m#
30)Toxaphene {5}	10.715	10.637	100325	82045	468.159m	455.196m

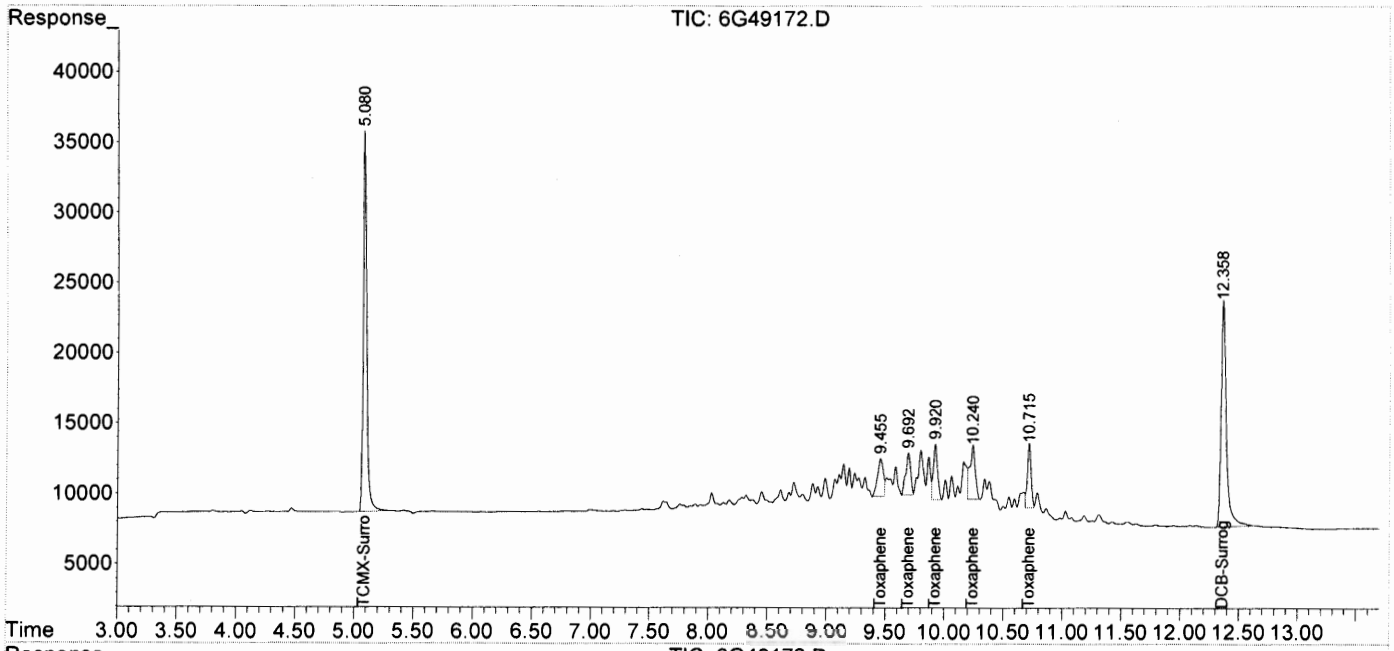
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

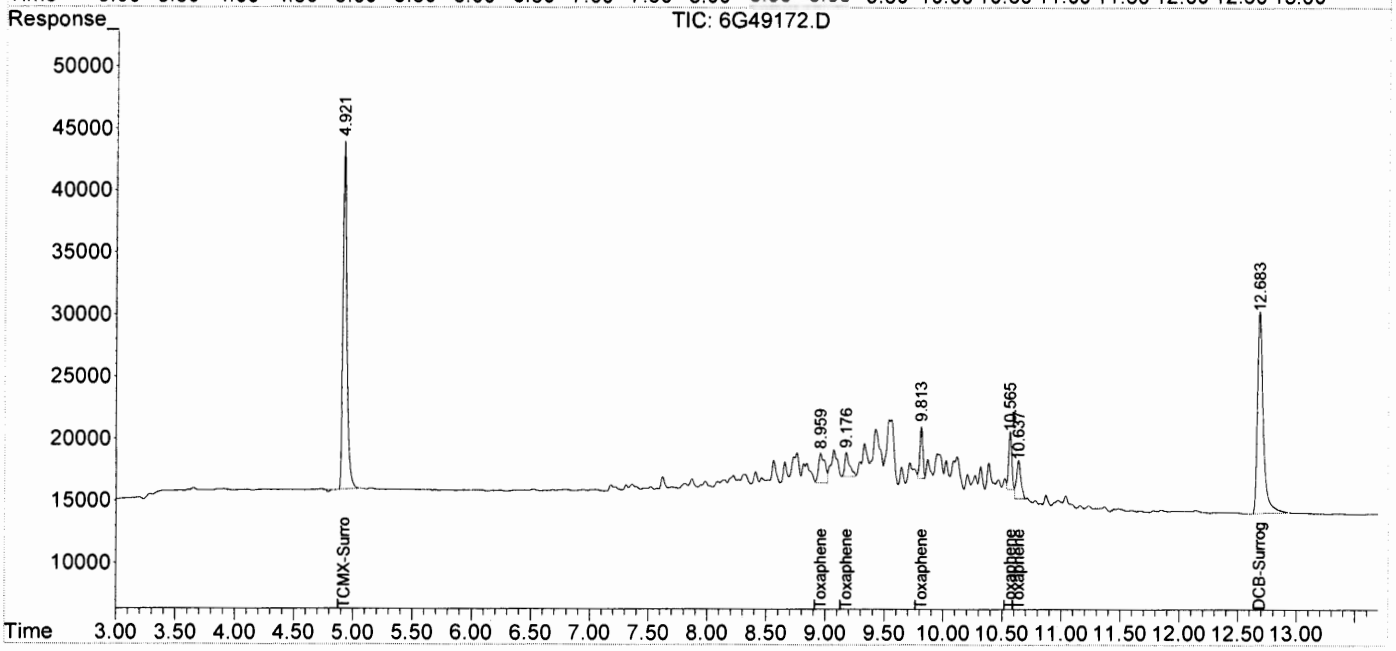
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49172.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 3:38
Operator : MLC/MAS
Sample : CAL TOX @500PPB
Misc : A,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 09:15:31 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Apr 23 16:59:03 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





4052101 1306

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5G51948.	CAL PEST@2PPB	05/23/14 01:36	2	5G51949.	CAL PEST@10PPB	05/23/14 01:54
3	5G51950.	CAL PEST@50PPB	05/23/14 02:12	4	5G51951.	CAL PEST@100PPB	05/23/14 02:30
5	5G51952.	CAL PEST@200PPB	05/23/14 02:47	6	5G51953.	CAL PEST@400PPB	05/23/14 03:05
7	5G51954.	CAL CHLOR@500PP	05/23/14 03:23	8	5G51955.	CAL TOX @500PPB	05/23/14 03:41

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	263.14	252.74	237.62	244.41	242.54	236.93	----	----	246	6.21	1.00	1.00	4.1	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Avg	342.85	340.32	331.12	348.10	359.13	371.45	----	----	349	7.46	1.00	1.00	4.1	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	Avg	328.05	316.92	302.08	313.98	321.25	328.86	----	----	319	7.98	1.00	1.00	3.1	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	Avg	148.61	137.02	123.68	127.50	127.54	125.84	----	----	132	8.87	1.00	1.00	7.2	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	Avg	258.46	234.82	218.70	223.97	223.46	220.66	----	----	230	8.27	1.00	1.00	6.5	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	260.95	294.50	272.22	286.60	293.60	303.08	----	----	285	9.19	1.00	1.00	5.5	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	308.70	294.91	277.98	283.78	281.74	275.12	----	----	287	8.63	1.00	1.00	4.4	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	Avg	268.22	255.94	237.21	240.20	235.85	227.84	----	----	244	9.43	1.00	1.00	6.1	2.00	10.00	50.00	100.0	200.0	400.0		
γ-chlordane	1	0	Avg	269.31	258.15	242.23	253.14	255.81	255.24	----	----	256	9.82	1.00	1.00	3.4	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	1	0	Avg	265.10	247.69	231.25	240.54	242.93	241.22	----	----	245	9.88	1.00	1.00	4.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	Avg	238.82	234.82	216.52	220.20	217.28	211.50	----	----	223	9.77	1.00	1.00	4.9	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	249.52	248.01	238.04	247.93	250.60	249.13	----	----	247	9.97	1.00	1.00	1.9	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	Avg	250.86	243.82	231.37	238.77	238.04	233.03	----	----	239	10.20	1.00	1.00	3.0	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	Avg	171.22	169.08	157.19	164.89	162.29	164.05	----	----	165	10.44	1.00	1.00	3.0	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	Avg	213.44	194.26	183.62	191.30	195.26	198.76	----	----	196	10.87	1.00	1.00	5.1	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	Avg	218.31	204.12	193.71	199.88	202.92	202.91	----	----	204	10.98	1.00	1.00	4.0	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	Qua	93.238	120.74	140.22	156.47	170.85	180.72	----	----	144	11.07	0.999	1.00	23	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	Avg	138.38	140.94	140.95	149.18	154.35	152.43	----	----	146	11.44	1.00	1.00	4.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	Avg	176.83	172.92	170.38	180.01	185.20	184.74	----	----	178	11.79	1.00	1.00	3.4	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	Qua	45.268	55.254	59.168	67.328	70.469	74.710	----	----	62.0	11.72	0.999	1.00	18	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Avg	170.13	171.90	169.21	179.17	188.42	192.71	----	----	179	12.27	1.00	1.00	5.6	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	Avg	195.09	178.48	167.26	174.21	176.50	176.19	----	----	178	13.17	1.00	1.00	5.2	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane	1	1	Avg	----	----	----	----	----	----	----	----	10.9	8.07	-1	-1	Lvl=7	100.0							
Chlordane	1	2	Avg	----	----	----	----	----	----	----	----	28.5	9.81	-1	-1	Lvl=7	100.0							
Chlordane	1	3	Avg	----	----	----	----	----	----	----	----	39.0	9.88	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	----	----	----	----	----	----	----	----	0.936	10.23	-1	-1	Lvl=8	500.0							
Toxaphene	1	2	Avg	----	----	----	----	----	----	----	----	3.31	10.56	-1	-1	Lvl=8	500.0							
Toxaphene	1	3	Avg	----	----	----	----	----	----	----	----	4.28	11.01	-1	-1	Lvl=8	500.0							
Toxaphene	1	4	Avg	----	----	----	----	----	----	----	----	3.27	11.31	-1	-1	Lvl=8	500.0							
Toxaphene	1	5	Avg	----	----	----	----	----	----	----	----	3.79	11.75	-1	-1	Lvl=8	500.0							
TCMX-Surrogate	2	0	Avg	213.73	173.83	174.71	177.29	173.83	164.80	----	----	180	6.07	0.999	1.00	9.6	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	Avg	248.14	269.67	249.06	256.92	256.60	247.91	----	----	255	7.08	1.00	1.00	3.3	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	Avg	230.23	230.79	220.41	226.99	225.79	219.20	----	----	226	7.61	1.00	1.00	2.2	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	Avg	112.88	112.21	103.94	108.24	106.10	102.20	----	----	108	7.70	1.00	1.00	4.0	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	Avg	149.88	167.88	151.81	158.80	158.52	151.96	----	----	156	8.05	0.999	1.00	4.3	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	Avg	220.05	231.17	220.77	227.55	227.36	220.38	----	----	225	8.19	1.00	1.00	2.1	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 5.92 Avg Rsd Col 2: 4.67

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

4052101 1307

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5G51948.	CAL PEST@2PPB	05/23/14 01:36	2	5G51949.	CAL PEST@10PPB	05/23/14 01:54
3	5G51950.	CAL PEST@50PPB	05/23/14 02:12	4	5G51951.	CAL PEST@100PPB	05/23/14 02:30
5	5G51952.	CAL PEST@200PPB	05/23/14 02:47	6	5G51953.	CAL PEST@400PPB	05/23/14 03:05
7	5G51954.	CAL CHLOR@500PP	05/23/14 03:23	8	5G51955.	CAL TOX @500PPB	05/23/14 03:41

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	Avg	201.64	209.87	195.56	199.35	194.13	181.94	----	----	197	8.48	0.999	1.00	4.7	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	Avg	189.90	187.62	165.72	167.52	161.80	152.55	----	----	171	9.18	0.999	1.00	8.7	2.00	10.00	50.00	100.0	200.0	400.0		
γ-chlordane	2	0	Avg	194.57	190.60	178.29	184.45	182.91	175.84	----	----	184	9.38	1.00	1.00	3.9	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	2	0	Avg	175.01	171.56	161.29	167.16	165.27	159.08	----	----	167	9.58	1.00	1.00	3.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	Avg	181.06	190.31	175.77	176.74	170.96	160.16	----	----	176	9.62	0.999	1.00	5.7	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	Avg	170.59	172.05	168.29	174.31	174.22	167.41	----	----	171	9.87	1.00	1.00	1.7	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	Avg	169.25	168.27	167.36	167.85	168.59	160.23	----	----	167	9.99	0.999	1.00	2.0	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	120.08	114.45	105.96	110.68	108.02	105.22	----	----	111	10.44	1.00	1.00	5.1	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	Avg	129.81	128.42	128.82	134.94	136.51	133.57	----	----	132	10.53	1.00	1.00	2.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	Avg	148.09	147.59	141.43	145.57	144.11	138.25	----	----	144	10.65	1.00	1.00	2.6	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	LinF	104.89	104.64	110.71	120.69	127.25	127.01	----	----	116	10.89	0.999	0.999	9.1	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	Avg	116.36	117.52	114.06	116.99	119.20	114.76	----	----	116	11.03	1.00	1.00	1.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	Avg	134.92	138.28	130.70	135.28	136.25	130.80	----	----	134	11.17	1.00	1.00	2.3	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	LinF	35.239	39.887	41.767	45.318	48.200	48.473	----	----	43.1	11.89	1.00	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	Avg	130.41	133.40	139.19	144.55	148.59	145.87	----	----	140	12.09	1.00	1.00	5.2	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	Avg	144.92	122.21	122.12	133.90	133.41	130.15	----	----	131	13.49	1.00	1.00	6.5	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane	2	1	Avg	----	----	----	----	----	----	----	----	8.31	7.84	-1	-1	Lvl=7	100.0							
Chlordane	2	2	Avg	----	----	----	----	----	----	----	----	21.6	9.38	-1	-1	Lvl=7	100.0							
Chlordane	2	3	Avg	----	----	----	----	----	----	----	----	17.6	9.58	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	----	----	----	----	----	----	----	----	1.11	10.22	-1	-1	Lvl=8	500.0							
Toxaphene	2	2	Avg	----	----	----	----	----	----	----	----	3.04	10.66	-1	-1	Lvl=8	500.0							
Toxaphene	2	3	Avg	----	----	----	----	----	----	----	----	2.31	10.93	-1	-1	Lvl=8	500.0							
Toxaphene	2	4	Avg	----	----	----	----	----	----	----	----	2.41	11.63	-1	-1	Lvl=8	500.0							
Toxaphene	2	5	Avg	----	----	----	----	----	----	----	----	2.34	11.70	-1	-1	Lvl=8	500.0							

Avg Rsd Col 1: 5.92 Avg Rsd Col 2: 4.67

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51948.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 01:36:54
Operator : MAS/MLC
Sample : CAL PEST@2PPB
Misc : A,PEST
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:15:31 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:07:50 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.206	6.071	5262960	4274756	2.324	2.504
2)alpha-BHC	7.462	7.076	6857053	4962802	2.235	2.019
3)gamma-BHC	7.984	7.613	6561168	4604627	2.308	2.101
4)beta-BHC	8.870	7.704	2972298	2257677	2.534	2.070
5)Heptachlor	8.268	8.046	5169373	2997686	2.204	1.671m
6)delta-BHC	9.190	8.189	5219112	4401158	2.092m	2.073
7)Aldrin	8.626	8.478	6174001	4032812	2.409m	2.101m
8)Heptachlor Epoxid	9.432	9.181	5364469	3798168	2.412m	2.292m
9)y-chlordane	9.814	9.381	5386330	3891544	2.398	2.179
10)a-chlordane	9.879	9.578	5302078	3500370	2.471	2.184
11)Endosulfan I	9.774	9.621	4776534	3621247	2.371	2.104
12)p,p'-DDE	9.971	9.865	4990450	3411994	2.299	2.080
13)Dieldrin	10.198	9.994	5017316	3385033	2.346	2.039
14)Endrin	10.443	10.439	3424581	2401711	2.172	2.077
15)p,p'-DDD	10.872	10.529	4268955	2596208	2.419	1.909
16)Endosulfan II	10.979	10.648	4366308	2961944	2.387	2.085
17)p,p'-DDT	11.067	10.887	1864768	2097944	1.292	1.657m#
18)Endrin Aldehyde	11.439	11.031	2767706	2327247	2.092m	2.004
19)Endosulfan Sulfat	11.787	11.173	3536624	2698462	2.235	2.108
20)Methoxychlor	11.723	11.887	905370	704795	1.165	1.235m
21)Endrin Ketone	12.268	12.091	3402738	2608263	2.039	1.881
22)DCB-Surrogate	13.175	13.490	3901878	2898545	2.334	2.213m
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

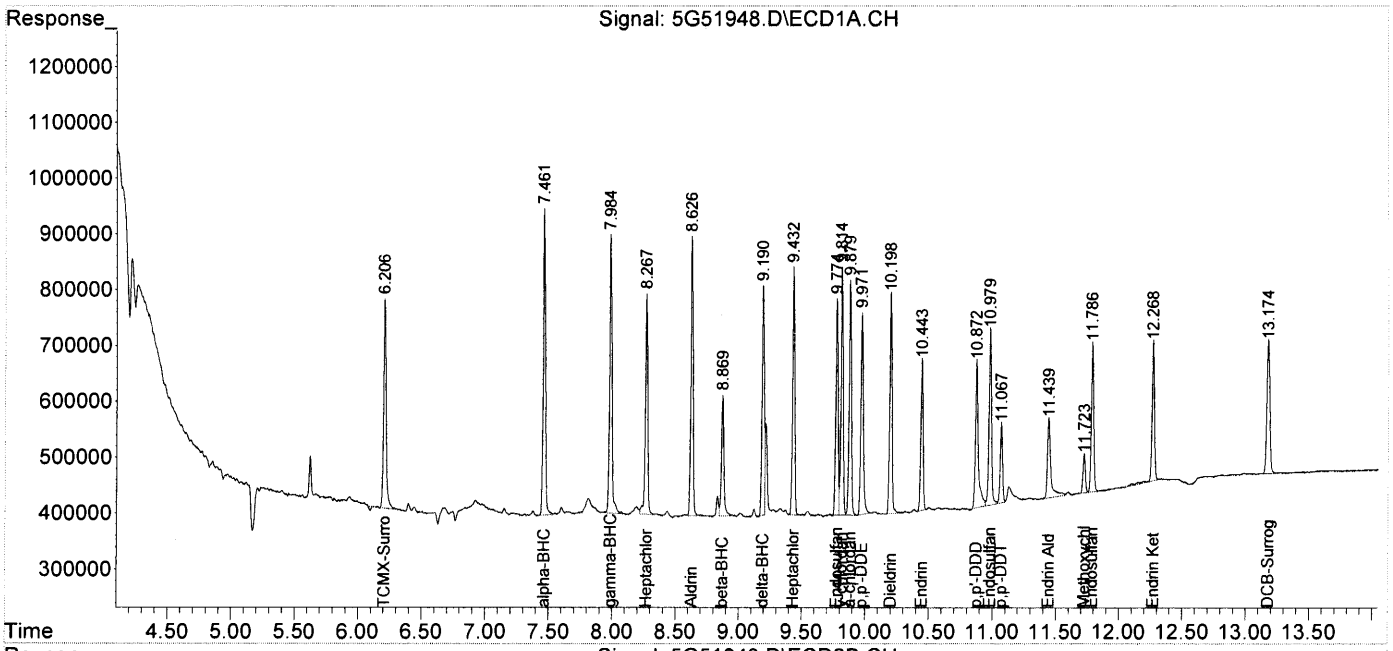
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

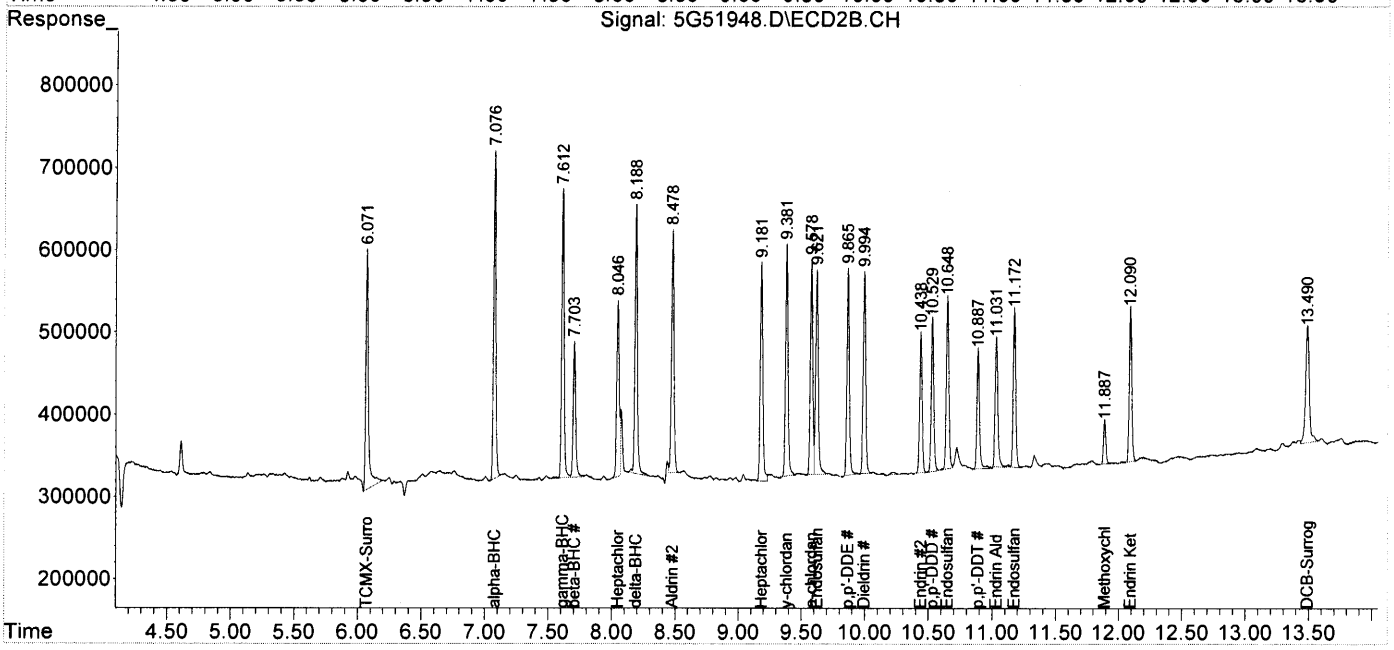
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51948.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 01:36:54
Operator : MAS/MLC
Sample : CAL PEST@2PPB
Misc : A,PEST
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:15:31 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:07:50 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1310

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51949.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 01:54:37
Operator : MAS/MLC
Sample : CAL PEST@10PPB
Misc : A,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:10:26 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:07:50 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.205	6.072	25274371	17383964	11.162m	10.181
2)alpha-BHC	7.462	7.076	34032505	26967913	11.092	10.971
3)gamma-BHC	7.984	7.613	31692645	23079855	11.146	10.531
4)beta-BHC	8.868	7.704	13702173	11221390	11.682	10.286
5)Heptachlor	8.268	8.047	23482793	16788514	10.014	9.358
6)delta-BHC	9.189	8.189	29450239	23117671	11.805	10.890
7)Aldrin	8.626	8.478	29491077	20987891	11.508	10.936
8)Heptachlor Epoxid	9.433	9.182	25594472	18762009	11.509	11.322
9)y-chlordane	9.814	9.382	25815465	19060499	11.493	10.674
10)a-chlordane	9.879	9.578	24769096	17156344	11.543	10.705
11)Endosulfan I	9.774	9.621	23482156	19031646	11.657	11.059
12)p,p'-DDE	9.970	9.866	24801489	17205253	11.427	10.489
13)Dieldrin	10.198	9.994	24382623	16827481	11.399	10.137
14)Endrin	10.444	10.438	16908777	11445440	10.723	9.896
15)p,p'-DDD	10.869	10.529	19426658	12842831	11.006	9.445
16)Endosulfan II	10.978	10.648	20412864	14759310	11.160	10.390
17)p,p'-DDT	11.066	10.888	12074188	10464518	8.328	8.264
18)Endrin Aldehyde	11.440	11.031	14094829	11752654	10.654	10.119
19)Endosulfan Sulfat	11.786	11.174	17292235	13828397	10.929	10.801
20)Methoxychlor	11.721	11.887	5525457	3988706	7.093	6.988
21)Endrin Ketone	12.267	12.091	17190926	13340977	10.300	9.619
22)DCB-Surrogate	13.174	13.490	17848462	12221527	10.675	9.333
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

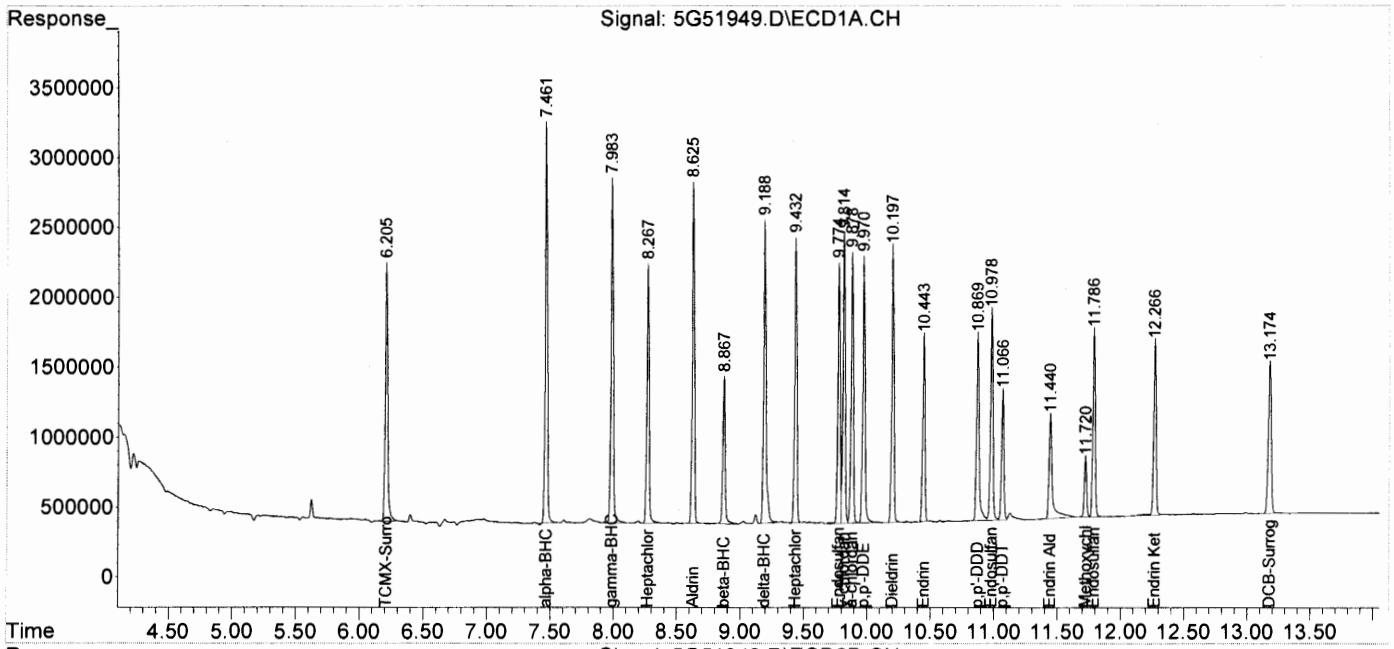
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

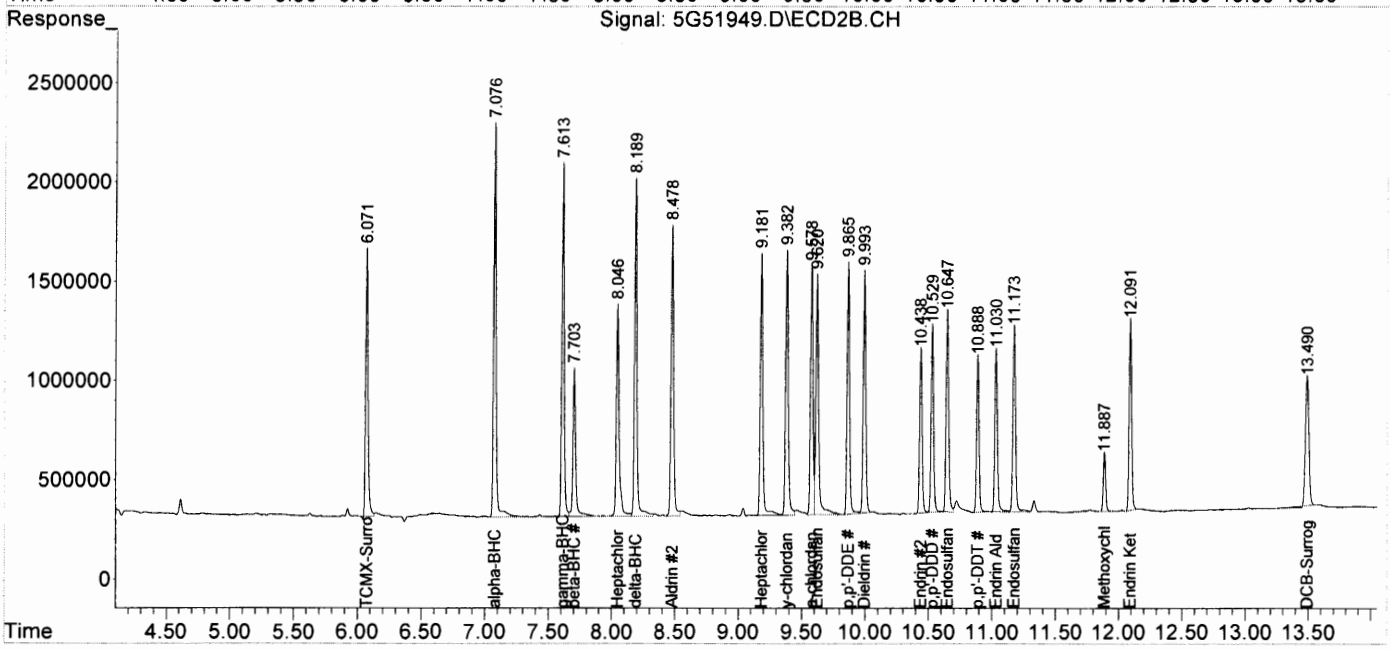
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51949.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 01:54:37
Operator : MAS/MLC
Sample : CAL PEST@10PPB
Misc : A,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:10:26 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:07:50 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1312

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51950.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 02:12:29
Operator : MAS/MLC
Sample : CAL PEST@50PPB
Misc : A,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:00:57 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.205	6.072	118.8E6	87357711	52.474	51.164
2)alpha-BHC	7.462	7.077	165.6E6	124.5E6	53.962	50.659
3)gamma-BHC	7.983	7.613	151.0E6	110.2E6	53.121	50.287
4)beta-BHC	8.866	7.704	61841991	51973555	52.724	47.642
5)Heptachlor	8.268	8.048	109.4E6	75905833	46.632	42.310
6)delta-BHC	9.187	8.189	136.1E6	110.4E6	54.562	52.000
7)Aldrin	8.627	8.479	139.0E6	97782568	54.235	50.953
8)Heptachlor Epoxid	9.433	9.183	118.6E6	82863320	53.334	50.005
9)y-chlordane	9.815	9.382	121.1E6	89145921	53.922	49.922
10)a-chlordane	9.879	9.579	115.6E6	80648118	53.886	50.323
11)Endosulfan I	9.775	9.622	108.3E6	87885072	53.746	51.068
12)p,p'-DDE	9.969	9.866	119.0E6	84147671	54.837	51.300
13)Dieldrin	10.198	9.995	115.7E6	83681406	54.081	50.412
14)Endrin	10.444	10.439	78597907	52982427	49.845	45.809
15)p,p'-DDD	10.868	10.530	91812964	64410832	52.015	47.368
16)Endosulfan II	10.978	10.648	96855216	70719540	52.952	49.782
17)p,p'-DDT	11.066	10.889	70113919	55357355	47.240	43.715
18)Endrin Aldehyde	11.440	11.032	70478948	57030152	53.272	49.104
19)Endosulfan Sulfat	11.786	11.174	85191883	65352905	53.844	51.043
20)Methoxychlor	11.720	11.887	29584117	20883747	37.566	36.585
21)Endrin Ketone	12.267	12.092	84608316	69597643	50.692	50.183
22)DCB-Surrogate	13.173	13.490	83633347	61064919	50.021	46.631
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

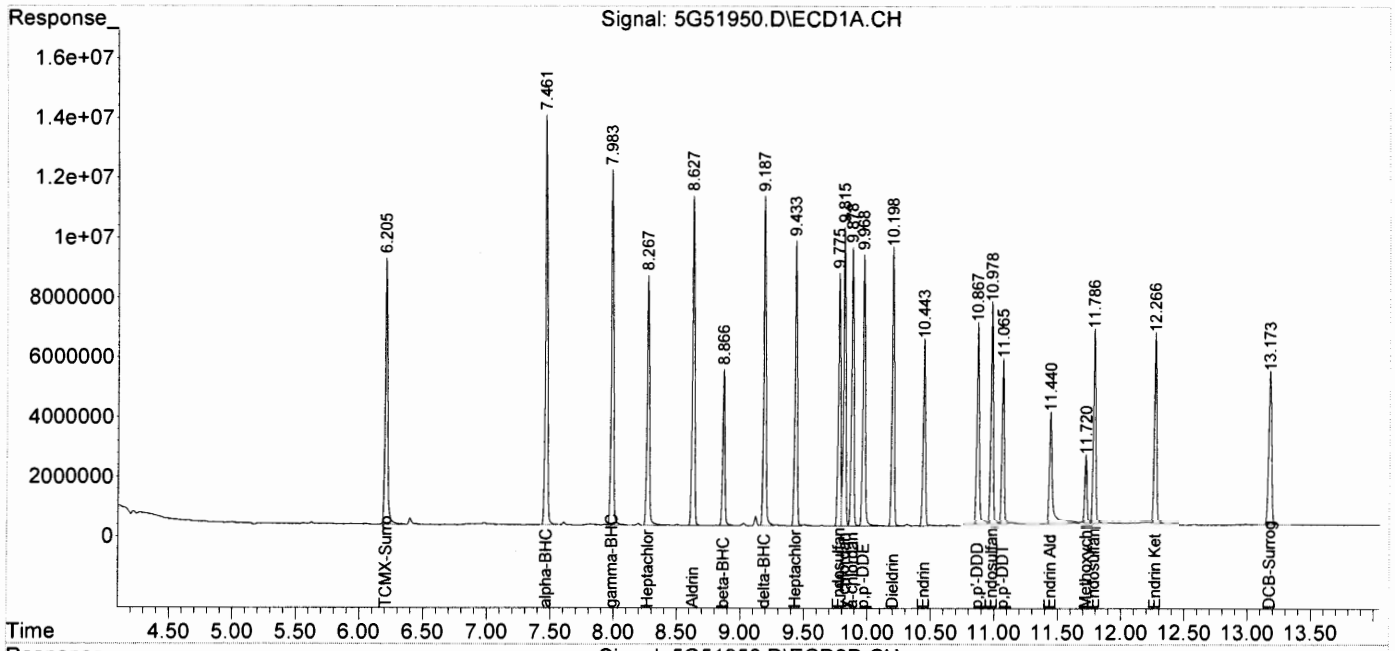
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

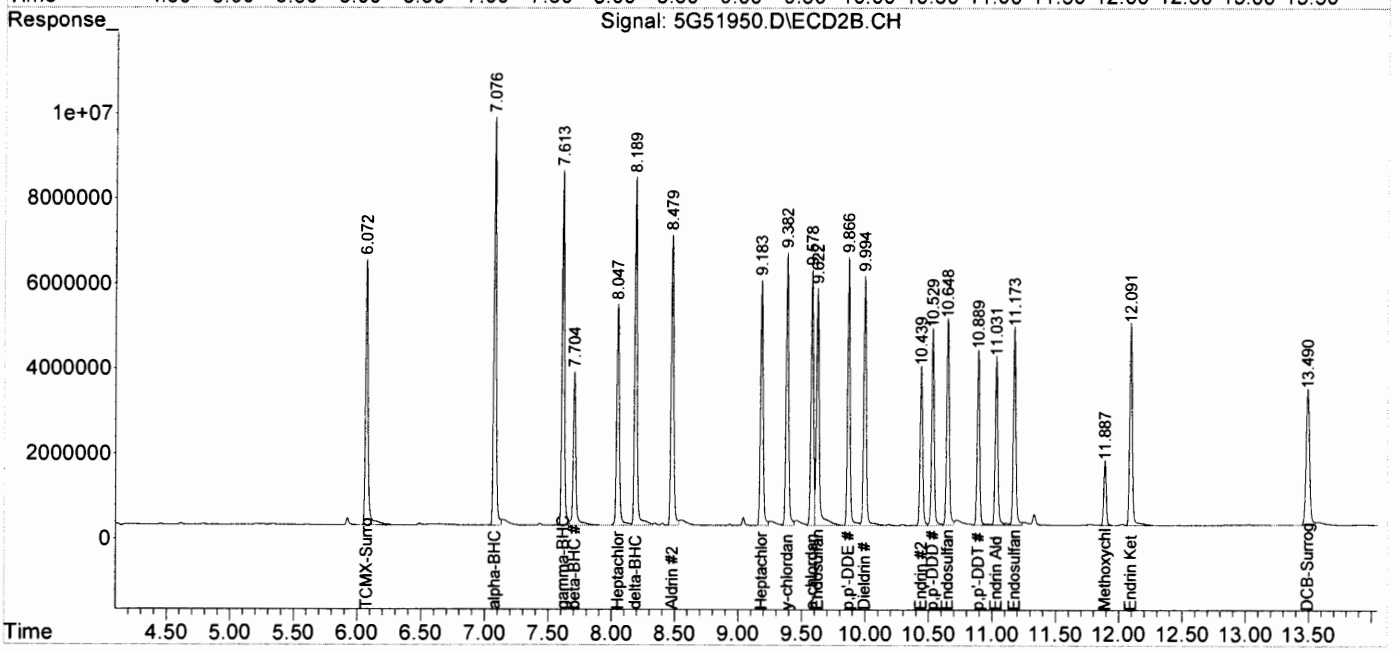
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51950.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 02:12:29
Operator : MAS/MLC
Sample : CAL PEST@50PPB
Misc : A,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:00:57 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1314

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51951.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 02:30:13
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : A,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:02:32 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.205	6.072	244.4E6	177.3E6	107.943	103.841
2)alpha-BHC	7.462	7.077	348.1E6	256.9E6	113.461	104.518
3)gamma-BHC	7.983	7.614	314.0E6	227.0E6	110.427	103.575
4)beta-BHC	8.866	7.703	127.5E6	108.2E6	108.706	99.221
5)Heptachlor	8.268	8.048	224.0E6	158.8E6	95.514	88.519
6)delta-BHC	9.187	8.189	286.6E6	227.6E6	114.886	107.196
7)Aldrin	8.626	8.479	283.8E6	199.4E6	110.734	103.880
8)Heptachlor Epoxid	9.433	9.182	240.2E6	167.5E6	108.011	101.098
9)y-chlordane	9.815	9.382	253.1E6	184.5E6	112.700	103.293
10)a-chlordane	9.879	9.579	240.5E6	167.2E6	112.102	104.308
11)Endosulfan I	9.774	9.622	220.2E6	176.7E6	109.319	102.703
12)p,p'-DDE	9.968	9.866	247.9E6	174.3E6	114.229	106.268
13)Dieldrin	10.198	9.994	238.8E6	167.9E6	111.623	101.120
14)Endrin	10.443	10.439	164.9E6	110.7E6	104.576	95.700
15)p,p'-DDD	10.866	10.529	191.3E6	134.9E6	108.378	99.241
16)Endosulfan II	10.977	10.648	199.9E6	145.6E6	109.278	102.478
17)p,p'-DDT	11.065	10.888	156.5E6	120.7E6	102.095	95.309
18)Endrin Aldehyde	11.439	11.031	149.2E6	117.0E6	112.766	100.734
19)Endosulfan Sulfat	11.785	11.173	180.0E6	135.3E6	113.779	105.666
20)Methoxychlor	11.718	11.887	67328935	45318538	84.113	79.390
21)Endrin Ketone	12.266	12.091	179.2E6	144.6E6	107.348	104.227
22)DCB-Surrogate	13.174	13.489	174.2E6	133.9E6	104.197	102.252
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

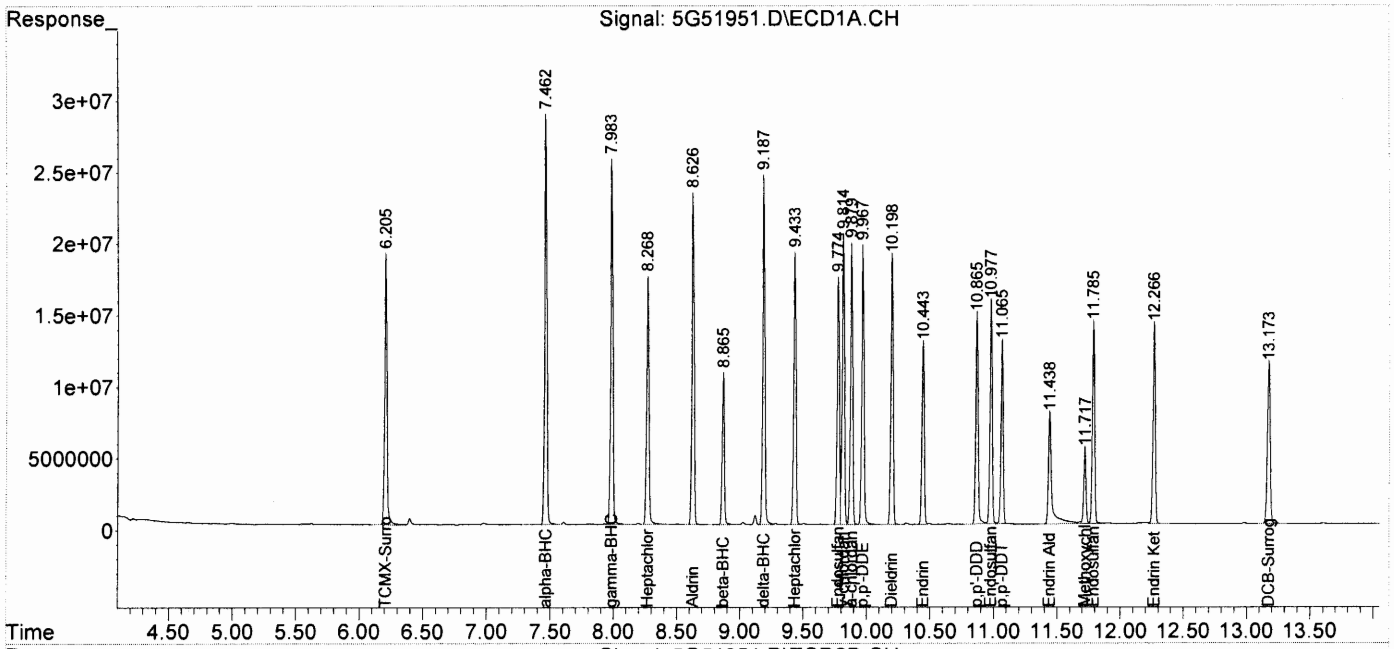
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

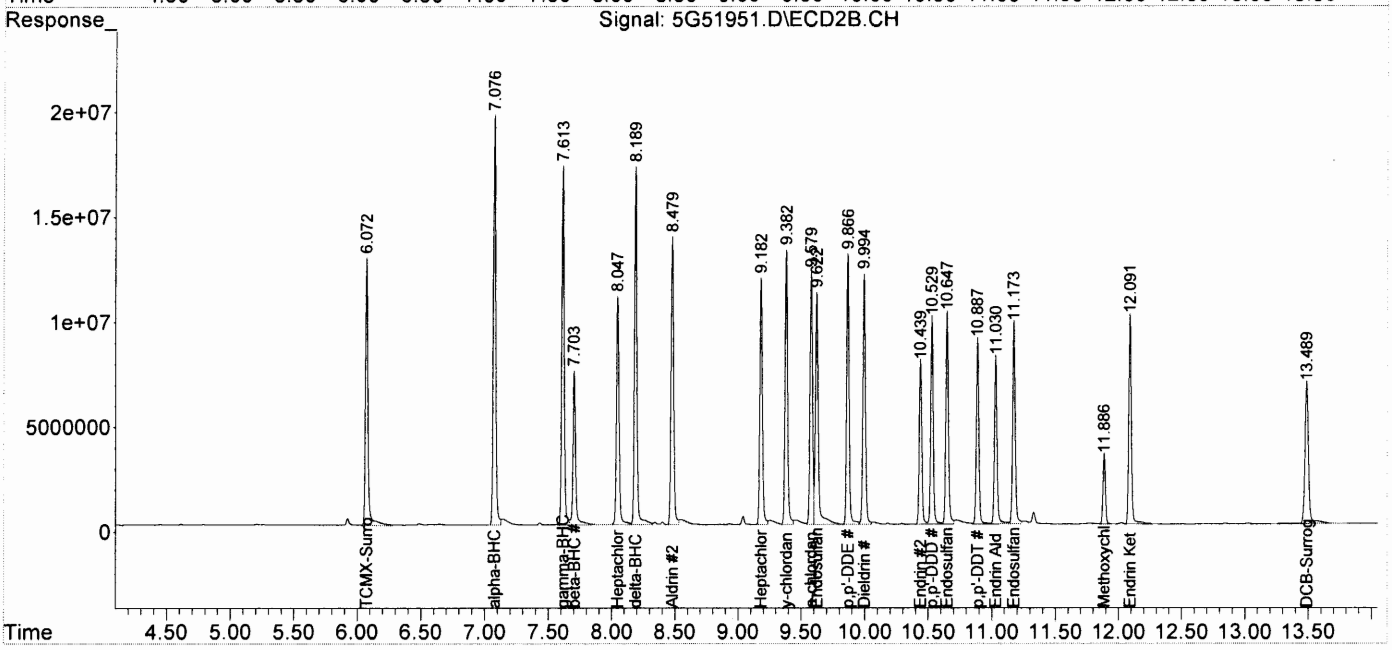
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51951.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 02:30:13
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : A,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:02:32 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51952.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 02:47:56
Operator : MAS/MLC
Sample : CAL PEST@200PPB
Misc : A,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:03:11 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.204	6.072	485.1E6	347.7E6	214.240	203.623
2)alpha-BHC	7.461	7.077	718.3E6	513.2E6	234.112	208.778
3)gamma-BHC	7.983	7.614	642.5E6	451.6E6	225.966	206.064
4)beta-BHC	8.865	7.703	255.1E6	212.2E6	217.485	194.517
5)Heptachlor	8.268	8.047	446.9E6	317.1E6	190.584	176.724
6)delta-BHC	9.186	8.189	587.2E6	454.7E6	235.381	214.209
7)Aldrin	8.627	8.479	563.5E6	388.3E6	219.879	202.325
8)Heptachlor Epoxid	9.432	9.183	471.7E6	323.6E6	212.114	195.286
9)y-chlordane	9.814	9.382	511.6E6	365.8E6	227.771	204.862
10)a-chlordane	9.878	9.578	485.9E6	330.6E6	226.437	206.259
11)Endosulfan I	9.774	9.621	434.6E6	341.9E6	215.739	198.693
12)p,p'-DDE	9.967	9.865	501.2E6	348.5E6	230.921	212.434
13)Dieldrin	10.198	9.994	476.1E6	337.2E6	222.561	203.135
14)Endrin	10.443	10.438	324.6E6	216.1E6	205.845	186.806
15)p,p'-DDD	10.865	10.529	390.5E6	273.0E6	221.252	200.789
16)Endosulfan II	10.976	10.647	405.8E6	288.2E6	221.879	202.901
17)p,p'-DDT	11.064	10.888	341.7E6	254.5E6	209.911	200.979
18)Endrin Aldehyde	11.439	11.030	308.7E6	238.4E6	233.346	205.274
19)Endosulfan Sulfat	11.785	11.173	370.4E6	272.5E6	234.109	212.848
20)Methoxychlor	11.717	11.886	140.9E6	96400380	170.921	168.877
21)Endrin Ketone	12.266	12.091	376.8E6	297.2E6	225.779	214.282
22)DCB-Surrogate	13.173	13.489	353.0E6	266.8E6	211.131	203.753
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

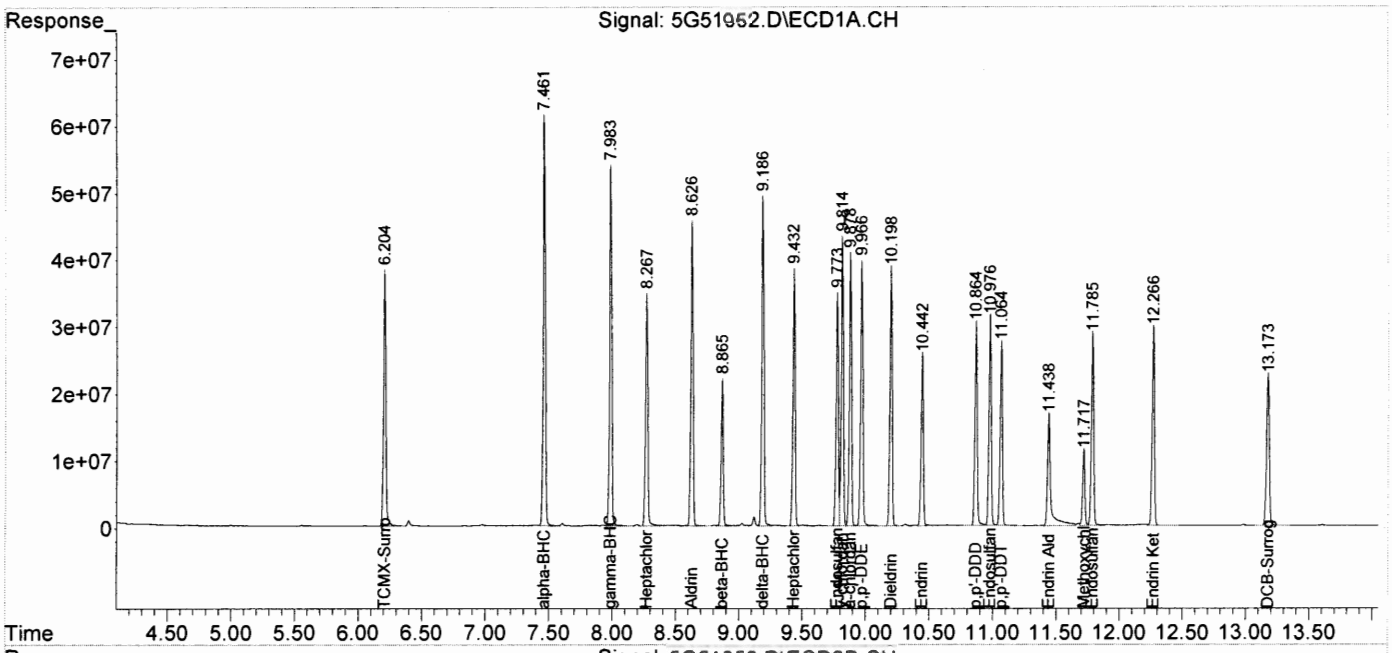
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

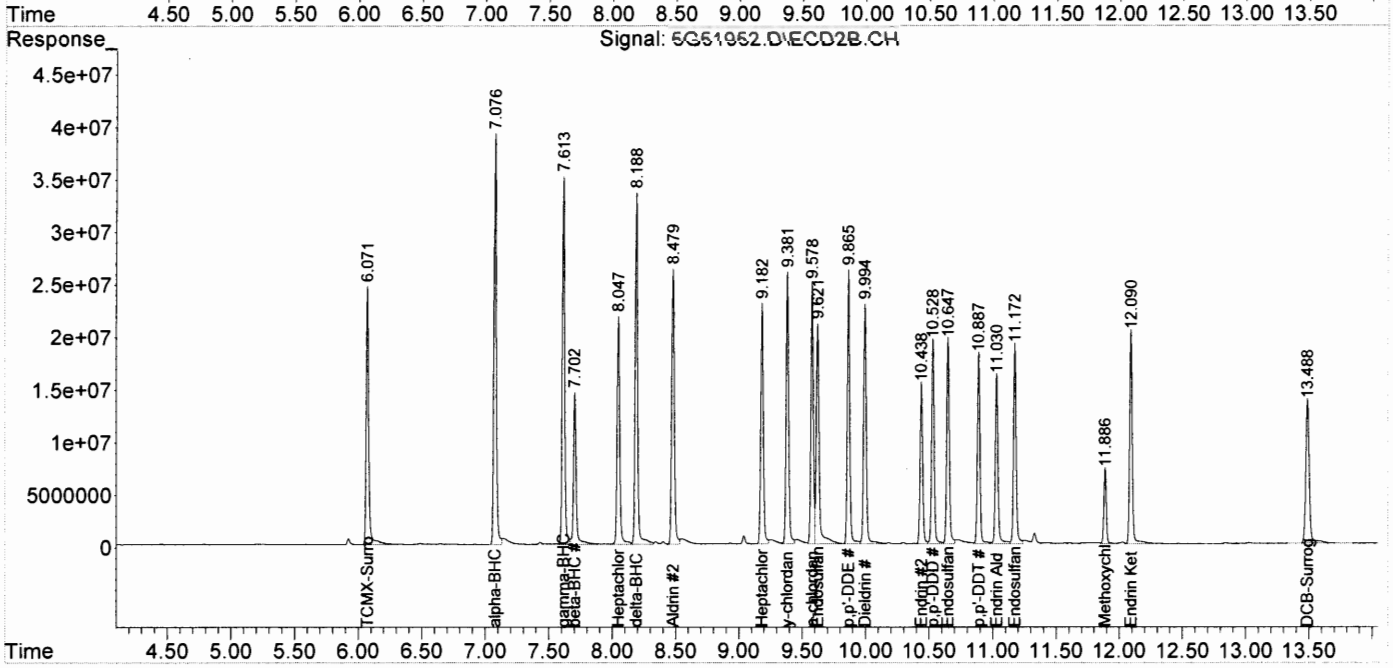
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51952.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 02:47:56
Operator : MAS/MLC
Sample : CAL PEST@200PPB
Misc : A,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:03:11 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51953.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 03:05:40
Operator : MAS/MLC
Sample : CAL PEST@400PPB
Misc : A,PEST
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:05:29 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.205	6.072	947.7E6	659.2E6	418.563	386.100
2)alpha-BHC	7.462	7.078	1485.8E6	991.6E6	484.280	403.403
3)gamma-BHC	7.984	7.615	1315.5E6	876.8E6	462.644	400.084
4)beta-BHC	8.866	7.703	503.4E6	408.8E6	429.149	374.765
5)Heptachlor	8.269	8.048	882.7E6	607.9E6	376.400	338.816
6)delta-BHC	9.187	8.189	1212.3E6	881.6E6	485.964	415.276
7)Aldrin	8.627	8.479	1100.5E6	727.8E6	429.424	379.229
8)Heptachlor Epoxid	9.433	9.182	911.4E6	610.2E6	409.812	368.251
9)y-chlordane	9.815	9.383	1021.0E6	703.4E6	454.533	393.885
10)a-chlordane	9.879	9.579	964.9E6	636.3E6	449.673	397.070
11)Endosulfan I	9.774	9.622	846.0E6	640.7E6	419.988	372.280
12)p,p'-DDE	9.968	9.866	996.5E6	669.7E6	459.132	408.263
13)Dieldrin	10.198	9.995	932.1E6	640.9E6	435.758	386.120
14)Endrin	10.443	10.439	656.2E6	420.9E6	416.156	363.903
15)p,p'-DDD	10.865	10.529	795.1E6	534.3E6	450.428	392.926
16)Endosulfan II	10.978	10.648	811.7E6	553.0E6	443.740	389.296
17)p,p'-DDT	11.065	10.888	722.9E6	508.0E6	402.150	401.192
18)Endrin Aldehyde	11.439	11.030	609.7E6	459.1E6	460.864	395.259
19)Endosulfan Sulfat	11.785	11.174	739.0E6	523.2E6	467.072	408.655
20)Methoxychlor	11.717	11.886	298.8E6	193.9E6	342.594	339.667
21)Endrin Ketone	12.265	12.092	770.9E6	583.5E6	461.851	420.721
22)DCB-Surrogate	13.173	13.489	704.8E6	520.6E6	421.526	397.551
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

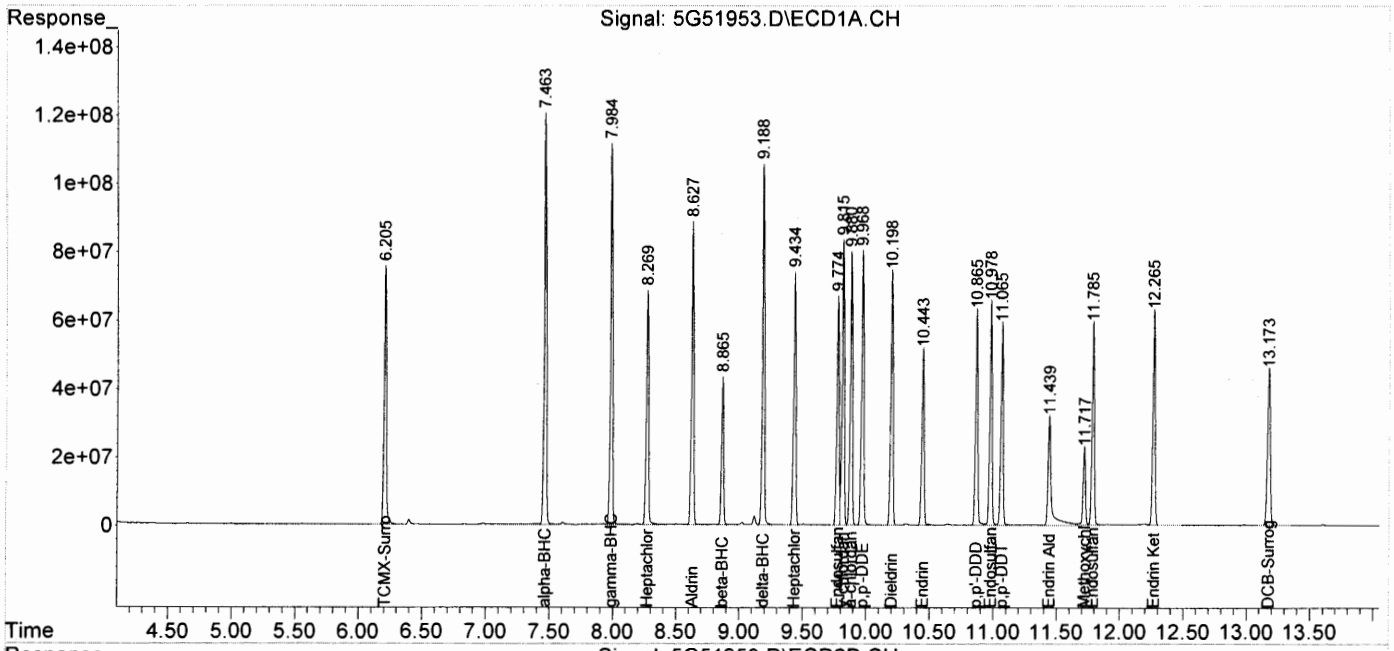
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

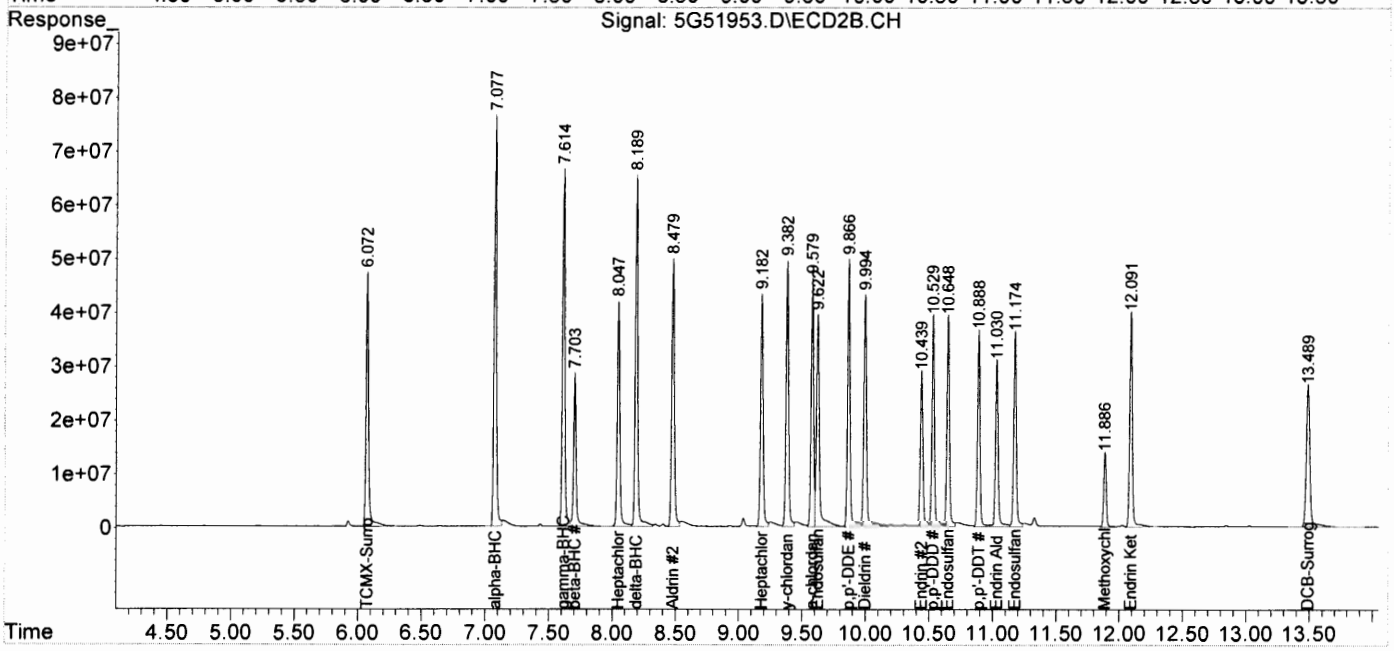
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51953.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 03:05:40
Operator : MAS/MLC
Sample : CAL PEST@400PPB
Misc : A,PEST
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:05:29 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1320

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51954.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 03:23:29
Operator : MAS/MLC
Sample : CAL CHLOR@500PPB
Misc : A,PEST
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:07:36 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.205	6.072	240.7E6	176.0E6	106.322	103.065
2)alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)Heptachlor Epoxid	0.000	0.000	0	0	N.D. d	N.D. d
9)y-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
10)a-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
12)p,p'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)p,p'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)Endosulfan II	0.000	0.000	0	0	N.D. d	N.D. d
17)p,p'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)Endrin Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
19)Endosulfan Sulfat	0.000	0.000	0	0	N.D. d	N.D. d
20)Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)Endrin Ketone	0.000	0.000	0	0	N.D. d	N.D. d
22)DCB-Surrogate	13.174	13.489	174.3E6	135.3E6	104.260	103.350
23)Chlordane {1}	8.069f	7.839	10933210	8307815	100.357m	99.505
24)Chlordane {2}	9.814	9.382	28452738	21602221	123.408	105.927
25)Chlordane {3}	9.880	9.579	38972309	17619399	121.737	105.867
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

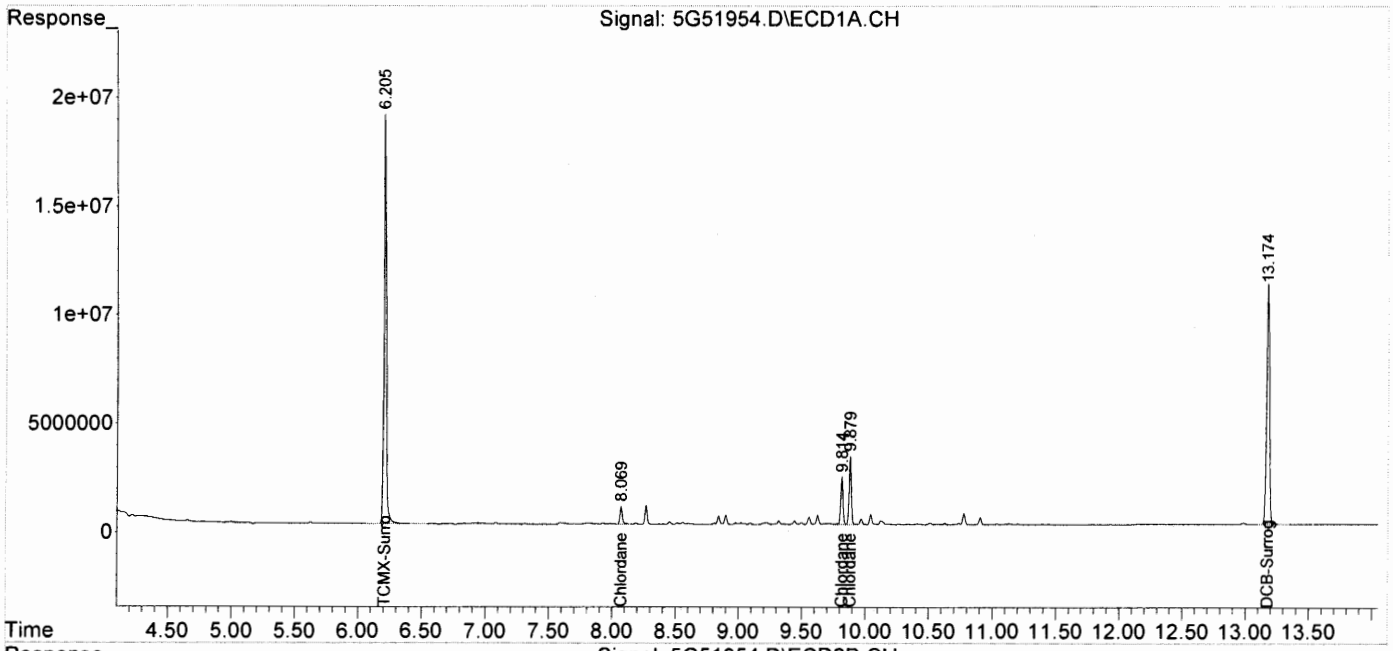
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

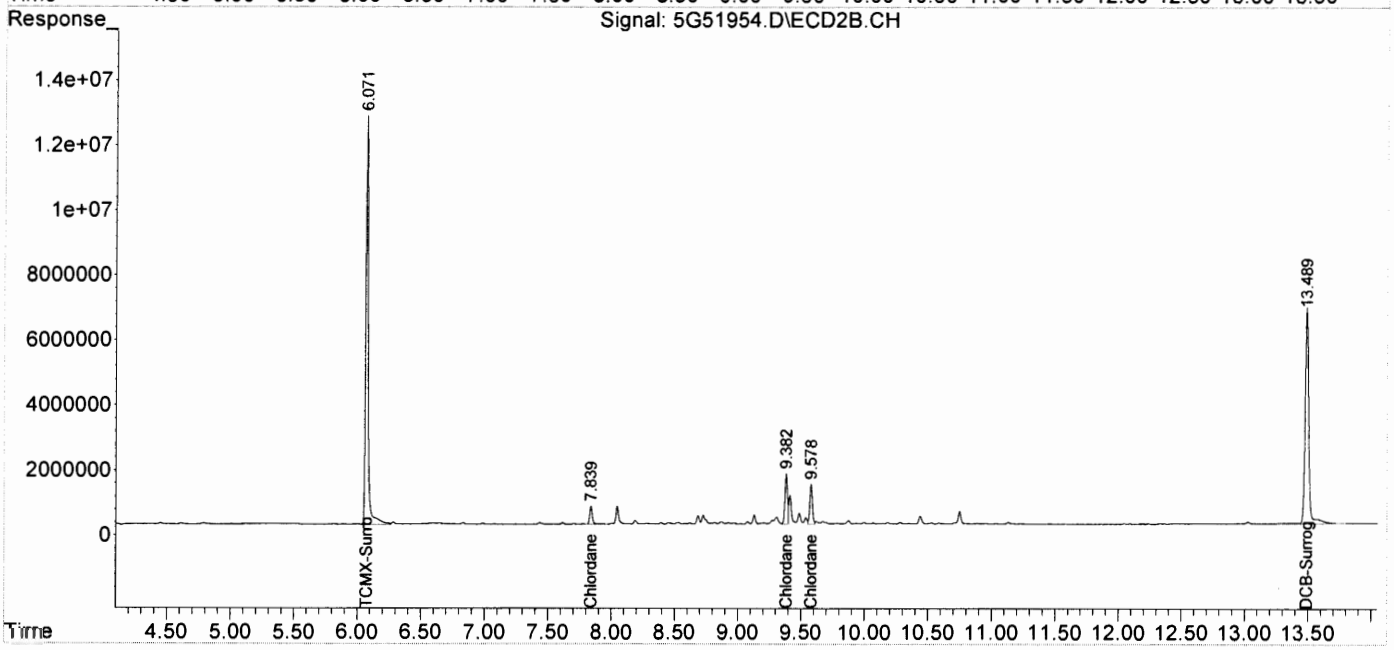
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51954.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 03:23:29
Operator : MAS/MLC
Sample : CAL CHLOR@500PPB
Misc : A,PEST
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:07:36 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1322

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51955.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 03:41:13
Operator : MAS/MLC
Sample : CAL TOX @500PPB
Misc : A,PEST
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:13:04 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:07:50 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.205	6.072	117.8E6	85888418	52.042	50.303
2)alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)Heptachlor Epoxid	0.000	0.000	0	0	N.D. d	N.D. d
9)y-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
10)a-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
12)p,p'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)p,p'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)Endosulfan II	0.000	0.000	0	0	N.D. d	N.D. d
17)p,p'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)Endrin Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
19)Endosulfan Sulfat	0.000	0.000	0	0	N.D. d	N.D. d
20)Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)Endrin Ketone	0.000	0.000	0	0	N.D. d	N.D. d
22)DCB-Surrogate	13.173	13.489	83527690	65654829	49.958	50.136
23)Chlordane {1}	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane {2}	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane {3}	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	10.227	10.225	4680490	5556956	438.362m	568.933m#
27)Toxaphene {2}	10.561	10.662	16554349	15207136	578.260m	520.071m
28)Toxaphene {3}	11.007	10.926	21395569	11563582	671.112m	467.813m#
29)Toxaphene {4}	11.311	11.632	16325055	12025593	559.366m	493.948m
30)Toxaphene {5}	11.747	11.701	18968602	11689580	492.622m	489.745m

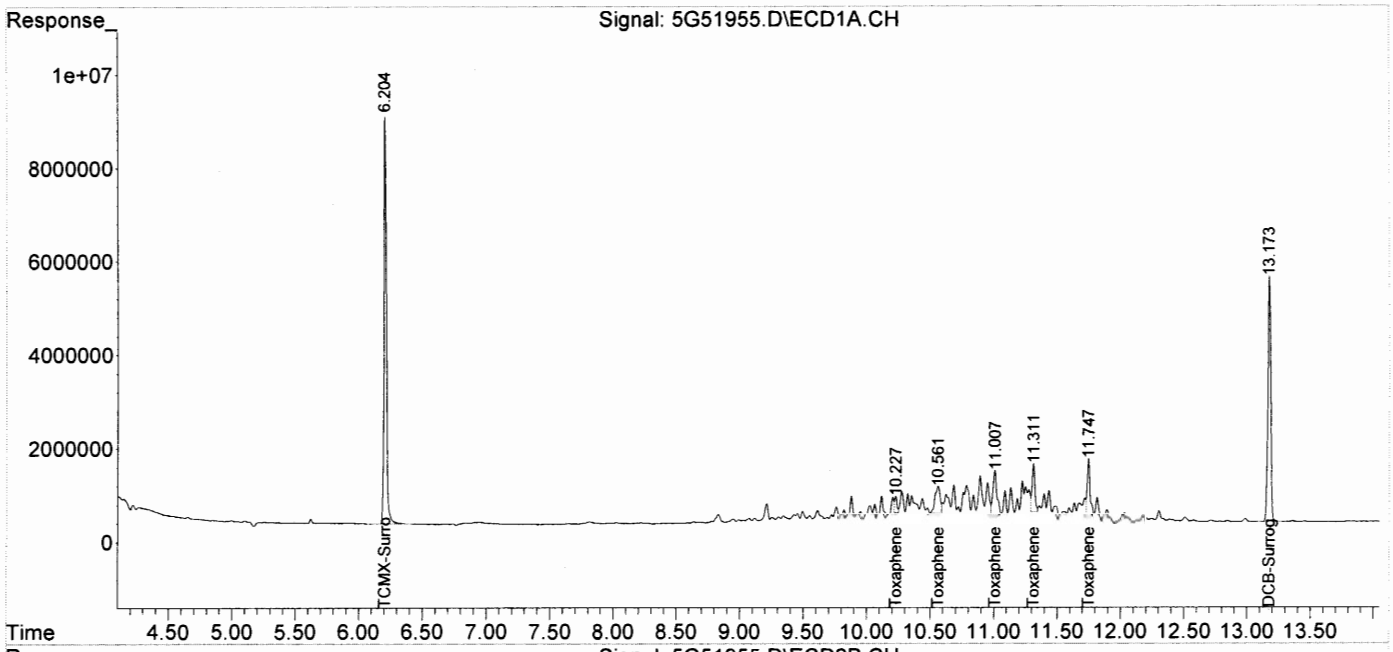
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

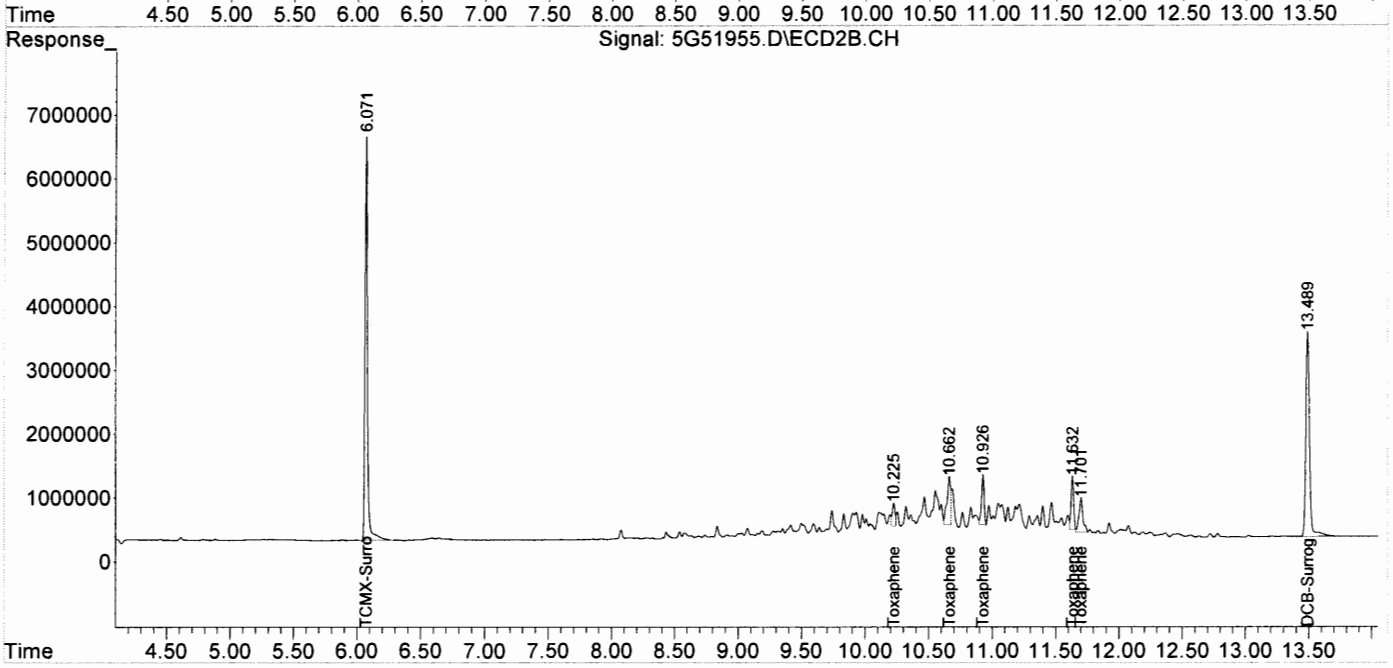
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51955.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 03:41:13
Operator : MAS/MLC
Sample : CAL TOX @500PPB
Misc : A,PEST
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 11:13:04 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:07:50 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form7
Continuing Calibration

Method: EPA 8081B

Data File:				5G51675.D			5G51686.D			5G51958.D			5G51966.D			5G52073.D		
Method:				8081			8081			8081			8081			8081		
Calibration Name:				CAL PEST@100PP			CAL PEST@100PP			CAL PEST@100PP			CAL PEST@100PP			CAL PEST@100PP		
Calibration Date/Time				05/06/14 09:59			05/06/14 15:57			05/23/14 11:34			05/23/14 14:06			05/30/14 00:26		
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	15	1	0	102.4	100	2.4	107.2	100	7.2	98.58	100	1.4	92.24	100	7.8	104.3	100	4.3
alpha-BHC	15	1	0	109.9	100	9.8	114.5	100	14.5	101.7	100	1.7	93.93	100	6.1	104.2	100	4.2
gamma-BHC	15	1	0	107.1	100	7.1	110.8	100	10.8	100.4	100	0.4	91.64	100	8.4	103.3	100	3.3
beta-BHC	15	1	0	106.9	100	6.8	108.5	100	8.5	98.51	100	1.5	87.51	100	12.5	102.6	100	2.6
Heptachlor	15	1	0	105.7	100	5.7	111.7	100	11.7	97.6	100	2.4	95.99	100	4.0	118.3	100	18.3*
delta-BHC	15	1	0	109	100	8.9	115.2	100	15.2	102.9	100	2.9	92.16	100	7.8	106.7	100	6.7
Aldrin	15	1	0	107.3	100	7.3	109.6	100	9.6	100.1	100	0.1	90.39	100	9.6	103.9	100	3.9
Heptachlor Epoxide	15	1	0	105.5	100	5.5	107.6	100	7.6	99.51	100	0.5	90.57	100	9.4	103.7	100	3.7
y-chlordane	15	1	0	111.2	100	11.2	112.4	100	12.4	101	100	1.0	89.51	100	10.5	104.4	100	4.4
a-chlordane	15	1	0	110.5	100	10.5	112.1	100	12.1	100.2	100	0.2	88.84	100	11.2	103.8	100	3.8
Endosulfan I	15	1	0	107.5	100	7.5	109.3	100	9.3	100.2	100	0.2	90.68	100	9.3	104.4	100	4.4
p,p'-DDE	15	1	0	112.2	100	12.2	113.9	100	13.9	101.8	100	1.8	90.04	100	10.0	105.7	100	5.7
Dieldrin	15	1	0	110	100	10.0	111.7	100	11.7	101.2	100	1.2	92.15	100	7.8	105.8	100	5.8
Endrin	15	1	0	106.2	100	6.2	117.7	100	17.7*	98.71	100	1.3	91.47	100	8.5	112.5	100	12.5
p,p'-DDD	15	1	0	108.6	100	8.6	109.4	100	9.4	99.1	100	0.9	92.02	100	8.0	104.7	100	4.7
Endosulfan II	15	1	0	108.4	100	8.4	109.4	100	9.4	100.9	100	0.9	92.05	100	7.9	105	100	5.0
p,p'-DDT	15	1	0	114.1	100	14.1	116.9	100	16.9*	100.9	100	0.9	92.91	100	7.1	114.9	100	14.9
Endrin Aldehyde	15	1	0	113.9	100	13.9	112.9	100	12.9	103.5	100	3.5	97.88	100	2.1	107.5	100	7.5
Endosulfan Sulfate	15	1	0	105.8	100	5.8	109.7	100	9.7	101.9	100	1.9	93.99	100	6.0	105.3	100	5.3
Methoxychlor	15	1	0	104.7	100	4.7	112.9	100	12.9	100.9	100	0.9	99.74	100	0.3	134	100	34.0*
Endrin Ketone	15	1	0	111.6	100	11.6	112.4	100	12.4	104.3	100	4.3	103.4	100	3.4	108.5	100	8.5
DCB-Surrogate	15	1	0	102.4	100	2.3	104.2	100	4.2	99.08	100	0.9	94.64	100	5.4	104.9	100	4.8
Average Difference	15	1	0			8.2			11.4			1.4			7.4			7.7
TCMX-Surrogate	15	2	0	101.1	100	1.1	102.6	100	2.6	97.03	100	3.0	98.13	100	1.9	100	100	0.0
alpha-BHC	15	2	0	101.1	100	1.1	104.6	100	4.6	101	100	1.0	99.57	100	0.4	104.5	100	4.4
gamma-BHC	15	2	0	101.1	100	1.1	105.2	100	5.2	100.7	100	0.7	98.95	100	1.1	105.3	100	5.3
beta-BHC	15	2	0	98.84	100	1.2	101.9	100	1.9	99.45	100	0.6	98.64	100	1.4	103.2	100	3.2
Heptachlor	15	2	0	102.6	100	2.6	108.9	100	8.9	103.7	100	3.7	110.4	100	10.4	126	100	26.0*
delta-BHC	15	2	0	102.0	100	2.0	110.6	100	10.6	101.6	100	1.6	101.0	100	1.0	106.6	100	6.6
Aldrin	15	2	0	100.8	100	0.8	104.0	100	4.0	100.4	100	0.4	97.73	100	2.3	104.6	100	4.6
Heptachlor Epoxide	15	2	0	98.51	100	1.5	102	100	2.0	97.55	100	2.4	95.57	100	4.4	102.9	100	2.9
y-chlordane	15	2	0	100.5	100	0.4	105.4	100	5.4	99.37	100	0.6	95.48	100	4.5	104.1	100	4.1
a-chlordane	15	2	0	101.6	100	1.6	106.9	100	6.9	100.1	100	0.1	94.96	100	5.0	104.4	100	4.4
Endosulfan I	15	2	0	101.6	100	1.6	105.5	100	5.5	100.7	100	0.7	96.7	100	3.3	105.4	100	5.4
p,p'-DDE	15	2	0	103.6	100	3.6	108.8	100	8.8	102	100	2.0	96.6	100	3.4	107.9	100	7.9
Dieldrin	15	2	0	100.7	100	0.7	105.3	100	5.3	102.5	100	2.5	99.53	100	0.5	110.3	100	10.3
Endrin	15	2	0	98.34	100	1.7	112.2	100	12.2	98.5	100	1.5	97.95	100	2.1	112.9	100	12.9
p,p'-DDD	15	2	0	102.8	100	2.8	108.7	100	8.7	102.4	100	2.4	104.3	100	4.3	113.0	100	13.0
Endosulfan II	15	2	0	100.5	100	0.5	105.2	100	5.2	101.4	100	1.4	98.82	100	1.2	105.6	100	5.6
p,p'-DDT	15	2	0	105.7	100	5.7	114.7	100	14.7	99.85	100	0.2	98.39	100	1.6	110.6	100	10.6
Endrin Aldehyde	15	2	0	104.1	100	4.1	105.7	100	5.7	102	100	2.0	102.5	100	2.5	104.0	100	4.0
Endosulfan Sulfate	15	2	0	100.7	100	0.7	107.5	100	7.5	103.1	100	3.1	100.6	100	0.6	104.1	100	4.1
Methoxychlor	15	2	0	99.65	100	0.3	107.5	100	7.5	96.45	100	3.6	103.8	100	3.8	126.7	100	26.7*
Endrin Ketone	15	2	0	105.7	100	5.7	112.0	100	12.0	107.1	100	7.1	111.4	100	11.4	111.5	100	11.5
DCB-Surrogate	15	2	0	96.37	100	3.6	104.6	100	4.6	101.9	100	1.9	101.9	100	1.9	106.6	100	6.6
Average Difference	15	2	0			2.0			6.8			1.9			3.1			8.2

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8081B

Data File:				5G52095.D			5G52116.D			6G49184.D			6G49279.D			6G49301.D		
Method:				8081			8081			8081			8081			8081		
Calibration Name:				CAL PEST@100PP			CAL PEST@100PP			CAL PEST@200PP			CAL PEST@100PP			CAL PEST@200PP		
Calibration Date/Time				05/30/14 08:20			05/30/14 16:17			05/23/14 12:30			05/28/14 23:53			05/29/14 09:08		
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	15	1	0	102.6	100	2.6	98.51	100	1.5	194.5	200	2.8	100.7	100	0.7	198.8	200	0.6
alpha-BHC	15	1	0	104.2	100	4.2	100.7	100	0.7	204.7	200	2.3	105.3	100	5.3	209.0	200	4.5
gamma-BHC	15	1	0	100.7	100	0.7	98.51	100	1.5	197.1	200	1.5	102.6	100	2.6	201.2	200	0.6
beta-BHC	15	1	0	99.33	100	0.7	95.53	100	4.5	197.4	200	1.3	100.8	100	0.8	196.4	200	1.8
Heptachlor	15	1	0	116.7	100	16.7*	115.3	100	15.3	187.8	200	6.1	102	100	2.0	201.7	200	0.8
delta-BHC	15	1	0	100.5	100	0.5	97.72	100	2.3	202.7	200	1.3	103.3	100	3.3	204.6	200	2.3
Aldrin	15	1	0	100.8	100	0.8	97.43	100	2.6	191.5	200	4.3	100.2	100	0.2	193.3	200	3.3
Heptachlor Epoxide	15	1	0	101.3	100	1.3	97.72	100	2.3	193.3	200	3.3	99.89	100	0.1	197.5	200	1.3
y-chlordane	15	1	0	99.86	100	0.1	96.77	100	3.2	206.6	200	3.3	104	100	3.9	214.4	200	7.2
a-chlordane	15	1	0	99.31	100	0.7	95.85	100	4.2	206.7	200	3.4	110.1	100	10.1	210.9	200	5.4
Endosulfan I	15	1	0	100.8	100	0.8	98.47	100	1.5	193.2	200	3.4	91.32	100	8.7	175.8	200	12.1
p,p'-DDE	15	1	0	101.4	100	1.4	97.91	100	2.1	203.2	200	1.6	102.4	100	2.4	204.9	200	2.4
Dieldrin	15	1	0	101.6	100	1.6	98.63	100	1.4	189.6	200	5.2	98.8	100	1.2	192.7	200	3.6
Endrin	15	1	0	114.5	100	14.5	114.3	100	14.3	185.2	200	7.4	98.4	100	1.6	208.1	200	4.1
p,p'-DDD	15	1	0	101.2	100	1.2	98.39	100	1.6	200.1	200	0.0	101.4	100	1.4	202.0	200	1.0
Endosulfan II	15	1	0	100.3	100	0.3	97.88	100	2.1	194.8	200	2.6	98.47	100	1.5	193.9	200	3.1
p,p'-DDT	15	1	0	108.6	100	8.6	105	100	5.0	188.6	200	5.7	93.18	100	6.8	196.1	200	2.0
Endrin Aldehyde	15	1	0	103.3	100	3.3	99.34	100	0.7	188.6	200	5.7	98.67	100	1.3	189.7	200	5.2
Endosulfan Sulfate	15	1	0	98.7	100	1.3	93.34	100	6.7	211.8	200	5.9	99.84	100	0.2	186.8	200	6.6
Methoxychlor	15	1	0	128.9	100	28.9*	127.1	100	27.1*	194	200	3.0	108.3	100	8.3	219.5	200	9.7
Endrin Ketone	15	1	0	102.9	100	2.9	103.4	100	3.4	215.8	200	7.9	93.74	100	6.3	193.5	200	3.3
DCB-Surrogate	15	1	0	98.98	100	1.0	97.13	100	2.9	188.2	200	5.9	95.61	100	4.4	181.4	200	9.3
Average Difference	15	1	0			4.3			4.9			3.8			3.3			4.1
TCMX-Surrogate	15	2	0	100.0	100	0.0	94.73	100	5.3	195.2	200	2.4	96.14	100	3.9	200.4	200	0.2
alpha-BHC	15	2	0	102.2	100	2.2	101.4	100	1.4	201.3	200	0.7	93.68	100	6.3	206.1	200	3.0
gamma-BHC	15	2	0	102.8	100	2.8	102.4	100	2.4	215.8	200	7.9	102.3	100	2.3	221.8	200	10.9
beta-BHC	15	2	0	105	100	5.0	101.6	100	1.6	193.5	200	3.3	96.8	100	3.2	199.1	200	0.4
Heptachlor	15	2	0	126.9	100	26.9*	128.3	100	28.3*	210.3	200	5.1	101.5	100	1.5	212.3	200	6.2
delta-BHC	15	2	0	103.3	100	3.3	103.0	100	3.0	201.0	200	0.5	90.18	100	9.8	203.5	200	1.8
Aldrin	15	2	0	102.2	100	2.2	100.9	100	0.9	201.9	200	0.9	95.76	100	4.2	206.4	200	3.2
Heptachlor Epoxide	15	2	0	100.7	100	0.7	99.47	100	0.5	190.6	200	4.7	94.95	100	5.1	195.7	200	2.1
y-chlordane	15	2	0	101.3	100	1.3	99.5	100	0.5	197.2	200	1.4	94.94	100	5.1	202.5	200	1.3
a-chlordane	15	2	0	102.1	100	2.1	100.5	100	0.5	193.8	200	3.1	96.59	100	3.4	199.4	200	0.3
Endosulfan I	15	2	0	103.7	100	3.7	102.9	100	2.9	202.5	200	1.3	96.62	100	3.4	207.8	200	3.9
p,p'-DDE	15	2	0	103.5	100	3.5	100.7	100	0.7	208.2	200	4.1	96.25	100	3.8	215.5	200	7.7
Dieldrin	15	2	0	105.5	100	5.5	99.48	100	0.5	201.5	200	0.8	95.69	100	4.3	204.6	200	2.3
Endrin	15	2	0	118.2	100	18.2*	120.4	100	20.4*	181.2	200	9.4	92.91	100	7.1	204.4	200	2.2
p,p'-DDD	15	2	0	113	100	13.0	112.7	100	12.7	195.2	200	2.4	91.4	100	8.6	202.2	200	1.1
Endosulfan II	15	2	0	104.1	100	4.1	103.4	100	3.4	202.4	200	1.2	99.04	100	1.0	202.7	200	1.3
p,p'-DDT	15	2	0	112.4	100	12.4	110.7	100	10.7	190.6	200	4.7	91.11	100	8.9	203.4	200	1.7
Endrin Aldehyde	15	2	0	105.2	100	5.2	104	100	4.0	192.2	200	3.9	96.76	100	3.2	195.2	200	2.4
Endosulfan Sulfate	15	2	0	101.3	100	1.3	99.1	100	0.9	201.6	200	0.8	95	100	5.0	199.5	200	0.2
Methoxychlor	15	2	0	128.2	100	28.2*	130	100	30.0*	195.9	200	2.0	98.99	100	1.0	210.5	200	5.2
Endrin Ketone	15	2	0	108.1	100	8.1	110.3	100	10.3	214.0	200	7.0	94.86	100	5.1	208.1	200	4.1
DCB-Surrogate	15	2	0	103.6	100	3.6	102.6	100	2.6	195.0	200	2.5	94.51	100	5.5	179.8	200	10.1
Average Difference	15	2	0			7.0			6.5			3.2			4.6			3.3

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8081B

Data File:				6G49322.D			6G49344.D			6G49365.D									
Method:				8081			8081			8081									
Calibration Name:				CAL PEST@200PP			CAL PEST@100PP			CAL PEST@100PP									
Calibration Date/Time				05/30/14 00:28			05/30/14 09:02			05/30/14 16:18									
					Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
TCMX-Surrogate	15	1	0	202.3	200	1.1	99.03	100	1.0	103.4	100	3.4						
alpha-BHC	15	1	0	212.4	200	6.2	101.8	100	1.8	107.7	100	7.7						
gamma-BHC	15	1	0	204.8	200	2.4	98.32	100	1.7	103.4	100	3.4						
beta-BHC	15	1	0	201.7	200	0.9	93.36	100	6.6	96.98	100	3.0						
Heptachlor	15	1	0	206.7	200	3.4	98.48	100	1.5	103.5	100	3.5						
delta-BHC	15	1	0	209	200	4.5	94.18	100	5.8	100.5	100	0.5						
Aldrin	15	1	0	197.9	200	1.0	94.94	100	5.1	99.52	100	0.5						
Heptachlor Epoxide	15	1	0	202.2	200	1.1	93.13	100	6.9	96.76	100	3.2						
y-chlordane	15	1	0	218.6	200	9.3	101	100	1.0	105.8	100	5.8						
a-chlordane	15	1	0	215.1	200	7.6	100.6	100	0.6	104.6	100	4.6						
Endosulfan I	15	1	0	185.2	200	7.4	88.14	100	11.9	90	100	10.0						
p,p'-DDE	15	1	0	210.6	200	5.3	94.46	100	5.5	97.44	100	2.6						
Dieldrin	15	1	0	198.2	200	0.9	90.93	100	9.1	94.46	100	5.5						
Endrin	15	1	0	209.2	200	4.6	97.74	100	2.3	104.5	100	4.5						
p,p'-DDD	15	1	0	200.7	200	0.3	91.32	100	8.7	92.47	100	7.5						
Endosulfan II	15	1	0	204.2	200	2.1	86.26	100	13.7	89.19	100	10.8						
p,p'-DDT	15	1	0	207.6	200	3.8	87.95	100	12.1	88.01	100	12.0						
Endrin Aldehyde	15	1	0	191.9	200	4.1	85.43	100	14.6	87.5	100	12.5						
Endosulfan Sulfate	15	1	0	204.9	200	2.4	87.06	100	12.9	88.43	100	11.6						
Methoxychlor	15	1	0	192.6	200	3.7	104.3	100	4.3	98.6	100	1.4						
Endrin Ketone	15	1	0	194.9	200	2.6	82.24	100	17.8*	89.79	100	10.2						
DCB-Surrogate	15	1	0	201.8	200	0.9	86.2	100	13.8	78.06	100	21.9*						
Average Difference	15	1	0			3.4			7.2			6.6						
TCMX-Surrogate	15	2	0	199.5	200	0.3	97.52	100	2.5	108.6	100	8.6						
alpha-BHC	15	2	0	203.6	200	1.8	94.73	100	5.3	105.3	100	5.3						
gamma-BHC	15	2	0	218.2	200	9.1	102.5	100	2.5	114.6	100	14.6						
beta-BHC	15	2	0	199	200	0.5	96.12	100	3.9	104.6	100	4.6						
Heptachlor	15	2	0	213.6	200	6.8	112.0	100	12.0	126.3	100	26.3*						
delta-BHC	15	2	0	198.3	200	0.9	88.87	100	11.1	101.4	100	1.4						
Aldrin	15	2	0	206.5	200	3.2	94.44	100	5.6	104.0	100	4.0						
Heptachlor Epoxide	15	2	0	195.5	200	2.3	92.18	100	7.8	101.7	100	1.7						
y-chlordane	15	2	0	202.1	200	1.1	89.88	100	10.1	98.84	100	1.2						
a-chlordane	15	2	0	197.7	200	1.2	90.36	100	9.6	99.5	100	0.5						
Endosulfan I	15	2	0	208.2	200	4.1	93.59	100	6.4	101.4	100	1.4						
p,p'-DDE	15	2	0	211.6	200	5.8	92.04	100	8.0	99.16	100	0.8						
Dieldrin	15	2	0	207.7	200	3.8	90.62	100	9.4	98.46	100	1.5						
Endrin	15	2	0	197.5	200	1.3	95.28	100	4.7	106.6	100	6.6						
p,p'-DDD	15	2	0	192.7	200	3.7	86.15	100	13.9	90.76	100	9.2						
Endosulfan II	15	2	0	206.1	200	3.1	87.91	100	12.1	96.14	100	3.9						
p,p'-DDT	15	2	0	199.3	200	0.4	88.33	100	11.7	96.18	100	3.8						
Endrin Aldehyde	15	2	0	194.2	200	2.9	86.82	100	13.2	94.22	100	5.8						
Endosulfan Sulfate	15	2	0	202.1	200	1.0	85.68	100	14.3	92.79	100	7.2						
Methoxychlor	15	2	0	203.2	200	1.6	102.2	100	2.2	106.8	100	6.8						
Endrin Ketone	15	2	0	197.8	200	1.1	90.01	100	10.0	97.66	100	2.3						
DCB-Surrogate	15	2	0	196.0	200	2.0	82.83	100	17.2*	80.13	100	19.9*						
Average Difference	15	2	0			2.6			8.8			6.2						

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8081B

Compound	Col	Mr	5G51413.D CAL PEST@2PPB 4/22/2014 11:50:46 AM Cal RT	Limit	5G51948.D CAL PEST@2PPB 5/23/2014 1:36:54 AM Cal RT	Limit	6G49165.D CAL PEST@2PPB 5/23/2014 1:36:00 AM Cal RT	Limit	5G51675.D CAL PEST@100PPB 5/6/2014 9:59:58 AM Cal RT	Limit	5G51958.D CAL PEST@100PPB 5/23/2014 11:34:47 AM Cal RT	Limit
TCMX-Surrogate	1	0	6.21	(6.15 - 6.27)	6.21	(6.15 - 6.27)	5.08	(5.02 - 5.14)	6.21	(6.15 - 6.27)	6.21	(6.15 - 6.27)
alpha-BHC	1	0	7.47	(7.43 - 7.51)	7.46	(7.42 - 7.50)	6.23	(6.19 - 6.27)	7.47	(7.43 - 7.51)	7.47	(7.43 - 7.51)
gamma-BHC	1	0	7.99	(7.95 - 8.03)	7.98	(7.94 - 8.02)	6.75	(6.71 - 6.79)	7.99	(7.95 - 8.03)	7.99	(7.95 - 8.03)
beta-BHC	1	0	8.88	(8.80 - 8.96)	8.87	(8.79 - 8.95)	7.62	(7.54 - 7.70)	8.88	(8.80 - 8.96)	8.87	(8.79 - 8.95)
Heptachlor	1	0	8.28	(8.24 - 8.32)	8.27	(8.23 - 8.31)	7.07	(7.03 - 7.11)	8.28	(8.24 - 8.32)	8.27	(8.23 - 8.31)
delta-BHC	1	0	9.20	(9.12 - 9.28)	9.19	(9.11 - 9.27)	7.97	(7.89 - 8.05)	9.20	(9.12 - 9.28)	9.19	(9.11 - 9.27)
Aldrin	1	0	8.63	(8.55 - 8.71)	8.63	(8.55 - 8.71)	7.44	(7.36 - 7.52)	8.63	(8.55 - 8.71)	8.63	(8.55 - 8.71)
Heptachlor Epoxide	1	0	9.44	(9.40 - 9.48)	9.43	(9.39 - 9.47)	8.26	(8.22 - 8.30)	9.44	(9.40 - 9.48)	9.44	(9.40 - 9.48)
v-chlordane	1	0	9.83	(9.79 - 9.87)	9.81	(9.77 - 9.85)	8.66	(8.62 - 8.70)	9.82	(9.78 - 9.86)	9.82	(9.78 - 9.86)
a-chlordane	1	0	9.89	(9.85 - 9.93)	9.88	(9.84 - 9.92)	8.73	(8.69 - 8.77)	9.89	(9.85 - 9.93)	9.88	(9.84 - 9.92)
Endosulfan I	1	0	9.78	(9.74 - 9.82)	9.77	(9.73 - 9.81)	8.63	(8.59 - 8.67)	9.78	(9.74 - 9.82)	9.78	(9.74 - 9.82)
p,p'-DDE	1	0	9.98	(9.90 - 10.06)	9.97	(9.89 - 10.05)	8.82	(8.74 - 8.90)	9.98	(9.90 - 10.06)	9.97	(9.89 - 10.05)
Dieldrin	1	0	10.21	(10.13 - 10.29)	10.20	(10.12 - 10.28)	9.07	(8.99 - 9.15)	10.21	(10.13 - 10.29)	10.20	(10.12 - 10.28)
Endrin	1	0	10.45	(10.41 - 10.49)	10.44	(10.40 - 10.48)	9.33	(9.29 - 9.37)	10.45	(10.41 - 10.49)	10.45	(10.41 - 10.49)
p,p'-DDD	1	0	10.88	(10.80 - 10.96)	10.87	(10.79 - 10.95)	9.76	(9.68 - 9.84)	10.88	(10.80 - 10.96)	10.87	(10.79 - 10.95)
Endosulfan II	1	0	10.99	(10.91 - 11.07)	10.98	(10.90 - 11.06)	9.89	(9.81 - 9.97)	10.99	(10.91 - 11.07)	10.98	(10.90 - 11.06)
p,p'-DDT	1	0	11.08	(11.00 - 11.16)	11.07	(10.99 - 11.15)	9.98	(9.90 - 10.06)	11.08	(11.00 - 11.16)	11.07	(10.99 - 11.15)
Endrin Aldehyde	1	0	11.45	(11.37 - 11.53)	11.44	(11.36 - 11.52)	10.37	(10.29 - 10.45)	11.45	(11.37 - 11.53)	11.44	(11.36 - 11.52)
Endosulfan Sulfate	1	0	11.80	(11.76 - 11.84)	11.79	(11.75 - 11.83)	10.73	(10.69 - 10.77)	11.80	(11.76 - 11.84)	11.79	(11.75 - 11.83)
Methoxychlor	1	0	11.73	(11.69 - 11.77)	11.72	(11.68 - 11.76)	10.67	(10.63 - 10.71)	11.73	(11.69 - 11.77)	11.72	(11.68 - 11.76)
Endrin Ketone	1	0	12.28	(12.20 - 12.36)	12.27	(12.19 - 12.35)	11.27	(11.19 - 11.35)	12.28	(12.20 - 12.36)	12.27	(12.19 - 12.35)
DCB-Surrogate	1	0	13.19	(13.13 - 13.25)	13.17	(13.11 - 13.23)	12.36	(12.30 - 12.42)	13.18	(13.12 - 13.24)	13.18	(13.12 - 13.24)
Chlordane	1	1	8.28	(8.24 - 8.32)	8.07	(8.03 - 8.11)	6.86	(6.82 - 6.90)			7.99	(7.95 - 8.03)
Chlordane	1	2	9.82	(9.78 - 9.86)	9.81	(9.77 - 9.85)	8.66	(8.62 - 8.70)			9.82	(9.78 - 9.86)
Chlordane	1	3	9.89	(9.85 - 9.93)	9.88	(9.84 - 9.92)	8.73	(8.69 - 8.77)			9.88	(9.84 - 9.92)
Toxaphene	1	1	10.24	(10.20 - 10.28)	10.23	(10.19 - 10.27)	9.46	(9.42 - 9.50)			10.20	(10.16 - 10.24)
Toxaphene	1	2	10.57	(10.53 - 10.61)	10.56	(10.52 - 10.60)	9.69	(9.65 - 9.73)				
Toxaphene	1	3	11.02	(10.98 - 11.06)	11.01	(10.97 - 11.05)	9.92	(9.88 - 9.96)			10.98	(10.94 - 11.02)
Toxaphene	1	4	11.32	(11.28 - 11.36)	11.31	(11.27 - 11.35)	10.24	(10.20 - 10.28)				
Toxaphene	1	5	11.76	(11.72 - 11.80)	11.75	(11.71 - 11.79)	10.72	(10.68 - 10.76)			11.72	(11.68 - 11.76)
TCMX-Surrogate	2	0	6.07	(6.01 - 6.13)	6.07	(6.01 - 6.13)	4.92	(4.86 - 4.98)	6.07	(6.01 - 6.13)	6.07	(6.01 - 6.13)
alpha-BHC	2	0	7.08	(7.04 - 7.12)	7.08	(7.04 - 7.12)	5.84	(5.80 - 5.88)	7.08	(7.04 - 7.12)	7.07	(7.03 - 7.11)
gamma-BHC	2	0	7.62	(7.58 - 7.66)	7.61	(7.57 - 7.65)	6.37	(6.33 - 6.41)	7.61	(7.57 - 7.65)	7.61	(7.57 - 7.65)
beta-BHC	2	0	7.71	(7.63 - 7.79)	7.70	(7.62 - 7.78)	6.45	(6.37 - 6.53)	7.70	(7.62 - 7.78)	7.70	(7.62 - 7.78)
Heptachlor	2	0	8.05	(8.01 - 8.09)	8.05	(8.01 - 8.09)	6.82	(6.78 - 6.86)	8.05	(8.01 - 8.09)	8.05	(8.01 - 8.09)
delta-BHC	2	0	8.19	(8.11 - 8.27)	8.19	(8.11 - 8.27)	6.95	(6.87 - 7.03)	8.19	(8.11 - 8.27)	8.19	(8.11 - 8.27)
Aldrin	2	0	8.48	(8.40 - 8.56)	8.48	(8.40 - 8.56)	7.26	(7.18 - 7.34)	8.48	(8.40 - 8.56)	8.48	(8.40 - 8.56)
Heptachlor Epoxide	2	0	9.19	(9.15 - 9.23)	9.18	(9.14 - 9.22)	7.98	(7.94 - 8.02)	9.18	(9.14 - 9.22)	9.18	(9.14 - 9.22)
v-chlordane	2	0	9.39	(9.35 - 9.43)	9.38	(9.34 - 9.42)	8.19	(8.15 - 8.23)	9.38	(9.34 - 9.42)	9.38	(9.34 - 9.42)
a-chlordane	2	0	9.58	(9.54 - 9.62)	9.58	(9.54 - 9.62)	8.39	(8.35 - 8.43)	9.58	(9.54 - 9.62)	9.58	(9.54 - 9.62)
Endosulfan I	2	0	9.63	(9.59 - 9.67)	9.62	(9.58 - 9.66)	8.44	(8.40 - 8.48)	9.62	(9.58 - 9.66)	9.62	(9.58 - 9.66)
p,p'-DDE	2	0	9.87	(9.79 - 9.95)	9.87	(9.79 - 9.95)	8.68	(8.60 - 8.76)	9.87	(9.79 - 9.95)	9.87	(9.79 - 9.95)
Dieldrin	2	0	10.00	(9.92 - 10.08)	9.99	(9.91 - 10.07)	8.83	(8.75 - 8.91)	10.00	(9.92 - 10.08)	9.99	(9.91 - 10.07)
Endrin	2	0	10.44	(10.40 - 10.48)	10.44	(10.40 - 10.48)	9.30	(9.26 - 9.34)	10.44	(10.40 - 10.48)	10.44	(10.40 - 10.48)
p,p'-DDD	2	0	10.53	(10.45 - 10.61)	10.53	(10.45 - 10.61)	9.38	(9.30 - 9.46)	10.53	(10.45 - 10.61)	10.53	(10.45 - 10.61)
Endosulfan II	2	0	10.65	(10.57 - 10.73)	10.65	(10.57 - 10.73)	9.52	(9.44 - 9.60)	10.65	(10.57 - 10.73)	10.65	(10.57 - 10.73)
p,p'-DDT	2	0	10.89	(10.81 - 10.97)	10.89	(10.81 - 10.97)	9.77	(9.69 - 9.85)	10.89	(10.81 - 10.97)	10.89	(10.81 - 10.97)
Endrin Aldehyde	2	0	11.04	(10.96 - 11.12)	11.03	(10.95 - 11.11)	9.92	(9.84 - 10.00)	11.03	(10.95 - 11.11)	11.03	(10.95 - 11.11)
Endosulfan Sulfate	2	0	11.18	(11.14 - 11.22)	11.17	(11.13 - 11.21)	10.08	(10.04 - 10.12)	11.18	(11.14 - 11.22)	11.17	(11.13 - 11.21)
Methoxychlor	2	0	11.89	(11.85 - 11.93)	11.89	(11.85 - 11.93)	10.82	(10.78 - 10.86)	11.89	(11.85 - 11.93)	11.89	(11.85 - 11.93)
Endrin Ketone	2	0	12.10	(12.02 - 12.18)	12.09	(12.01 - 12.17)	11.06	(10.98 - 11.14)	12.10	(12.02 - 12.18)	12.09	(12.01 - 12.17)
DCB-Surrogate	2	0	13.50	(13.44 - 13.56)	13.49	(13.43 - 13.55)	12.68	(12.62 - 12.74)	13.50	(13.44 - 13.56)	13.49	(13.43 - 13.55)
Chlordane	2	1	7.84	(7.80 - 7.88)	7.84	(7.80 - 7.88)	6.82	(6.78 - 6.86)			7.70	(7.66 - 7.74)
Chlordane	2	2	9.39	(9.35 - 9.43)	9.38	(9.34 - 9.42)	8.19	(8.15 - 8.23)			9.38	(9.34 - 9.42)
Chlordane	2	3	9.58	(9.54 - 9.62)	9.58	(9.54 - 9.62)	8.39	(8.35 - 8.43)			9.58	(9.54 - 9.62)
Toxaphene	2	1	10.23	(10.19 - 10.27)	10.22	(10.18 - 10.26)	8.96	(8.92 - 9.00)			10.18	(10.14 - 10.22)
Toxaphene	2	2	10.67	(10.63 - 10.71)	10.66	(10.62 - 10.70)	9.18	(9.14 - 9.22)			10.65	(10.61 - 10.69)
Toxaphene	2	3	10.93	(10.89 - 10.97)	10.93	(10.89 - 10.97)	9.81	(9.77 - 9.85)			10.89	(10.85 - 10.93)
Toxaphene	2	4	11.64	(11.60 - 11.68)	11.63	(11.59 - 11.67)	10.56	(10.52 - 10.60)				
Toxaphene	2	5	11.71	(11.67 - 11.75)	11.70	(11.66 - 11.74)	10.64	(10.60 - 10.68)			11.72	(11.68 - 11.76)

Form7

RtWindow Summary

Method: EPA 8081B

			Data File: 5G52073.D Calibration Name: CAL PEST@100PPB Calibration Date/Time 5/30/2014 12:26:45 AM		Data File: 5G52095.D Calibration Name: CAL PEST@100PPB Calibration Date/Time 5/30/2014 8:20:48 AM		Data File: 6G49165.D Calibration Name: CAL PEST@2PPB Calibration Date/Time 5/23/2014 1:36:00 AM		Data File: 6G49279.D Calibration Name: CAL PEST@100PPB Calibration Date/Time 5/28/2014 11:53:00 PM		Data File: 6G49322.D Calibration Name: CAL PEST@200PPB Calibration Date/Time 5/30/2014 12:28:00 AM	
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	6.20	(6.14 - 6.26)	6.20	(6.14 - 6.26)	5.08	(5.02 - 5.14)	5.07	(5.01 - 5.13)	5.08	(5.02 - 5.14)
alpha-BHC	1	0	7.46	(7.42 - 7.50)	7.46	(7.42 - 7.50)	6.23	(6.19 - 6.27)	6.23	(6.19 - 6.27)	6.23	(6.19 - 6.27)
gamma-BHC	1	0	7.98	(7.94 - 8.02)	7.98	(7.94 - 8.02)	6.76	(6.72 - 6.80)	6.75	(6.71 - 6.79)	6.75	(6.71 - 6.79)
beta-BHC	1	0	8.86	(8.78 - 8.94)	8.86	(8.78 - 8.94)	7.63	(7.55 - 7.71)	7.62	(7.54 - 7.70)	7.61	(7.53 - 7.69)
Heptachlor	1	0	8.27	(8.23 - 8.31)	8.26	(8.22 - 8.30)	7.07	(7.03 - 7.11)	7.06	(7.02 - 7.10)	7.06	(7.02 - 7.10)
delta-BHC	1	0	9.18	(9.10 - 9.26)	9.18	(9.10 - 9.26)	7.98	(7.90 - 8.06)	7.96	(7.88 - 8.04)	7.96	(7.88 - 8.04)
Aldrin	1	0	8.62	(8.54 - 8.70)	8.62	(8.54 - 8.70)	7.44	(7.36 - 7.52)	7.44	(7.36 - 7.52)	7.44	(7.36 - 7.52)
Heptachlor Epoxide	1	0	9.43	(9.39 - 9.47)	9.43	(9.39 - 9.47)	8.26	(8.22 - 8.30)	8.26	(8.22 - 8.30)	8.26	(8.22 - 8.30)
v-chlordane	1	0	9.81	(9.77 - 9.85)	9.81	(9.77 - 9.85)	8.66	(8.62 - 8.70)	8.65	(8.61 - 8.69)	8.65	(8.61 - 8.69)
a-chlordane	1	0	9.88	(9.84 - 9.92)	9.87	(9.83 - 9.91)	8.73	(8.69 - 8.77)	8.72	(8.68 - 8.76)	8.72	(8.68 - 8.76)
Endosulfan I	1	0	9.77	(9.73 - 9.81)	9.77	(9.73 - 9.81)	8.63	(8.59 - 8.67)	8.62	(8.58 - 8.66)	8.63	(8.59 - 8.67)
p,p'-DDE	1	0	9.97	(9.89 - 10.05)	9.96	(9.88 - 10.04)	8.83	(8.75 - 8.91)	8.81	(8.73 - 8.89)	8.81	(8.73 - 8.89)
Dieldrin	1	0	10.20	(10.12 - 10.28)	10.19	(10.11 - 10.27)	9.07	(8.99 - 9.15)	9.07	(8.99 - 9.15)	9.07	(8.99 - 9.15)
Endrin	1	0	10.44	(10.40 - 10.48)	10.44	(10.40 - 10.48)	9.34	(9.30 - 9.38)	9.33	(9.29 - 9.37)	9.33	(9.29 - 9.37)
p,p'-DDD	1	0	10.86	(10.78 - 10.94)	10.86	(10.78 - 10.94)	9.77	(9.69 - 9.85)	9.76	(9.68 - 9.84)	9.76	(9.68 - 9.84)
Endosulfan II	1	0	10.97	(10.89 - 11.05)	10.97	(10.89 - 11.05)	9.89	(9.81 - 9.97)	9.88	(9.80 - 9.96)	9.88	(9.80 - 9.96)
p,p'-DDT	1	0	11.06	(10.98 - 11.14)	11.06	(10.98 - 11.14)	9.98	(9.90 - 10.06)	9.97	(9.89 - 10.05)	9.97	(9.89 - 10.05)
Endrin Aldehyde	1	0	11.44	(11.36 - 11.52)	11.43	(11.35 - 11.51)	10.37	(10.29 - 10.45)	10.36	(10.28 - 10.44)	10.36	(10.28 - 10.44)
Endosulfan Sulfate	1	0	11.78	(11.74 - 11.82)	11.78	(11.74 - 11.82)	10.74	(10.70 - 10.78)	10.73	(10.69 - 10.77)	10.72	(10.68 - 10.76)
Methoxychlor	1	0	11.72	(11.68 - 11.76)	11.71	(11.67 - 11.75)	10.68	(10.64 - 10.72)	10.66	(10.62 - 10.70)	10.66	(10.62 - 10.70)
Endrin Ketone	1	0	12.26	(12.18 - 12.34)	12.26	(12.18 - 12.34)	11.27	(11.19 - 11.35)	11.26	(11.18 - 11.34)	11.26	(11.18 - 11.34)
DCB-Surrogate	1	0	13.17	(13.11 - 13.23)	13.16	(13.10 - 13.22)	12.36	(12.30 - 12.42)	12.35	(12.29 - 12.41)	12.35	(12.29 - 12.41)
Chlordane	1	1										
Chlordane	1	2										
Chlordane	1	3										
Toxaphene	1	1										
Toxaphene	1	2										
Toxaphene	1	3										
Toxaphene	1	4										
Toxaphene	1	5										
TCMX-Surrogate	2	0	6.07	(6.01 - 6.13)	6.07	(6.01 - 6.13)	4.92	(4.86 - 4.98)	4.92	(4.86 - 4.98)	4.92	(4.86 - 4.98)
alpha-BHC	2	0	7.08	(7.04 - 7.12)	7.07	(7.03 - 7.11)	5.84	(5.80 - 5.88)	5.84	(5.80 - 5.88)	5.84	(5.80 - 5.88)
gamma-BHC	2	0	7.61	(7.57 - 7.65)	7.61	(7.57 - 7.65)	6.37	(6.33 - 6.41)	6.37	(6.33 - 6.41)	6.37	(6.33 - 6.41)
beta-BHC	2	0	7.70	(7.62 - 7.78)	7.70	(7.62 - 7.78)	6.45	(6.37 - 6.53)	6.45	(6.37 - 6.53)	6.45	(6.37 - 6.53)
Heptachlor	2	0	8.05	(8.01 - 8.09)	8.05	(8.01 - 8.09)	6.81	(6.77 - 6.85)	6.81	(6.77 - 6.85)	6.81	(6.77 - 6.85)
delta-BHC	2	0	8.19	(8.11 - 8.27)	8.19	(8.11 - 8.27)	6.94	(6.86 - 7.02)	6.94	(6.86 - 7.02)	6.94	(6.86 - 7.02)
Aldrin	2	0	8.48	(8.40 - 8.56)	8.48	(8.40 - 8.56)	7.26	(7.18 - 7.34)	7.26	(7.18 - 7.34)	7.26	(7.18 - 7.34)
Heptachlor Epoxide	2	0	9.18	(9.14 - 9.22)	9.18	(9.14 - 9.22)	7.98	(7.94 - 8.02)	7.98	(7.94 - 8.02)	7.98	(7.94 - 8.02)
v-chlordane	2	0	9.38	(9.34 - 9.42)	9.38	(9.34 - 9.42)	8.19	(8.15 - 8.23)	8.19	(8.15 - 8.23)	8.19	(8.15 - 8.23)
a-chlordane	2	0	9.58	(9.54 - 9.62)	9.58	(9.54 - 9.62)	8.39	(8.35 - 8.43)	8.39	(8.35 - 8.43)	8.39	(8.35 - 8.43)
Endosulfan I	2	0	9.62	(9.58 - 9.66)	9.62	(9.58 - 9.66)	8.44	(8.40 - 8.48)	8.44	(8.40 - 8.48)	8.44	(8.40 - 8.48)
p,p'-DDE	2	0	9.86	(9.78 - 9.94)	9.86	(9.78 - 9.94)	8.68	(8.60 - 8.76)	8.68	(8.60 - 8.76)	8.68	(8.60 - 8.76)
Dieldrin	2	0	9.99	(9.91 - 10.07)	9.99	(9.91 - 10.07)	8.83	(8.75 - 8.91)	8.83	(8.75 - 8.91)	8.83	(8.75 - 8.91)
Endrin	2	0	10.44	(10.40 - 10.48)	10.44	(10.40 - 10.48)	9.30	(9.26 - 9.34)	9.30	(9.26 - 9.34)	9.30	(9.26 - 9.34)
p,p'-DDD	2	0	10.53	(10.45 - 10.61)	10.53	(10.45 - 10.61)	9.38	(9.30 - 9.46)	9.38	(9.30 - 9.46)	9.38	(9.30 - 9.46)
Endosulfan II	2	0	10.65	(10.57 - 10.73)	10.64	(10.56 - 10.72)	9.52	(9.44 - 9.60)	9.52	(9.44 - 9.60)	9.52	(9.44 - 9.60)
p,p'-DDT	2	0	10.89	(10.81 - 10.97)	10.88	(10.80 - 10.96)	9.76	(9.68 - 9.84)	9.76	(9.68 - 9.84)	9.76	(9.68 - 9.84)
Endrin Aldehyde	2	0	11.03	(10.95 - 11.11)	11.03	(10.95 - 11.11)	9.93	(9.85 - 10.01)	9.92	(9.84 - 10.00)	9.92	(9.84 - 10.00)
Endosulfan Sulfate	2	0	11.17	(11.13 - 11.21)	11.17	(11.13 - 11.21)	10.08	(10.03 - 10.11)	10.07	(10.03 - 10.11)	10.07	(10.03 - 10.11)
Methoxychlor	2	0	11.89	(11.85 - 11.93)	11.88	(11.84 - 11.92)	10.82	(10.78 - 10.86)	10.82	(10.78 - 10.86)	10.82	(10.78 - 10.86)
Endrin Ketone	2	0	12.09	(12.01 - 12.17)	12.09	(12.01 - 12.17)	11.06	(10.98 - 11.14)	11.06	(10.98 - 11.14)	11.05	(10.97 - 11.13)
DCB-Surrogate	2	0	13.49	(13.43 - 13.55)	13.48	(13.42 - 13.54)	12.68	(12.62 - 12.74)	12.68	(12.62 - 12.74)	12.68	(12.62 - 12.74)
Chlordane	2	1										
Chlordane	2	2										
Chlordane	2	3										
Toxaphene	2	1										
Toxaphene	2	2										
Toxaphene	2	3										
Toxaphene	2	4										
Toxaphene	2	5										

Form7

RtWindow Summary

Method: EPA 8081B

Data File:			6G49344.D											
Calibration Name:			CAL PEST@100PPB											
Calibration Date/Time			5/30/2014 9:02:00 AM											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	5.08	(5.02 - 5.14)								
alpha-BHC	1	0	6.24	(6.20 - 6.28)								
gamma-BHC	1	0	6.76	(6.72 - 6.80)								
beta-BHC	1	0	7.62	(7.54 - 7.70)								
Heptachlor	1	0	7.07	(7.03 - 7.11)								
delta-BHC	1	0	7.97	(7.89 - 8.05)								
Aldrin	1	0	7.45	(7.37 - 7.53)								
Heptachlor Epoxide	1	0	8.27	(8.23 - 8.31)								
g-chlordane	1	0	8.66	(8.62 - 8.70)								
a-chlordane	1	0	8.73	(8.69 - 8.77)								
Endosulfan I	1	0	8.63	(8.59 - 8.67)								
p,p'-DDE	1	0	8.82	(8.74 - 8.90)								
Dieldrin	1	0	9.07	(8.99 - 9.15)								
Endrin	1	0	9.34	(9.30 - 9.38)								
p,p'-DDD	1	0	9.76	(9.68 - 9.84)								
Endosulfan II	1	0	9.89	(9.81 - 9.97)								
p,p'-DDT	1	0	9.98	(9.90 - 10.06)								
Endrin Aldehyde	1	0	10.37	(10.29 - 10.45)								
Endosulfan Sulfate	1	0	10.73	(10.69 - 10.77)								
Methoxychlor	1	0	10.67	(10.63 - 10.71)								
Endrin Ketone	1	0	11.26	(11.18 - 11.34)								
DCB-Surrogate	1	0	12.36	(12.30 - 12.42)								
Chlordane	1	1										
Chlordane	1	2										
Chlordane	1	3										
Toxaphene	1	1										
Toxaphene	1	2										
Toxaphene	1	3										
Toxaphene	1	4										
Toxaphene	1	5										
TCMX-Surrogate	2	0	4.92	(4.86 - 4.98)								
alpha-BHC	2	0	5.84	(5.80 - 5.88)								
gamma-BHC	2	0	6.37	(6.33 - 6.41)								
beta-BHC	2	0	6.45	(6.37 - 6.53)								
Heptachlor	2	0	6.82	(6.78 - 6.86)								
delta-BHC	2	0	6.95	(6.87 - 7.03)								
Aldrin	2	0	7.26	(7.18 - 7.34)								
Heptachlor Epoxide	2	0	7.98	(7.94 - 8.02)								
g-chlordane	2	0	8.19	(8.15 - 8.23)								
a-chlordane	2	0	8.39	(8.35 - 8.43)								
Endosulfan I	2	0	8.44	(8.40 - 8.48)								
p,p'-DDE	2	0	8.68	(8.60 - 8.76)								
Dieldrin	2	0	8.83	(8.75 - 8.91)								
Endrin	2	0	9.30	(9.26 - 9.34)								
p,p'-DDD	2	0	9.38	(9.30 - 9.46)								
Endosulfan II	2	0	9.52	(9.44 - 9.60)								
p,p'-DDT	2	0	9.77	(9.69 - 9.85)								
Endrin Aldehyde	2	0	9.93	(9.85 - 10.01)								
Endosulfan Sulfate	2	0	10.08	(10.04 - 10.12)								
Methoxychlor	2	0	10.82	(10.78 - 10.86)								
Endrin Ketone	2	0	11.06	(10.98 - 11.14)								
DCB-Surrogate	2	0	12.68	(12.62 - 12.74)								
Chlordane	2	1										
Chlordane	2	2										
Chlordane	2	3										
Toxaphene	2	1										
Toxaphene	2	2										
Toxaphene	2	3										
Toxaphene	2	4										
Toxaphene	2	5										

Quantitation Report (QT Reviewed)

4052101 1330

Data Path : G:\Gcdata\2014\GC_5\Data\05-06-14\
Data File : 5G51675.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06-May-14, 09:59:58
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 06 10:18:09 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.212	6.071	231.9E6	172.6E6	102.425	101.117
2)alpha-BHC	7.471	7.077	337.0E6	248.6E6	109.855	101.128
3)gamma-BHC	7.993	7.614	304.4E6	221.6E6	107.055	101.101
4)beta-BHC	8.878	7.704	125.3E6	107.8E6	106.849	98.841
5)Heptachlor	8.277	8.048	247.9E6	184.1E6	105.699	102.602
6)delta-BHC	9.198	8.190	271.8E6	216.6E6	108.953	102.036
7)Aldrin	8.635	8.480	274.9E6	193.4E6	107.256	100.753
8)Heptachlor Epoxid	9.443	9.184	234.7E6	163.2E6	105.536	98.511
9)y-chlordane	9.824	9.385	249.8E6	179.4E6	111.217	100.445
10)a-chlordane	9.889	9.581	237.1E6	162.9E6	110.475	101.633
11)Endosulfan I	9.783	9.624	216.6E6	174.9E6	107.529	101.616
12)p,p'-DDE	9.977	9.869	243.6E6	169.9E6	112.244	103.604
13)Dieldrin	10.208	9.997	235.2E6	167.1E6	109.966	100.675
14)Endrin	10.452	10.442	167.4E6	113.7E6	106.157	98.342
15)p,p'-DDD	10.877	10.532	191.7E6	139.8E6	108.607	102.804
16)Endosulfan II	10.989	10.650	198.2E6	142.7E6	108.376	100.468
17)p,p'-DDT	11.075	10.891	176.0E6	133.9E6	114.067	105.737
18)Endrin Aldehyde	11.452	11.034	150.7E6	120.9E6	113.887	104.103
19)Endosulfan Sulfat	11.798	11.176	167.4E6	128.9E6	105.827	100.711
20)Methoxychlor	11.729	11.891	84424845	56886063	104.722	99.655
21)Endrin Ketone	12.278	12.095	186.3E6	146.6E6	111.622	105.720
22)DCB-Surrogate	13.185	13.495	171.1E6	126.2E6	102.355	96.371

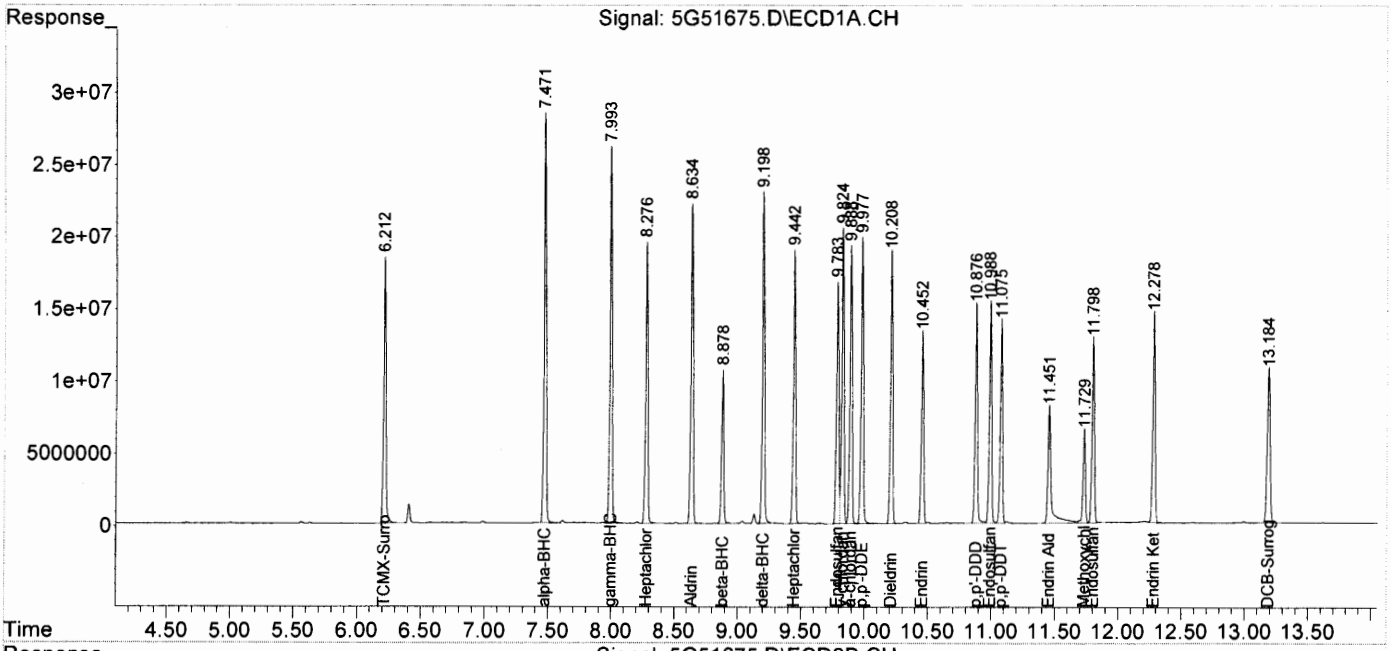
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

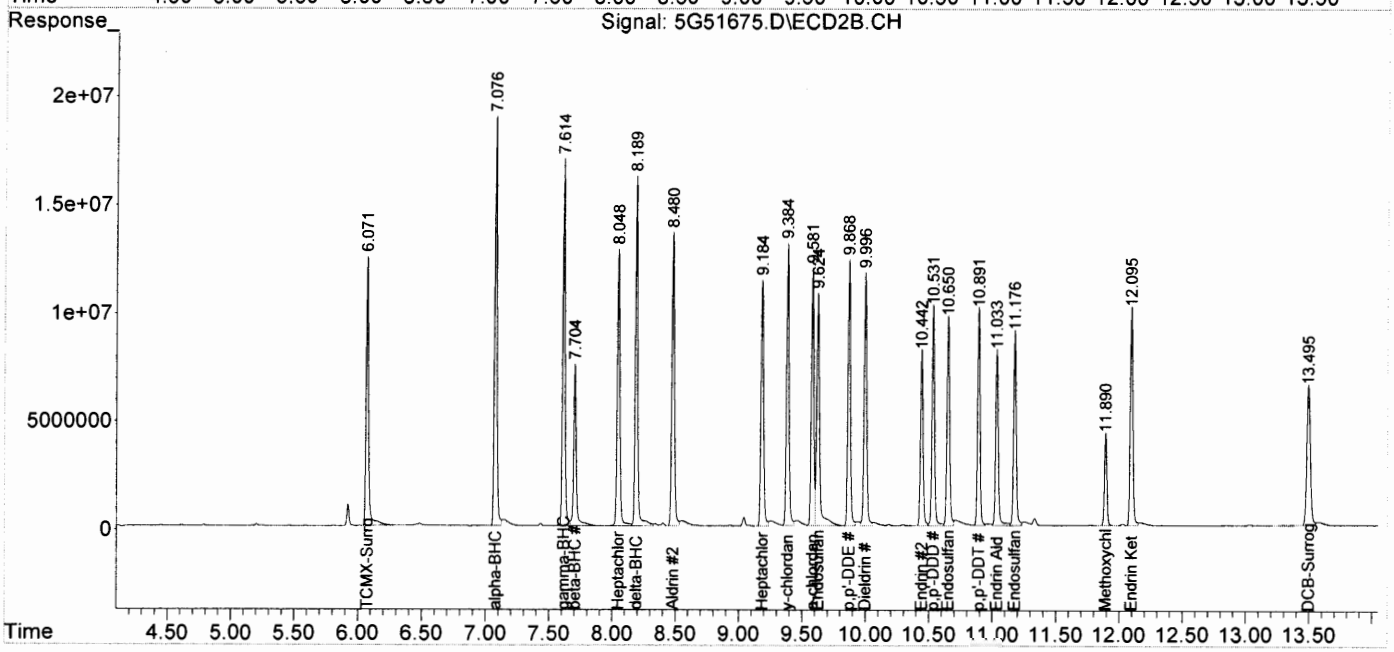
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-06-14\
Data File : 5G51675.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06-May-14, 09:59:58
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 06 10:18:09 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1332

Data Path : G:\Gcdata\2014\GC_5\Data\05-06-14\
Data File : 5G51686.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06-May-14, 15:57:38
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 06 17:12:44 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.206	6.073	242.7E6	175.1E6	107.168	102.558
2)alpha-BHC	7.465	7.078	351.2E6	257.2E6	114.456	104.629
3)gamma-BHC	7.987	7.615	314.9E6	230.6E6	110.763	105.202
4)beta-BHC	8.871	7.705	127.3E6	111.2E6	108.528	101.896
5)Heptachlor	8.270	8.049	261.9E6	195.4E6	111.702	108.933
6)delta-BHC	9.192	8.191	287.4E6	234.8E6	115.213	110.587
7)Aldrin	8.628	8.481	280.9E6	199.6E6	109.599	104.033
8)Heptachlor Epoxid	9.436	9.184	239.3E6	169.0E6	107.626	101.956
9)y-chlordane	9.818	9.384	252.6E6	188.3E6	112.438	105.421
10)a-chlordane	9.882	9.581	240.6E6	171.3E6	112.112	106.869
11)Endosulfan I	9.777	9.624	220.1E6	181.5E6	109.277	105.471
12)p,p'-DDE	9.971	9.868	247.2E6	178.5E6	113.869	108.822
13)Dieldrin	10.201	9.996	238.9E6	174.8E6	111.675	105.295
14)Endrin	10.447	10.441	185.5E6	129.8E6	117.659	112.239
15)p,p'-DDD	10.870	10.531	193.1E6	147.8E6	109.410	108.684
16)Endosulfan II	10.982	10.650	200.2E6	149.5E6	109.440	105.225
17)p,p'-DDT	11.069	10.890	180.7E6	145.3E6	116.887	114.708
18)Endrin Aldehyde	11.445	11.033	149.4E6	122.7E6	112.924	105.686
19)Endosulfan Sulfat	11.792	11.175	173.6E6	137.6E6	109.737	107.497
20)Methoxychlor	11.722	11.890	91270316	61379938	112.895	107.527
21)Endrin Ketone	12.272	12.094	187.6E6	155.3E6	112.371	112.009
22)DCB-Surrogate	13.178	13.493	174.2E6	137.0E6	104.213	104.616

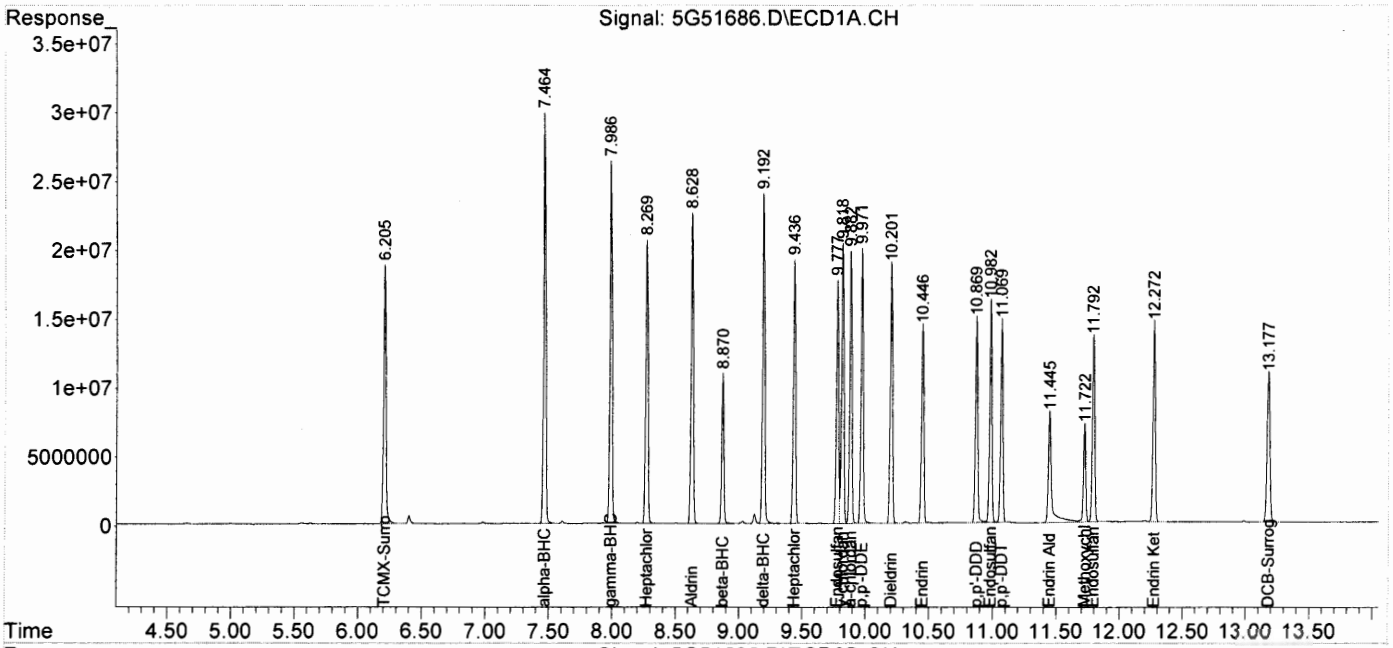
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

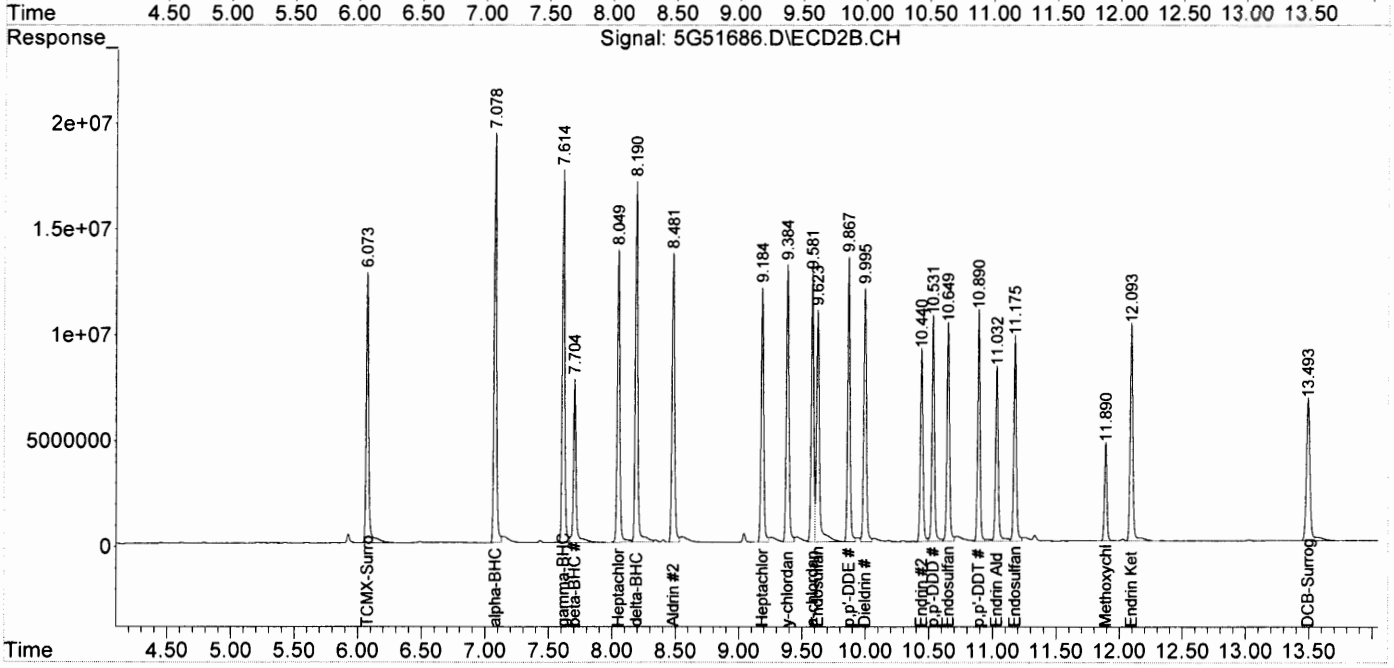
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-06-14\
Data File : 5G51686.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06-May-14, 15:57:38
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 06 17:12:44 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51958.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 11:34:47
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Jun 03 12:28:17 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.209	6.070	242.7E6	174.4E6	98.581	97.032
2)alpha-BHC	7.466	7.075	354.7E6	257.2E6	101.694	100.987
3)gamma-BHC	7.987	7.612	319.9E6	227.2E6	100.415	100.706
4)beta-BHC	8.870	7.702	129.7E6	107.0E6	98.513	99.448
5)Heptachlor	8.272	8.046	224.5E6	162.3E6	97.602	103.736
6)delta-BHC	9.191	8.187	293.3E6	228.2E6	102.856	101.633
7)Aldrin	8.630	8.478	287.4E6	197.9E6	100.135	100.410
8)Heptachlor Epoxid	9.437	9.182	243.0E6	166.7E6	99.509	97.552
9)y-chlordane	9.819	9.382	258.2E6	183.3E6	100.996	99.373
10)a-chlordane	9.883	9.579	245.4E6	166.7E6	100.241	100.085
11)Endosulfan I	9.778	9.622	223.7E6	177.1E6	100.232	100.729
12)p,p'-DDE	9.972	9.866	251.7E6	174.5E6	101.806	101.964
13)Dieldrin	10.202	9.995	242.2E6	171.1E6	101.215	102.492
14)Endrin	10.447	10.439	162.7E6	109.1E6	98.706	98.498
15)p,p'-DDD	10.870	10.530	194.3E6	135.2E6	99.096	102.401
16)Endosulfan II	10.982	10.648	205.5E6	146.2E6	100.920	101.374
17)p,p'-DDT	11.069	10.889	162.0E6	124.6E6	100.920	99.848
18)Endrin Aldehyde	11.443	11.032	151.2E6	118.8E6	103.500	101.985
19)Endosulfan Sulfat	11.790	11.175	181.8E6	138.5E6	101.919	103.067
20)Methoxychlor	11.722	11.888	67808188	46479282	100.877	96.449
21)Endrin Ketone	12.270	12.093	186.2E6	150.3E6	104.278	107.108
22)DCB-Surrogate	13.178	13.492	176.3E6	133.6E6	99.084	101.895

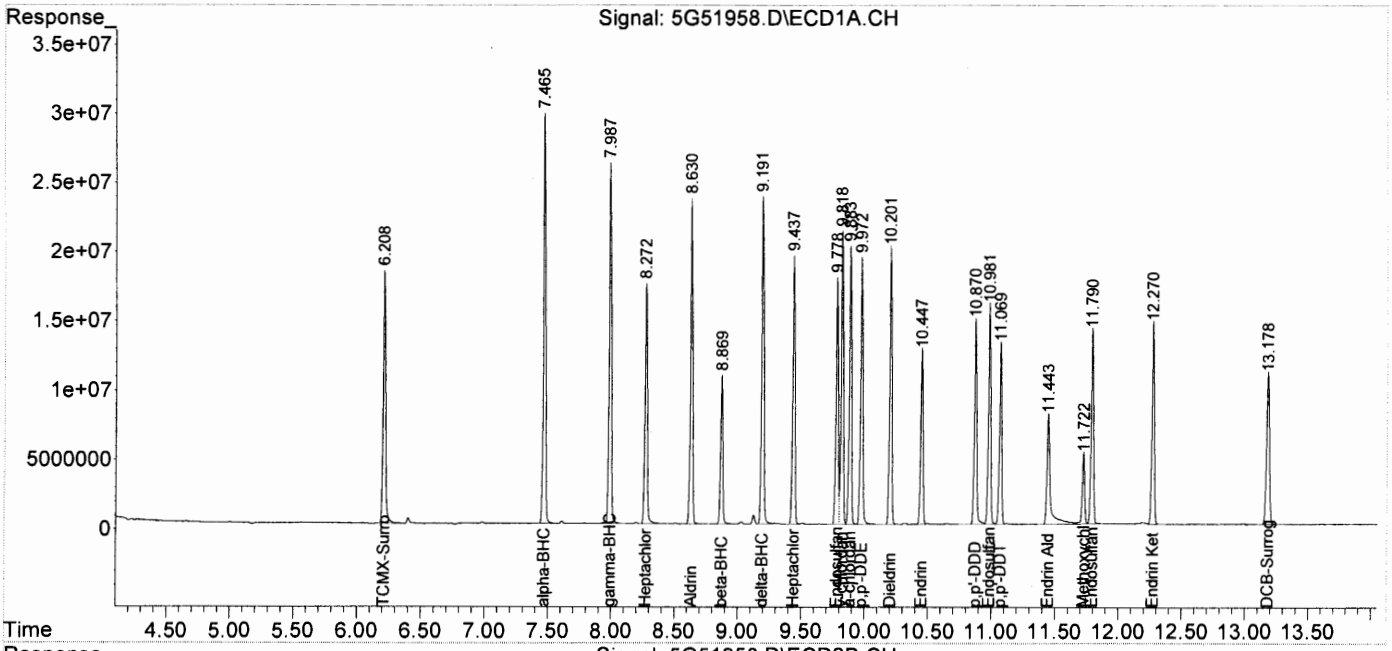
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

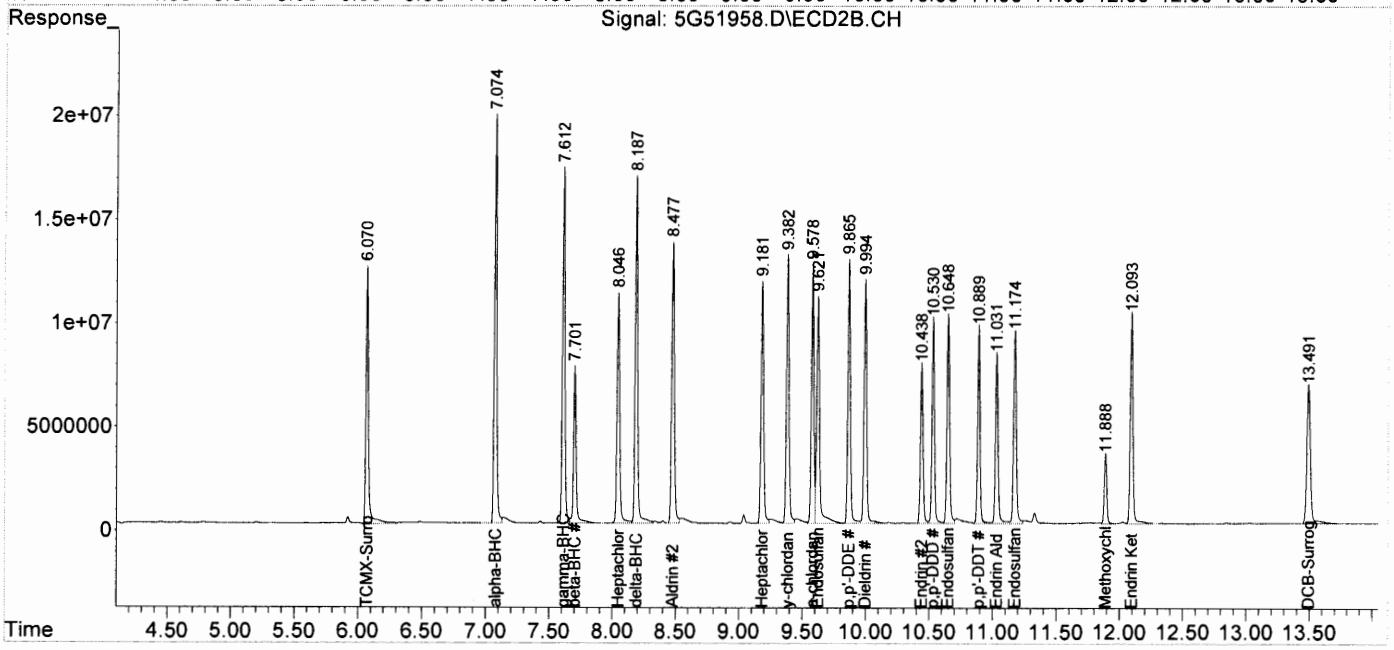
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51958.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 11:34:47
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Jun 03 12:28:17 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51966.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 14:06:44
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 14:31:47 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.207	6.071	227.1E6	176.3E6	92.236	98.130
2)alpha-BHC	7.464	7.076	327.7E6	253.6E6	93.931	99.571
3)gamma-BHC	7.985	7.613	291.9E6	223.2E6	91.639	98.954
4)beta-BHC	8.868	7.702	115.2E6	106.1E6	87.506	98.642
5)Heptachlor	8.270	8.047	220.8E6	172.7E6	95.991	110.354
6)delta-BHC	9.189	8.188	262.8E6	226.9E6	92.161	101.035
7)Aldrin	8.628	8.478	259.5E6	192.6E6	90.390	97.734
8)Heptachlor Epoxid	9.435	9.182	221.2E6	163.3E6	90.568	95.566
9)y-chlordane	9.816	9.382	228.8E6	176.1E6	89.507	95.480
10)a-chlordane	9.880	9.579	217.5E6	158.2E6	88.838	94.963
11)Endosulfan I	9.776	9.622	202.4E6	170.0E6	90.683	96.705
12)p,p'-DDE	9.970	9.865	222.6E6	165.3E6	90.042	96.600
13)Dieldrin	10.200	9.994	220.5E6	166.1E6	92.147	99.531
14)Endrin	10.445	10.438	150.7E6	108.5E6	91.471	97.948
15)p,p'-DDD	10.867	10.530	180.5E6	137.7E6	92.016	104.271
16)Endosulfan II	10.979	10.647	187.5E6	142.5E6	92.054	98.816
17)p,p'-DDT	11.066	10.888	148.6E6	122.8E6	92.906	98.393
18)Endrin Aldehyde	11.441	11.031	143.0E6	119.4E6	97.885	102.544
19)Endosulfan Sulfat	11.788	11.174	167.6E6	135.2E6	93.993	100.616
20)Methoxychlor	11.720	11.887	67015267	50033613	99.740	103.825
21)Endrin Ketone	12.268	12.091	184.7E6	156.4E6	103.395	111.439
22)DCB-Surrogate	13.176	13.492	168.4E6	133.6E6	94.639	101.870

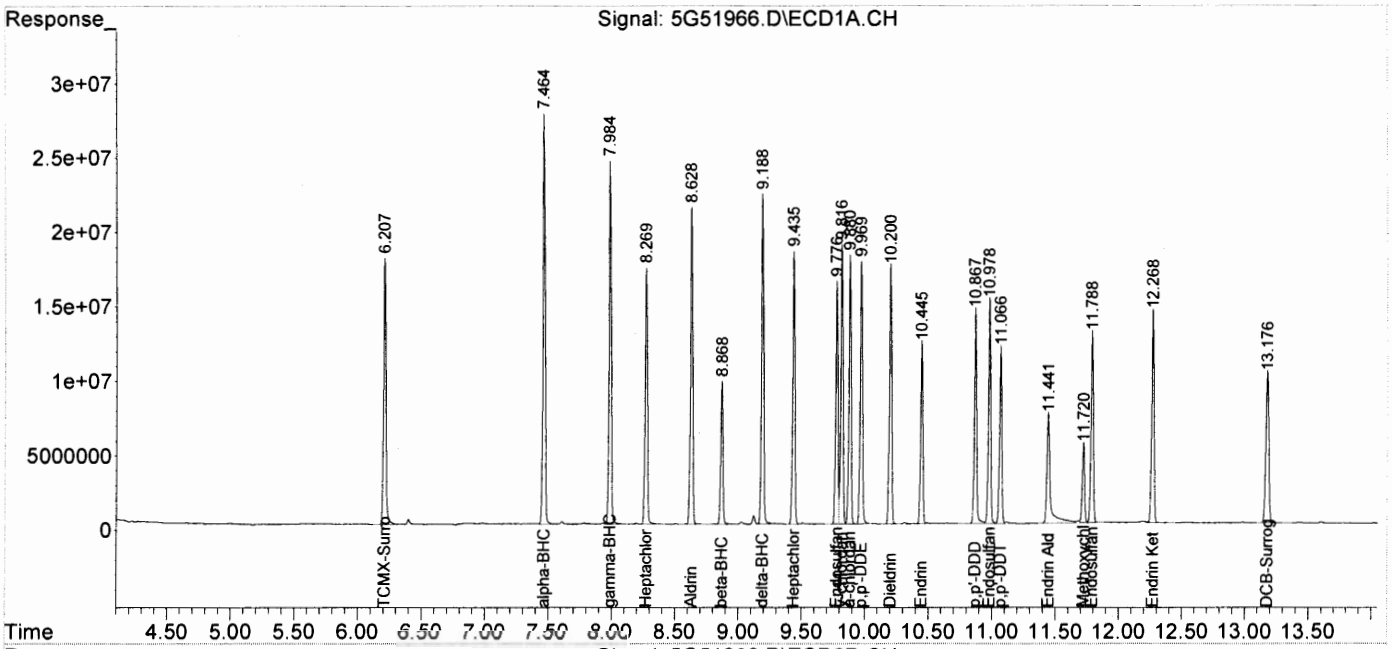
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

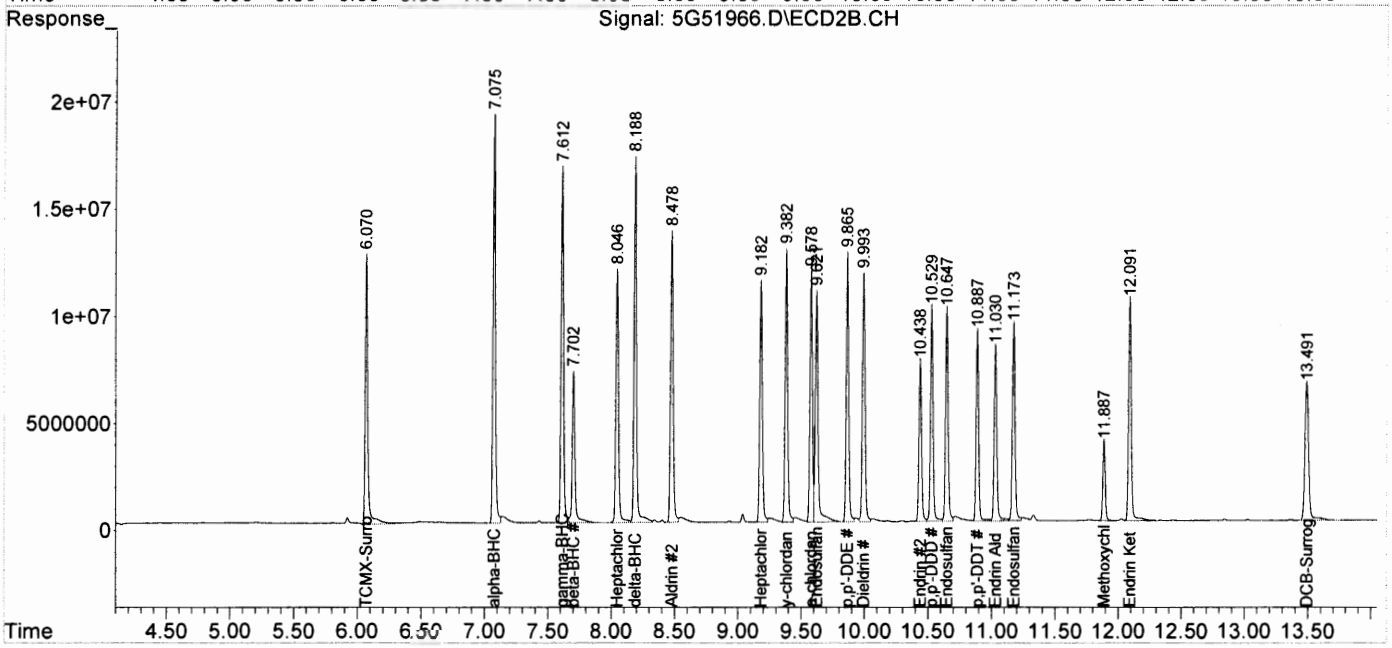
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-23-14\
Data File : 5G51966.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23-May-14, 14:06:44
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 14:31:47 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1338

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 00:26:45
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:40:38 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.204	6.071	256.9E6	179.7E6	104.336	100.004
2)alpha-BHC	7.459	7.075	363.5E6	266.1E6	104.192	104.452
3)gamma-BHC	7.981	7.613	329.1E6	237.5E6	103.322	105.304
4)beta-BHC	8.863	7.702	135.1E6	111.0E6	102.547	103.159
5)Heptachlor	8.266	8.046	272.1E6	197.1E6	118.284	125.954
6)delta-BHC	9.183	8.187	304.4E6	239.3E6	106.744	106.563
7)Aldrin	8.624	8.477	298.2E6	206.1E6	103.888	104.569
8)Heptachlor Epoxid	9.430	9.181	253.2E6	175.8E6	103.687	102.921
9)y-chlordane	9.811	9.380	266.9E6	191.9E6	104.387	104.047
10)a-chlordane	9.876	9.577	254.1E6	173.9E6	103.815	104.377
11)Endosulfan I	9.772	9.620	232.9E6	185.3E6	104.365	105.402
12)p,p'-DDE	9.965	9.865	261.2E6	184.7E6	105.657	107.917
13)Dieldrin	10.195	9.992	253.3E6	184.0E6	105.822	110.251
14)Endrin	10.441	10.437	185.4E6	125.1E6	112.510	112.934
15)p,p'-DDD	10.863	10.527	205.4E6	149.2E6	104.735	113.038
16)Endosulfan II	10.974	10.645	213.8E6	152.3E6	104.980	105.614
17)p,p'-DDT	11.062	10.886	185.6E6	138.1E6	114.915	110.627
18)Endrin Aldehyde	11.435	11.028	157.0E6	121.2E6	107.517	104.016
19)Endosulfan Sulfat	11.782	11.172	187.9E6	139.9E6	105.335	104.090
20)Methoxychlor	11.716	11.885	91176564	61049813	133.972	126.685
21)Endrin Ketone	12.262	12.089	193.8E6	156.5E6	108.518	111.514
22)DCB-Surrogate	13.170	13.487	186.6E6	139.8E6	104.854	106.586

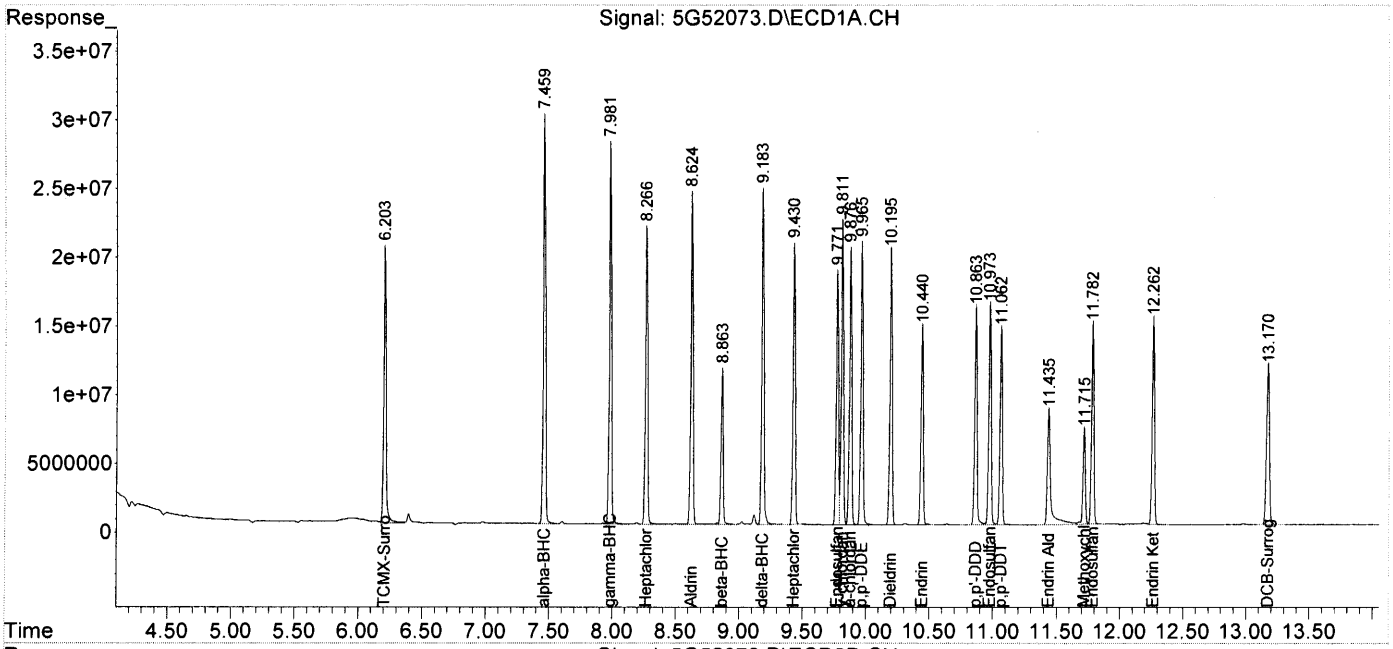
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

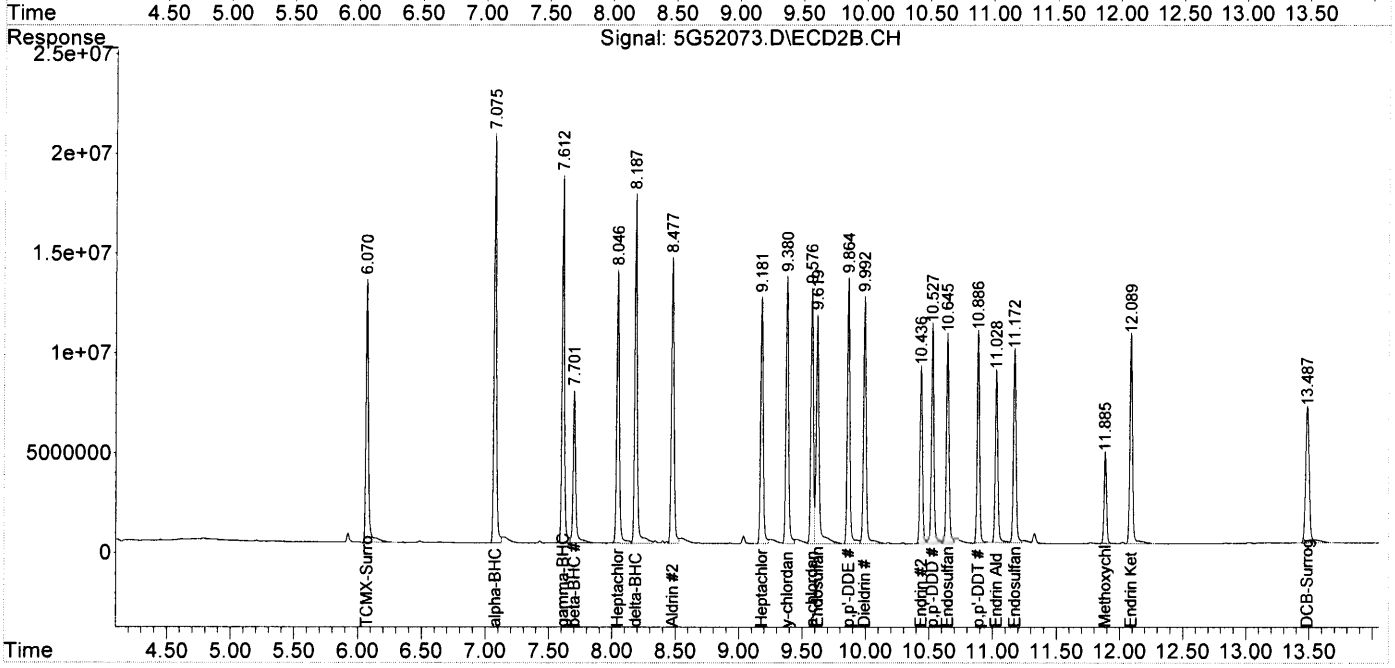
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 00:26:45
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:40:38 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1340

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52095.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 08:20:48
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:49:08 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.199	6.070	252.5E6	179.7E6	102.553	100.010
2)alpha-BHC	7.455	7.075	363.4E6	260.3E6	104.181	102.183
3)gamma-BHC	7.977	7.611	320.8E6	232.0E6	100.704	102.834
4)beta-BHC	8.858	7.701	130.8E6	113.0E6	99.328	104.998
5)Heptachlor	8.262	8.045	268.5E6	198.5E6	116.743	126.860
6)delta-BHC	9.180	8.186	286.5E6	232.0E6	100.468	103.312
7)Aldrin	8.621	8.476	289.4E6	201.3E6	100.807	102.148
8)Heptachlor Epoxid	9.426	9.179	247.5E6	172.0E6	101.333	100.668
9)y-chlordane	9.808	9.379	255.3E6	186.9E6	99.858	101.317
10)a-chlordane	9.872	9.576	243.1E6	170.1E6	99.308	102.107
11)Endosulfan I	9.768	9.618	225.0E6	182.3E6	100.787	103.702
12)p,p'-DDE	9.961	9.862	250.6E6	177.2E6	101.383	103.512
13)Dieldrin	10.192	9.991	243.1E6	176.1E6	101.573	105.515
14)Endrin	10.437	10.435	188.7E6	130.9E6	114.496	118.232
15)p,p'-DDD	10.858	10.525	198.5E6	149.2E6	101.238	112.979
16)Endosulfan II	10.970	10.643	204.2E6	150.0E6	100.283	104.052
17)p,p'-DDT	11.058	10.884	174.9E6	140.3E6	108.616	112.381
18)Endrin Aldehyde	11.431	11.026	150.9E6	122.6E6	103.336	105.237
19)Endosulfan Sulfat	11.777	11.169	176.0E6	136.1E6	98.702	101.281
20)Methoxychlor	11.711	11.883	87567502	61779157	128.912	128.198
21)Endrin Ketone	12.258	12.087	183.8E6	151.8E6	102.889	108.135
22)DCB-Surrogate	13.165	13.483	176.1E6	135.9E6	98.983	103.610

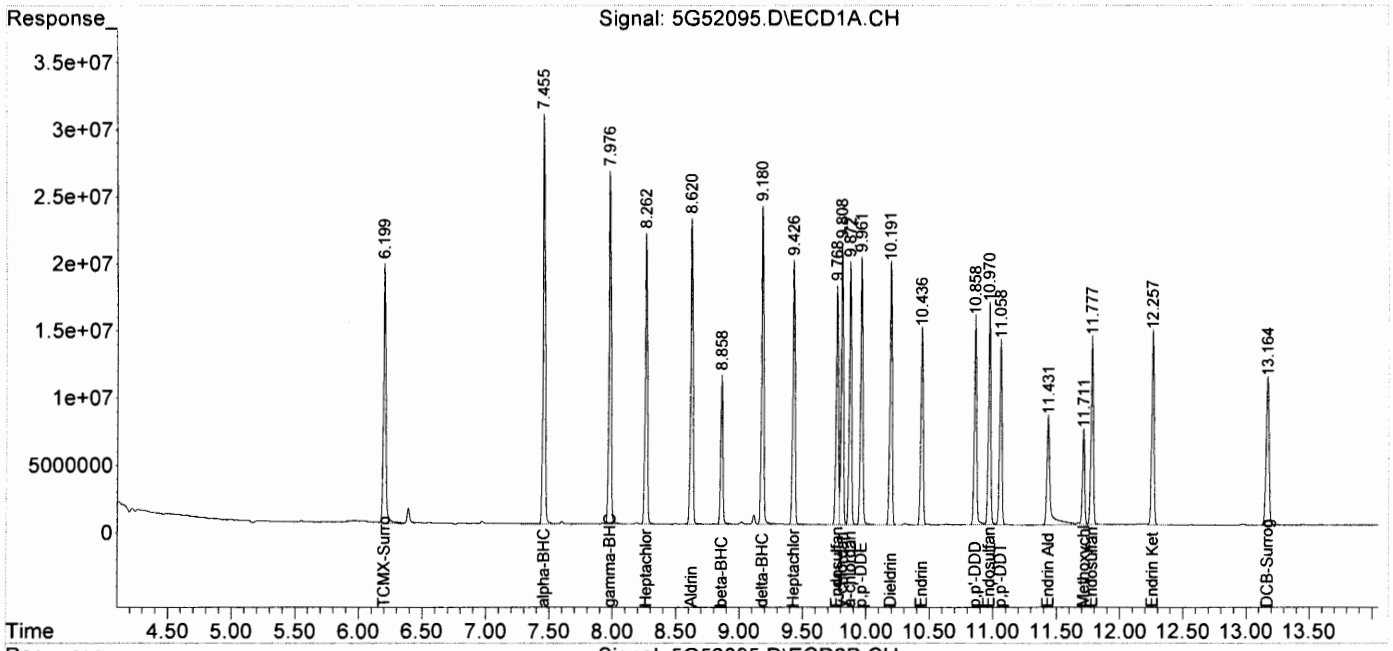
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

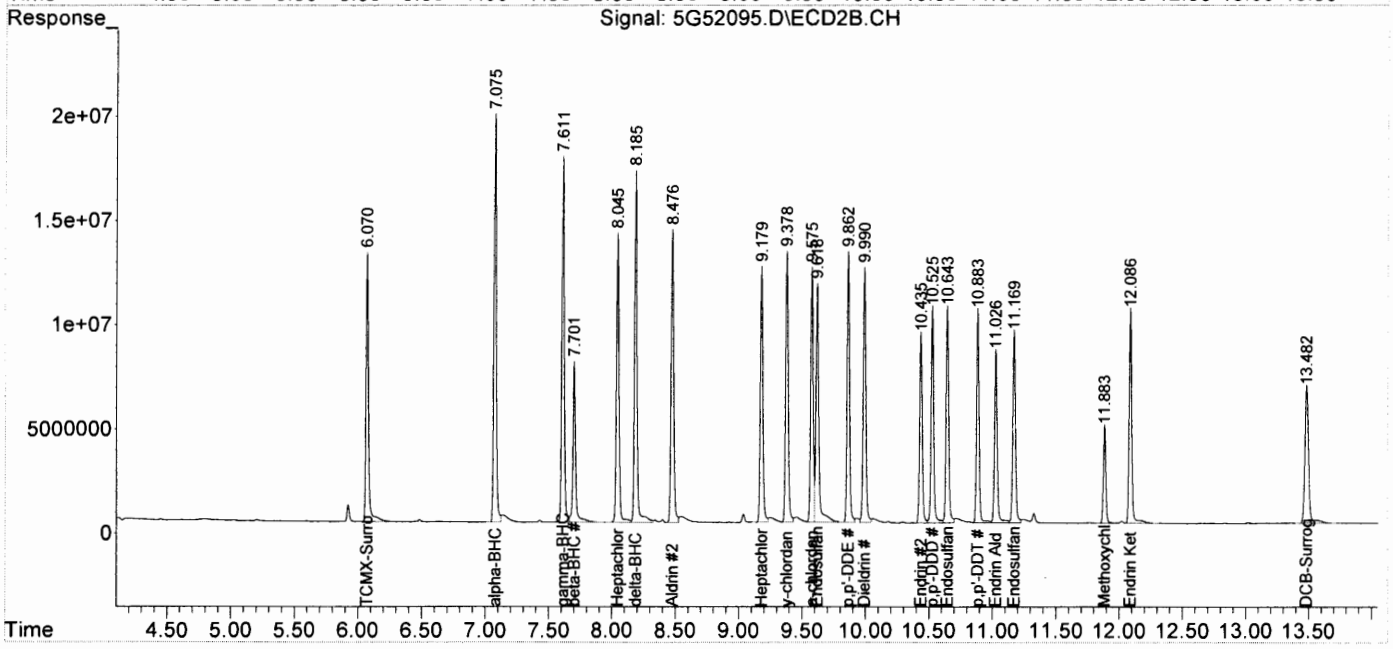
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52095.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 08:20:48
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:49:08 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1342

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52116.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 16:17:32
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Jun 02 11:19:29 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.204	6.076	242.6E6	170.2E6	98.510	94.728
2)alpha-BHC	7.460	7.079	351.4E6	258.3E6	100.732	101.412
3)gamma-BHC	7.981	7.616	313.8E6	231.1E6	98.514	102.432
4)beta-BHC	8.863	7.705	125.8E6	109.3E6	95.525	101.604
5)Heptachlor	8.267	8.049	265.2E6	200.8E6	115.306	128.298
6)delta-BHC	9.184	8.190	278.7E6	231.4E6	97.719	103.041
7)Aldrin	8.625	8.481	279.7E6	198.8E6	97.434	100.868
8)Heptachlor Epoxid	9.431	9.184	238.6E6	170.0E6	97.720	99.470
9)y-chlordane	9.812	9.383	247.4E6	183.5E6	96.772	99.502
10)a-chlordane	9.877	9.579	234.6E6	167.4E6	95.846	100.502
11)Endosulfan I	9.772	9.623	219.8E6	180.9E6	98.467	102.863
12)p,p'-DDE	9.966	9.866	242.0E6	172.4E6	97.907	100.712
13)Dieldrin	10.196	9.995	236.0E6	166.1E6	98.628	99.478
14)Endrin	10.441	10.439	188.3E6	133.3E6	114.286	120.356
15)p,p'-DDD	10.863	10.529	192.9E6	148.8E6	98.387	112.733
16)Endosulfan II	10.975	10.648	199.3E6	149.0E6	97.881	103.375
17)p,p'-DDT	11.063	10.888	168.8E6	138.2E6	104.961	110.680
18)Endrin Aldehyde	11.436	11.031	145.1E6	121.1E6	99.340	103.964
19)Endosulfan Sulfat	11.783	11.173	166.5E6	133.2E6	93.342	99.097
20)Methoxychlor	11.716	11.888	86299927	62643508	127.130	129.992
21)Endrin Ketone	12.264	12.091	184.7E6	154.8E6	103.418	110.314
22)DCB-Surrogate	13.171	13.489	172.9E6	134.5E6	97.132	102.602

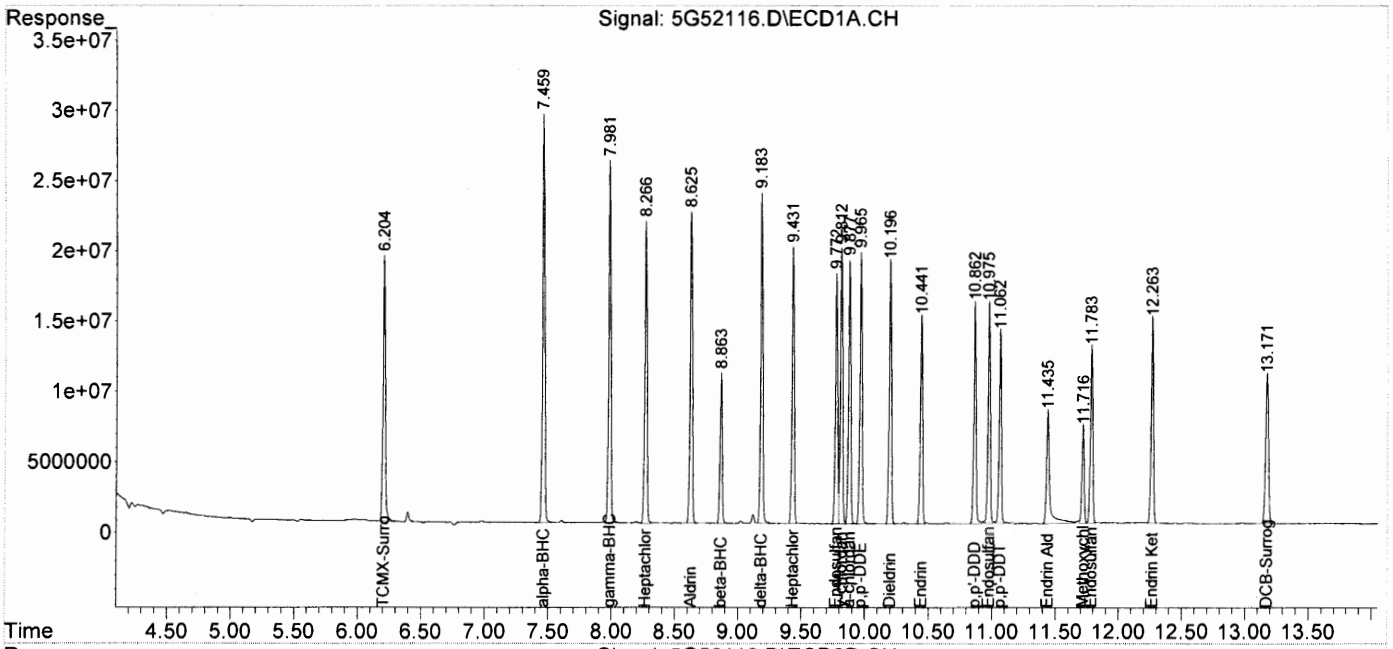
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

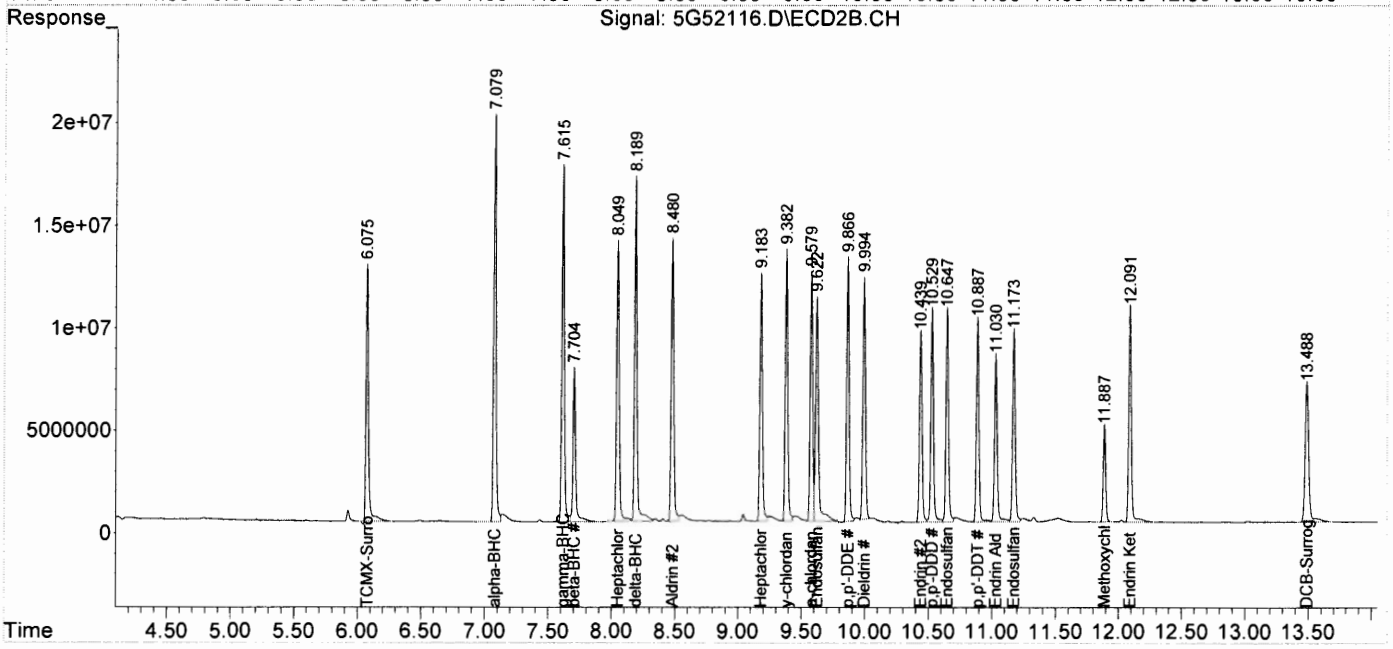
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52116.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 16:17:32
Operator : MAS/MLC
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Jun 02 11:19:29 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49184.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 12:30
Operator : MLC/MAS
Sample : CAL PEST@200PPB
Misc : S,PEST:0.25
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 12:48:22 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.079	4.922	1989542	2661858	194.504	195.192
2)alpha-BHC	6.235	5.843	2682145	3698210	204.675	201.322
3)gamma-BHC	6.753	6.372	2499702	3371370	197.069	215.796
4)beta-BHC	7.621	6.451	1270417	1821552	197.397	193.454
5)Heptachlor	7.065	6.817	2055530	2614315	187.779	210.276
6)delta-BHC	7.969	6.947	2324943	3251844	202.684	201.027
7)Aldrin	7.441	7.263	2218598	2849118	191.463	201.890
8)Heptachlor Epoxid	8.262	7.982	1994076	2533940	193.343	190.632
9)y-chlordane	8.656	8.191	2431316	2856359	206.563m	197.181
10)a-chlordane	8.728	8.395	2118912	2499846	206.739	193.795
11)Endosulfan I	8.629	8.445	1571230	2773384	193.179m	202.537
12)p,p'-DDE	8.819	8.685	2028140	2466471	203.232	208.206
13)Dieldrin	9.070	8.835	1930923	2479172	189.553	201.524
14)Endrin	9.333	9.304	1344563	1571739	185.167	181.167
15)p,p'-DDD	9.760	9.386	1565949	1906449	200.061	195.189
16)Endosulfan II	9.885	9.523	1808732	2370705	194.803	202.441
17)p,p'-DDT	9.978	9.766	1334763	1784328	188.623	190.545
18)Endrin Aldehyde	10.367	9.926	1513618	1884510	188.610	192.221
19)Endosulfan Sulfat	10.732	10.076	1828274	1935786	211.792	201.628
20)Methoxychlor	10.669	10.823	663799	903406	193.993	195.941
21)Endrin Ketone	11.265	11.058	1864365	2352775	215.746	214.030
22)DCB-Surrogate	12.356	12.683	1643106	2159241	188.184	195.040

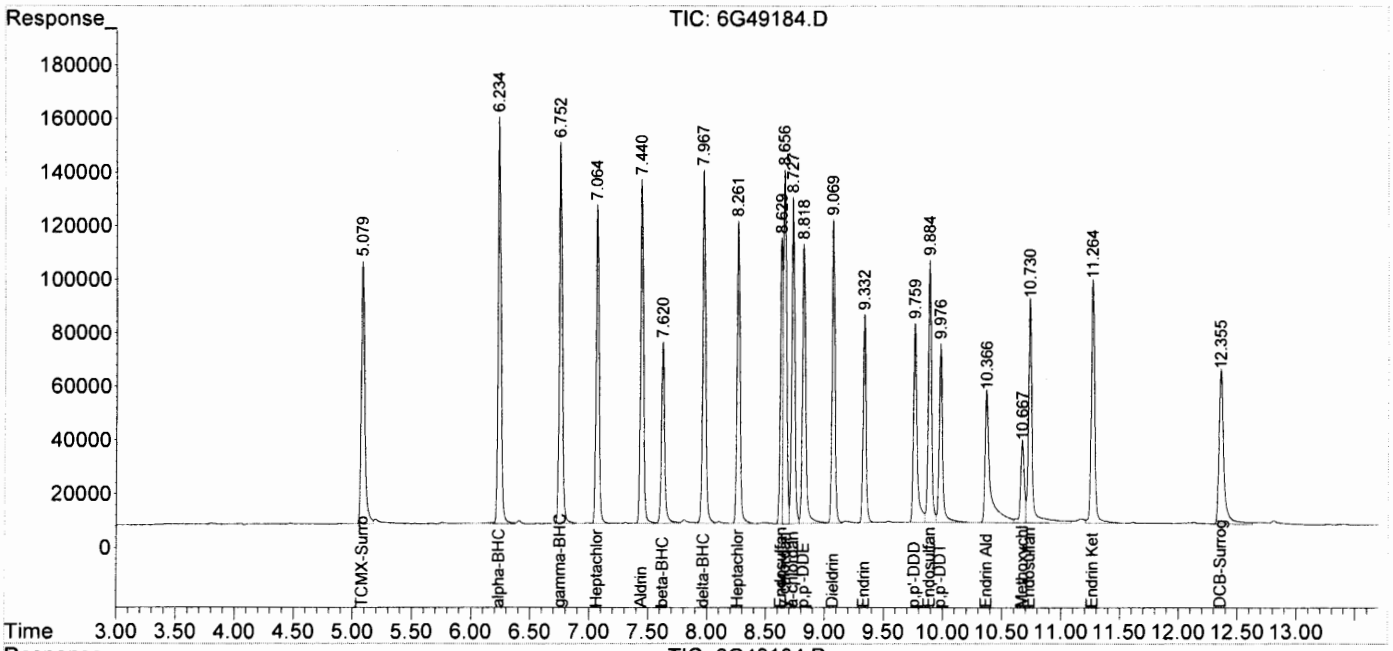
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

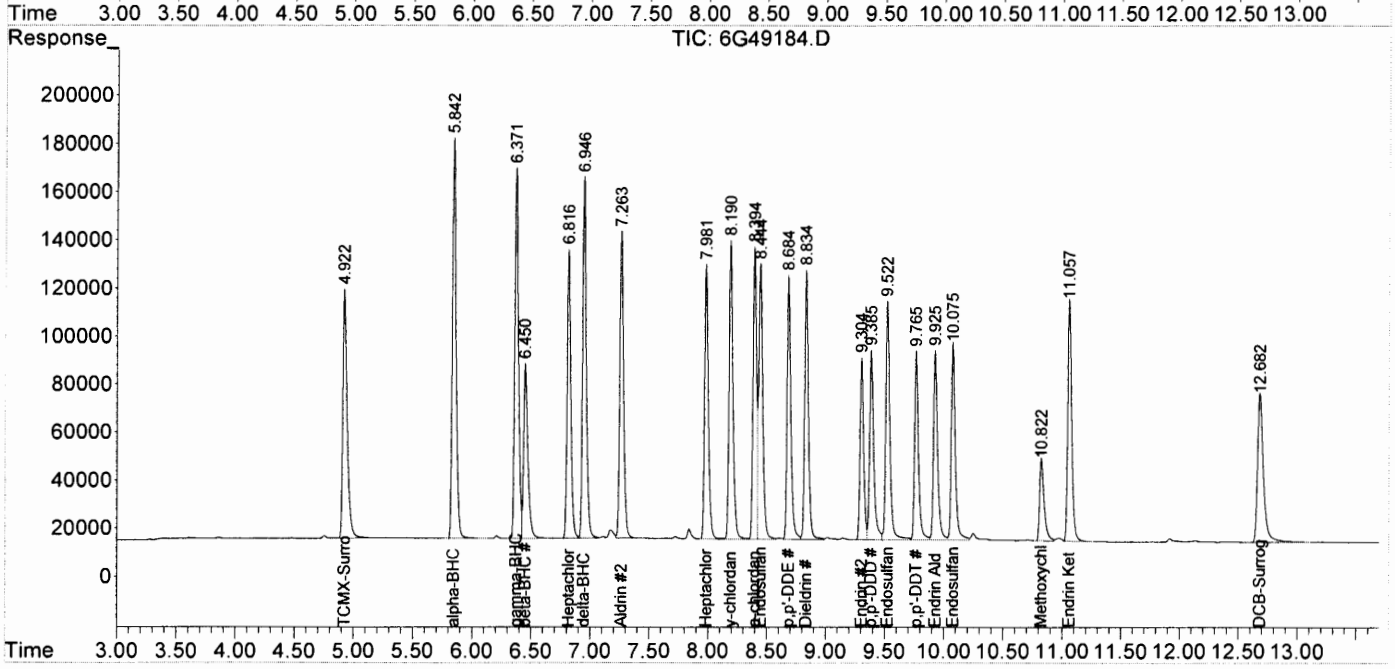
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49184.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 12:30
Operator : MLC/MAS
Sample : CAL PEST@200PPB
Misc : S,PEST:0.25
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 12:48:22 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-29-14\
Data File : 6G49279.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2014 23:53
Operator : MLC/MAS
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 29 09:57:15 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.073	4.915	1077135	1340086	100.654	96.140
2)alpha-BHC	6.229	5.838	1380480	1701388	105.345	93.676
3)gamma-BHC	6.748	6.368	1301232	1597393	102.585	102.246
4)beta-BHC	7.616	6.447	681967	911508	100.783	96.805
5)Heptachlor	7.061	6.813	1163383	1261949	101.966	101.502
6)delta-BHC	7.964	6.943	1185156	1458751	103.320	90.179
7)Aldrin	7.437	7.259	1160928	1351378	100.187	95.759
8)Heptachlor Epoxid	8.258	7.979	1082467	1262123	99.888	94.951
9)y-chlordane	8.652	8.188	1223497	1375362	103.948m	94.945
10)a-chlordane	8.723	8.391	1128500	1245960	110.106	96.590
11)Endosulfan I	8.625	8.441	795872	1322998	91.323m	96.617
12)p,p'-DDE	8.815	8.682	1021613	1140204	102.372	96.250
13)Dieldrin	9.065	8.832	1006458	1177164	98.801	95.688
14)Endrin	9.329	9.302	746876	806044	98.400	92.909
15)p,p'-DDD	9.756	9.383	793561	892721	101.383	91.400
16)Endosulfan II	9.881	9.520	960061	1159774	98.467	99.036
17)p,p'-DDT	9.973	9.764	670662	853196	93.177	91.111
18)Endrin Aldehyde	10.362	9.923	791839	948636	98.670	96.761
19)Endosulfan Sulfat	10.726	10.073	861856	912122	99.840	95.005
20)Methoxychlor	10.663	10.820	380920	461341	108.299	98.994
21)Endrin Ketone	11.259	11.056	850630	1042806	93.738	94.863
22)DCB-Surrogate	12.350	12.678	887657	1087752	95.607	94.508

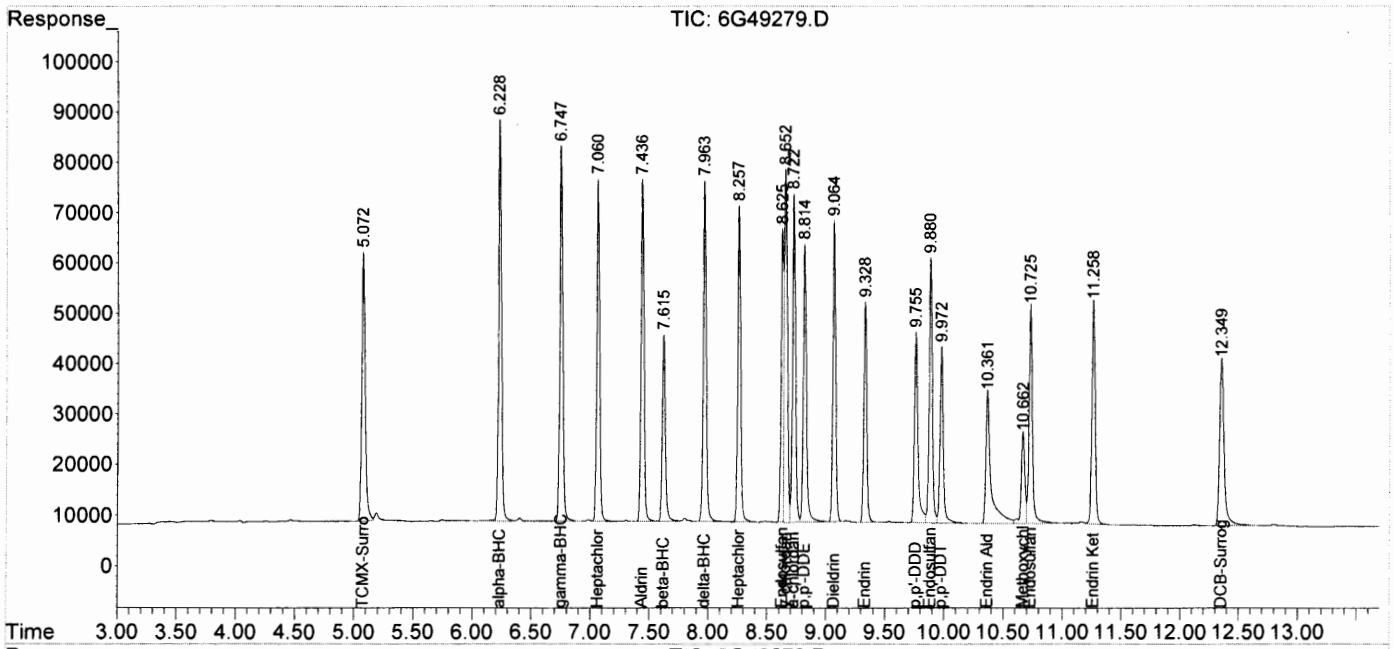
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

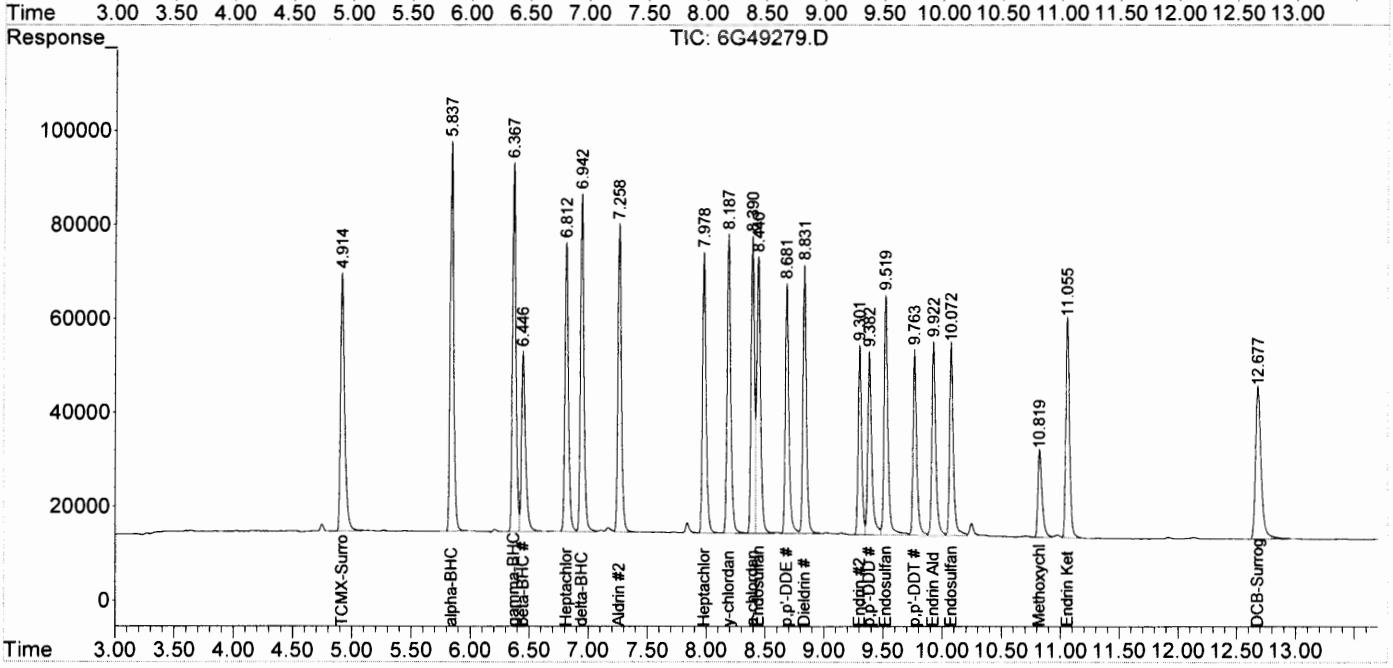
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-29-14\
Data File : 6G49279.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 May 2014 23:53
Operator : MLC/MAS
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 29 09:57:15 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-29-14\
Data File : 6G49301.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 9:08
Operator : MLC/MAS
Sample : CAL PEST@200PPB
Misc : S,PEST:0.25
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 29 10:10:35 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.078	4.921	2028895	2730251	198.769	200.443
2)alpha-BHC	6.232	5.842	2739066	3787220	209.018	206.066
3)gamma-BHC	6.751	6.371	2552328	3464914	201.218	221.783
4)beta-BHC	7.617	6.449	1264822	1875000	196.426	199.131
5)Heptachlor	7.064	6.815	2192757	2639576	201.699	212.308
6)delta-BHC	7.965	6.945	2346590	3292146	204.572	203.518
7)Aldrin	7.439	7.262	2240057	2912336	193.314	206.369
8)Heptachlor Epoxid	8.259	7.980	2032158	2601479	197.478	195.713
9)y-chlordane	8.654	8.189	2523254	2933531	214.374m	202.509
10)a-chlordane	8.724	8.392	2161228	2571860	210.867	199.378
11)Endosulfan I	8.626	8.442	1446941	2845067	175.748m	207.772
12)p,p'-DDE	8.815	8.682	2044341	2552405	204.855	215.460
13)Dieldrin	9.067	8.832	1963079	2516575	192.710	204.564
14)Endrin	9.330	9.302	1493157	1773397	208.125	204.411
15)p,p'-DDD	9.755	9.382	1581170	1974741	202.005	202.181
16)Endosulfan II	9.880	9.520	1801220	2373569	193.903	202.686
17)p,p'-DDT	9.973	9.763	1385678	1904826	196.081	203.413
18)Endrin Aldehyde	10.362	9.923	1522303	1913346	189.692	195.162
19)Endosulfan Sulfat	10.726	10.074	1612173	1915684	186.758	199.534
20)Methoxychlor	10.663	10.820	744771	968792	219.479	210.462
21)Endrin Ketone	11.260	11.055	1687240	2288025	193.480	208.140
22)DCB-Surrogate	12.351	12.678	1591244	2002271	181.403	179.780

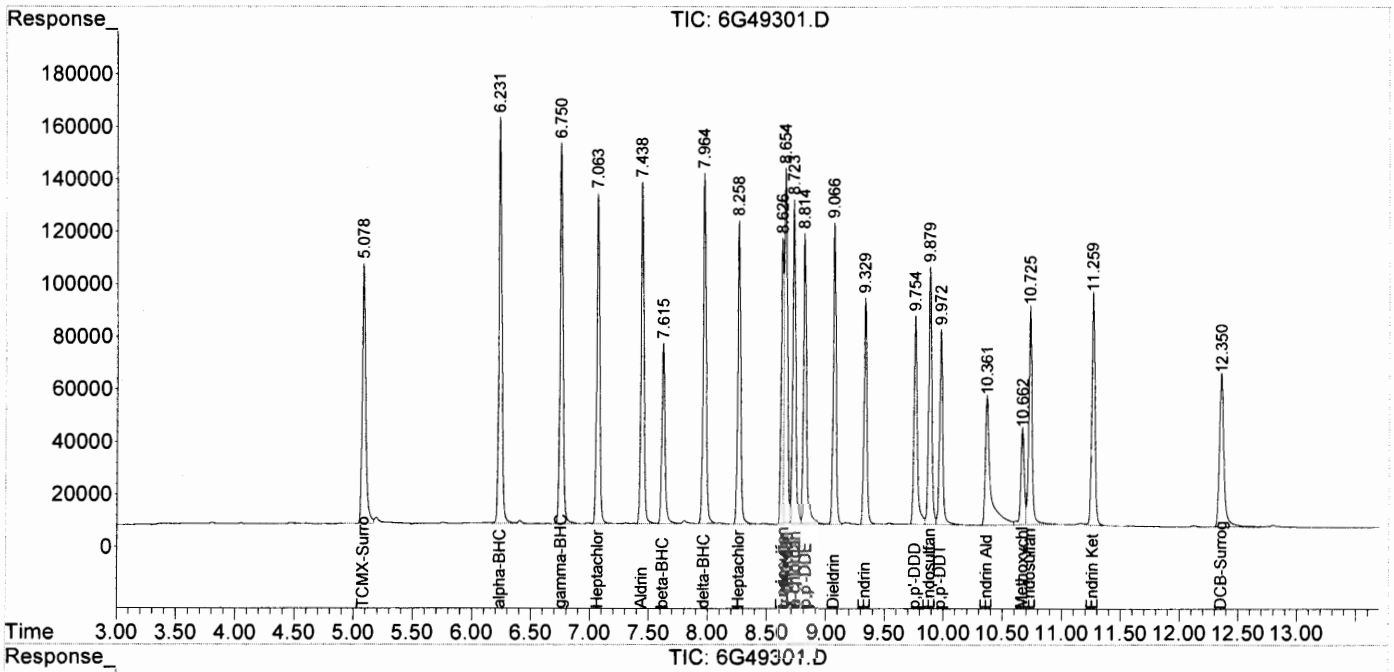
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

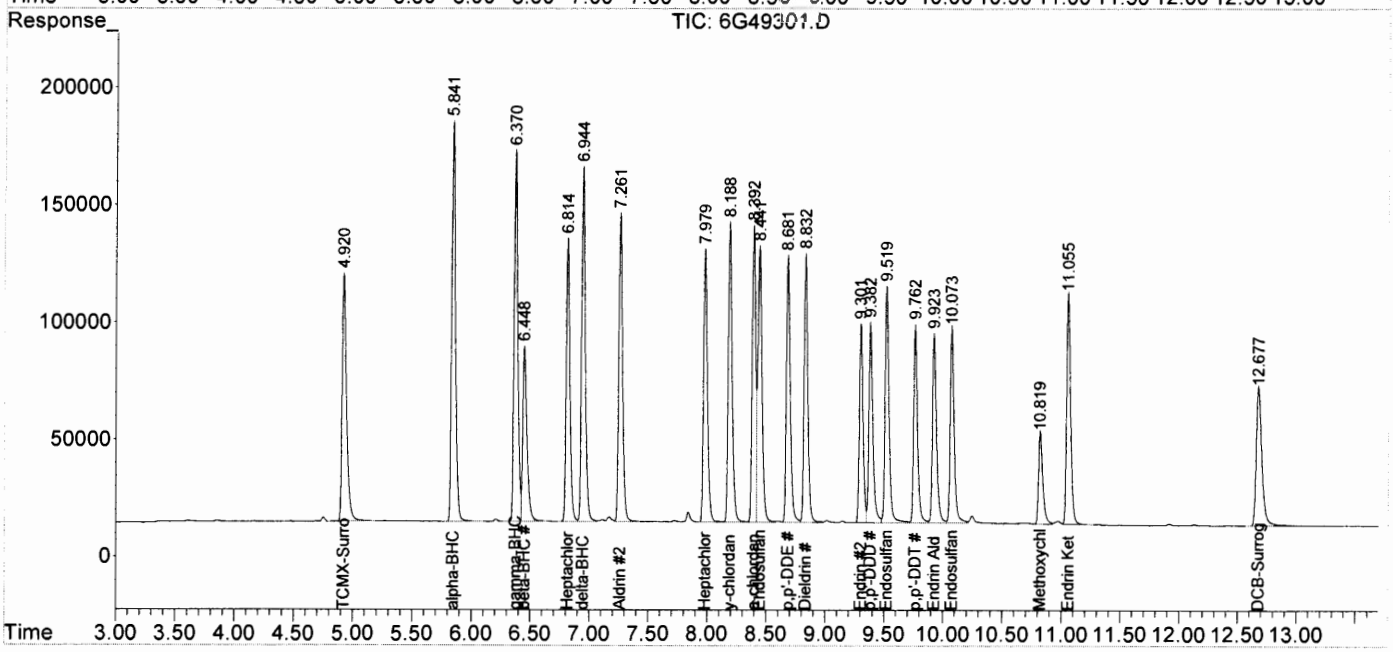
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-29-14\
Data File : 6G49301.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 9:08
Operator : MLC/MAS
Sample : CAL PEST@200PPB
Misc : S,PEST:0.25
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 29 10:10:35 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1350

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49322.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 00:28
Operator : MLC/MAS
Sample : CAL PEST@200PPB
Misc : S,PEST:0.25
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 08:03:07 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.076	4.920	2060991	2717519	202.262	199.464
2)alpha-BHC	6.229	5.841	2782774	3740647	212.354	203.584
3)gamma-BHC	6.748	6.369	2597790	3409163	204.802	218.215
4)beta-BHC	7.615	6.448	1295359	1873592	201.738	198.981
5)Heptachlor	7.061	6.814	2241718	2655452	206.718	213.585
6)delta-BHC	7.963	6.944	2397216	3207401	208.985	198.279
7)Aldrin	7.437	7.261	2293280	2913552	197.908	206.455
8)Heptachlor Epoxid	8.257	7.980	2075496	2598669	202.210	195.502
9)y-chlordane	8.652	8.188	2573296	2928070	218.626	202.132
10)a-chlordane	8.723	8.392	2204866	2549658	215.125	197.657
11)Endosulfan I	8.626	8.442	1514560	2851285	185.171	208.226
12)p,p'-DDE	8.814	8.683	2101169	2506176	210.550	211.558
13)Dieldrin	9.065	8.832	2018814	2554601	198.181	207.655
14)Endrin	9.328	9.302	1500034	1713040	209.202	197.454
15)p,p'-DDD	9.755	9.384	1570595	1881979	200.654	192.683
16)Endosulfan II	9.879	9.520	1886660	2413728	204.192	206.115
17)p,p'-DDT	9.973	9.764	1463938	1865928	207.585	199.259
18)Endrin Aldehyde	10.361	9.923	1540046	1904099	191.903	194.219
19)Endosulfan Sulfat	10.725	10.074	1768804	1939964	204.903	202.063
20)Methoxychlor	10.664	10.821	659277	936001	192.583	203.174
21)Endrin Ketone	11.257	11.054	1698613	2173914	194.896	197.760
22)DCB-Surrogate	12.350	12.679	1745199	2169236	201.749	196.019

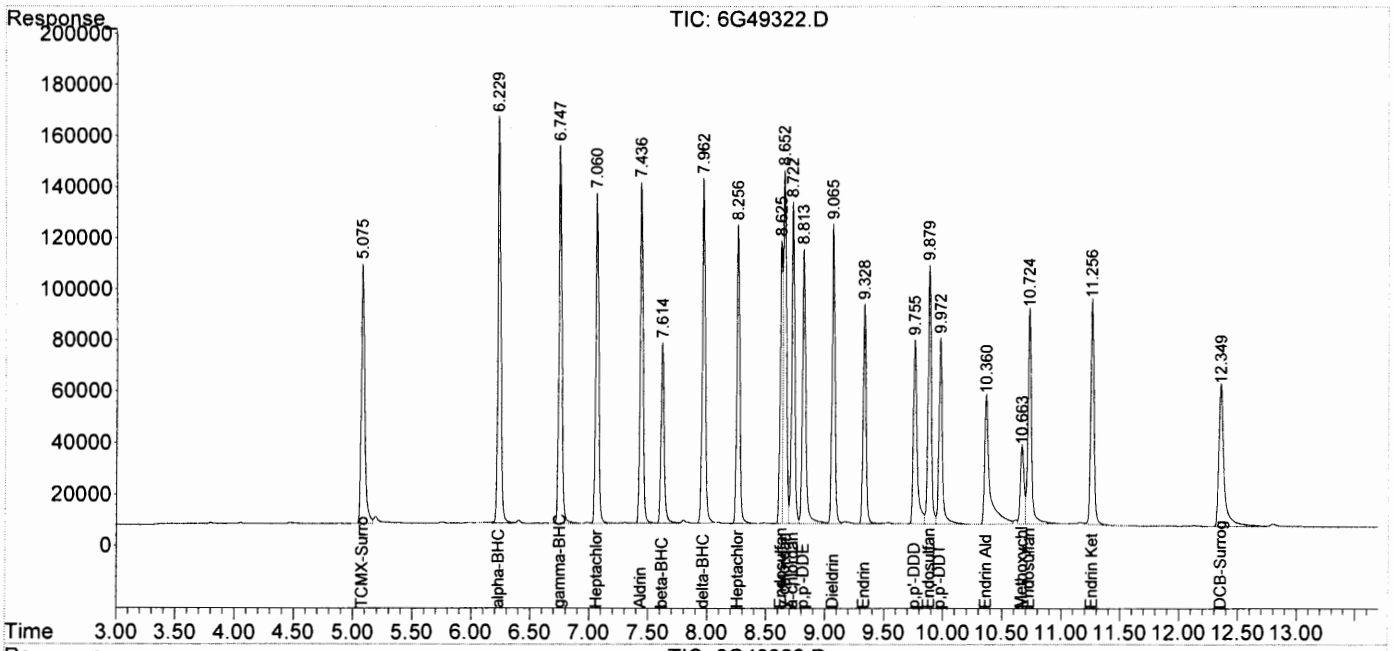
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

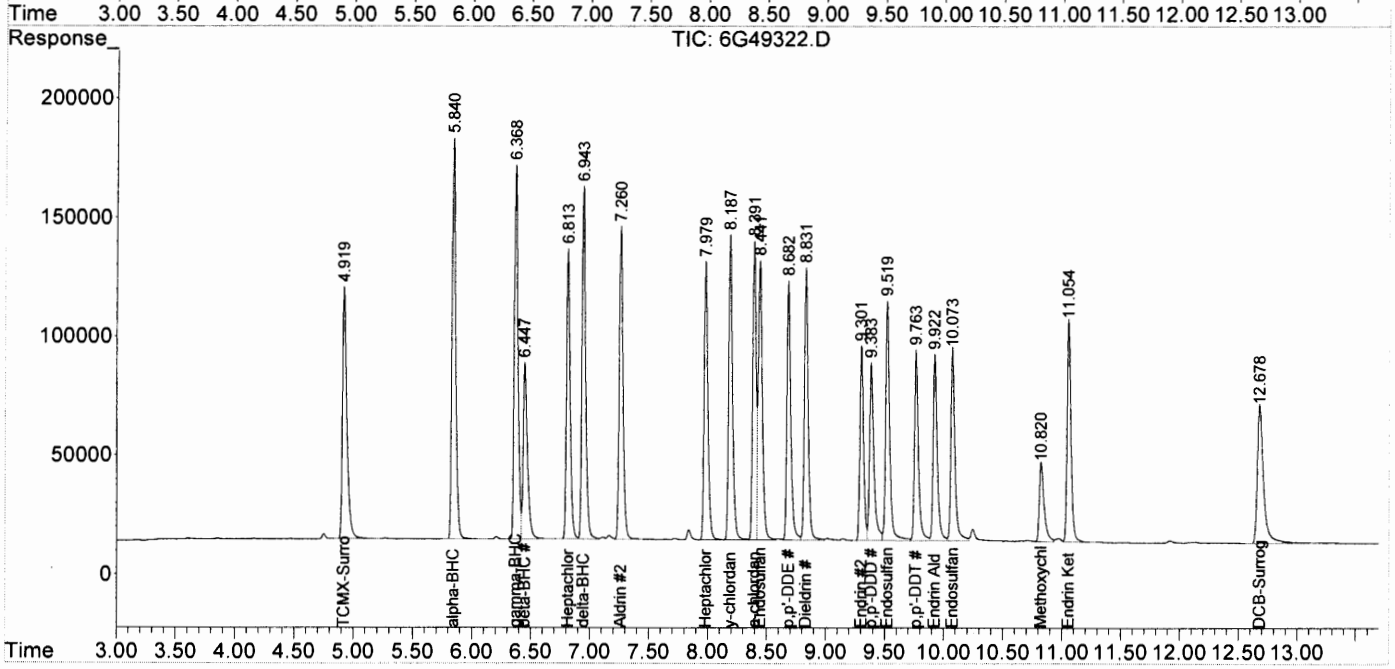
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49322.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 00:28
Operator : MLC/MAS
Sample : CAL PEST@200PPB
Misc : S,PEST:0.25
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 08:03:07 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49344.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 9:02
Operator : MLC/MAS
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 12:04:54 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.084	4.921	1060566	1358866	99.030	97.517
2)alpha-BHC	6.238	5.842	1333357	1720728	101.749	94.730
3)gamma-BHC	6.757	6.371	1247075	1601046	98.316	102.480
4)beta-BHC	7.623	6.450	634117	905064	93.361	96.120
5)Heptachlor	7.070	6.816	1125415	1392987	98.475	112.042
6)delta-BHC	7.972	6.946	1080276	1437498	94.177	88.865
7)Aldrin	7.445	7.262	1100091	1332788	94.937	94.442
8)Heptachlor Epoxid	8.265	7.981	1012733	1225260	93.128	92.178
9)y-chlordane	8.661	8.190	1188582	1302065	100.981	89.885
10)a-chlordane	8.731	8.394	1030590	1165601	100.553	90.361
11)Endosulfan I	8.634	8.444	769747	1281607	88.141	93.594
12)p,p'-DDE	8.822	8.684	942633	1090310	94.457	92.038
13)Dieldrin	9.073	8.833	926304	1114850	90.933	90.622
14)Endrin	9.337	9.303	742091	826608	97.738	95.279
15)p,p'-DDD	9.761	9.384	714794	841403	91.320	86.146
16)Endosulfan II	9.887	9.522	846152	1029427	86.263	87.906
17)p,p'-DDT	9.980	9.765	633648	827108	87.953	88.325
18)Endrin Aldehyde	10.368	9.925	685591	851126	85.430	86.815
19)Endosulfan Sulfat	10.732	10.075	751551	822593	87.061	85.680
20)Methoxychlor	10.668	10.821	367232	475868	104.275	102.147
21)Endrin Ketone	11.265	11.057	749684	989400	82.244m	90.005
22)DCB-Surrogate	12.357	12.679	805202	957508	86.205m	82.825

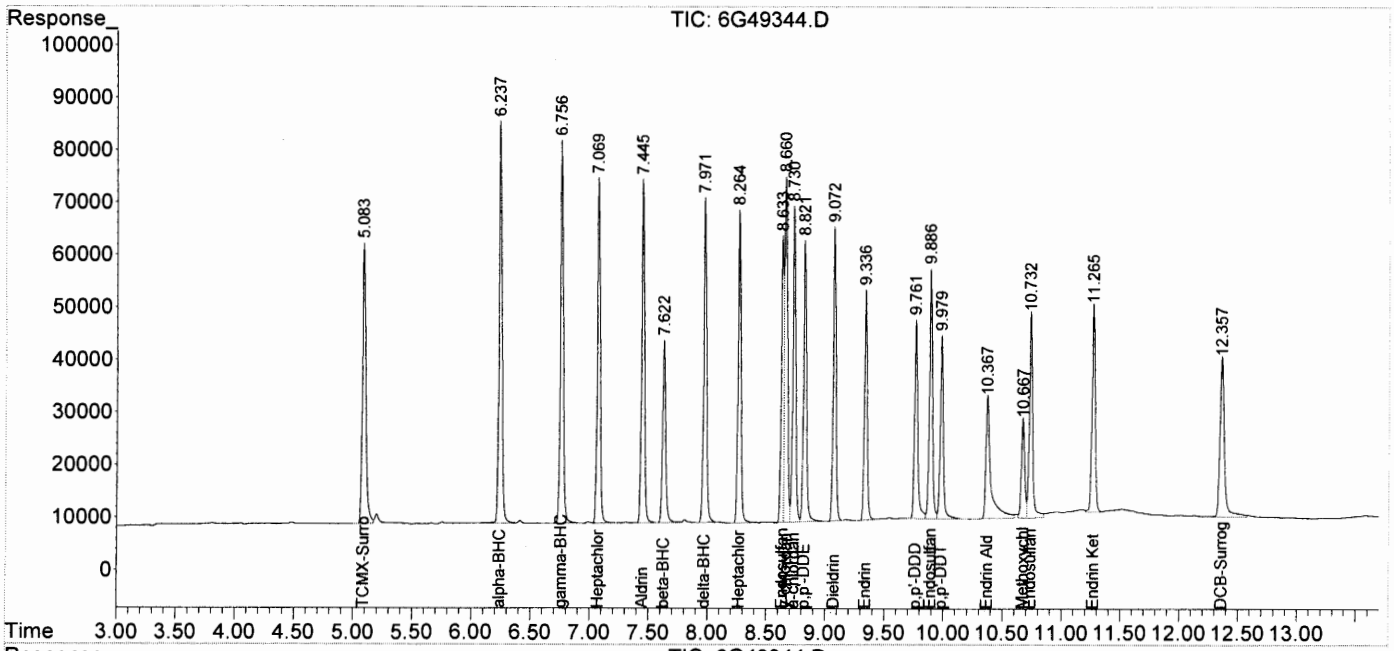
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

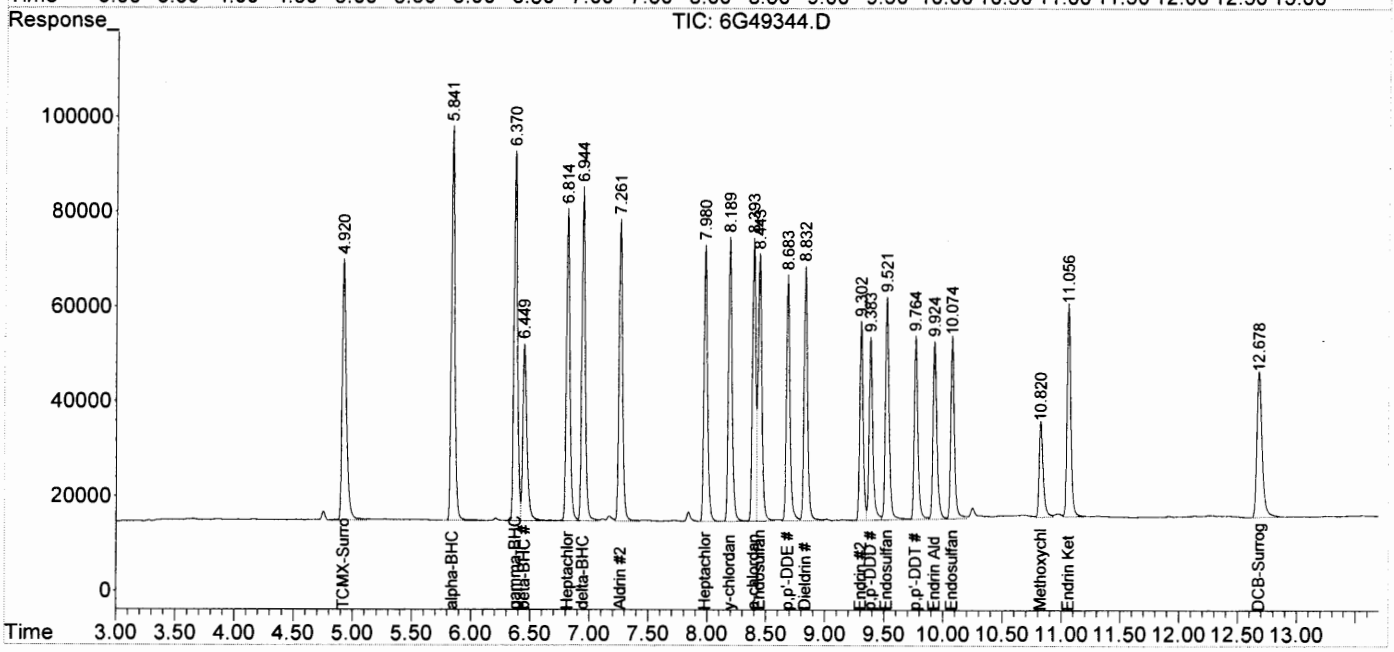
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49344.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 9:02
Operator : MLC/MAS
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 12:04:54 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49365.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 16:18
Operator : MLC/MAS
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Jun 02 12:00:09 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.080	4.922	1104880	1510065	103.379	108.631
2)alpha-BHC	6.233	5.843	1410649	1914793	107.647	105.296
3)gamma-BHC	6.752	6.372	1312119	1790276	103.444	114.592
4)beta-BHC	7.618	6.451	657521	985018	96.984	104.612
5)Heptachlor	7.065	6.816	1180031	1570258	103.500	126.300
6)delta-BHC	7.966	6.946	1152868	1639790	100.505	101.371
7)Aldrin	7.441	7.262	1153207	1468047	99.520	104.026
8)Heptachlor Epoxid	8.260	7.981	1050287	1352137	96.762	101.723
9)y-chlordane	8.655	8.190	1245784	1431832	105.841	98.843
10)a-chlordane	8.726	8.393	1072160	1283523	104.609	99.502
11)Endosulfan I	8.629	8.444	784998	1388124	89.997	101.373
12)p,p'-DDE	8.817	8.683	972413	1174708	97.442	99.162
13)Dieldrin	9.068	8.833	962276	1211250	94.464	98.458
14)Endrin	9.332	9.304	790856	924355	104.514	106.546
15)p,p'-DDD	9.757	9.384	723781	886452	92.468	90.758
16)Endosulfan II	9.882	9.521	873628	1125841	89.192	96.139
17)p,p'-DDT	9.975	9.765	634081	900639	88.014	96.178
18)Endrin Aldehyde	10.364	9.925	702165	923673	87.496	94.215
19)Endosulfan Sulfat	10.727	10.075	763335	890871	88.427	92.791
20)Methoxychlor	10.664	10.821	347878	497423	98.602	106.828
21)Endrin Ketone	11.260	11.056	816064	1073563	89.791	97.661
22)DCB-Surrogate	12.352	12.679	732965	927261	78.065	80.127

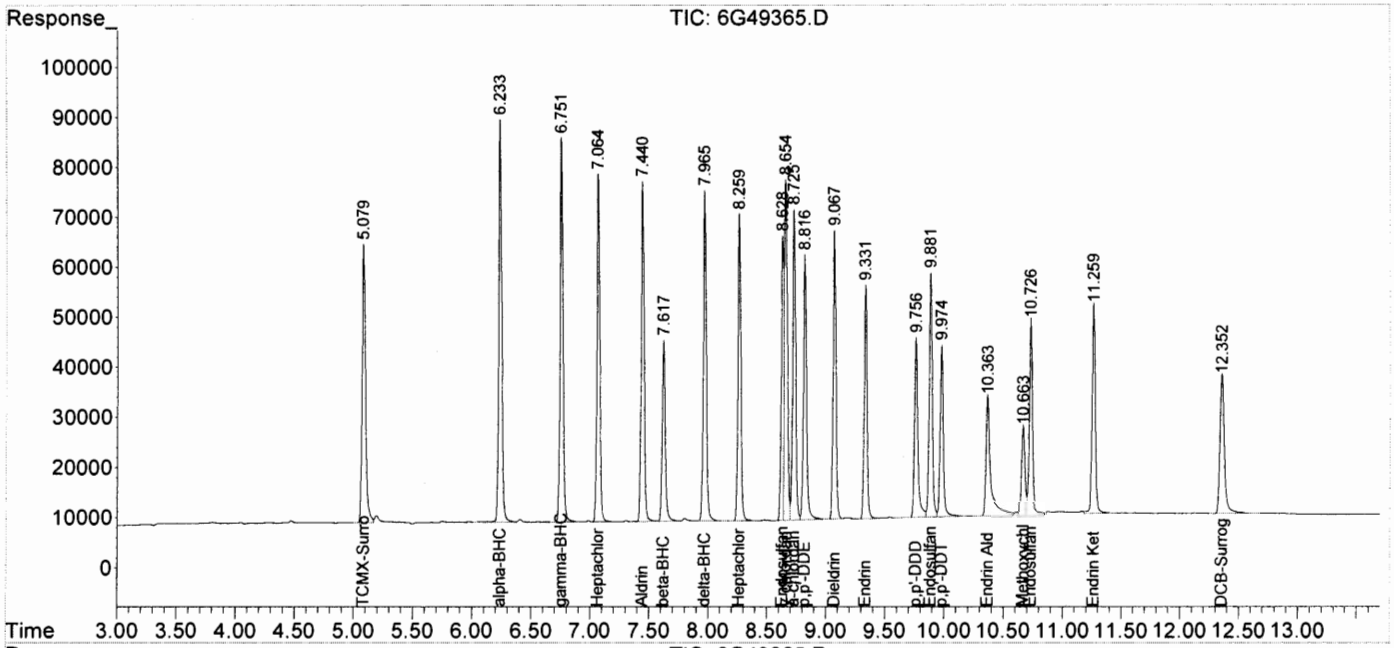
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

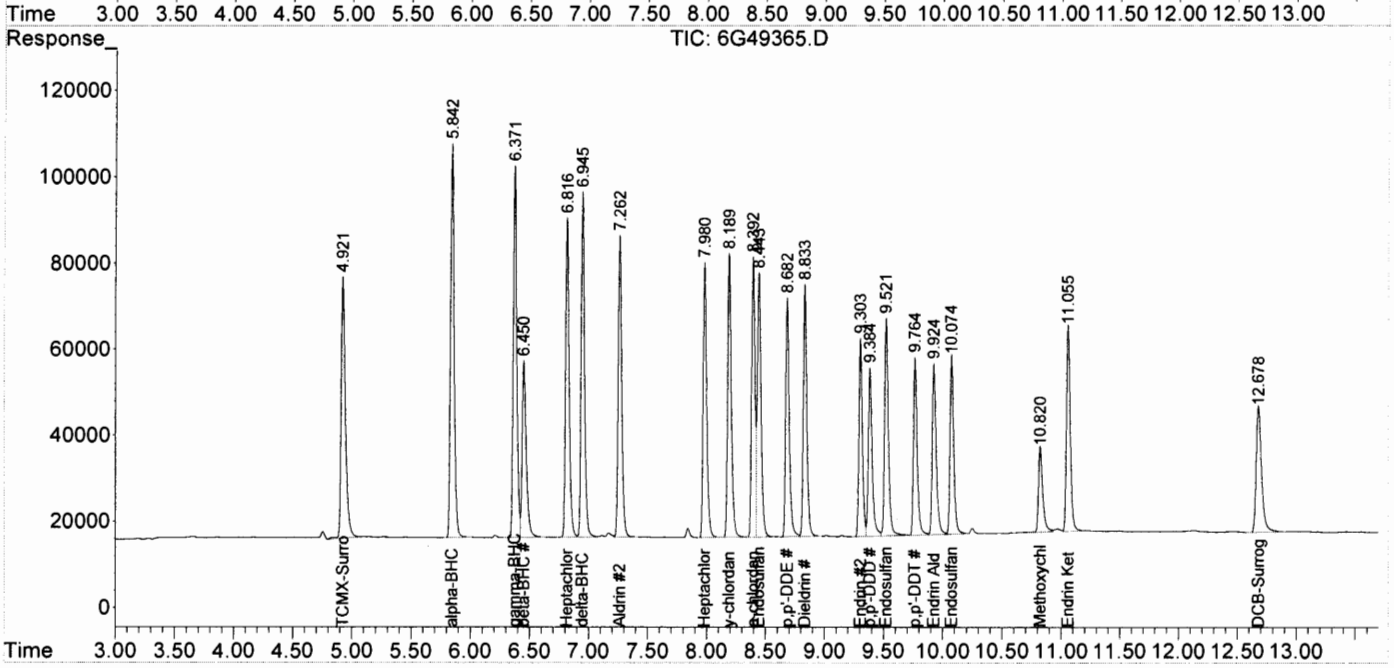
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49365.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 16:18
Operator : MLC/MAS
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Jun 02 12:00:09 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





GC Pesticide Data
Raw QC Data

Form1

ORGANICS PESTICIDE REPORT

Sample Number: WMB33880
Client Id:
Data File: 6G49174.D
Analysis Date: 05/23/14 09:35
Date Rec/Extracted: NA-05/22/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0020	U	7421-93-4	Endrin Aldehyde	0.0020	U
319-84-6	alpha-BHC	0.0020	U	53494-70-5	Endrin Ketone	0.0020	U
319-85-7	beta-BHC	0.0020	U	58-89-9	gamma-BHC	0.0020	U
57-74-9	Chlordane	0.020	U	76-44-8	Heptachlor	0.0020	U
319-86-8	delta-BHC	0.0020	U	1024-57-3	Heptachlor Epoxide	0.0020	U
60-57-1	Dieldrin	0.0020	U	72-43-5	Methoxychlor	0.0020	U
959-98-8	Endosulfan I	0.0020	U	72-54-8	p,p'-DDD	0.0020	U
33213-65-9	Endosulfan II	0.0020	U	72-55-9	p,p'-DDE	0.0020	U
1031-07-8	Endosulfan Sulfate	0.0020	U	50-29-3	p,p'-DDT	0.0020	U
72-20-8	Endrin	0.0020	U	8001-35-2	Toxaphene	0.050	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49174.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 9:35
Operator : MLC/MAS
Sample : WMB33880
Misc : A,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 12:58:56 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.090	4.926	883670	1062455	81.851	75.886
22)DCB-Surrogate	12.363	12.681	908049	1205151	97.952	105.132

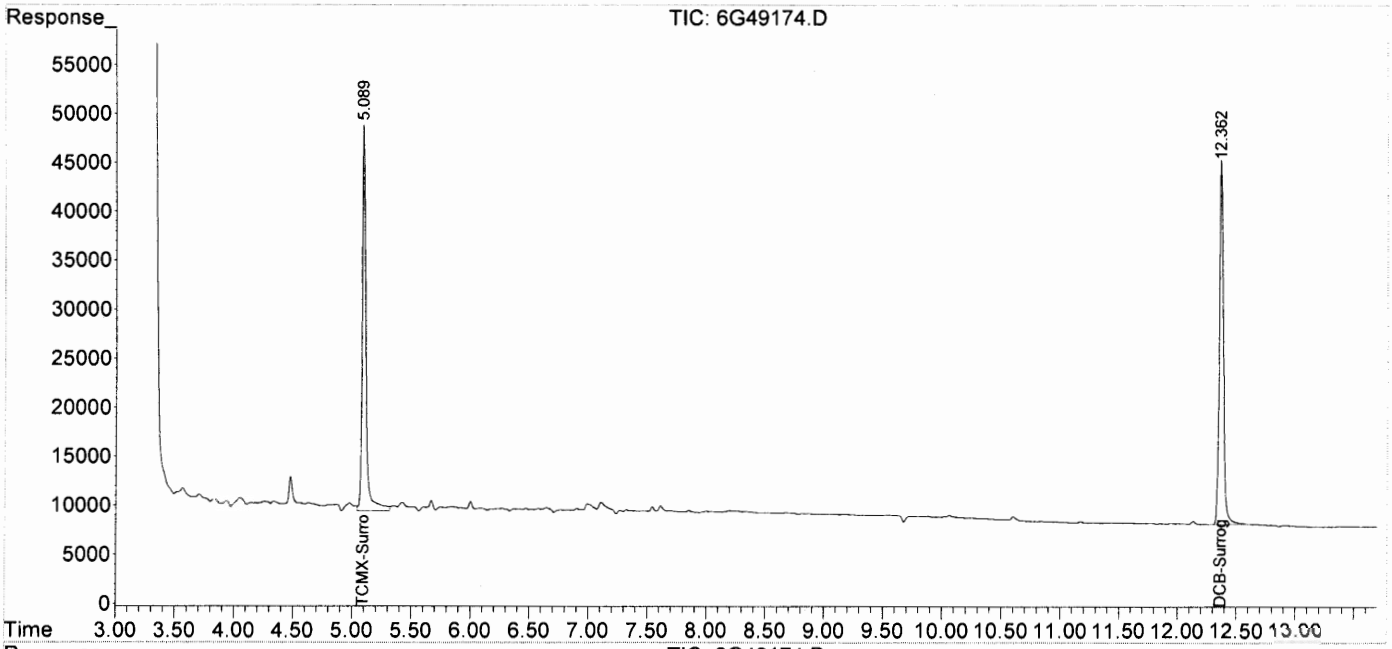
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

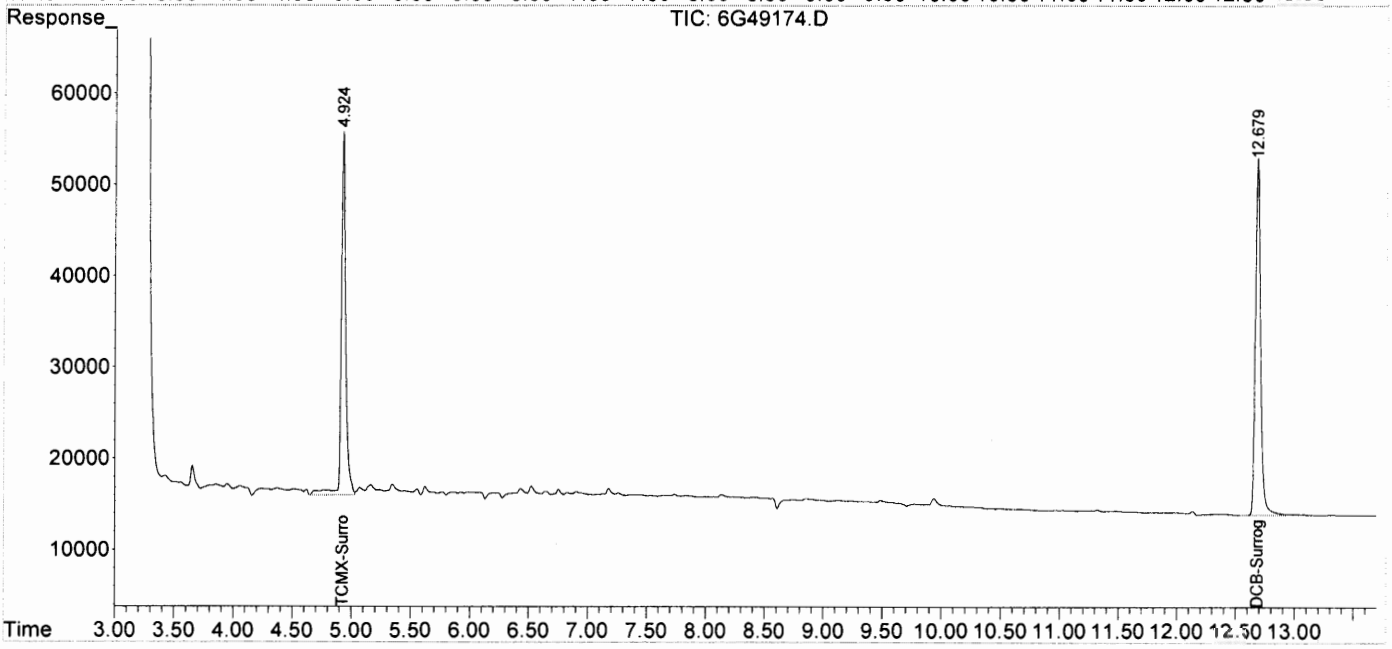
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49174.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 9:35
Operator : MLC/MAS
Sample : WMB33880
Misc : A,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 12:58:56 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: SMB33930
Client Id:
Data File: 6G49281.D
Analysis Date: 05/29/14 00:28
Date Rec/Extracted: NA-05/28/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0050	U	7421-93-4	Endrin Aldehyde	0.0050	U
319-84-6	alpha-BHC	0.0010	U	53494-70-5	Endrin Ketone	0.0050	U
319-85-7	beta-BHC	0.0010	U	58-89-9	gamma-BHC	0.0010	U
57-74-9	Chlordane	0.025	U	76-44-8	Heptachlor	0.0050	U
319-86-8	delta-BHC	0.0050	U	1024-57-3	Heptachlor Epoxide	0.0050	U
60-57-1	Dieldrin	0.0010	U	72-43-5	Methoxychlor	0.0050	U
959-98-8	Endosulfan I	0.0050	U	72-54-8	p,p'-DDD	0.0025	U
33213-65-9	Endosulfan II	0.0050	U	72-55-9	p,p'-DDE	0.0025	U
1031-07-8	Endosulfan Sulfate	0.0050	U	50-29-3	p,p'-DDT	0.0025	U
72-20-8	Endrin	0.0050	U	8001-35-2	Toxaphene	0.025	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-29-14\
Data File : 6G49281.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 00:28
Operator : MLC/MAS
Sample : SMB33930
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 29 09:53:49 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

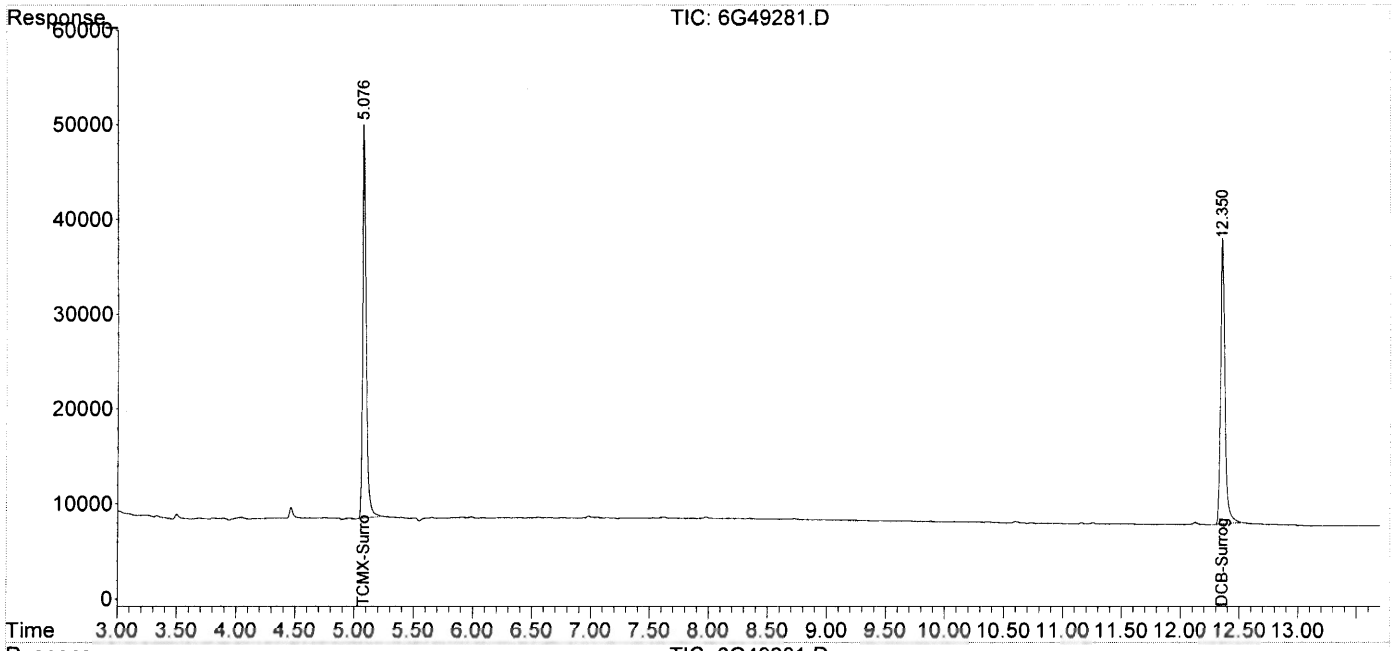
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.077	4.920	852742	986241	78.877	70.358
22)DCB-Surrogate	12.351	12.678	778064	915858	83.136	79.112

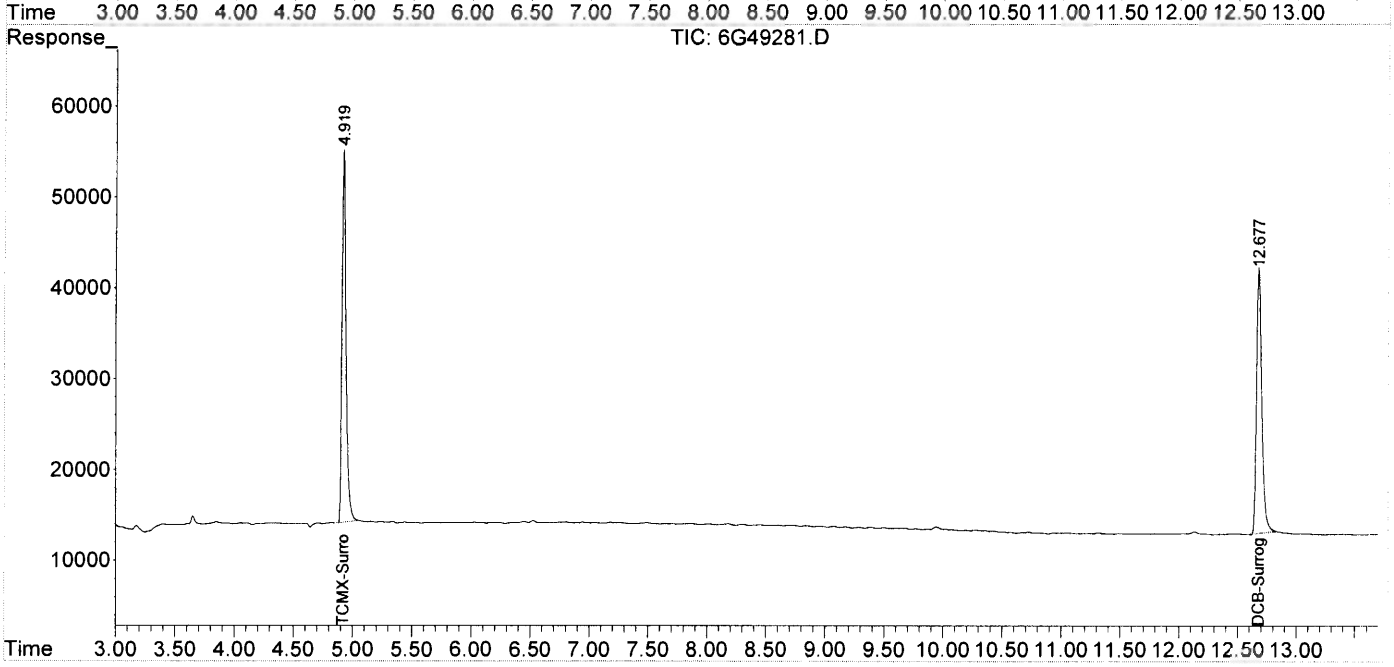
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_6\Data\05-29-14\
Data File : 6G49281.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 00:28
Operator : MLC/MAS
Sample : SMB33930
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 29 09:53:49 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: SMB33933
Client Id:
Data File: 6G49323.D
Analysis Date: 05/30/14 00:46
Date Rec/Extracted: NA-05/29/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0050	U	7421-93-4	Endrin Aldehyde	0.0050	U
319-84-6	alpha-BHC	0.0010	U	53494-70-5	Endrin Ketone	0.0050	U
319-85-7	beta-BHC	0.0010	U	58-89-9	gamma-BHC	0.0010	U
57-74-9	Chlordane	0.025	U	76-44-8	Heptachlor	0.0050	U
319-86-8	delta-BHC	0.0050	U	1024-57-3	Heptachlor Epoxide	0.0050	U
60-57-1	Dieldrin	0.0010	U	72-43-5	Methoxychlor	0.0050	U
959-98-8	Endosulfan I	0.0050	U	72-54-8	p,p'-DDD	0.0025	U
33213-65-9	Endosulfan II	0.0050	U	72-55-9	p,p'-DDE	0.0025	U
1031-07-8	Endosulfan Sulfate	0.0050	U	50-29-3	p,p'-DDT	0.0025	U
72-20-8	Endrin	0.0050	U	8001-35-2	Toxaphene	0.025	U

Worksheet #: 304445

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49323.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 00:46
Operator : MLC/MAS
Sample : SMB33933
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:54:45 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.077	4.920	1037153	1245239	96.739	89.200
22)DCB-Surrogate	12.352	12.678	933642	1136487	100.904	98.908

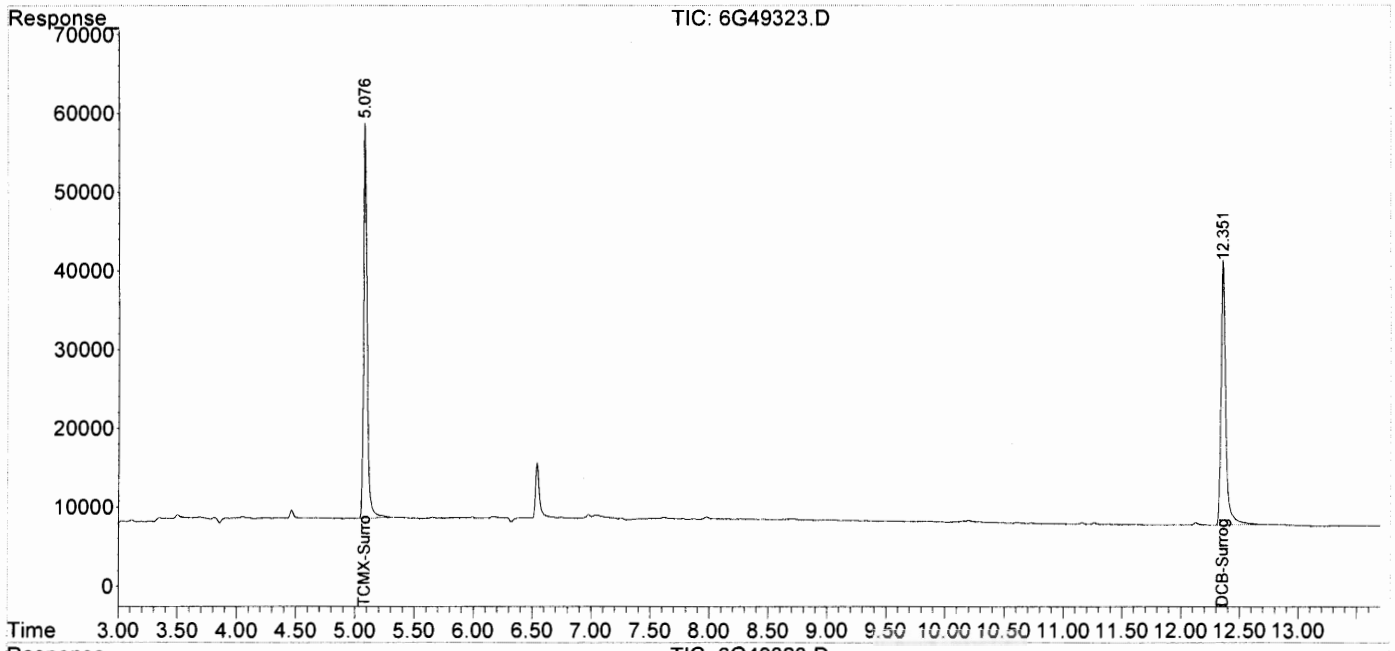
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

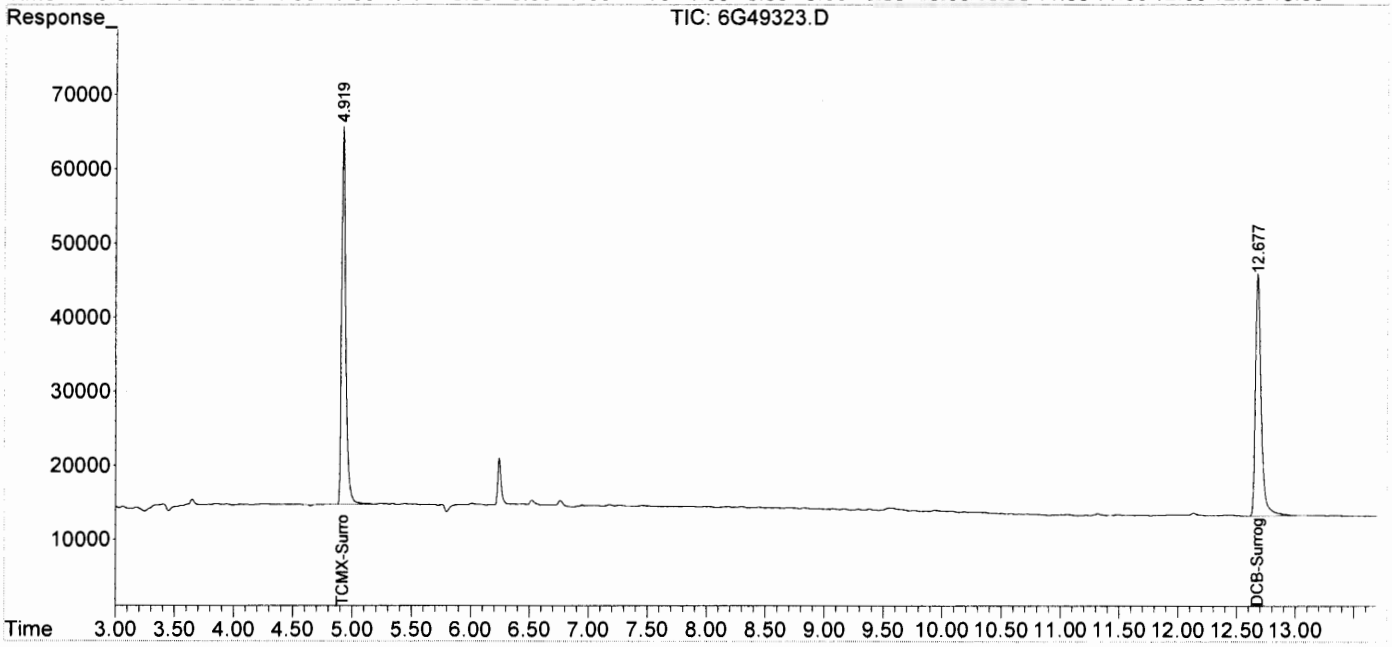
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49323.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 00:46
Operator : MLC/MAS
Sample : SMB33933
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:54:45 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data
QC Batch: WMB30773

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G51677.D	WMB30773(MS)	5/6/2014 10:41:23 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	84.01	0	100	84	50	130
gamma-BHC	2	86.48	0	100	86	50	130
beta-BHC	2	86.86	0	100	87	50	130
Heptachlor	2	86.69	0	100	87	50	130
delta-BHC	2	90.46	0	100	90	50	130
Aldrin	2	84.93	0	100	85	70	130
Heptachlor Epoxide	2	89.67	0	100	90	70	130
Endosulfan I	2	93.05	0	100	93	70	130
p,p'-DDE	2	93.59	0	100	94	70	130
Dieldrin	2	95.74	0	100	96	70	130
Endrin	2	102.02	0	100	102	70	130
p,p'-DDD	2	98.39	0	100	98	70	130
Endosulfan II	2	95.44	0	100	95	70	130
p,p'-DDT	2	102.63	0	100	103	70	130
Endrin Aldehyde	2	92.34	0	100	92	50	130
Endosulfan Sulfate	2	92.84	0	100	93	70	130
Methoxychlor	2	95.15	0	100	95	50	130
Endrin Ketone	2	101.76	0	100	102	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-06-14\
Data File : 5G51677.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06-May-14, 10:41:23
Operator : MAS/MLC
Sample : WMB30773(MS)
Misc : A,PEST
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 06 16:30:20 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.207	6.074	144.5E6	105.3E6	63.825	61.683
2)alpha-BHC	7.467	7.079	276.7E6	206.5E6	90.197	84.009
3)gamma-BHC	7.989	7.616	257.2E6	189.5E6	90.462	86.476
4)beta-BHC	8.873	7.705	112.0E6	94757336	95.459	86.860
5)Heptachlor	8.272	8.049	209.9E6	155.5E6	89.502	86.690
6)delta-BHC	9.194	8.191	232.6E6	192.0E6	93.252	90.462
7)Aldrin	8.630	8.481	229.4E6	163.0E6	89.530	84.931
8)Heptachlor Epoxid	9.438	9.185	211.7E6	148.6E6	95.216	89.670
9)y-chlordane	9.819	9.384	225.6E6	164.2E6	100.458	91.943
10)a-chlordane	9.884	9.581	214.5E6	150.4E6	99.943	93.835
11)Endosulfan I	9.779	9.624	195.4E6	160.1E6	97.018	93.047
12)p,p'-DDE	9.972	9.868	216.8E6	153.5E6	99.908	93.592
13)Dieldrin	10.204	9.997	220.5E6	158.9E6	103.076	95.745
14)Endrin	10.449	10.442	171.6E6	118.0E6	108.837	102.022
15)p,p'-DDD	10.871	10.531	178.1E6	133.8E6	100.911	98.393
16)Endosulfan II	10.983	10.651	185.1E6	135.6E6	101.171	95.440
17)p,p'-DDT	11.071	10.890	168.0E6	130.0E6	109.176	102.626
18)Endrin Aldehyde	11.447	11.033	131.6E6	107.2E6	99.476	92.335
19)Endosulfan Sulfat	11.794	11.176	151.3E6	118.9E6	95.652	92.843
20)Methoxychlor	11.724	11.890	80631886	54313667	100.174	95.148
21)Endrin Ketone	12.274	12.094	171.8E6	141.1E6	102.911	101.762
22)DCB-Surrogate	13.180	13.493	165.0E6	128.8E6	98.703	98.342

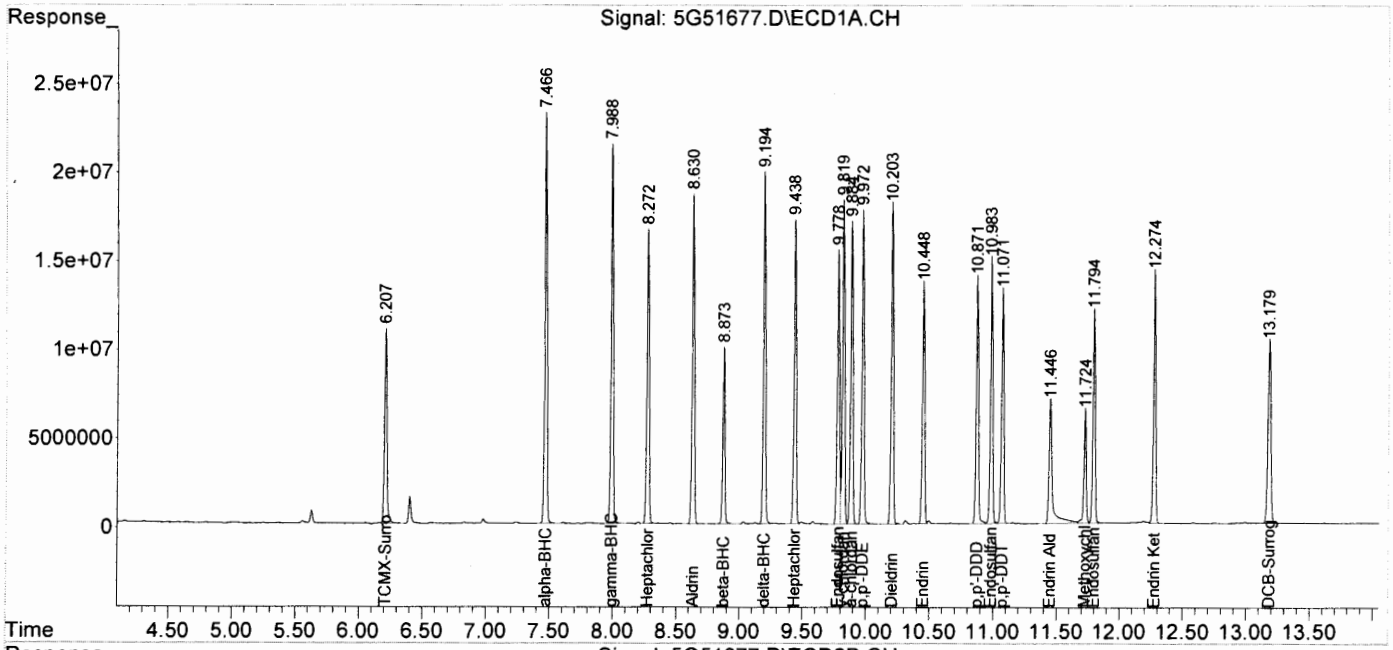
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

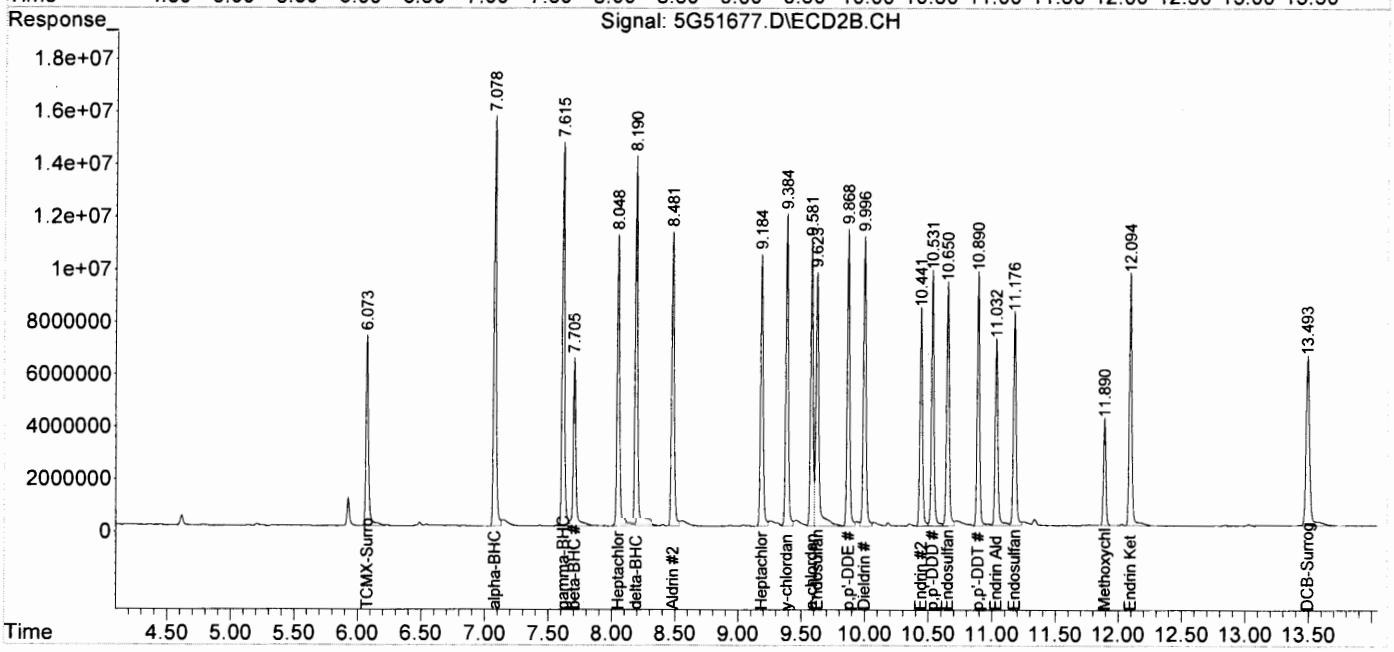
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-06-14\
Data File : 5G51677.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06-May-14, 10:41:23
Operator : MAS/MLC
Sample : WMB30773(MS)
Misc : A,PEST
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 06 16:30:20 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data
QC Batch: WMB33880

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G49175.D	WMB33880(MS)	5/23/2014 9:52:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	71.64	0	100	72	50	130
gamma-BHC	2	79.22	0	100	79	50	130
beta-BHC	2	83.62	0	100	84	50	130
Heptachlor	2	72.65	0	100	73	50	130
delta-BHC	2	75.99	0	100	76	50	130
Aldrin	2	69.59	0	100	70	70	130
Heptachlor Epoxide	2	80.34	0	100	80	70	130
Endosulfan I	2	82.53	0	100	83	70	130
p,p'-DDE	2	85.34	0	100	85	70	130
Dieldrin	2	89.12	0	100	89	70	130
Endrin	2	96.59	0	100	97	70	130
p,p'-DDD	2	92.39	0	100	92	70	130
Endosulfan II	2	98.97	0	100	99	70	130
p,p'-DDT	2	98.97	0	100	99	70	130
Endrin Aldehyde	2	91.18	0	100	91	50	130
Endosulfan Sulfate	2	103.48	0	100	103	70	130
Methoxychlor	2	106.99	0	100	107	50	130
Endrin Ketone	2	95.46	0	100	95	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49175.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 9:52
Operator : MLC/MAS
Sample : WMB33880(MS)
Misc : A,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 12:59:06 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.080	4.921	729379	872966	67.098	62.166
2)alpha-BHC	6.235	5.843	1072101	1298106	81.812	71.639
3)gamma-BHC	6.755	6.371	1022622	1237629	80.621	79.218
4)beta-BHC	7.623	6.450	581744	787343	85.304	83.618
5)Heptachlor	7.066	6.816	865746	903181	74.921	72.645
6)delta-BHC	7.970	6.946	983201	1229236	85.714	75.990
7)Aldrin	7.442	7.262	847267	982020	73.118	69.586
8)Heptachlor Epoxid	8.263	7.981	894815	1067951	81.808	80.344
9)y-chlordane	8.659	8.190	1076772	1187830	91.482	81.999
10)a-chlordane	8.729	8.394	973859	1103867	95.018	85.575
11)Endosulfan I	8.631	8.444	713363	1130045	81.323	82.526
12)p,p'-DDE	8.820	8.684	912886	1010916	91.477	85.336
13)Dieldrin	9.071	8.833	926042	1096427	90.907	89.125
14)Endrin	9.334	9.303	766584	838000	101.135	96.592
15)p,p'-DDD	9.762	9.385	779767	902377	99.621	92.388
16)Endosulfan II	9.885	9.521	958101	1159043	98.256	98.974
17)p,p'-DDT	9.979	9.765	749383	926814	104.319	98.973
18)Endrin Aldehyde	10.368	9.924	726891	893901	90.577	91.178
19)Endosulfan Sulfat	10.732	10.075	855707	993512	99.127	103.482
20)Methoxychlor	10.668	10.822	378940	498168	107.717	106.990
21)Endrin Ketone	11.265	11.057	883924	1049402	97.553	95.463
22)DCB-Surrogate	12.357	12.681	887346	1142061	95.572	99.412

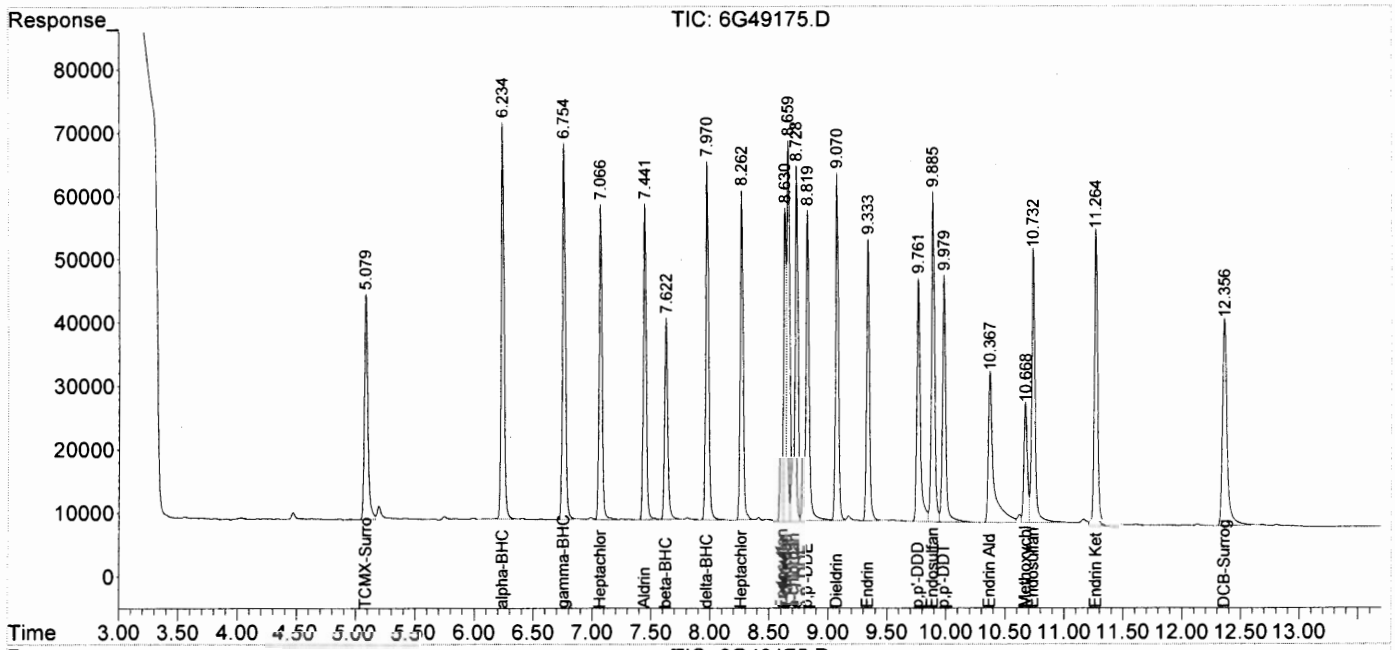
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

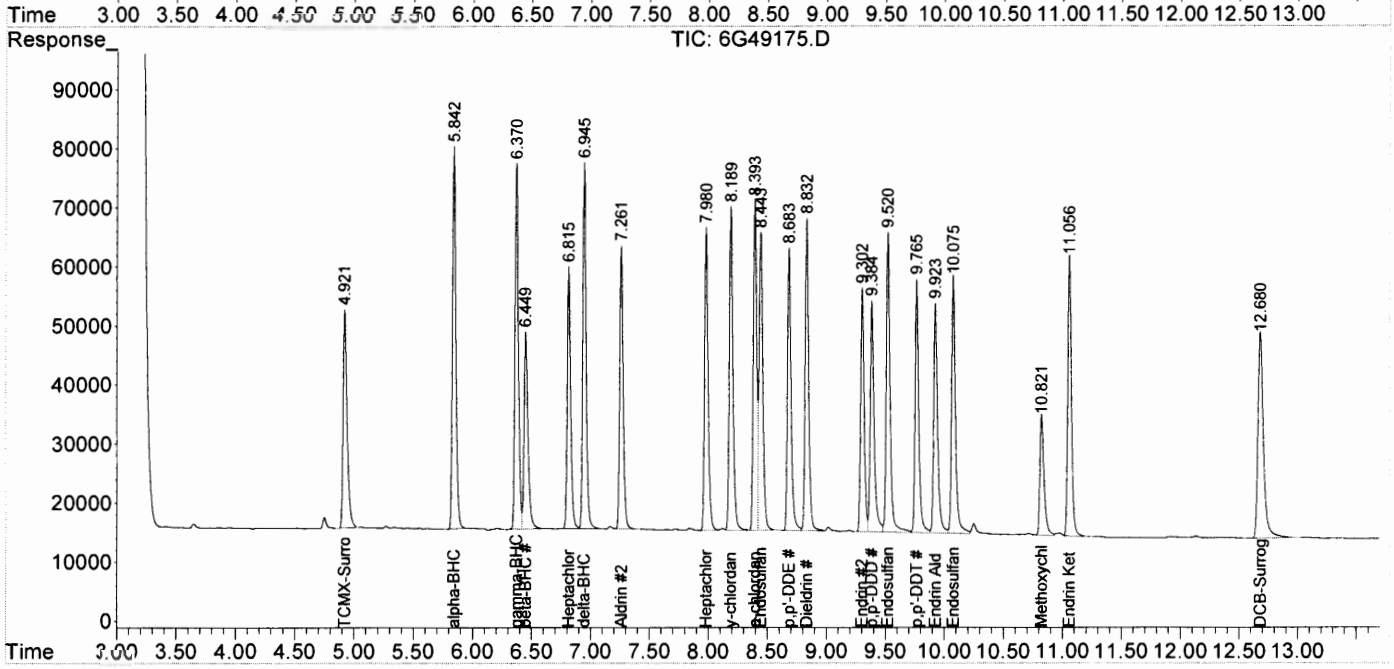
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-23-14\
Data File : 6G49175.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 May 2014 9:52
Operator : MLC/MAS
Sample : WMB33880(MS)
Misc : A,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 23 12:59:06 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data
QC Batch: SMB33930

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G49282.D	SMB33930(MS)	5/29/2014 12:45:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	82.96	0	100	83	60	130
gamma-BHC	2	92.11	0	100	92	60	130
beta-BHC	2	90.47	0	100	90	60	130
Heptachlor	2	92.63	0	100	93	60	130
delta-BHC	2	79.78	0	100	80	60	130
Aldrin	2	87.07	0	100	87	70	130
Heptachlor Epoxide	2	89.13	0	100	89	70	130
Endosulfan I	2	91.26	0	100	91	70	130
p,p'-DDE	2	91.14	0	100	91	70	130
Dieldrin	2	93.27	0	100	93	70	130
Endrin	2	106.43	0	100	106	70	130
p,p'-DDD	2	89.3	0	100	89	70	130
Endosulfan II	2	94.01	0	100	94	70	130
p,p'-DDT	2	92.97	0	100	93	70	130
Endrin Aldehyde	2	75.33	0	100	75	10	130
Endosulfan Sulfate	2	87.28	0	100	87	70	130
Methoxychlor	2	101.64	0	100	102	60	130
Endrin Ketone	2	93.22	0	100	93	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

4052101 1373

Data Path : G:\Gcdata\2014\GC_6\Data\05-29-14\
Data File : 6G49282.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 00:45
Operator : MLC/MAS
Sample : SMB33930(MS)
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 29 09:59:32 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.078	4.921	873120	1062589	80.835	75.896
2)alpha-BHC	6.232	5.842	1276153	1505054	97.383	82.960
3)gamma-BHC	6.750	6.371	1209714	1439069	95.370	92.112
4)beta-BHC	7.617	6.449	643309	851818	94.783	90.466
5)Heptachlor	7.063	6.816	1114349	1151588	97.460	92.625
6)delta-BHC	7.965	6.945	1069074	1290542	93.200	79.780
7)Aldrin	7.438	7.262	1091415	1228791	94.188	87.073
8)Heptachlor Epoxid	8.259	7.980	1045387	1184740	96.287	89.130
9)y-chlordane	8.655	8.190	1241038	1313488	105.438	90.673
10)a-chlordane	8.725	8.393	1096914	1180676	107.024	91.529
11)Endosulfan I	8.627	8.443	802651	1249582	92.150	91.256
12)p,p'-DDE	8.816	8.683	1000827	1079698	100.289	91.142
13)Dieldrin	9.067	8.833	1008323	1147454	98.984	93.273
14)Endrin	9.330	9.303	878062	923339	116.754	106.429
15)p,p'-DDD	9.756	9.384	775215	872231	99.039	89.302
16)Endosulfan II	9.881	9.521	944422	1100949	96.782	94.013
17)p,p'-DDT	9.974	9.765	722616	870581	100.525	92.968
18)Endrin Aldehyde	10.363	9.925	637591	738567	79.449	75.334
19)Endosulfan Sulfat	10.727	10.075	807191	837946	93.507	87.279
20)Methoxychlor	10.664	10.821	383282	473551	108.995	101.643
21)Endrin Ketone	11.259	11.056	841157	1024690	92.655	93.215
22)DCB-Surrogate	12.351	12.678	798167	957069	85.408	82.786

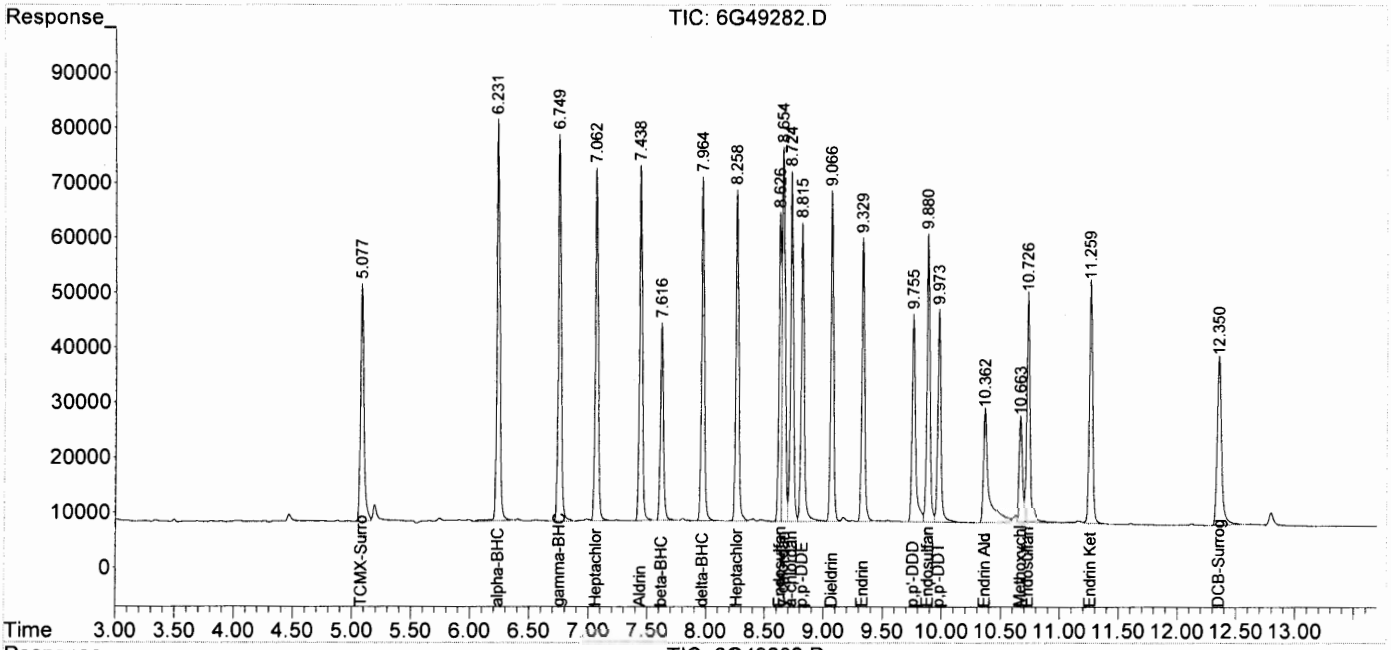
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

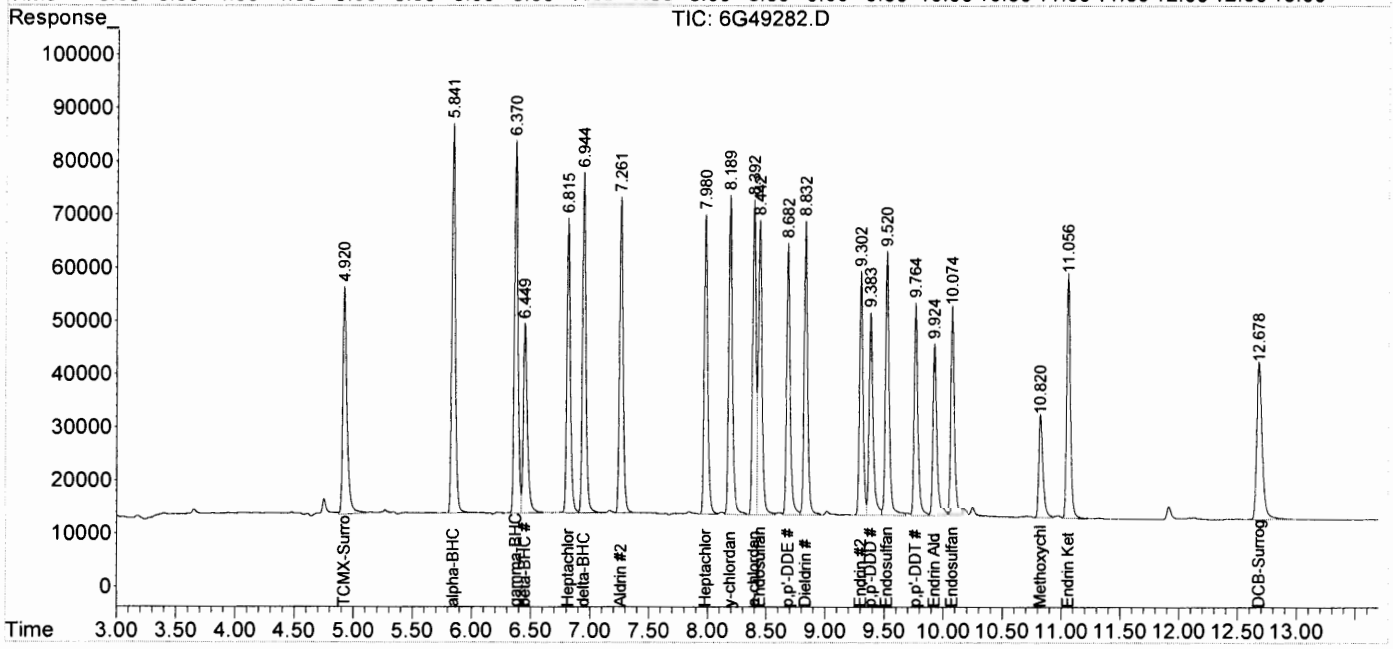
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-29-14\
Data File : 6G49282.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 May 2014 00:45
Operator : MLC/MAS
Sample : SMB33930(MS)
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 29 09:59:32 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data
QC Batch: SMB33933

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G49326.D	SMB33933(MS)	5/30/2014 1:38:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	100.74	0	100	101	60	130
gamma-BHC	2	109.85	0	100	110	60	130
beta-BHC	2	107.41	0	100	107	60	130
Heptachlor	2	108.47	0	100	108	60	130
delta-BHC	2	96.54	0	100	97	60	130
Aldrin	2	103.83	0	100	104	70	130
Heptachlor Epoxide	2	104.2	0	100	104	70	130
Endosulfan I	2	107.57	0	100	108	70	130
p,p'-DDE	2	108.45	0	100	108	70	130
Dieldrin	2	110.71	0	100	111	70	130
Endrin	2	117.91	0	100	118	70	130
p,p'-DDD	2	103.93	0	100	104	70	130
Endosulfan II	2	111.1	0	100	111	70	130
p,p'-DDT	2	112.85	0	100	113	70	130
Endrin Aldehyde	2	45.2	0	100	45	10	130
Endosulfan Sulfate	2	107.65	0	100	108	70	130
Methoxychlor	2	119.2	0	100	119	60	130
Endrin Ketone	2	105.85	0	100	106	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49326.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 1:38
Operator : MLC/MAS
Sample : SMB33933(MS)
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:55:44 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.077	4.920	1044545	1305200	97.462	93.585
2)alpha-BHC	6.230	5.841	1443064	1831032	110.120	100.739
3)gamma-BHC	6.749	6.370	1388972	1716261	109.503	109.855
4)beta-BHC	7.615	6.449	740801	1011334	109.991	107.407
5)Heptachlor	7.062	6.814	1255474	1348541	110.482	108.467
6)delta-BHC	7.964	6.944	1204464	1561659	105.003	96.541
7)Aldrin	7.437	7.261	1237623	1465214	106.806	103.826
8)Heptachlor Epoxid	8.257	7.980	1179415	1385015	109.370	104.197
9)y-chlordane	8.652	8.189	1441881	1546972	122.501	106.791
10)a-chlordane	8.723	8.392	1250075	1394122	121.968	108.076
11)Endosulfan I	8.626	8.442	871012	1472911	100.553	107.565
12)p,p'-DDE	8.815	8.682	1157939	1284720	116.032	108.449
13)Dieldrin	9.065	8.832	1153518	1362012	113.238	110.713
14)Endrin	9.329	9.302	943491	1022957	126.044	117.912
15)p,p'-DDD	9.757	9.384	887985	1015146	113.446	103.934
16)Endosulfan II	9.880	9.520	1069178	1301051	110.305	111.100
17)p,p'-DDT	9.974	9.764	847444	1056759	118.262	112.849
18)Endrin Aldehyde	10.363	9.924	332651	443149	41.451	45.201
19)Endosulfan Sulfat	10.725	10.073	952801	1033553	110.375	107.653
20)Methoxychlor	10.664	10.822	409794	554293	116.824	119.204
21)Endrin Ketone	11.258	11.055	958959	1163602	106.193	105.852
22)DCB-Surrogate	12.351	12.678	934384	1111351	100.990	96.637

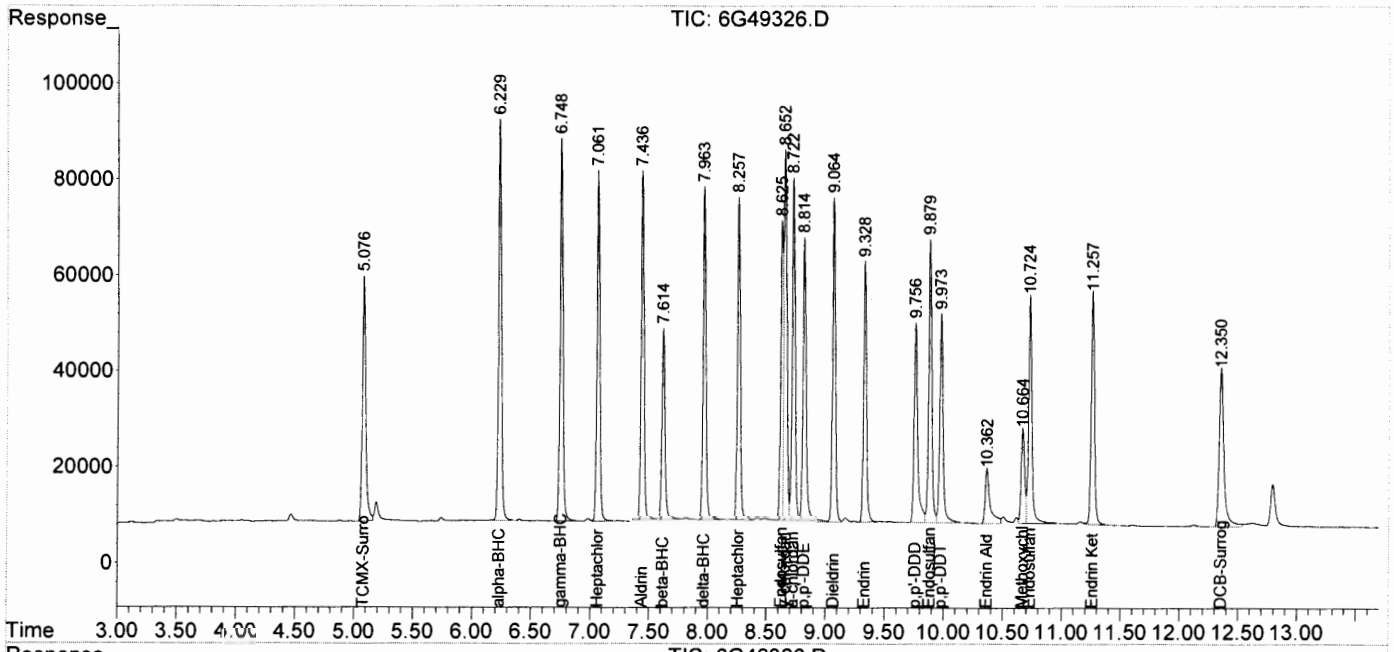
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

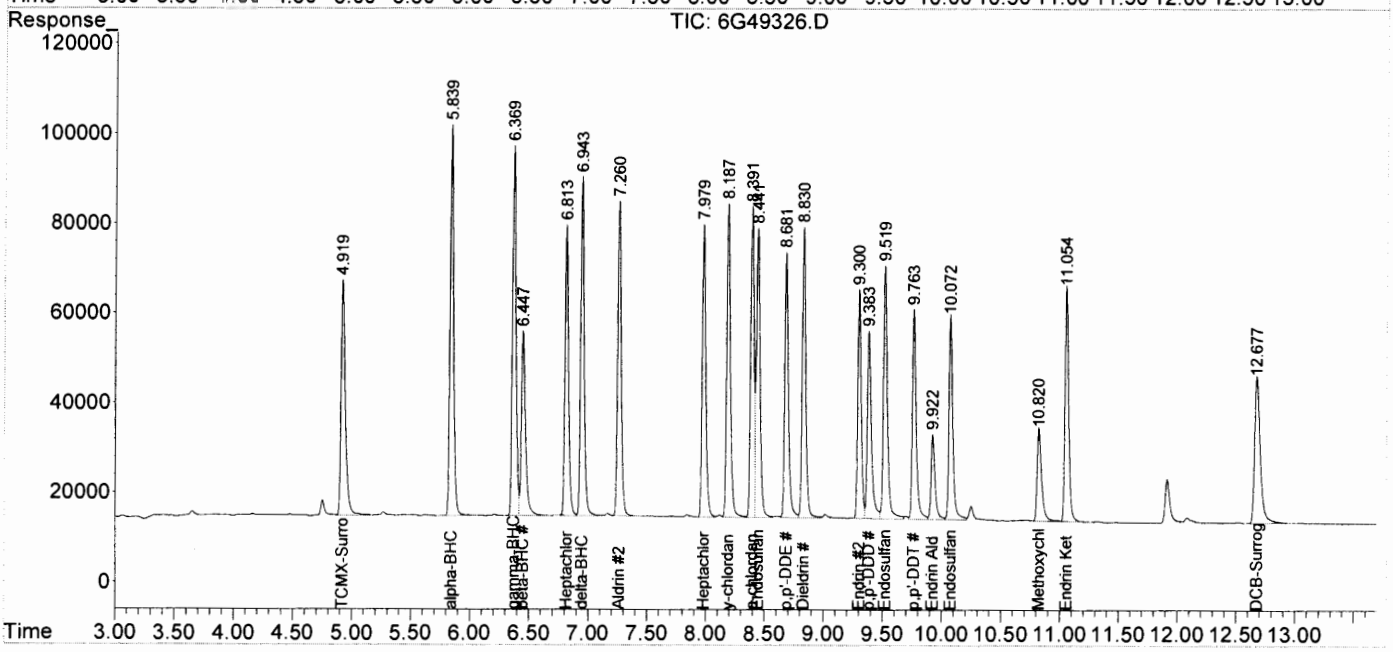
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49326.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 1:38
Operator : MLC/MAS
Sample : SMB33933(MS)
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:55:44 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data
QC Batch: WMB30773

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G51678.D	AC78482-005(MS)	5/6/2014 10:59:07 AM
Non Spike(If applicable):	5G51681.D	AC78482-005	5/6/2014 11:52:32 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	67.17	0	100	67	50	130
gamma-BHC	2	74.34	0	100	74	50	130
beta-BHC	2	64.23	0	100	64	50	130
Heptachlor	2	77.45	0	100	77	50	130
delta-BHC	2	79.61	0	100	80	50	130
Aldrin	2	73.49	0	100	73	70	130
Heptachlor Epoxide	2	77.97	0	100	78	70	130
Endosulfan I	2	77.72	0	100	78	70	130
p,p'-DDE	2	81.47	0	100	81	70	130
Dieldrin	2	111.45	0	100	111	70	130
Endrin	2	112.77	0	100	113	70	130
p,p'-DDD	2	85.36	0	100	85	70	130
Endosulfan II	2	81.36	0	100	81	70	130
p,p'-DDT	2	91.9	0	100	92	70	130
Endrin Aldehyde	2	70.29	0	100	70	50	130
Endosulfan Sulfate	2	78.82	0	100	79	70	130
Methoxychlor	2	98.5	0	100	98	50	130
Endrin Ketone	2	87.46	0	100	87	70	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G51679.D	AC78482-005(MSD)	5/6/2014 11:16:54 AM
Non Spike(If applicable):	5G51681.D	AC78482-005	5/6/2014 11:52:32 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	76.4	0	100	76	50	130
gamma-BHC	2	83.46	0	100	83	50	130
beta-BHC	2	73.93	0	100	74	50	130
Heptachlor	2	92.7	0	100	93	50	130
delta-BHC	2	92.45	0	100	92	50	130
Aldrin	2	83.67	0	100	84	70	130
Heptachlor Epoxide	2	87.48	0	100	87	70	130
Endosulfan I	2	86.16	0	100	86	70	130
p,p'-DDE	2	91.39	0	100	91	70	130
Dieldrin	2	127.98	0	100	128	70	130
Endrin	2	136.36	0	100	136 *	70	130
p,p'-DDD	2	104.65	0	100	105	70	130
Endosulfan II	2	99.09	0	100	99	70	130
p,p'-DDT	2	103.64	0	100	104	70	130
Endrin Aldehyde	2	80.07	0	100	80	50	130
Endosulfan Sulfate	2	89.39	0	100	89	70	130
Methoxychlor	2	112.59	0	100	113	50	130
Endrin Ketone	2	100.44	0	100	100	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: WMB30773

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G51679.D	AC78482-005(MSD)	5/6/2014 11:16:54 AM
Duplicate(If applicable):	5G51678.D	AC78482-005(MS)	5/6/2014 10:59:07 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	2	76.4	67.17	13	40
gamma-BHC	2	83.46	74.34	12	40
beta-BHC	2	73.93	64.23	14	40
Heptachlor	2	92.7	77.45	18	40
delta-BHC	2	92.45	79.61	15	40
Aldrin	2	83.67	73.49	13	40
Heptachlor Epoxide	2	87.48	77.97	11	40
Endosulfan I	2	86.16	77.72	10	40
p,p'-DDE	2	91.39	81.47	11	40
Dieldrin	2	127.98	111.45	14	40
Endrin	2	136.36	112.77	19	40
p,p'-DDD	2	104.65	85.36	20	40
Endosulfan II	2	99.09	81.36	20	40
p,p'-DDT	2	103.64	91.9	12	40
Endrin Aldehyde	2	80.07	70.29	13	40
Endosulfan Sulfate	2	89.39	78.82	13	40
Methoxychlor	2	112.59	98.5	13	40
Endrin Ketone	2	100.44	87.46	14	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-06-14\
Data File : 5G51678.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06-May-14, 10:59:07
Operator : MAS/MLC
Sample : AC78482-005(MS)
Misc : A,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 06 17:13:28 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
Target Compounds							
1)TCMX-Surrogate	6.207	6.074	118.5E6	80672164	52.325	47.248	
2)alpha-BHC	7.466	7.079	210.8E6	165.1E6	68.716	67.167	
3)gamma-BHC	7.987	7.615	240.4E6	162.9E6	84.531	74.339	
4)beta-BHC	8.871	7.705	93925482	70066856	80.076	64.227	
5)Heptachlor	8.271	8.049	189.3E6	138.9E6	80.723	77.445	
6)delta-BHC	9.192	8.191	199.5E6	169.0E6	79.958	79.609	
7)Aldrin	8.629	8.481	231.5E6	141.0E6	90.329	73.492	
8)Heptachlor Epoxid	9.438	9.184	184.6E6	129.2E6	83.028	77.970	
9)y-chlordane	9.819	9.384	175.6E6	125.5E6	78.167	70.307	
10)a-chlordane	9.884	9.581	181.4E6	127.2E6	84.550	79.390	
11)Endosulfan I	9.778	9.625	162.2E6	133.7E6	80.501	77.716	
12)p,p'-DDE	9.971	9.868	184.7E6	133.6E6	85.084	81.466	
13)Dieldrin	10.203	9.996	183.2E6	185.0E6	85.655	111.450	#
14)Endrin	10.448	10.441	167.3E6	130.4E6	106.082	112.767	
15)p,p'-DDD	10.870	10.531	149.4E6	116.1E6	84.654	85.355	
16)Endosulfan II	10.983	10.650	162.1E6	115.6E6	88.603	81.365	
17)p,p'-DDT	11.069	10.890	146.2E6	116.4E6	95.738	91.895	
18)Endrin Aldehyde	11.446	11.033	80865395	81637604	61.123	70.292	
19)Endosulfan Sulfat	11.793	11.175	135.1E6	100.9E6	85.411	78.815	
20)Methoxychlor	11.724	11.890	75844778	56227961	94.414	98.502	
21)Endrin Ketone	12.272	12.093	149.2E6	121.3E6	89.380	87.464	
22)DCB-Surrogate	13.180	13.493	101.4E6	71674988	60.650	54.733	

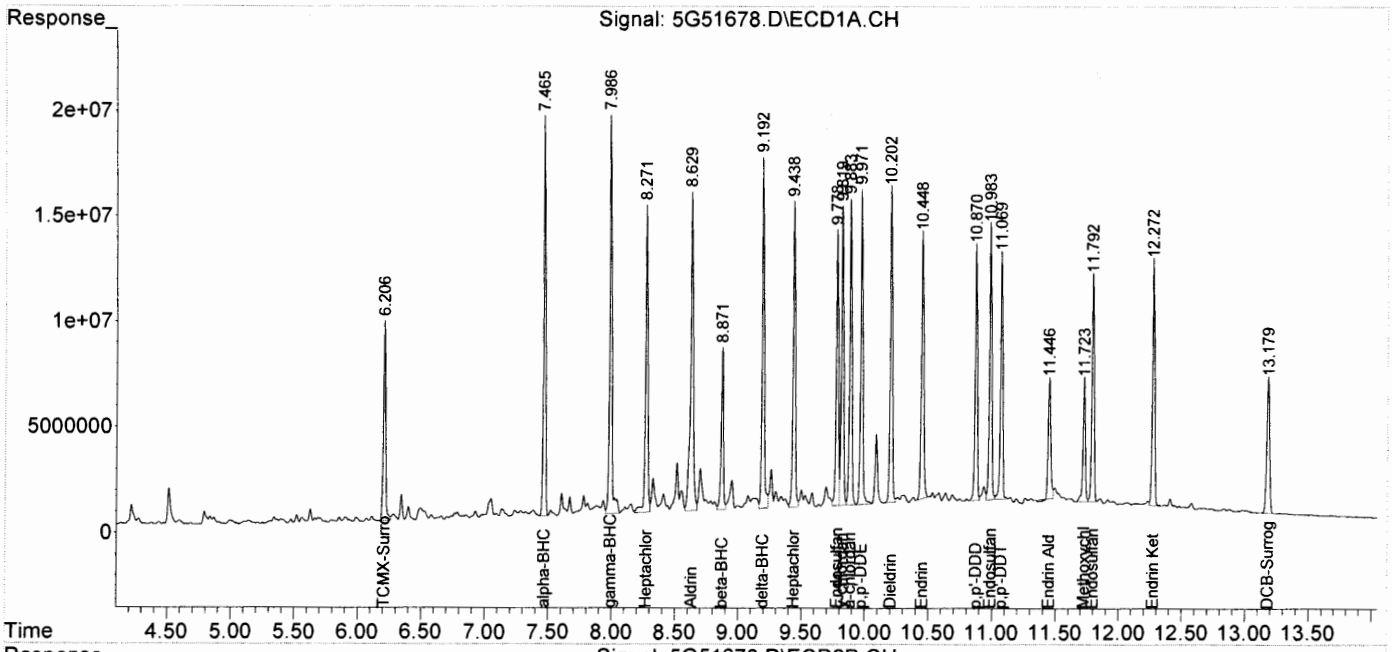
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

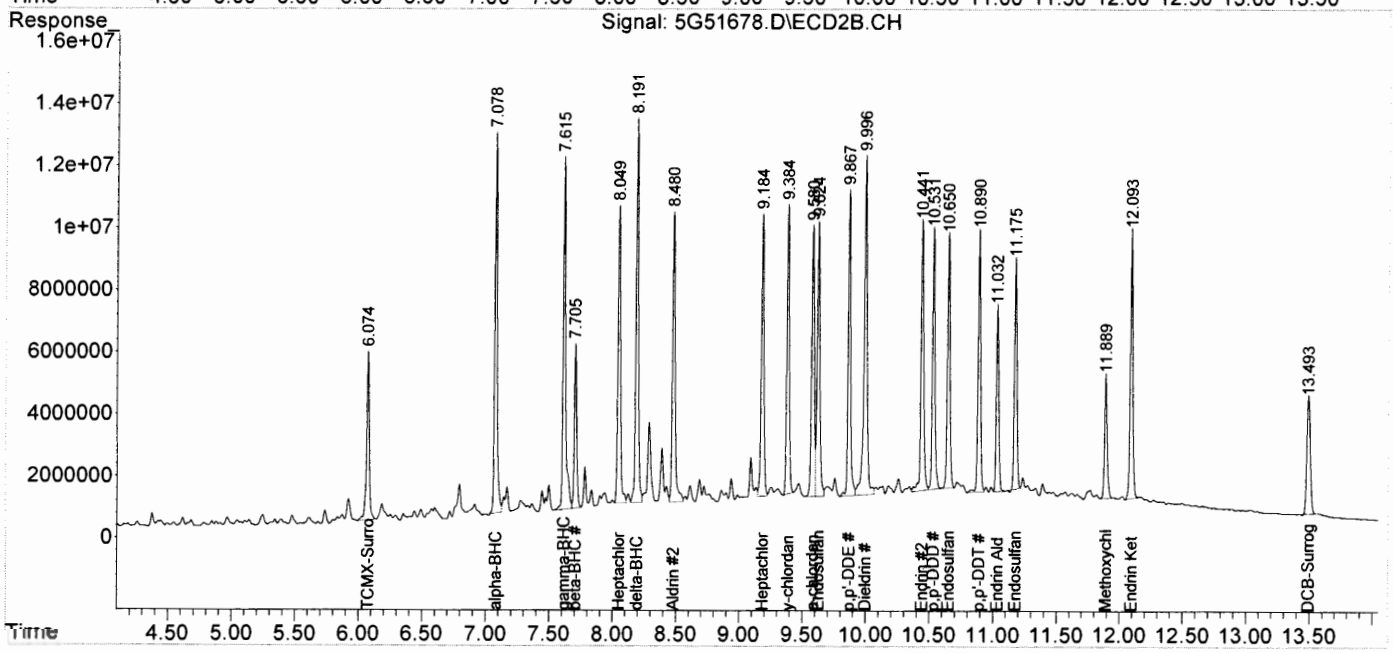
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-06-14\
Data File : 5G51678.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06-May-14, 10:59:07
Operator : MAS/MLC
Sample : AC78482-005(MS)
Misc : A,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 06 17:13:28 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

4052101 1382

Data Path : G:\Gcdata\2014\GC_5\Data\05-06-14\
Data File : 5G51679.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06-May-14, 11:16:54
Operator : MAS/MLC
Sample : AC78482-005(MSD)
Misc : A,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 06 17:13:49 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
Target Compounds							
1)TCMX-Surrogate	6.207	6.074	138.7E6	96445474	61.249	56.486	
2)alpha-BHC	7.466	7.079	234.5E6	187.8E6	76.416	76.398	
3)gamma-BHC	7.987	7.616	267.3E6	182.9E6	94.015	83.455	
4)beta-BHC	8.872	7.706	105.7E6	80655716	90.078	73.934	
5)Heptachlor	8.272	8.050	213.3E6	166.3E6	90.949	92.697	
6)delta-BHC	9.193	8.192	222.6E6	196.3E6	89.235	92.452	
7)Aldrin	8.630	8.482	260.0E6	160.6E6	101.445	83.673	
8)Heptachlor Epoxid	9.438	9.185	204.4E6	145.0E6	91.909	87.482	
9)y-chlordane	9.820	9.385	194.5E6	145.4E6	86.582	81.409	
10)a-chlordane	9.885	9.582	201.0E6	141.2E6	93.694	88.127	
11)Endosulfan I	9.778	9.625	179.5E6	148.3E6	89.117	86.163	
12)p,p'-DDE	9.971	9.868	203.8E6	149.9E6	93.888	91.389	
13)Dieldrin	10.203	9.997	203.7E6	212.4E6	95.226	127.985	#
14)Endrin	10.448	10.443	198.9E6	157.7E6	126.134	136.357	
15)p,p'-DDD	10.871	10.531	165.9E6	142.3E6	93.988	104.648	
16)Endosulfan II	10.983	10.650	179.3E6	140.8E6	98.040	99.089	
17)p,p'-DDT	11.070	10.891	163.7E6	131.2E6	106.526	103.643	
18)Endrin Aldehyde	11.446	11.033	91616610	92995350	69.249	80.071	
19)Endosulfan Sulfat	11.793	11.176	149.9E6	114.4E6	94.725	89.390	
20)Methoxychlor	11.723	11.890	85920733	64271678	106.512	112.593	
21)Endrin Ketone	12.273	12.094	166.0E6	139.3E6	99.437	100.442	
22)DCB-Surrogate	13.179	13.494	116.3E6	82003666	69.581	62.620	

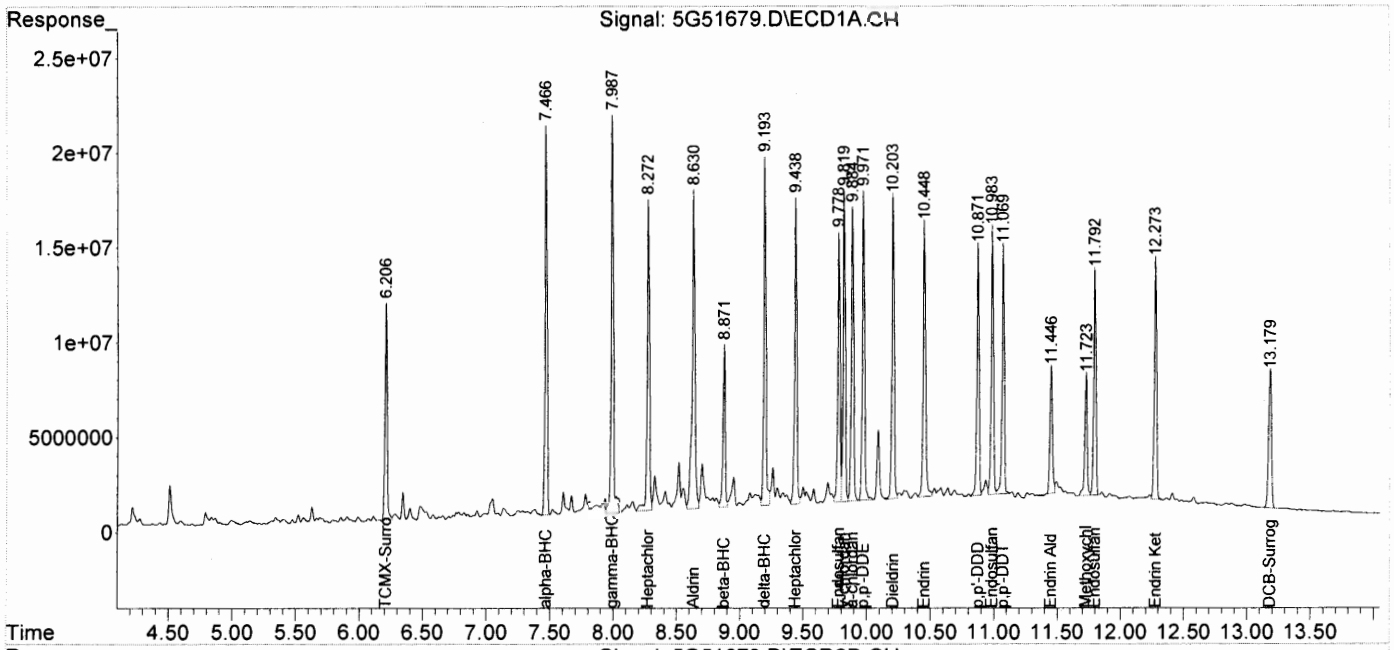
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

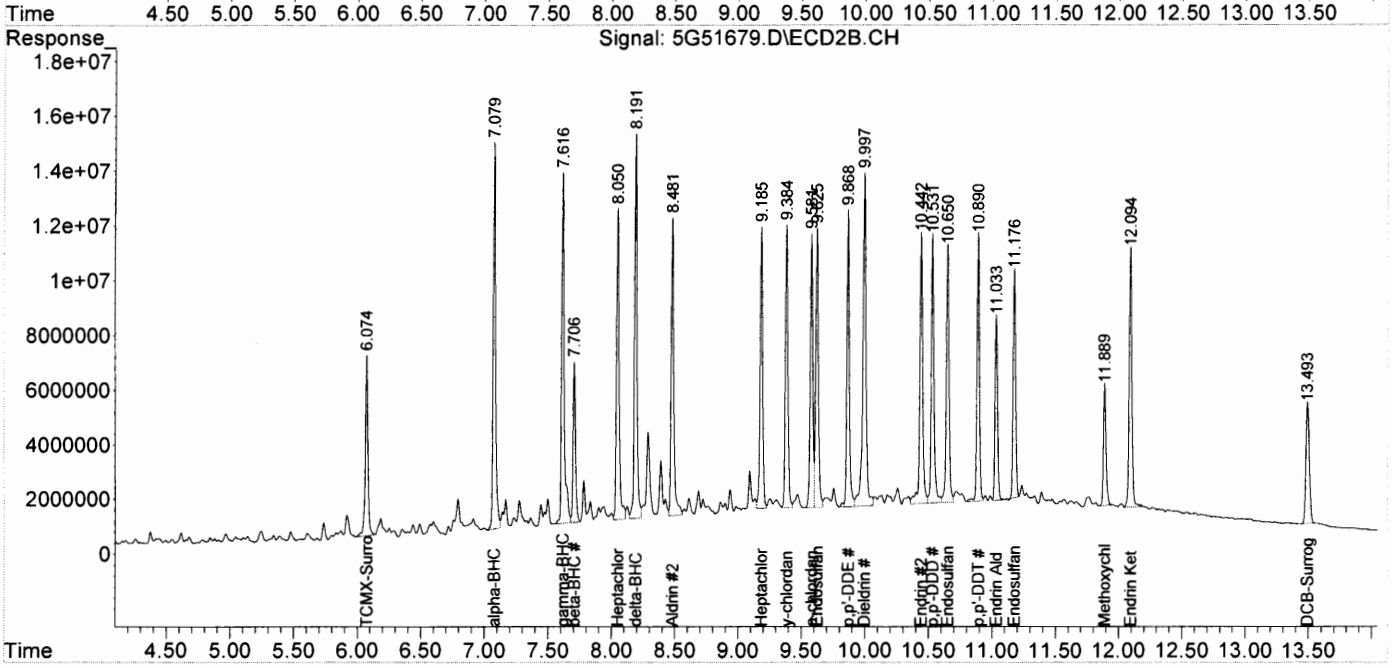
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-06-14\
Data File : 5G51679.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06-May-14, 11:16:54
Operator : MAS/MLC
Sample : AC78482-005(MSD)
Misc : A,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 06 17:13:49 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-06-14\
Data File : 5G51681.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06-May-14, 11:52:32
Operator : MAS/MLC
Sample : AC78482-005
Misc : A,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 06 17:09:03 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.207	6.074	120.6E6	81728111	53.276m	47.867m
22)DCB-Surrogate	13.180	13.494	111.3E6	78456124	66.548m	59.911m

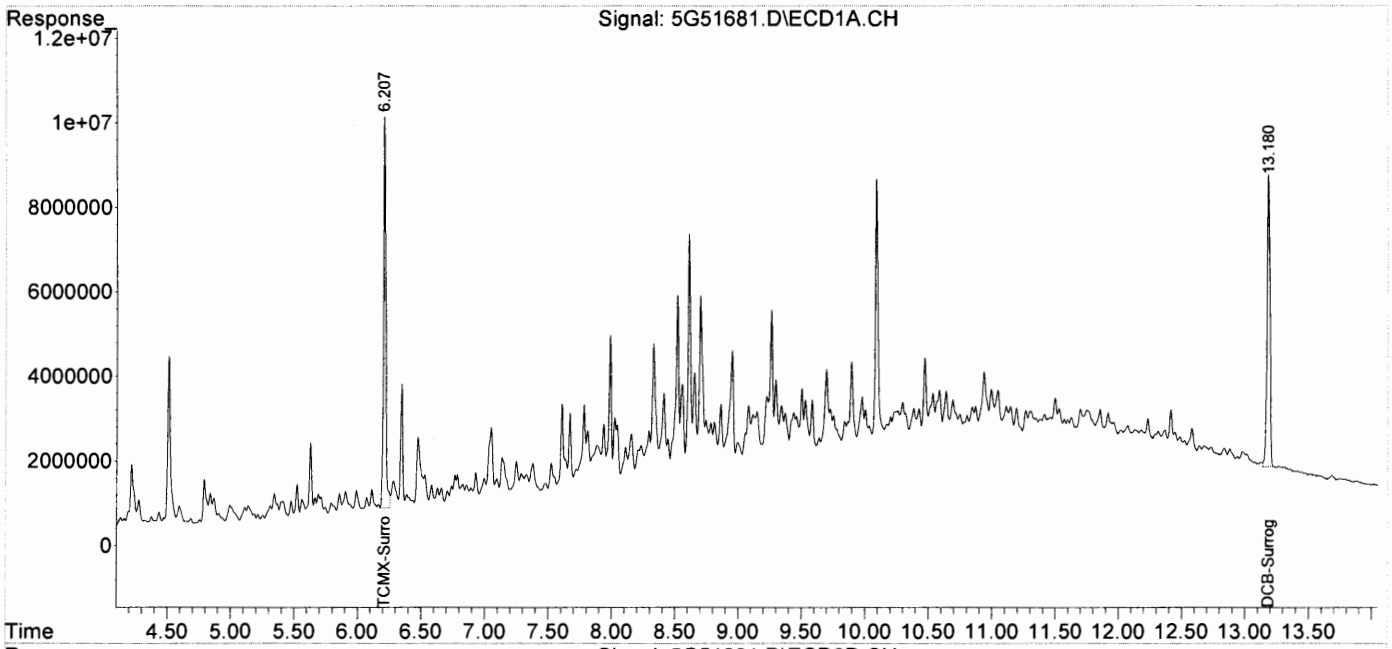
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

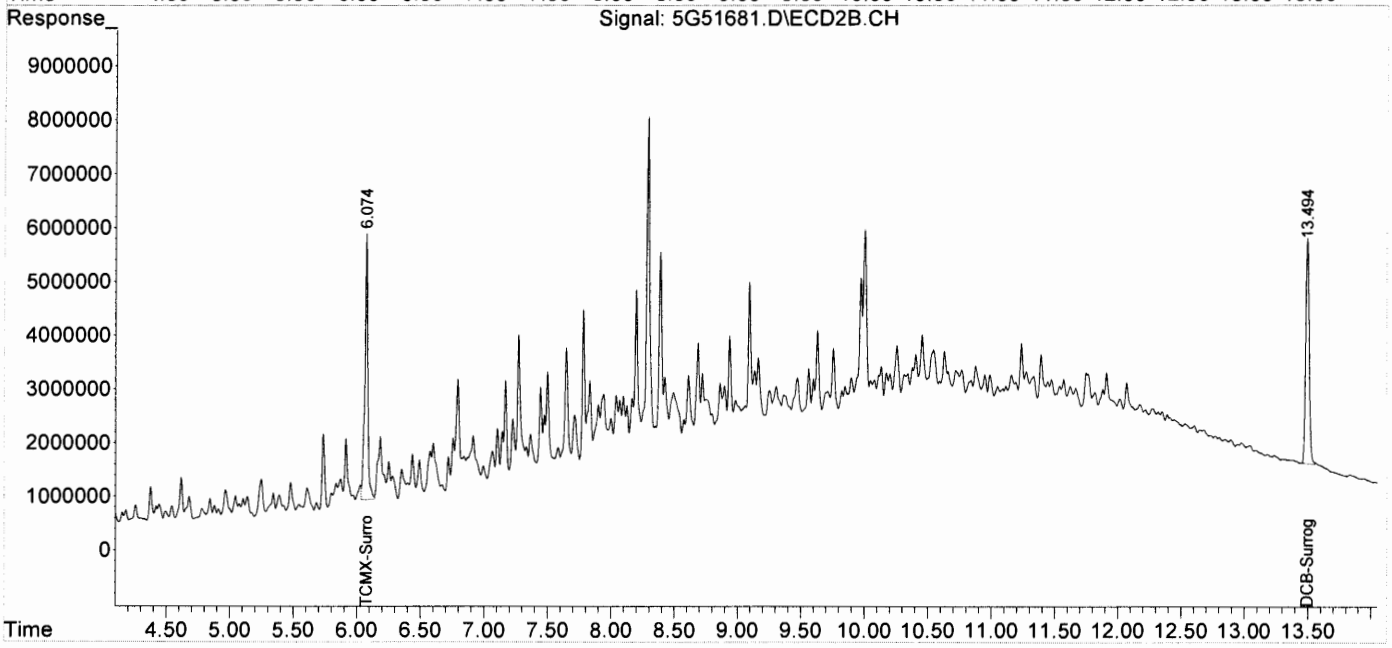
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-06-14\
Data File : 5G51681.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06-May-14, 11:52:32
Operator : MAS/MLC
Sample : AC78482-005
Misc : A,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 06 17:09:03 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0422.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Apr 22 13:37:18 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data
QC Batch: SMB33930

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G49346.D	AC78787-019(MS)	5/30/2014 10:08:00 AM
Non Spike(If applicable):	5G52101.D	AC78787-019	5/30/2014 10:54:51 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	90.9	0	100	91	60	130
gamma-BHC	2	102.86	0	100	103	60	130
beta-BHC	2	102.98	0	100	103	60	130
Heptachlor	2	112.39	0	100	112	60	130
delta-BHC	2	90.68	0	100	91	60	130
Aldrin	2	91.02	0	100	91	70	130
Heptachlor Epoxide	2	93.15	0	100	93	70	130
Endosulfan I	2	93.63	0	100	94	70	130
p,p'-DDE	2	91.26	0	100	91	70	130
Dieldrin	2	98.72	0	100	99	70	130
Endrin	2	115.32	0	100	115	70	130
p,p'-DDD	2	88.53	0	100	89	70	130
Endosulfan II	2	90.48	0	100	90	70	130
p,p'-DDT	2	93.62	0	100	94	70	130
Endrin Aldehyde	2	81.82	0	100	82	10	130
Endosulfan Sulfate	2	84.5	0	100	84	70	130
Methoxychlor	2	104.1	0	100	104	60	130
Endrin Ketone	2	92.77	0	100	93	70	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G49347.D	AC78787-019(MSD)	5/30/2014 10:25:00 AM
Non Spike(If applicable):	5G52101.D	AC78787-019	5/30/2014 10:54:51 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	84.08	0	100	84	60	130
gamma-BHC	2	94.03	0	100	94	60	130
beta-BHC	2	97.8	0	100	98	60	130
Heptachlor	2	104.19	0	100	104	60	130
delta-BHC	2	81.33	0	100	81	60	130
Aldrin	2	80.96	0	100	81	70	130
Heptachlor Epoxide	2	83.64	0	100	84	70	130
Endosulfan I	2	82.12	0	100	82	70	130
p,p'-DDE	2	79.93	0	100	80	70	130
Dieldrin	2	98.09	0	100	98	70	130
Endrin	2	103.49	0	100	103	70	130
p,p'-DDD	2	78.21	0	100	78	70	130
Endosulfan II	2	83.41	0	100	83	70	130
p,p'-DDT	2	85.73	0	100	86	70	130
Endrin Aldehyde	2	76.74	0	100	77	10	130
Endosulfan Sulfate	2	79.4	0	100	79	70	130
Methoxychlor	2	86.73	0	100	87	60	130
Endrin Ketone	2	82.76	0	100	83	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: SMB33930

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G49347.D	AC78787-019(MSD)	5/30/2014 10:25:00 AM
Duplicate(If applicable):	6G49346.D	AC78787-019(MS)	5/30/2014 10:08:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	2	84.08	90.9	7.8	40
gamma-BHC	2	94.03	102.86	9	40
beta-BHC	2	97.8	102.98	5.2	40
Heptachlor	2	104.19	112.39	7.6	40
delta-BHC	2	81.33	90.68	11	40
Aldrin	2	80.96	91.02	12	40
Heptachlor Epoxide	2	83.64	93.15	11	40
Endosulfan I	2	82.12	93.63	13	40
p,p'-DDE	2	79.93	91.26	13	40
Dieldrin	2	98.09	98.72	0.64	40
Endrin	2	103.49	115.32	11	40
p,p'-DDD	2	78.21	88.53	12	40
Endosulfan II	2	83.41	90.48	8.1	40
p,p'-DDT	2	85.73	93.62	8.8	40
Endrin Aldehyde	2	76.74	81.82	6.4	40
Endosulfan Sulfate	2	79.4	84.5	6.2	40
Methoxychlor	2	86.73	104.1	18	40
Endrin Ketone	2	82.76	92.77	11	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52101.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 10:54:51
Operator : MAS/MLC
Sample : AC78787-019
Misc : S,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 13:11:19 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.204	6.072	127.5E6	97658665	51.797m	54.344m
22)DCB-Surrogate	13.169	13.487	101.1E6	72136686	56.797m	55.014m

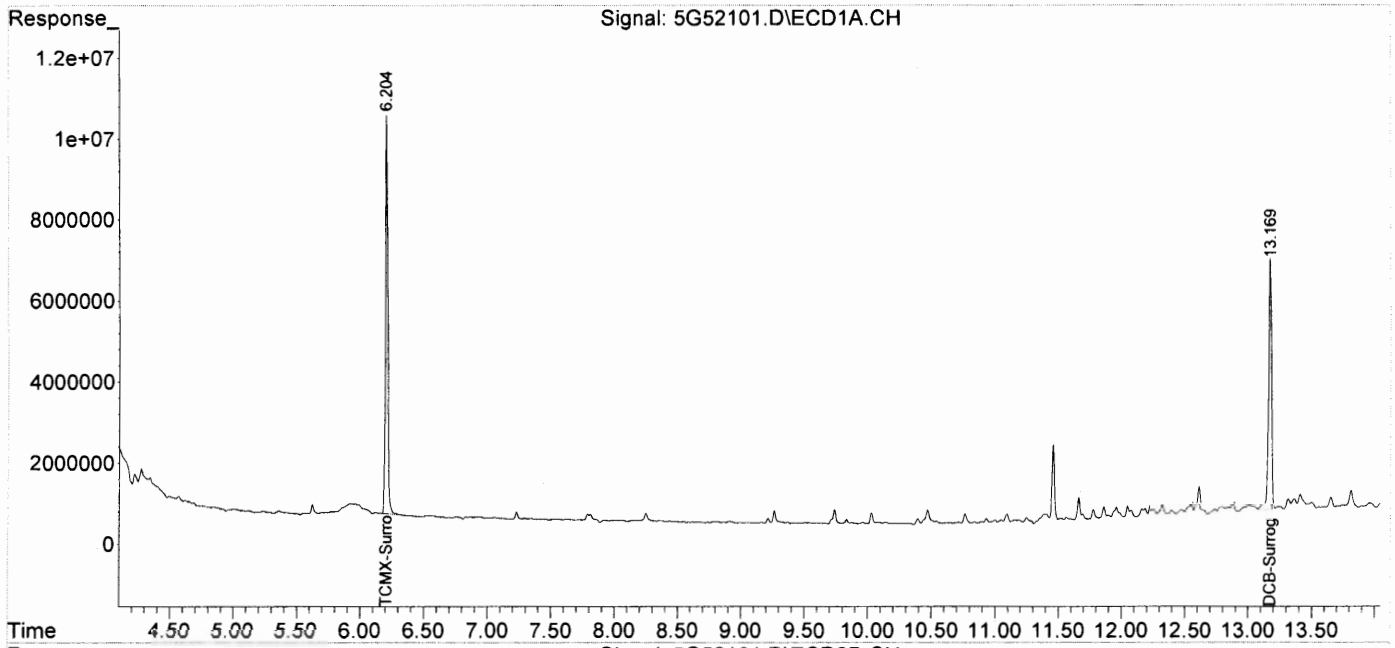
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

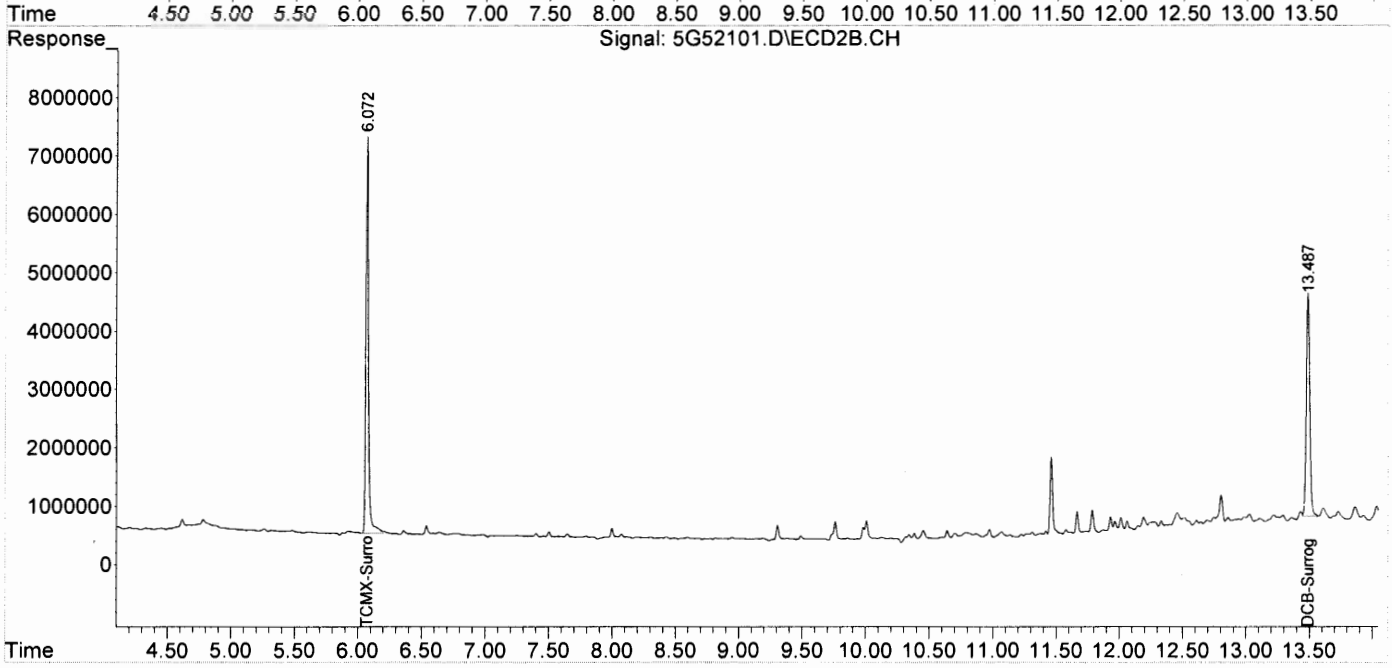
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52101.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 10:54:51
Operator : MAS/MLC
Sample : AC78787-019
Misc : S,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 13:11:19 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49346.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 10:08
Operator : MLC/MAS
Sample : AC78787-019(MS)
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 12:06:33 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
Target Compounds							
1)TCMX-Surrogate	5.083	4.921	919627	1117001	85.320	79.851	
2)alpha-BHC	6.239	5.843	1324290	1650488	101.057	90.900	
3)gamma-BHC	6.757	6.372	1276089	1606988	100.603	102.860	
4)beta-BHC	7.622	6.451	658296	969664	97.105	102.981	
5)Heptachlor	7.070	6.817	1178585	1397290	103.366	112.388	
6)delta-BHC	7.970	6.947	1102156	1466793	96.084	90.676	
7)Aldrin	7.445	7.263	1112487	1284515	96.006	91.021	
8)Heptachlor Epoxid	8.265	7.982	1059067	1238167	97.614	93.149	
9)y-chlordane	8.661	8.191	1222451	1325803	103.859	91.523	
10)a-chlordane	8.731	8.395	1069173	1173639	104.317	90.984	
11)Endosulfan I	8.633	8.445	878494	1282135	101.478	93.633	
12)p,p'-DDE	8.820	8.683	957061	1081080	95.903	91.259	
13)Dieldrin	9.072	8.834	995088	1214441	97.685	98.718	
14)Endrin	9.336	9.304	984849	1000495	131.965	115.323	
15)p,p'-DDD	9.758	9.383	751224	864670	95.974	88.528	
16)Endosulfan II	9.887	9.522	880796	1059566	89.958	90.479	
17)p,p'-DDT	9.978	9.765	687645	876704	95.577	93.622	
18)Endrin Aldehyde	10.367	9.925	492604	802146	61.383	81.819	#
19)Endosulfan Sulfat	10.731	10.076	799439	811271	92.609	84.500	
20)Methoxychlor	10.664	10.820	480799	484864	137.995	104.100	
21)Endrin Ketone	11.264	11.057	799356	1019828	87.887m	92.773	
22)DCB-Surrogate	12.355	12.678	710131	964211	75.510m	83.424	

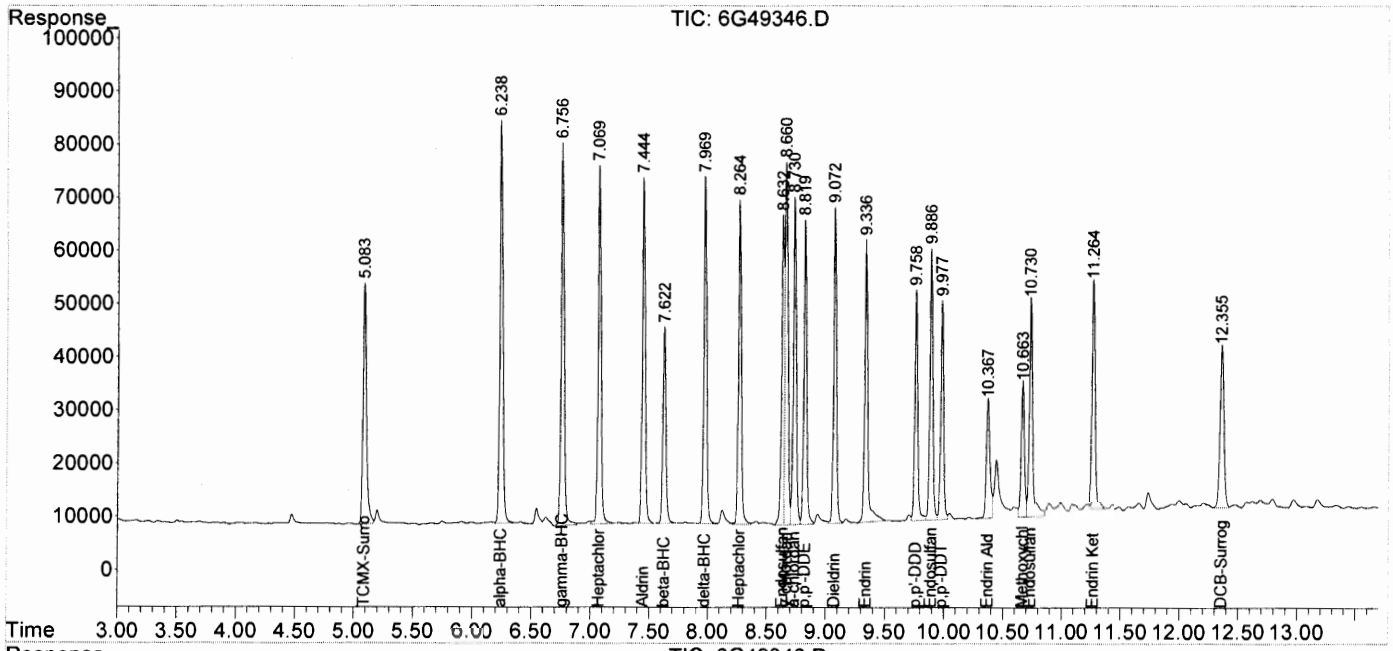
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

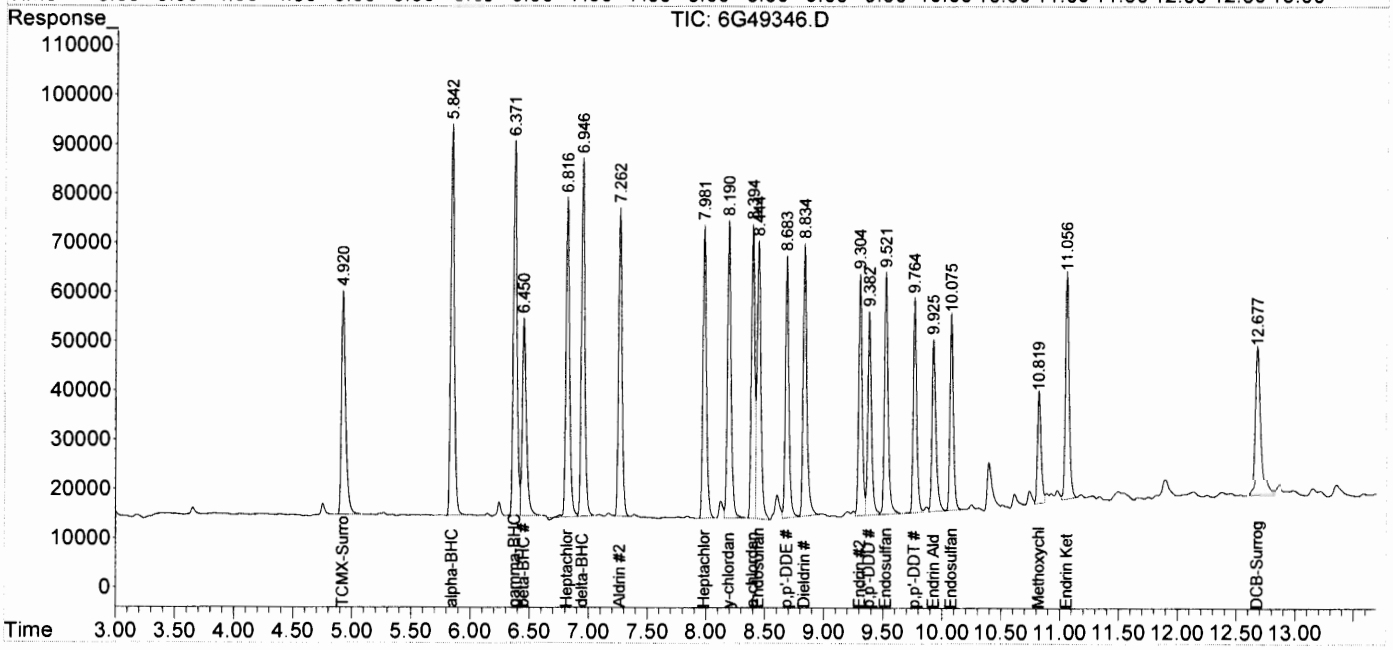
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49346.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 10:08
Operator : MLC/MAS
Sample : AC78787-019(MS)
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 12:06:33 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49347.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 10:25
Operator : MLC/MAS
Sample : AC78787-019(MSD)
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 12:07:28 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	5.076	4.919	859779	1045566	79.553	74.660
2)alpha-BHC	6.231	5.840	1294089	1525523	98.752	84.079
3)gamma-BHC	6.750	6.370	1180070	1468982	93.033	94.027
4)beta-BHC	7.615	6.448	589401	920905	86.478	97.803
5)Heptachlor	7.063	6.814	1109140	1295367	96.983	104.190
6)delta-BHC	7.963	6.945	979993	1315600	85.434	81.329
7)Aldrin	7.439	7.261	1020312	1142468	88.052	80.956
8)Heptachlor Epoxid	8.258	7.980	963701	1111828	88.404	83.644
9)y-chlordane	8.654	8.188	1110417	1190395	94.340	82.176
10)a-chlordane	8.725	8.392	950068	1036136	92.696	80.324
11)Endosulfan I	8.627	8.442	852767	1124436	98.300	82.116
12)p,p'-DDE	8.813	8.681	845826	946869	84.757	79.930
13)Dieldrin	9.066	8.832	902090	1206672	88.556	98.086
14)Endrin	9.329	9.302	995820	897835	133.542	103.489
15)p,p'-DDD	9.752	9.381	655505	763865	83.745	78.207
16)Endosulfan II	9.880	9.519	799916	976761	81.352	83.408
17)p,p'-DDT	9.972	9.762	614630	802781	85.273	85.728
18)Endrin Aldehyde	10.361	9.923	439784	752375	54.801	76.743 #
19)Endosulfan Sulfat	10.724	10.073	653139	762345	75.661m	79.404
20)Methoxychlor	10.655	10.816	442859	404740	126.646m	86.731m#
21)Endrin Ketone	11.257	11.053	751095	909808	82.404m	82.765m
22)DCB-Surrogate	12.347	12.673	649438	929581	68.762m	80.334m

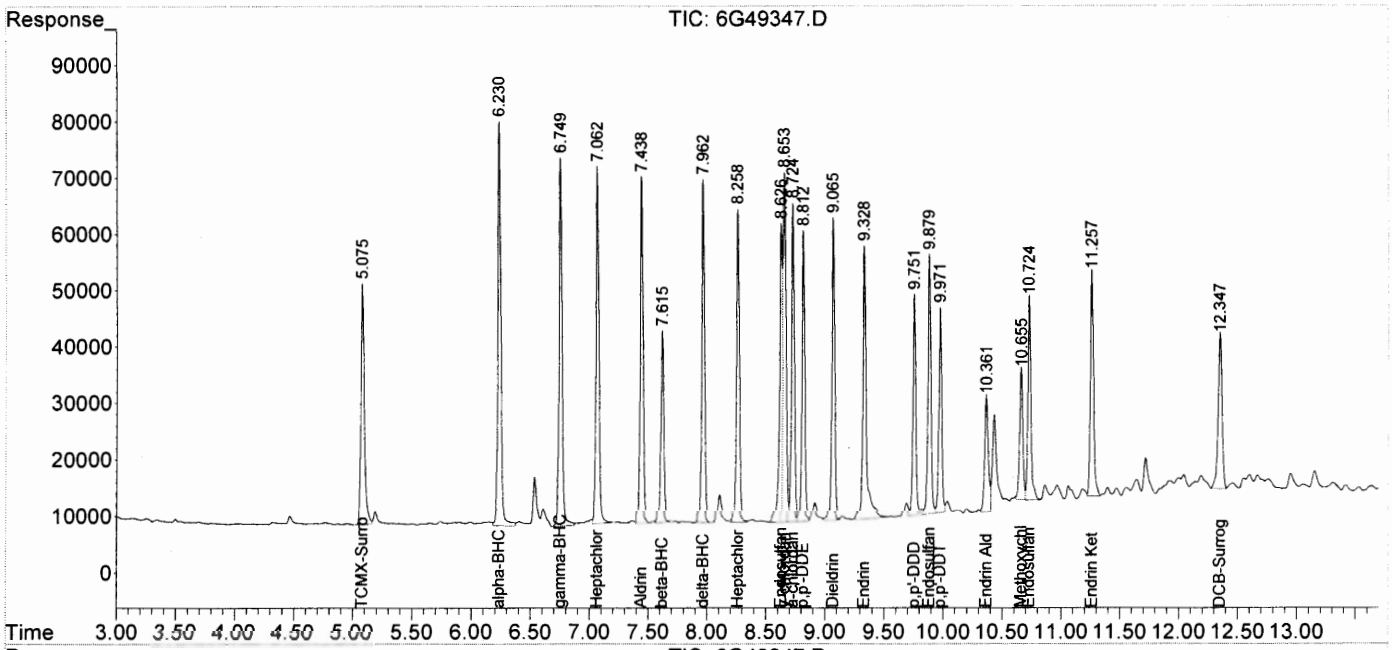
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

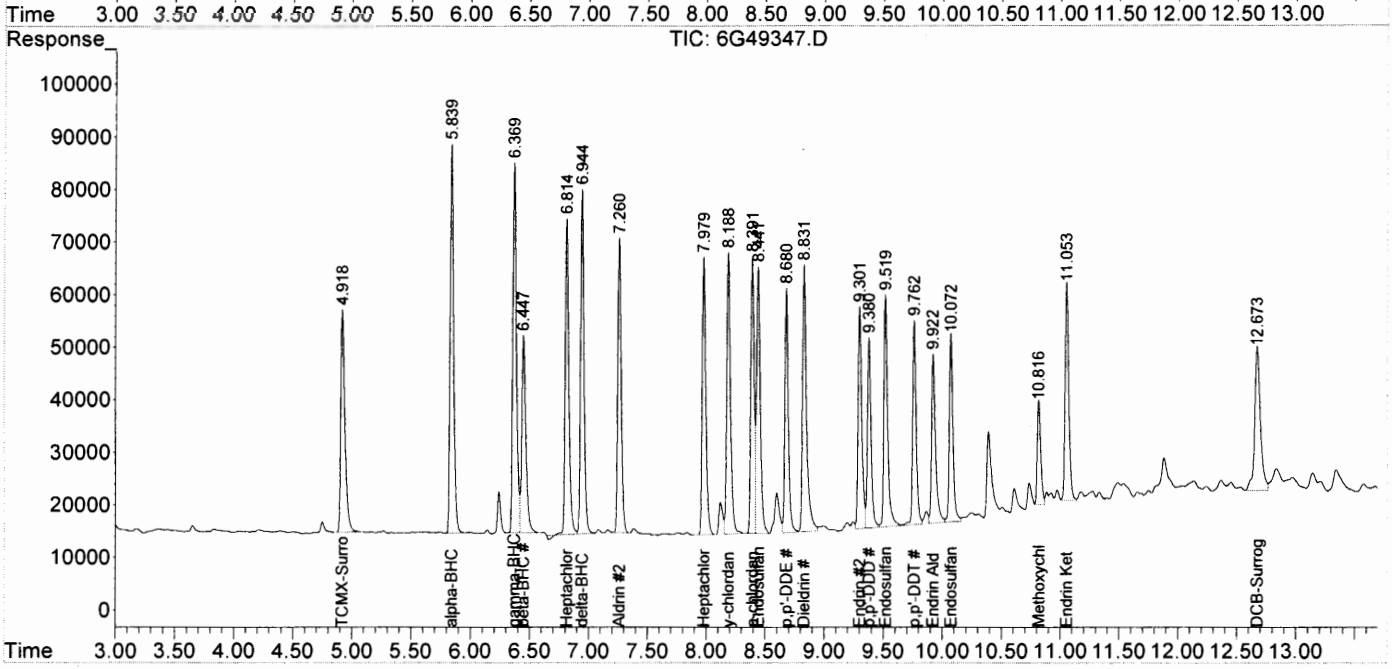
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_6\Data\05-30-14\
Data File : 6G49347.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 May 2014 10:25
Operator : MLC/MAS
Sample : AC78787-019(MSD)
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 12:07:28 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0523.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 23 09:26:08 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data
QC Batch: SMB33933

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G52097.D	AC78787-008(MS)	5/30/2014 9:43:49 AM
Non Spike(If applicable):	5G52076.D	AC78787-008	5/30/2014 1:20:01 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	101.03	0	100	101	60	130
gamma-BHC	2	103.99	0	100	104	60	130
beta-BHC	2	108.96	0	100	109	60	130
Heptachlor	2	127.69	0	100	128	60	130
delta-BHC	2	105.22	0	100	105	60	130
Aldrin	2	101.05	0	100	101	70	130
Heptachlor Epoxide	2	105.95	0	100	106	70	130
Endosulfan I	2	110.79	0	100	111	70	130
p,p'-DDE	2	110.72	0	100	111	70	130
Dieldrin	2	116.67	0	100	117	70	130
Endrin	2	145.73	0	100	146 *	70	130
p,p'-DDD	2	123.75	0	100	124	70	130
Endosulfan II	2	122.08	0	100	122	70	130
p,p'-DDT	2	131.3	0	100	131 *	70	130
Endrin Aldehyde	2	84.96	0	100	85	10	130
Endosulfan Sulfate	2	113.59	0	100	114	70	130
Methoxychlor	2	148.84	0	100	149 *	60	130
Endrin Ketone	2	113.26	0	100	113	70	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G52098.D	AC78787-008(MSD)	5/30/2014 10:01:32 AM
Non Spike(If applicable):	5G52076.D	AC78787-008	5/30/2014 1:20:01 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	2	100.9	0	100	101	60	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G52098.D	AC78787-008(MSD)	5/30/2014 10:01:32 AM
Non Spike(If applicable):	5G52076.D	AC78787-008	5/30/2014 1:20:01 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
gamma-BHC	2	106.1	0	100	106	60	130
beta-BHC	2	109.98	0	100	110	60	130
Heptachlor	2	128.12	0	100	128	60	130
delta-BHC	2	107.59	0	100	108	60	130
Aldrin	2	104.12	0	100	104	70	130
Heptachlor Epoxide	2	112.17	0	100	112	70	130
Endosulfan I	2	114.88	0	100	115	70	130
p,p'-DDE	2	117.19	0	100	117	70	130
Dieldrin	2	123.75	0	100	124	70	130
Endrin	2	154.73	0	100	155 *	70	130
p,p'-DDD	2	134.42	0	100	134 *	70	130
Endosulfan II	2	128.5	0	100	128	70	130
p,p'-DDT	2	139.47	0	100	139 *	70	130
Endrin Aldehyde	2	91.14	0	100	91	10	130
Endosulfan Sulfate	2	122.22	0	100	122	70	130
Methoxychlor	2	157.86	0	100	158 *	60	130
Endrin Ketone	2	121.17	0	100	121	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: SMB33933

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5G52098.D	AC78787-008(MSD)	5/30/2014 10:01:32 AM
Duplicate(If applicable):	5G52097.D	AC78787-008(MS)	5/30/2014 9:43:49 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	2	100.9	101.03	0.13	40
gamma-BHC	2	106.1	103.99	2	40
beta-BHC	2	109.98	108.96	0.93	40
Heptachlor	2	128.12	127.69	0.34	40
delta-BHC	2	107.59	105.22	2.2	40
Aldrin	2	104.12	101.05	3	40
Heptachlor Epoxide	2	112.17	105.95	5.7	40
Endosulfan I	2	114.88	110.79	3.6	40
p,p'-DDE	2	117.19	110.72	5.7	40
Dieldrin	2	123.75	116.67	5.9	40
Endrin	2	154.73	145.73	6	40
p,p'-DDD	2	134.42	123.75	8.3	40
Endosulfan II	2	128.5	122.08	5.1	40
p,p'-DDT	2	139.47	131.3	6	40
Endrin Aldehyde	2	91.14	84.96	7	40
Endosulfan Sulfate	2	122.22	113.59	7.3	40
Methoxychlor	2	157.86	148.84	5.9	40
Endrin Ketone	2	121.17	113.26	6.7	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52076.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 01:20:01
Operator : MAS/MLC
Sample : AC78787-008
Misc : S,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:42:09 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.203	6.071	211.4E6	180.0E6	85.857	100.187
22)DCB-Surrogate	13.168	13.485	187.3E6	142.1E6	105.221	108.405

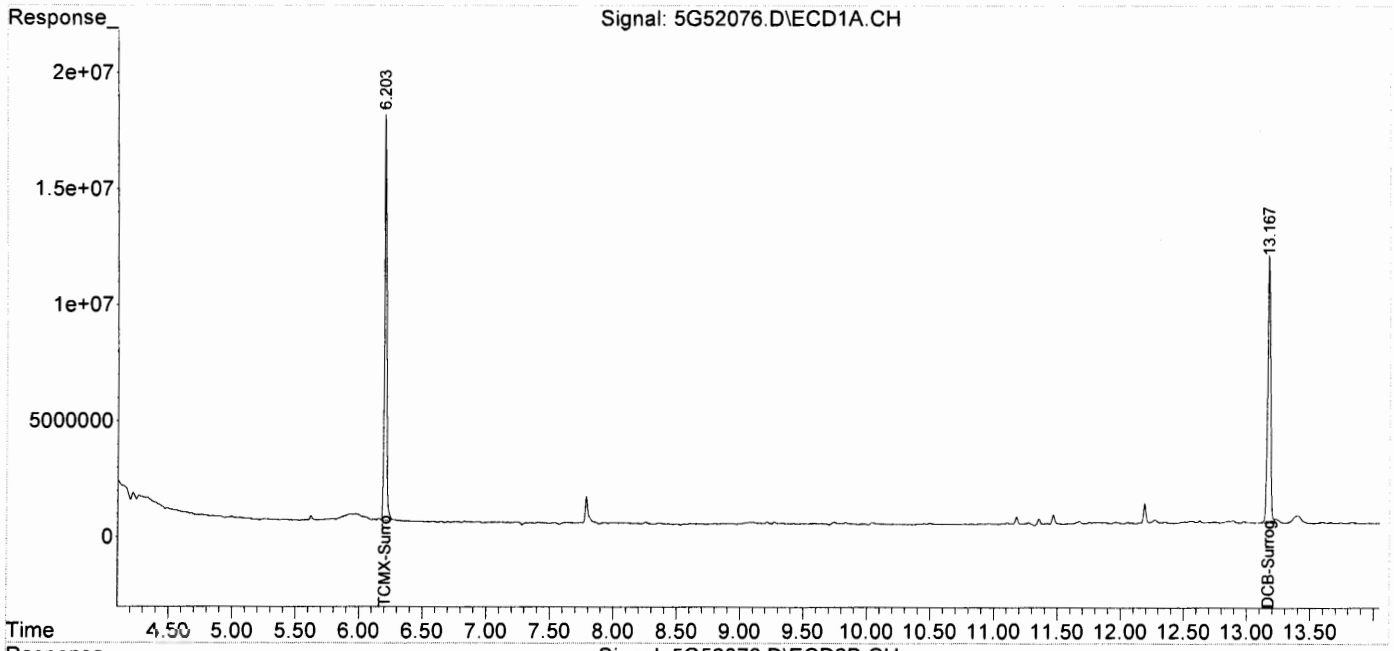
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

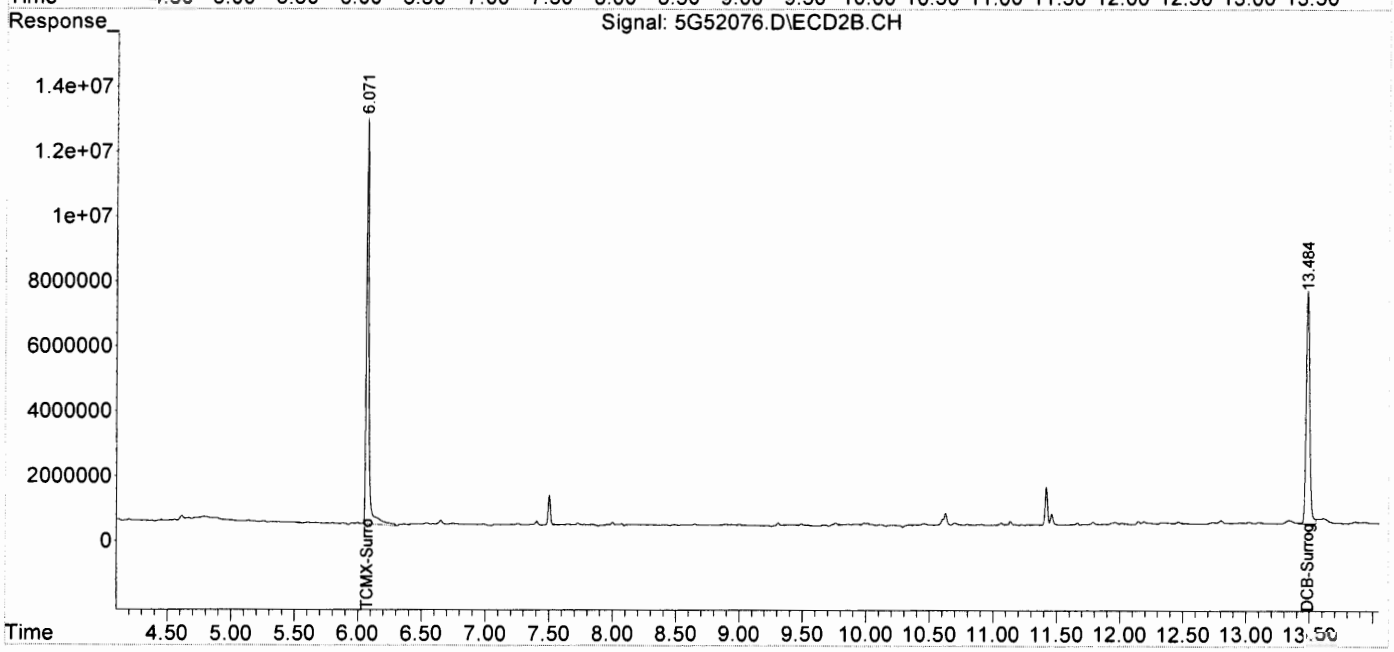
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52076.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 01:20:01
Operator : MAS/MLC
Sample : AC78787-008
Misc : S,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:42:09 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52097.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 09:43:49
Operator : MAS/MLC
Sample : AC78787-008(MS)
Misc : S,PEST
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:49:52 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.208	6.068	211.0E6	166.4E6	85.710	92.582
2)alpha-BHC	7.464	7.074	352.1E6	257.4E6	100.940	101.034
3)gamma-BHC	7.985	7.611	321.5E6	234.6E6	100.928	103.990
4)beta-BHC	8.867	7.701	137.1E6	117.2E6	104.108	108.962
5)Heptachlor	8.271	8.045	276.6E6	199.8E6	120.270	127.687
6)delta-BHC	9.188	8.187	295.4E6	236.3E6	103.599	105.224
7)Aldrin	8.629	8.476	285.7E6	199.2E6	99.531	101.048
8)Heptachlor Epoxid	9.435	9.180	258.8E6	181.0E6	105.973	105.950
9)y-chlordane	9.816	9.380	274.4E6	195.3E6	107.339	105.898
10)a-chlordane	9.880	9.577	261.8E6	180.3E6	106.932	108.217
11)Endosulfan I	9.776	9.620	241.4E6	194.8E6	108.161	110.788
12)p,p'-DDE	9.969	9.864	270.8E6	189.5E6	109.537	110.717
13)Dieldrin	10.200	9.993	270.7E6	194.8E6	113.112	116.672
14)Endrin	10.444	10.438	238.9E6	161.4E6	144.948	145.728
15)p,p'-DDD	10.866	10.527	222.9E6	163.4E6	113.653	123.754
16)Endosulfan II	10.978	10.646	228.4E6	176.0E6	112.140	122.078
17)p,p'-DDT	11.066	10.886	216.0E6	163.9E6	132.769	131.303
18)Endrin Aldehyde	11.439	11.029	134.9E6	98970618	92.368	84.964
19)Endosulfan Sulfat	11.785	11.171	200.5E6	152.6E6	112.410	113.589
20)Methoxychlor	11.718	11.886	103.2E6	71727362	150.747	148.842
21)Endrin Ketone	12.266	12.090	206.4E6	159.0E6	115.573	113.262
22)DCB-Surrogate	13.175	13.488	180.7E6	132.4E6	101.540	100.943

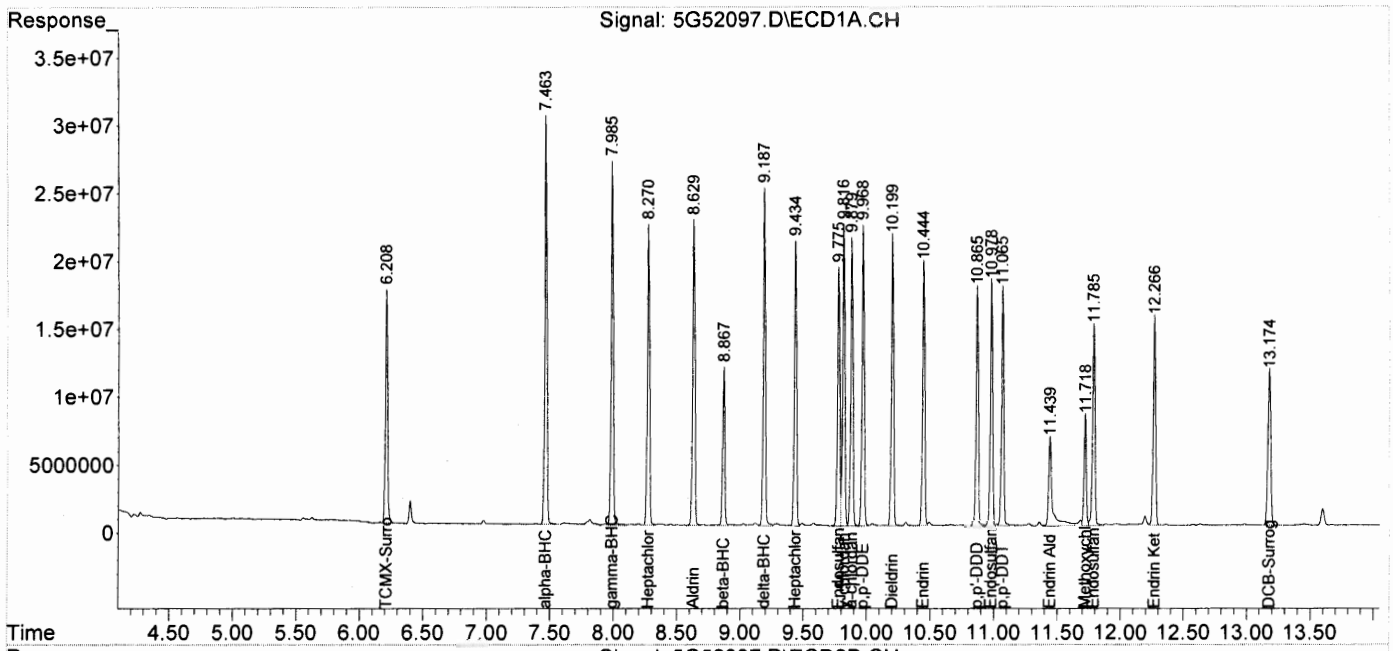
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

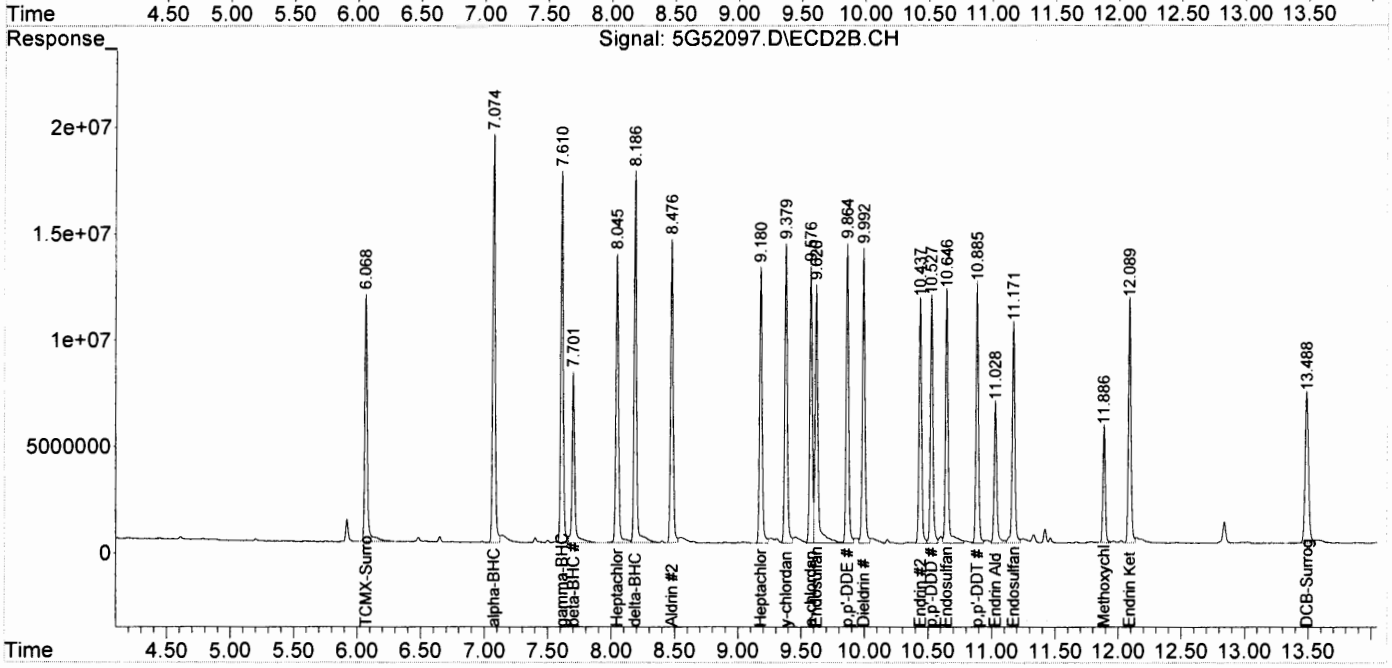
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52097.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 09:43:49
Operator : MAS/MLC
Sample : AC78787-008(MS)
Misc : S,PEST
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:49:52 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52098.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 10:01:32
Operator : MAS/MLC
Sample : AC78787-008(MSD)
Misc : S,PEST
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:50:05 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.204	6.070	205.1E6	147.0E6	83.291	81.815
2)alpha-BHC	7.459	7.075	347.6E6	257.0E6	99.643	100.897
3)gamma-BHC	7.981	7.612	329.3E6	239.3E6	103.373	106.097
4)beta-BHC	8.862	7.702	147.1E6	118.3E6	111.721	109.983
5)Heptachlor	8.267	8.046	323.3E6	200.5E6	140.542	128.122
6)delta-BHC	9.183	8.187	312.6E6	241.6E6	109.609	107.593
7)Aldrin	8.625	8.478	279.2E6	205.2E6	97.264	104.117
8)Heptachlor Epoxid	9.431	9.181	265.6E6	191.7E6	108.750	112.173
9)y-chlordane	9.812	9.381	310.8E6	203.6E6	121.554	110.383
10)a-chlordane	9.877	9.577	271.5E6	190.7E6	110.898	114.504
11)Endosulfan I	9.772	9.620	250.1E6	202.0E6	112.043	114.878
12)p,p'-DDE	9.965	9.865	280.7E6	200.6E6	113.534	117.192
13)Dieldrin	10.195	9.992	280.0E6	206.6E6	116.998	123.745
14)Endrin	10.441	10.438	249.1E6	171.3E6	151.155	154.730
15)p,p'-DDD	10.862	10.527	233.7E6	177.5E6	119.152	134.418
16)Endosulfan II	10.974	10.646	237.8E6	185.3E6	116.764	128.505
17)p,p'-DDT	11.062	10.887	223.5E6	174.1E6	137.071	139.467
18)Endrin Aldehyde	11.435	11.029	142.4E6	106.2E6	97.479	91.142
19)Endosulfan Sulfat	11.782	11.172	209.8E6	164.2E6	117.632	122.215
20)Methoxychlor	11.715	11.886	106.8E6	76075247	155.615	157.864
21)Endrin Ketone	12.262	12.090	218.9E6	170.1E6	122.544	121.173
22)DCB-Surrogate	13.171	13.488	180.4E6	134.9E6	101.367	102.869

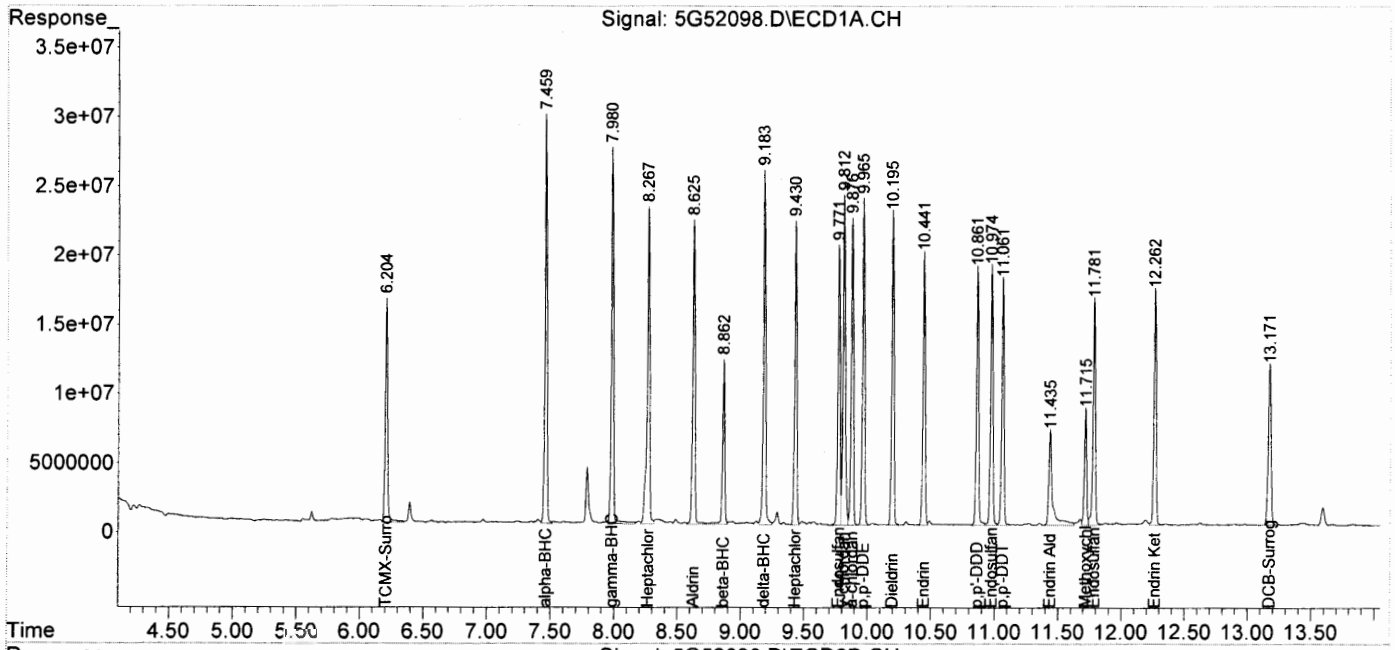
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

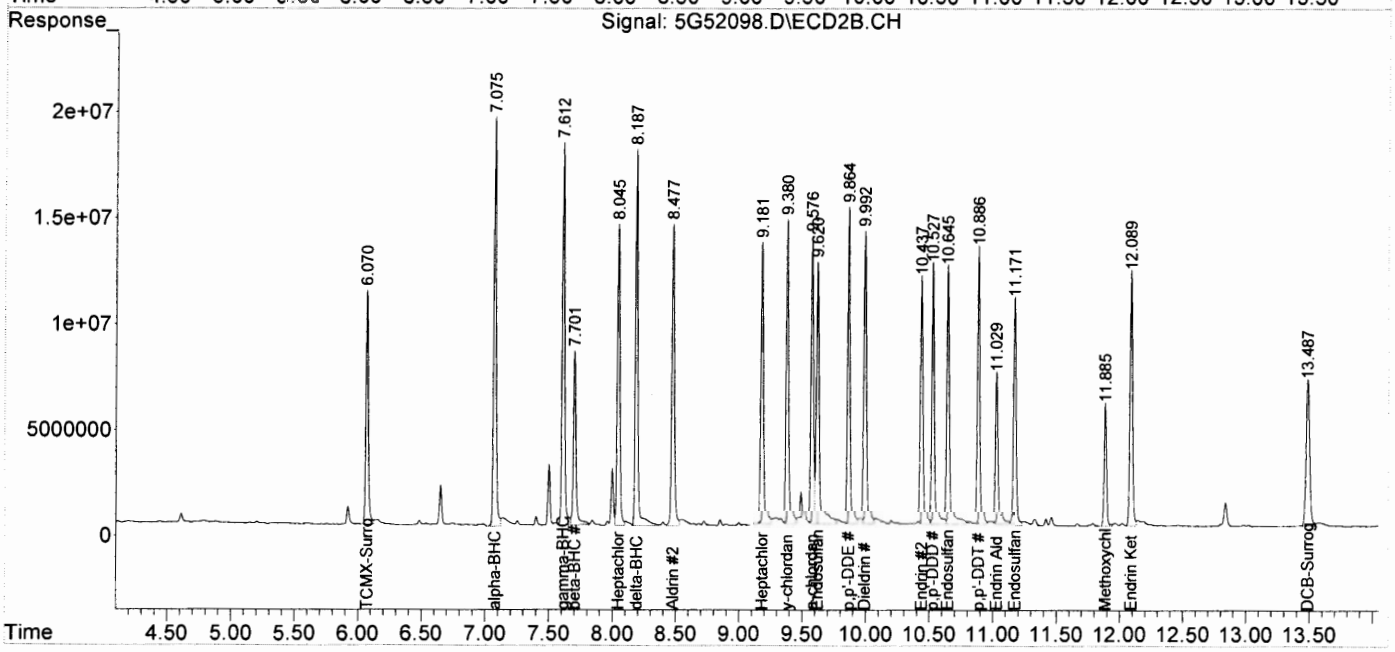
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2014\GC_5\Data\05-30-14\
Data File : 5G52098.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-May-14, 10:01:32
Operator : MAS/MLC
Sample : AC78787-008(MSD)
Misc : S,PEST
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: May 30 10:50:05 2014
Quant Method : G:\GCDATA\2014\GC_5\METHODQT\5G_PEST0523.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 23 11:16:56 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





GC Pesticide Data
Logbook Data

1-1-5G51409

RUN LOG

Instrument: GC 4052101.1403
Analyst: MAS/MLC

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
5G51409.D	EVAL					Soil	1	1	8081	04/22 10:25
5G51410.D	CAL EVAL	Ee1=3.8;Ee2=2.9;Ed1=5.5;Ed2=5.7;	OK,V-183135	MS 04/22/14		Soil	1	1	8081	04/22 10:57
5G51411.D	CAL CHLOR@100P		OK,V-185315	MS 04/22/14		Soil	1	1	608\808	04/22 11:15
5G51412.D	CAL TOX@500PPB		OK,V-185515	MS 04/22/14		Soil	1	1	608\808	04/22 11:33
5G51413.D	CAL PEST@2PPB		OK,B-17244	MS 04/22/14		Soil	1	1	608\808	04/22 11:50
5G51414.D	CAL PEST@10PPB		OK,B-17244	MS 04/22/14		Soil	1	1	608\808	04/22 12:08
5G51415.D	CAL PEST@50PPB		OK,B-17244	MS 04/22/14		Soil	1	1	608\808	04/22 12:26
5G51416.D	CAL PEST@100PP		OK,B-17244	MS 04/22/14		Soil	1	1	608\808	04/22 12:44
5G51417.D	CAL PEST@200PP		OK,B-17244	MS 04/22/14		Soil	1	1	608\808	04/22 13:01
5G51418.D	CAL PEST@400PP		OK,B-17244	MS 04/22/14		Soil	1	1	608\808	04/22 13:19
5G51419.D	CAL ICV		OK,V-183136	MS 04/22/14		Soil	1	1	608\808	04/22 13:37
5G51420.D	AC78179-004(T)		OK WMB30650	MS 04/22/14	PETCLP-808	Aqueous	1	1	8081	04/22 13:55
5G51421.D	AC78179-005(T)		OK	MS 04/22/14	PETCLP-808	Aqueous	1	1	8081	04/22 14:13
5G51422.D	AC78182-002(T)		OK	MS 04/22/14	PETCLP-808	Aqueous	1	1	8081	04/22 14:30
5G51423.D	AC78075-005		OK	MS 04/22/14	PE-8081	Soil	1	1	8081	04/22 14:48
5G51424.D	AC78075-006		OK	MS 04/22/14	PE-8081	Soil	1	1	8081	04/22 15:06
5G51425.D	AC78170-016		OK	MS 04/22/14	PE-8081	Soil	1	1	8081	04/22 15:24
5G51426.D	AC78170-017		OK	MS 04/22/14	PE-8081	Soil	1	1	8081	04/22 15:42
5G51427.D	CAL PEST@200PP		OK	MS 04/22/14		Soil	0.25	1	608\808	04/22 16:46

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-5G51674

RUN LOG

Instrument: GC 4052101.1404
Analyst: MAS/MLC

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
5G51674.D	CAL EVAL	Ee1=5.2;Ee2=7.4;Ed1=4.8;Ed2=5.3;	OK,V-185135	MS 05/06/14		Aqueous	1	1	608\808	05/06 09:23
5G51675.D	CAL PEST@100PP		OK,V-185310	MS 05/06/14		Aqueous	0.5	1	608\808	05/06 09:59
5G51676.D	WMB30773		OK	MS 05/06/14		Aqueous	1	1	608\808	05/06 10:23
5G51677.D	WMB30773(MS)		OK WMB30773	MS 05/06/14		Aqueous	1	1	608\808	05/06 10:41
5G51678.D	AC78482-005(MS)		OK WMB30773	MS 05/06/14	PE-608	Aqueous	1	1	608\808	05/06 10:59
5G51679.D	AC78482-005(MSD)	M28	OK WMB30773	MS 05/06/14	PE-608	Aqueous	1	1	608\808	05/06 11:16
5G51680.D	AC78482-001		OK	MS 05/06/14	PE-608	Aqueous	1	1	608	05/06 11:34
5G51681.D	AC78482-005		OK WMB30773	MS 05/06/14	PE-608	Aqueous	1	1	608	05/06 11:52
5G51682.D	AC78482-007		OK	MS 05/06/14	PE-608	Aqueous	1	1	608	05/06 12:10
5G51683.D	AC78482-009		OK	MS 05/06/14	PE-608	Aqueous	1	1	608	05/06 12:28
5G51684.D	AC78482-013		OK	MS 05/06/14	PE-608	Aqueous	1	1	608	05/06 12:45
5G51685.D	AC78482-011		OK	MS 05/06/14	PE-608	Aqueous	1	1	608	05/06 13:03
5G51686.D	CAL PEST@100PP	C16	OK	MS 05/06/14		Aqueous	0.5	1	608\808	05/06 15:57

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for epb
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning .Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-6G49163

Instrument: GC-3 4052101.1405
Analyst: MLC/MAS

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6G49163.D	BLANK	IsCnEn	NOT USED	KD 05/30/14		Aqueous	1	1	608\808	05/23 01:01
6G49164.D	CAL EVAL	IsEe1=6.2;Ee2=8.2;Ed1=7.3;Ed2=6.2;	OK,V-185135	KD 05/30/14		Aqueous	1	1	608\808	05/23 01:18
6G49165.D	CAL PEST@2PPB		OK,B-17244	KD 05/30/14		Aqueous	1	1	608\808	05/23 01:36
6G49166.D	CAL PEST@10PPB		OK,B-17244	KD 05/30/14		Aqueous	1	1	608\808	05/23 01:53
6G49167.D	CAL PEST@50PPB		OK,B-17244	KD 05/30/14		Aqueous	1	1	608\808	05/23 02:11
6G49168.D	CAL PEST@100PP		OK,B-17244	KD 05/30/14		Aqueous	1	1	608\808	05/23 02:28
6G49169.D	CAL PEST@200PP		OK,B-17244	KD 05/30/14		Aqueous	1	1	608\808	05/23 02:46
6G49170.D	CAL PEST@400PP		OK,B-17244	KD 05/30/14		Aqueous	1	1	608\808	05/23 03:03
6G49171.D	CAL CHLOR @100		OK,V-185315	KD 05/30/14		Aqueous	1	1	608\808	05/23 03:21
6G49172.D	CAL TOX @500PP		OK,V-185515	KD 05/30/14		Aqueous	1	1	608\808	05/23 03:38
6G49173.D	ICV		OK,V-183136	KD 05/30/14		Aqueous	1	1	608\808	05/23 03:56
6G49174.D	WMB33880		OK			Aqueous	1	1	608\808	05/23 09:35
6G49175.D	WMB33880(MS)		OK WMB33880	KD 05/30/14		Aqueous	1	1	608\808	05/23 09:52
6G49176.D	AC78788-003		OK		PE-608	Aqueous	1	1	608	05/23 10:09
6G49177.D	AC78788-004		OK		PE-608	Aqueous	1	1	608	05/23 10:27
6G49178.D	AC78788-005		OK		PE-608	Aqueous	1	1	608	05/23 10:44
6G49179.D	AC78788-007		OK		PE-608	Aqueous	1	1	608	05/23 11:02
6G49180.D	AC78799-001		OK	KD 05/30/14	PE-8081	Aqueous	1	1	8081	05/23 11:19
6G49181.D	AC78793-001		OK	KD 05/30/14	PE-608	Aqueous	1	1	608	05/23 11:37
6G49182.D	SMB33890		OK			Soil	1	1	8081	05/23 11:54
6G49183.D	SMB33890(MS)		OK SMB33890	KD 05/30/14		Soil	1	1	8081	05/23 12:12
6G49184.D	CAL PEST@200PP		OK	KD 05/30/14		Soil	0.25	1	608\808	05/23 12:30
6G49185.D	CAL EVAL	Ee1=14;Ee2=17;Ed1=11;Ed2=7.1;	NOT USED	KD 05/30/14		Soil	1	1	8081	05/23 12:58

Anc	Area Not Checked	Ec	Extraction Performed Past Hold	Cp	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Crn	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Hn	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GC 4052101 . 1406
Analyst: MAS/MLC

1-1-5G51946

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
5G51946.D	BLK	CnEn	NOT USED	KD 05/30/14		Aqueous	1	1	608\808	05/23 01:01
5G51947.D	CAL EVAL	Ee1=4.7;Ee2=6;Ed1=6.6;Ed2=5;	OK,V-185135	KD 05/30/14		Aqueous	1	1	608\808	05/23 01:19
5G51948.D	CAL PEST@2PPB		OK,B-17244	KD 05/30/14		Aqueous	1	1	608\808	05/23 01:36
5G51949.D	CAL PEST@10PPB		OK,B-17244	KD 05/30/14		Aqueous	1	1	608\808	05/23 01:54
5G51950.D	CAL PEST@50PPB		OK,B-17244	KD 05/30/14		Aqueous	1	1	608\808	05/23 02:12
5G51951.D	CAL PEST@100PP		OK,B-17244	KD 05/30/14		Aqueous	1	1	608\808	05/23 02:30
5G51952.D	CAL PEST@200PP		OK,B-17244	KD 05/30/14		Aqueous	1	1	608\808	05/23 02:47
5G51953.D	CAL PEST@400PP		OK,B-17244	KD 05/30/14		Aqueous	1	1	608\808	05/23 03:05
5G51954.D	CAL CHLOR@500P		OK,V-185315	KD 05/30/14		Aqueous	1	1	608\808	05/23 03:23
5G51955.D	CAL TOX @500PP		OK,V-185515	KD 05/30/14		Aqueous	1	1	608\808	05/23 03:41
5G51956.D	ICV		OK,V-183136	KD 05/30/14		Aqueous	1	1	608\808	05/23 03:58
5G51957.D	CAL EVAL	Ee1=12;Ee2=14;Ed1=7.9;Ed2=6.1;	OK	KD 05/30/14		Aqueous	1	1	608\808	05/23 11:08
5G51958.D	CAL PEST@100PP		OK,V-185310	KD 05/30/14		Aqueous	0.5	1	608\808	05/23 11:34
5G51959.D	AC78790-003		OK	KD 05/30/14	PE-8081	Aqueous	1	1	8081	05/23 11:57
5G51960.D	AC78792-009		OK	KD 05/30/14	PE-8081	Aqueous	1	1	8081	05/23 12:15
5G51961.D	AC78787-003		OK	KD 05/30/14	PE-8081	Aqueous	1	1	8081	05/23 12:33
5G51962.D	AC78787-005		OK	KD 05/30/14	PE-8081	Aqueous	1	1	8081	05/23 12:51
5G51963.D	AC78787-009		OK	KD 05/30/14	PE-8081	Aqueous	1	1	8081	05/23 13:08
5G51964.D	AC78787-011		OK	KD 05/30/14	PE-8081	Aqueous	1	1	8081	05/23 13:26
5G51965.D	AC78787-016		OK	KD 05/30/14	PE-8081	Aqueous	1	1	8081	05/23 13:44
5G51966.D	CAL PEST@100PP		OK	KD 05/30/14		Aqueous	0.5	1	608\808	05/23 14:06

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 - not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-6G49277

Instrument: GC-9 4052101.1407
Analyst: MLC/MAS

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6G49277.D	CAL EVAL	Ee1=9.3;Ee2=11;Ed1=6.4;Ed2=3.6;	OK,V-185135	MS 05/29/14		Soil	1	1	8081	05/28 23:01
6G49278.D	BLK	Cn	NOT USED	MS 05/29/14		Soil	1	1	8081	05/28 23:36
6G49279.D	CAL PEST@100PP		OK,V-185310,V-185309	MS 05/29/14		Soil	0.5	1	608\808	05/28 23:53
6G49280.D	CAL PEST@200PP		OK	MS 05/29/14		Soil	0.25	1	608\808	05/29 00:11
6G49281.D	SMB33930		OK	MS 05/29/14		Soil	1	1	8081	05/29 00:28
6G49282.D	SMB33930(MS)		OK SMB33930	MS 05/29/14		Soil	1	1	8081	05/29 00:45
6G49283.D	AC78801-001		OK SMB33920	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 01:03
6G49284.D	AC78801-002		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 01:20
6G49285.D	AC78801-004		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 01:38
6G49286.D	AC78801-005		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 01:55
6G49287.D	AC78801-006		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 02:12
6G49288.D	AC78801-007		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 02:30
6G49289.D	AC78801-008		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 02:47
6G49290.D	AC78801-009		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 03:05
6G49291.D	AC78801-010		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 03:22
6G49292.D	AC78801-011		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 03:40
6G49293.D	AC78801-012		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 03:57
6G49294.D	AC78801-013		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 04:14
6G49295.D	AC78801-043		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 04:32
6G49296.D	AC78801-003		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 04:49
6G49297.D	AC78731-002		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 05:07
6G49298.D	AC78731-004		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 05:24
6G49299.D	AC78731-003		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 05:42
6G49300.D	AC78731-001		RR 10X	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 05:59
6G49301.D	CAL PEST@200PP		OK	MS 05/29/14		Soil	0.25	1	608\808	05/29 09:08
6G49302.D	CAL EVAL	Ee1=12;Ee2=14;Ed1=8.2;Ed2=4.1;	OK	MS 05/29/14		Soil	1	1	8081	05/29 09:36
6G49303.D	WMB33922		OK	MS 05/29/14		Aqueous	1	1	608\808	05/29 10:06
6G49304.D	WMB33922(MS)		OK WMB33922	MS 05/29/14		Aqueous	1	1	608\808	05/29 10:23
6G49305.D	AC78872-009		OK,REX	MS 05/29/14	PE-8081	Aqueous	1	1	8081	05/29 10:41
6G49306.D	AC78864-090		OK	MS 05/29/14	PE-8081	Aqueous	1	1	8081	05/29 10:58
6G49307.D	AC78818-003		OK	MS 05/29/14	PE-8081	Aqueous	1	1	8081	05/29 11:16
6G49308.D	AC78829-014		OK	MS 05/29/14	PE-8081	Aqueous	1	1	8081	05/29 11:33
6G49309.D	AC78731-001(10X)		OK	MS 05/29/14	PE-8081	Soil	10	10	8081	05/29 11:50
6G49310.D	AC78692-025		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 12:08
6G49311.D	AC78871-001		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 12:25
6G49312.D	AC78871-002		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 12:43
6G49313.D	AC78692-031		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 13:00
6G49314.D	AC78692-019		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 13:18
6G49315.D	AC78692-035		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 13:35
6G49316.D	AC78692-024		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 13:53
6G49317.D	AC78692-013		OK	MS 05/29/14	PE-8081	Soil	1	1	8081	05/29 14:10
6G49318.D	CAL PEST@200PP	C16C26	OK	MS 05/29/14		Soil	0.25	1	608\808	05/29 15:02

Anc	Area Not Checked	Ep	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B8m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eqn
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GC 4052101 . 1408
Analyst: MAS/MLC

1-1-5G52071

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
5G52071.D	BLK	CnEn	NOT USED	MS 05/30/14		Soil	1	1	8081	05/29 23:51
5G52072.D	CAL EVAL	Ee1=6.3;Ee2=7;Ed1=6;Ed2=4.9;	OK,V-185135	MS 05/30/14		Soil	1	1	8081	05/30 00:09
5G52073.D	CAL PEST@100PPC16C26		OK,V-185310	MS 05/30/14		Soil	0.5	1	608\808	05/30 00:26
5G52074.D	200PPB		NOT USED	MS 05/30/14		Soil	0.25	1	8081	05/30 00:44
5G52075.D	AC78787-018		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 01:02
5G52076.D	AC78787-008		OK SMB33933	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 01:20
5G52077.D	AC78787-026		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 01:37
5G52078.D	AC78787-024		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 01:55
5G52079.D	AC78787-023		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 02:13
5G52080.D	AC78787-020		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 02:31
5G52081.D	AC78864-003		RR 5X	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 02:48
5G52082.D	AC78864-007		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 03:06
5G52083.D	AC78864-009		RR 20X	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 03:24
5G52084.D	AC78864-011		RR 10X	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 03:41
5G52085.D	AC78864-015		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 03:59
5G52086.D	AC78864-023		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 04:17
5G52087.D	AC78864-047		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 04:35
5G52088.D	AC78864-019		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 04:52
5G52089.D	AC78864-027		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 05:10
5G52090.D	AC78864-031		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 05:28
5G52091.D	AC78864-035		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 05:46
5G52092.D	AC78864-039		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 06:03
5G52093.D	AC78864-043		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 06:21
5G52094.D	AC78787-022	Tm	OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 06:39
5G52095.D	CAL PEST@100PPC16C26		OK	MS 05/30/14		Soil	0.5	1	608\808	05/30 08:20
5G52096.D	CAL EVAL	Ee1=5.6;Ee2=6.7;Ed1=6.3;Ed2=6.3;	OK	MS 05/30/14		Soil	1	1	8081	05/30 09:04
5G52097.D	AC78787-008(MS)	M18M28	OK SMB33933	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 09:43
5G52098.D	AC78787-008(MSD)	M18M28	OK SMB33933	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 10:01
5G52099.D	AC78804-007(MS)		OK SMB33932	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 10:19
5G52100.D	AC78804-007(MSD)		OK SMB33932	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 10:36
5G52101.D	AC78787-019		OK SMB33930	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 10:54
5G52102.D	AC78864-062		OK	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 11:12
5G52103.D	AC78864-057		OK	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 11:30
5G52104.D	AC78864-050		OK	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 11:48
5G52105.D	AC78864-016		OK,RR 5X	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 12:05
5G52106.D	AC78864-017		OK	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 12:23
5G52107.D	AC78864-025		OK,RR 20X	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 12:41
5G52108.D	AC78864-033		OK,RR 20X	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 12:59
5G52109.D	AC78864-041		OK,RR 5X	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 13:16
5G52110.D	AC78864-055		OK	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 13:34
5G52111.D	AC78864-003(5X)		OK	MS 06/02/14	PE-8081	Soil	5	5	8081	05/30 13:52
5G52112.D	AC78864-009(20X)		OK	MS 06/02/14	PE-8081	Soil	20	20	8081	05/30 14:10
5G52113.D	AC78864-011(10X)		OK	MS 06/02/14	PE-8081	Soil	10	10	8081	05/30 14:27
5G52114.D	AC78864-001(5X)		OK SMB33942	MS 06/02/14	PE-8081	Soil	5	5	8081	05/30 14:45
5G52115.D	AC78824-001		OK	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 15:03
5G52116.D	CAL PEST@100PPC16C26		OK	MS 06/02/14		Soil	0.5	1	608\808	05/30 16:17

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16,R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I26	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning..Ini cal file <> method..	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GC_9 4052101.1409
Analyst: MLC/MAS

1-1-6G49319

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6G49319.D	CAL EVAL	Ee1=7.1;Ee2=8.4;Ed1=6.6;Ed2=4.6;	OK,V-185135	MS 05/30/14		Soil	1	1	8081	05/29 23:01
6G49320.D	BLK	Cn	NOT USED	MS 05/30/14		Soil	1	1	8081	05/29 23:53
6G49321.D	100PPB	Cn	NOT USED	MS 05/30/14		Soil	0.5	1	8081	05/30 00:11
6G49322.D	CAL PEST@200PP		OK,V-185310,V-185309	MS 05/30/14		Soil	0.25	1	608\808	05/30 00:28
6G49323.D	SMB33933		OK	MS 05/30/14		Soil	1	1	8081	05/30 00:46
6G49324.D	SMB33942		OK	MS 05/30/14		Soil	1	1	8081	05/30 01:03
6G49325.D	SMB33943		OK	MS 05/30/14		Soil	1	1	8081	05/30 01:21
6G49326.D	SMB33933(MS)		OK SMB33933	MS 05/30/14		Soil	1	1	8081	05/30 01:38
6G49327.D	SMB33942(MS)		OK SMB33942	MS 05/30/14		Soil	1	1	8081	05/30 01:55
6G49328.D	SMB33943(MS)		OK SMB33943	MS 05/30/14		Soil	1	1	8081	05/30 02:13
6G49329.D	SMB33932(MS)		OK SMB33932	MS 05/30/14		Soil	1	1	8081	05/30 02:30
6G49330.D	AC78787-025		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 02:48
6G49331.D	AC78692-037		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 03:05
6G49332.D	AC78692-040		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 03:23
6G49333.D	AC78692-036		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 03:40
6G49334.D	AC78787-015		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 03:58
6G49335.D	AC78787-014		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 04:15
6G49336.D	AC78787-007		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 04:32
6G49337.D	AC78787-021		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 04:50
6G49338.D	AC78692-042		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 05:07
6G49339.D	AC78787-001		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 05:25
6G49340.D	AC78787-002		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 05:42
6G49341.D	AC78744-001		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 05:59
6G49342.D	AC78744-002		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 06:17
6G49343.D	200PPB	Tm	NOT USED	MS 05/30/14		Soil	0.25	1	8081	05/30 08:25
6G49344.D	CAL PEST@100PP	C16C26	OK	MS 05/30/14		Soil	0.5	1	608\808	05/30 09:02
6G49345.D	CAL EVAL	Ee1=6.4;Ee2=7.6;Ed1=7;Ed2=3.5;	OK	MS 05/30/14		Soil	1	1	8081	05/30 09:30
6G49346.D	AC78787-019(MS)	M18	OK SMB33930	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 10:08
6G49347.D	AC78787-019(MSD)	M18	OK SMB33930	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 10:25
6G49348.D	AC78864-001(MS)		RR 5X	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 10:43
6G49349.D	AC78864-001(MSD)		RR 5X	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 11:00
6G49350.D	AC78864-001		RR 5X	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 11:18
6G49351.D	AC78864-048		OK	MS 05/30/14	PE-8081	Soil	1	1	8081	05/30 11:35
6G49352.D	AC78826-002		OK	MS 05/30/14,MS 06/02/14,MS 06/02/14,MS 06/02/14,MS	PE-8081	Soil	1	1	8081	05/30 11:52
6G49353.D	AC78824-005		RR 5X	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 12:10
6G49354.D	AC78826-001		OK	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 12:27
6G49355.D	AC78792-001		OK	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 12:45
6G49356.D	AC78818-002		OK	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 13:02
6G49357.D	AC78790-002		OK	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 13:20
6G49358.D	AC78824-003		RR 20X	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 13:37
6G49359.D	AC78792-007		OK	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 13:55
6G49360.D	AC78792-003		OK	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 14:12
6G49361.D	AC78818-001		RR 5X	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 14:30
6G49362.D	AC78790-001		RR 5X	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 14:47
6G49363.D	AC78792-005		OK	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 15:05
6G49364.D	AC78864-008		RR	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 15:22
6G49365.D	CAL PEST@100PP	C16C26	OK	MS 06/02/14		Soil	0.5	1	608\808	05/30 16:18
6G49366.D	SMB33951		OK	MS 06/02/14		Soil	1	1	8081	05/30 16:40
6G49367.D	SMB33951(MS)		OK SMB33951	MS 06/02/14		Soil	1	1	8081	05/30 16:57
6G49368.D	SMB33945		OK	MS 06/02/14		Soil	1	1	8081	05/30 17:15
6G49369.D	SMB33945(MS)		OK SMB33945	MS 06/02/14		Soil	1	1	8081	05/30 17:32

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
BBm	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
BBm	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rfo	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning: Ini cal file <> method	S8	8000 series surrogate out
Co	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-6G49370

RUN LOG

Instrument: GC4052101 1410
Analyst: MLC/MAS

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6G49370.D	AC78864-085(MS)		OK SMB33945	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 17:50
6G49371.D	AC78864-085(MSD)		OK SMB33945	MS 06/02/14	PE-8081	Soil	1	1	8081	05/30 18:07
6G49372.D	AC78864-016(5X)		OK	MS 06/02/14	PE-8081	Soil	5	5	8081	05/30 18:25
6G49373.D	AC78864-041(5X)		OK	MS 06/02/14	PE-8081	Soil	5	5	8081	05/30 18:42
6G49374.D	AC78864-025(20X)		OK	MS 06/02/14	PE-8081	Soil	20	20	8081	05/30 18:59
6G49375.D	AC78864-033(20X)		OK	MS 06/02/14	PE-8081	Soil	20	20	8081	05/30 19:17
6G49376.D	AC78864-001(5X)(M		OK SMB33942	MS 06/02/14	PE-8081	Soil	5	5	8081	05/30 19:34
6G49377.D	AC78864-001(5X)(M		OK SMB33942	MS 06/02/14	PE-8081	Soil	5	5	8081	05/30 19:52
6G49378.D	CAL PEST@100PPC26		OK	MS 06/02/14		Soil	0.5	1	608\808	05/30 20:09
6G49379.D	200PPB	Cme	NOT USED	MS 06/02/14		Soil	0.25	1	8081	05/30 20:26

Anc	Area Not Checked	En	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Crn	C30/C20 failed for eqh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrn	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16,R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I26	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8662

Description
Methylene Chloride

ApprovedBy: jean
ApproveDate: 05/02/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9464-03	73090	04/28/14	05/15/15	Lopez, Jose	120	4L	neat	neat

Veritech Control/Receipt Number: 8663

Description
Acetone

ApprovedBy: jean
ApproveDate: 05/02/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	65382	04/28/14	11/26/16	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 8665

Description
Sodium Sulfate

ApprovedBy: jean
ApproveDate: 05/02/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Seidler	SC-3375-1C	342501	04/28/14	04/27/19	Lopez, Jose	4	100L	neat	neat

Veritech Control/Receipt Number: 8677

Description
Hexanes

ApprovedBy: jean
ApproveDate: 05/05/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H300-4	141536	05/05/14	04/30/19	Lopez, Jose	40	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8614

Description
Sodium Sulfate

ApprovedBy: jean
ApproveDate: 04/20/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Seidler	SC-3375-1C	342501	03/31/14	03/30/19	Lopez, Jose	4	100L	neat	neat

Veritech Control/Receipt Number: 8635

Description
Hexanes optima

ApprovedBy: jean
ApproveDate: 04/20/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H300-4	138465	04/09/14	12/31/18	Lopez, Jose	20	4L	neat	neat

Veritech Control/Receipt Number: 8644

Description
Methylene Chloride

ApprovedBy: jean
ApproveDate: 04/20/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9264-03	73090	04/15/14	05/15/15	Lopez, Jose	120	4L	neat	neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-172949

Prepared By: Revolus, Jean
Description: PEST/PCB SURR
Prep Date: 9/18/2013
Expiration Date: 9/18/2014
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 09/24/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7364	Acetone	100 ml	neat neat	
7247	2,4,5,6-Tetrachloro-m-xylene	20 mg	neat neat	200 ppm
7246	Decachlorobiphenyl	20 mg	Neat neat	200 ppm

Veritech Lot Number: V-178304

Prepared By: Shah, Meghaben A.
Description: PEST SPIKE
Prep Date: 12/11/2013
Expiration Date: 6/11/2014
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 12/11/13
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8277	Acetone	99.5 ml	neat neat	
7718	CLP Org.Pest.Mix	500 ul	2000 ppm	10 ppm

Veritech Lot Number: V-180619

Prepared By: Ceus, Mahalia
Description: PEST/PCB SURR
Prep Date: 1/29/2014
Expiration Date: 7/29/2014
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 500 ml
ApprovedBy: jean
ApproveDate: 03/05/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-172949	PEST/PCB SURR	25 ml	200 ppm	10 ppm
8378	Acetone	475 ml	neat neat	

Veritech Lot Number: V-183135

Prepared By: Ceus, Mahalia
Description: EVAL MIX
Prep Date: 3/13/2014
Expiration Date: 7/29/2014
Department: Organics
BatchNumber:
Concentration: 100 ppb
Final Volume: 25 ml
ApprovedBy: jean
ApproveDate: 03/13/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8506	Hexanes	24982.5 ul	neat neat	
v-180619	PEST/PCB SURR	12.5 ul	10 ppm	200 ppm
6595	DDT/Endrin Mix	5 ul	500 ppm	500 ppm

Veritech Lot Number: V-183136

Prepared By: Ceus, Mahalia
Description: ICV-PEST
Prep Date: 3/13/2014
Expiration Date: 6/11/2014
Department: Organics
BatchNumber:
Concentration: 100 ppb
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 03/13/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8506	Hexanes	9800 ul	neat neat	
v-180619	PEST/PCB SURR	100 ul	10 ppm	100 ppb
v-178304	PEST SPIKE	100 ul	10 ppm	100 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-185307

Prepared By: Shah, Meghaben A.
Description: PEST INTERM.
Prep Date: 4/15/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8140	Hexane	9400 ul	neat neat	
7756	Pesticides Mix	100 ul	1000 ppm	1000 ppm
V-172949	PEST/PCB SURR	500 ul	200 ppm	200 ppm

Veritech Lot Number: V-185308

Prepared By: Shah, Meghaben A.
Description: PEST 400PPB CURVE
Prep Date: 4/15/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber: B-17244
Concentration: 400 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 04/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8140	Hexane	48000 ul	neat neat	
V-185307	PEST INTERM.	2000 ul	10 ppm	400 ppb

Veritech Lot Number: V-185309

Prepared By: Shah, Meghaben A.
Description: PEST 200PPB CURVE
Prep Date: 4/15/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber: B-17244
Concentration: 200 ppb
Final Volume: 75 ml
ApprovedBy: akmal
ApproveDate: 04/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8140	Hexane	73500 ul	neat neat	
V-185307	PEST INTERM.	1500 ul	10 ppm	200 ppb

Veritech Lot Number: V-185310

Prepared By: Shah, Meghaben A.
Description: PEST 100PPB CURVE
Prep Date: 4/15/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber: B-17244
Concentration: 100 ppb
Final Volume: 75 ml
ApprovedBy: akmal
ApproveDate: 04/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8140	Hexane	74250 ul	neat neat	
V-185307	PEST INTERM.	750 ul	10 ppm	100 ppb

Veritech Lot Number: V-185311

Prepared By: Shah, Meghaben A.
Description: PEST 50PPB CURVE
Prep Date: 4/15/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber: B-17244
Concentration: 50 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 04/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8140	Hexane	49750 ul	neat neat	
V-185307	PEST INTERM.	250 ul	10 ppm	50 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-185312

Prepared By: Shah, Meghaben A.
Description: PEST 10PPB CURVE
Prep Date: 4/15/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber: B-17244
Concentration: 10 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8140	Hexane	9000 ul	neat neat	
V-185310	PEST 100PPB CURVE	1000 ul	100 ppb	10 ppb

Veritech Lot Number: V-185313

Prepared By: Shah, Meghaben A.
Description: PEST 2PPB CURVE
Prep Date: 4/15/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber: B-17244
Concentration: 2 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8140	Hexane	9900 ul	neat neat	
V-185309	PEST 200PPB CURVE	100 ul	200 ppb	2 ppb

Veritech Lot Number: V-185314

Prepared By: Shah, Meghaben A.
Description: CHLOR-INTER
Prep Date: 4/15/2014
Expiration Date: 5/31/2014
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8140	Hexane	940 ul	neat neat	
V-172949	PEST/PCB SURR	50 ul	200 ppm	200 ppm
6601	Chlordane	10 ul	1000 ppm	1000 ppm

Veritech Lot Number: V-185315

Prepared By: Shah, Meghaben A.
Description: chlordane
Prep Date: 4/15/2014
Expiration Date: 5/31/2014
Department: Organics
BatchNumber:
Concentration: 100 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8140	Hexane	9900 ul	neat neat	
V-185314	CHLOR-INTER	100 ul	10 ppm	10 ppm

Veritech Lot Number: V-185514

Prepared By: Ceus, Mahalia
Description: TOXAPHENE-INTERM.-2-SOURCE
Prep Date: 4/17/2014
Expiration Date: 9/18/2014
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8320	n-hexane	925 ul	neat neat	
V-172949	PEST/PCB SURR	25 ul	200 ppm	200 ppm
8570	Toxaphene/Campheclor	50 ul	1000 ppm	1000 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-185515

Prepared By:	Ceus, Mahalia	Department:	Organics	ApprovedBy:	akmal
Description:	TOXAPHENE-2nd SOURCE	BatchNumber:		ApproveDate:	04/21/14
Prep Date:	4/17/2014	Concentration:	500 ppb	Checked:	Yes
Expiration Date:	9/18/2014	Final Volume:	10 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8320	n-hexane	9900 ul	neat neat	
V-185514	TOXAPHENE-INTERM.-2-SOURCE	100 ul	50 ppm	500 ppb

Veritech Lot Number: V-186046

Prepared By:	Ceus, Mahalia	Department:	Organics	ApprovedBy:	jean
Description:	PEST/PCB SURR	BatchNumber:		ApproveDate:	04/30/14
Prep Date:	4/28/2014	Concentration:	10 ppm	Checked:	Yes
Expiration Date:	9/18/2014	Final Volume:	500 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-172949	PEST/PCB SURR	25 ml	200 ppm	10 ppm
8645	Acetone	475 ml	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 6595

Description
DDT/Endrin Mix

ApprovedBy: akmal
ApproveDate: 01/17/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4-8282	LB86671	01/17/12	08/31/14	Hamid, Akmal	1	1ml	500	ppm

Veritech Control/Receipt Number: 6601

Description
Chlordane

ApprovedBy: akmal
ApproveDate: 01/17/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	48065-U	LB84943	01/17/12	05/31/14	Hamid, Akmal	1	1ml	1000	ppm

Veritech Control/Receipt Number: 7246

Description
Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 08/16/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2537	LB93097V	08/16/12	05/31/15	Hamid, Akmal	2	100m	Neat	Neat

Veritech Control/Receipt Number: 7247

Description
2,4,5,6-Tetrachloro-m-xylene

ApprovedBy: akmal
ApproveDate: 08/16/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2298	LB87361V	08/16/12	09/30/14	Hamid, Akmal	1	1000	neat	neat

Veritech Control/Receipt Number: 7364

Description
Acetone

ApprovedBy: richq
ApproveDate: 10/10/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	A40-4	124104	10/10/12	10/09/14	Quimby, Richard	1	4L	neat	neat

Veritech Control/Receipt Number: 7718

Description
CLP Org.Pest.Mix

ApprovedBy: akmal
ApproveDate: 02/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	47426-U	LB90217	02/21/13	01/31/15	Hamid, Akmal	1	1ml	2000	ppm

Veritech Control/Receipt Number: 7756

Description
Pesticides Mix

ApprovedBy: jean
ApproveDate: 03/11/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	M-8081-SC	211121086	03/07/13	12/08/14	Revolus, Jean	1	1ml	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8140

Description
Hexane

ApprovedBy: jean
ApproveDate: 09/29/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H303-4	134316	09/18/13	07/31/18	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 8277

Description
Acetone

ApprovedBy: jean
ApproveDate: 12/18/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T. Baker	9254-03	55353	11/19/13	08/01/16	Batts, Alvin	32	4L	neat	neat

Veritech Control/Receipt Number: 8320

Description
n-hexane

ApprovedBy: jean
ApproveDate: 01/08/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H306-4	133465	12/06/13	07/31/18	Lopez, Jose	19	4L	neat	neat

Veritech Control/Receipt Number: 8378

Description
Acetone

ApprovedBy: jean
ApproveDate: 01/08/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	62747	01/02/14	10/21/16	Lopez, Jose	24	4L	neat	neat

Veritech Control/Receipt Number: 8506

Description
Hexanes

ApprovedBy: jean
ApproveDate: 02/27/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H300-4	138466	02/17/14	12/31/18	Lopez, Jose	40	4L	neat	neat

Veritech Control/Receipt Number: 8570

Description
Toxaphene/Campheclor

ApprovedBy: akmal
ApproveDate: 03/18/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Serve	S-13586J4-5ML	2180600	03/18/14	11/30/15	Hamid, Akmal	1	5ml	1000	ppm

Veritech Control/Receipt Number: 8645

Description
Acetone

ApprovedBy: jean
ApproveDate: 04/20/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	64130	04/15/14	11/07/16	Lopez, Jose	24	4L	neat	neat

QC33880 Pest QC33881 PCB

Hampton-Clarke/Veritech

Method Blank No. WMB- _____
Blank Spike (WMBS): _____
Blank Spike (WMBS): _____

Date: 5/22/14
Matrix Spike: 30773 Pest
Matrix Spike: 33881 PCB

Extraction: Pest (3510C)/ PCB (3510C) / Other(list):

Sample Number	No. in batch Pest	No. in batch PCB	No. in batch Other	Initial Vol	Final Vol	Extracted By/ Comments	TCLP QC	Extraction Fluid
M133380/33881	X	X		1000ml	5ml	MGL Rack#		
M133380/33881	X	X		↓	5ml	11		
MS78788-004	X	X		500ml	↓			
MSD78788-004	X	X		↓				
AC78788-004	7	1		↓	2.5ml			1/2 Surr.
AC78788-003	8	2		900ml	5.0ml			
AC78788-005	9	3		↓	↓			
AC78788-007	10	4		950ml				
AC78787-003	11	5		1000ml				
AC78787-005	12	6		↓				
AC78787-009	13	7		1000ml				
AC78787-014	14	8		↓				
AC78787-016	15	9		900ml				
AC78790-003	16	10		950ml				
AC78792-009	17	11		900ml				
AC78793-001	18	12		1000ml	↓			
AC78799-001	19	13		↓	1.0ml			10ml Surr.
AC78812-001		14		950ml	5.0ml			
AC78812-002		15		900ml	↓			

Cleanup: Acid ___ TBA ___ Copper ___ Florisil ___ Other ___

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	178304	Pest / PCB / Other
↓	100	184589	Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No. MGL 5/22/14	
50	10	184589	Pest / PCB / Other
		186046	Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other

Reagent Lots: MeCl2 8662 Acetone _____ Hexane 8671 Na2SO4 8665 Ether ____

MTBE _____ Copper Powder _____ Other _____

Relinquished By: MGL Date: 5/22/14
Received By: LT Date: 5/22/14

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QC33930 — Pest

QC33931 — PCB

Hampton-Clarke/Veritech

SONICATION EXTRACTION – Method 3550B

Method Blank No. SMB- _____ Date: 5/28/14
Blank Spike (SMBS): _____ Matrix Spike: 33930 – Pest
Blank Spike (SMBS): _____ Matrix Spike: 33931 – PCB

Analysis: Pest / PCB / Herb / Other

Sample Number	No. in batch				Initial Volume	Final Volume	Extracted By/Position/ Comments
	Pest 3550B	PCB 3550B	Herb	Other			
MB 33930/33931	X	X			10.0 ml	10.0 ml	BAS /
MBS 33930/33931	X	X					/ /
MS 78787-019	X	X					/ /
MSD 78787-019	X	X					/ /
Ac 78787-019	1	1					/ /
-020	2	2					/ /
-021	3	3					/ /
-022	4	4					/ /
-023	5	5					/ /
-024	6	6					/ /
-025	7	7					/ /
-026	8	8					/ /
-001	9	9					/ /
-002	10	10					/ /
-007	11	11					/ /
Ac 78744-001	12	12					/ /
-002	13	13					/ /
Ac 78871-001	14	14					/ /
-002	15	15					/ /
Ac 78804-015	16						/ /
Ac 78692-036	17						/ /
-037	18						/ /
-040	19						/ /
-042	20						/ /
							/ /
							/ /
							/ /
							/ /
							/ / Pack#
							/

Cleanup: Acid X TBA ___ Copper X Florisil ___ Other ___

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	100	V-184589	Pest / PCB / Other
	10	V-178304	

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	10	V-186046	Pest / PCB / Herb / Other

Reagent Lots: MeCL2 _____ Acetone V-8663 Hexane V-8677 Na2SO4 V-8665 Ether ___
MTBE _____ Copper Powder _____ Acetone/Hexane _____ Other _____

Relinquished By: BAS Date: 5/28/14
Received By: LT Date: 5-29-14

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QC33933 — Pest

QC33934 — PCB

Hampton-Clarke/Veritech

SONICATION EXTRACTION – Method 3550B

Method Blank No. SMB- _____ Date: 5-29-14
Blank Spike (SMBS): _____ Matrix Spike: _____
Blank Spike (SMBS): _____ Matrix Spike: _____

Analysis: Pest / PCB / Herb / Other

Sample Number 33934	No. in batch Pest 3550B	PCB 3550B	Herb	Other	Initial Volume	Final Volume	Extracted By/Position/ Comments
MB 33933	x	x			20g	10ml	SW /
MBS 33933	x						/ /
MBS 33934		x					/ /
MS78787-008	x						/ /
MSD78787-008	x						/ /
MS78780-001		x					/ /
MSD78780-001		x					/ /
AC78780-001		1					/ /
AC78780-003	2	2					/ /
AC78787-013	1	3					/ /
AC78787-014	2	4					/ /
AC78787-015	3	5					/ /
AC78787-018	4	6					/ /
AC78790-001	5	7					/ /
AC78790-002	6	8					/ /
AC78792-001	7	9					/ /
AC78792-003	8	10					/ /
AC78792-005	9	11					/ /
AC78792-007	10	12					/ /
AC78826-001	11	13					/ /
AC78826-002	12	14					/ /
AC78818-001	13	15					/ /
AC78818-002	14	16					/ /
AC78824-001	15	17					/ /
AC78824-003	16	18					/ /
AC78824-005	17	19					/ /
							/ /
							/ /
							/ /
							/

Cleanup: Acid ___ TBA ___ Copper ___ Florisil ___ Other ___

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	10	178334	Pest / PCB / Other

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	10	186046	Pest / PCB / Herb / Other

Reagent Lots: MeCL2 _____ Acetone 8663 Hexane 8677 Na2SO4 8665 Ether ___
MTBE _____ Copper Powder _____ Acetone/Hexane _____ Other _____

Relinquished By: SW Date: 5-29-14
Received By: LT Date: 5.29.14

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QC30773 QC30774

Hampton-Clarke/Veritech

Method Blank No. WMB- _____
Blank Spike (WMBS): _____
Blank Spike (WMBS): _____

Date: 5-5-14
Matrix Spike: 30773 - Pest
Matrix Spike: 30774 - PCB

Extraction: Pest (3510C)/ PCB (3510C) / Other(list):

Sample Number	No. in batch			Initial Vol	Final Vol	Extracted By/ Comments LV	TCLP QC	Extraction Fluid
	Pest	PCB	Other					
MB 30773/74	X	X		1000ml	5ml			
MBS 30773/74	X	X		↓	↓			
MS 78482-005	X			500ml	↓			
MSD 78482-005	X			↓	↓			
MS 78503-001		X		↓	↓			
MSD 78503-001		X		↓	↓			
AC 78482-005	1	1		↓	2.5ml	1/2 Sum		
AC 78482-001	2	2		1000ml	5ml	↓		
AC 78482-007	3	3		960ml	↓	↓		
AC 78482-009	4	4		1000ml	↓	↓		
AC 78482-011	5	5		920ml	↓	↓		
AC 78482-013	6	6		1000ml	↓	↓		
AC 78503-001		7		500ml	2.5ml	1/2 Sum		
AC 78503-002		8		880ml	↓	↓		
AC 78503-003		9		↓	↓	↓		
AC 78503-004		10		750ml	2.5ml	↓		
AC 78503-005		11		900ml	5ml	↓		
AC 78503-006		12		900ml	↓	↓		
AC 78503-007		13		900ml	↓	↓		
AC 78503-008		14		900ml	↓	↓		
						Rack# 42		

Cleanup: Acid ___ TBA ___ Copper ___ Florisil ___ Other ___

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	V-178304	Pest / PCB / Other
↓	100	V-184589	Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	V-180619	Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other

Reagent Lots: MeCl2 8644 Acetone _____ Hexane 8635 Na2SO4 8614 Ether ___

MTBE _____ Copper Powder _____ Other _____

Relinquished By: LV Date: 5-5-14
Received By: LT Date: 5.5.14

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Metal Data

Metal Data
Sample Data

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-001	% Solid:	82	Lab Name:	Veritech	Nras No:	
Client Id:	EXT1(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.98	6.3	1	0.5	100	05/23/14	32818	S052314B	29	MS	MS2_7500SWA
7440-41-7	Beryllium	0.24	0.30	1	0.5	100	05/23/14	32818	S052314B	29	MS	MS2_7500SWA
7440-43-9	Cadmium	0.49	1.6	1	0.5	100	05/23/14	32818	S052314B	29	MS	MS2_7500SWA
7782-49-2	Selenium	2.4	ND	1	0.5	100	05/23/14	32818	S052314B	29	MS	MS2_7500SWA
7440-22-4	Silver	0.24	0.74	1	0.5	100	05/23/14	32818	S052314B	29	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-001	% Solid:	82	Lab Name:	Veritech	Nras No:	
Client Id:	EXT1(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	240	3500	1	0.5	50	05/23/14	32817	S16379B3	23	P	PEICPRAD3A
7440-38-2	Arsenic	4.9	660	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-39-3	Barium	12	630	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-70-2	Calcium	1200	5400	1	0.5	50	05/23/14	32817	S16379B3	23	P	PEICPRAD3A
7440-47-3	Chromium	6.1	20	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-48-4	Cobalt	3.0	8.5	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-50-8	Copper	6.1	540	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7439-89-6	Iron	240	33000	1	0.5	50	05/23/14	32817	S16379B3	23	P	PEICPRAD3A
7439-92-1	Lead	6.1	1200	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7439-95-4	Magnesium	610	1100	1	0.5	50	05/23/14	32817	S16379B3	23	P	PEICPRAD3A
7439-96-5	Manganese	12	280	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7439-97-6	Mercury	4.1	170	40	0.15	25	06/02/14	32817	H16379Sc	11	CV	HGCV2A
7440-02-0	Nickel	6.1	58	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-09-7	Potassium	610	690	1	0.5	50	05/23/14	32817	S16379B3	23	P	PEICPRAD3A
7440-23-5	Sodium	300	ND	1	0.5	50	05/23/14	32817	S16379B3	23	P	PEICPRAD3A
7440-28-0	Thallium	1.8	ND	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-62-2	Vanadium	12	16	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A
7440-66-6	Zinc	12	610	1	0.5	50	05/22/14	32817	S16379A3	24	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-002	% Solid:	87	Lab Name:	Veritech	Nras No:	
Client Id:	EXT1(15-17')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.92	ND	1	0.5	100	05/23/14	32818	S052314B	30	MS	MS2_7500SWA
7440-41-7	Beryllium	0.23	ND	1	0.5	100	05/23/14	32818	S052314B	30	MS	MS2_7500SWA
7440-43-9	Cadmium	0.46	ND	1	0.5	100	05/23/14	32818	S052314B	30	MS	MS2_7500SWA
7782-49-2	Selenium	2.3	ND	1	0.5	100	05/23/14	32818	S052314B	30	MS	MS2_7500SWA
7440-22-4	Silver	0.23	ND	1	0.5	100	05/23/14	32818	S052314B	30	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-002	% Solid:	87	Lab Name:	Veritech	Nras No:	
Client Id:	EXT1(15-17')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	230	5200	1	0.5	50	05/23/14	32817	S16379B3	24	P	PEICPRAD3A
7440-38-2	Arsenic	4.6	48	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-39-3	Barium	11	280	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-70-2	Calcium	1100	62000	1	0.5	50	05/23/14	32817	S16379B3	24	P	PEICPRAD3A
7440-47-3	Chromium	5.7	14	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-48-4	Cobalt	2.9	4.7	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-50-8	Copper	5.7	47	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7439-89-6	Iron	230	12000	1	0.5	50	05/23/14	32817	S16379B3	24	P	PEICPRAD3A
7439-92-1	Lead	5.7	660	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7439-95-4	Magnesium	570	6600	1	0.5	50	05/23/14	32817	S16379B3	24	P	PEICPRAD3A
7439-96-5	Manganese	11	430	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7439-97-6	Mercury	0.096	4.0	1	0.15	25	06/02/14	32817	H16379Sc	12	CV	HGCV2A
7440-02-0	Nickel	5.7	16	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-09-7	Potassium	570	950	1	0.5	50	05/23/14	32817	S16379B3	24	P	PEICPRAD3A
7440-23-5	Sodium	290	ND	1	0.5	50	05/23/14	32817	S16379B3	24	P	PEICPRAD3A
7440-28-0	Thallium	1.7	ND	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-62-2	Vanadium	11	22	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A
7440-66-6	Zinc	11	230	1	0.5	50	05/22/14	32817	S16379A3	25	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-003	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 1 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/29/14	32819	SW52814A	44	MS	MS2_7500SWA
7440-38-2	Arsenic	10	6500	5	50	100	05/29/14	32819	SW52814A	47	MS	MS2_7500SWA
7440-41-7	Beryllium	5.0	16	5	50	100	05/29/14	32819	SW52814A	47	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	6.2	1	50	100	05/29/14	32819	SW52814A	44	MS	MS2_7500SWA
7440-48-4	Cobalt	10	390	5	50	100	05/29/14	32819	SW52814A	47	MS	MS2_7500SWA
7439-92-1	Lead	3.0	510	1	50	100	05/29/14	32819	SW52814A	44	MS	MS2_7500SWA
7782-49-2	Selenium	10	37	1	50	100	05/29/14	32819	SW52814A	44	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	4.0	1	50	100	05/29/14	32819	SW52814A	44	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-003	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 1 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	260000	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-39-3	Barium	50	2700	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-70-2	Calcium	5000	86000	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-47-3	Chromium	50	1100	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-50-8	Copper	50	1000	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7439-89-6	Iron	600	590000	2	50	50	05/28/14	32819	W16381C2	21	P	PEICP2A
7439-95-4	Magnesium	5000	250000	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7439-96-5	Manganese	40	14000	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	18	CV	HGCV1A
7440-02-0	Nickel	50	2000	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-09-7	Potassium	10000	79000	2	50	50	05/28/14	32819	W16381D2	23	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-23-5	Sodium	10000	41000	2	50	50	05/28/14	32819	W16381D2	23	P	PEICPRAD2A
7440-62-2	Vanadium	50	700	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A
7440-66-6	Zinc	50	2300	1	50	50	05/27/14	32819	W16381A2	24	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-004	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 1 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	490	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	35	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-004	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 1 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-70-2	Calcium	5000	16000	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7439-95-4	Magnesium	5000	6300	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	19	CV	HGCV1A
7440-02-0	Nickel	50	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-09-7	Potassium	5000	5100	1	50	50	05/27/14	32819	W16381B2	24	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-23-5	Sodium	5000	32000	1	50	50	05/28/14	32819	W16381D2	24	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	05/27/14	32819	W16381A2	25	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-005	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	FB052014 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	19	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-005	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	FB052014 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-70-2	Calcium	5000	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7439-95-4	Magnesium	5000	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	20	CV	HGCV1A
7440-02-0	Nickel	50	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	50	50	05/28/14	32819	W16381D2	25	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-23-5	Sodium	5000	ND	1	50	50	05/28/14	32819	W16381D2	25	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	05/27/14	32819	W16381A2	26	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-006	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	FB052014 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	20	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-006	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	FB052014 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-70-2	Calcium	5000	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7439-95-4	Magnesium	5000	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	23	CV	HGCV1A
7440-02-0	Nickel	50	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	50	50	05/28/14	32819	W16381D2	26	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-23-5	Sodium	5000	ND	1	50	50	05/28/14	32819	W16381D2	26	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	05/27/14	32819	W16381A2	27	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-007	% Solid:	83	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	0.97	1	0.5	100	05/23/14	32818	S052314B	31	MS	MS2_7500SWA
7440-41-7	Beryllium	0.24	0.43	1	0.5	100	05/23/14	32818	S052314B	31	MS	MS2_7500SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	05/23/14	32818	S052314B	31	MS	MS2_7500SWA
7782-49-2	Selenium	2.4	2.7	1	0.5	100	05/23/14	32818	S052314B	31	MS	MS2_7500SWA
7440-22-4	Silver	0.24	0.25	1	0.5	100	05/23/14	32818	S052314B	31	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-007	% Solid:	83	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	240	3500	1	0.5	50	05/23/14	32817	S16379B3	25	P	PEICPRAD3A
7440-38-2	Arsenic	4.8	480	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-39-3	Barium	12	570	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-70-2	Calcium	1200	4400	1	0.5	50	05/23/14	32817	S16379B3	25	P	PEICPRAD3A
7440-47-3	Chromium	6.0	27	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-48-4	Cobalt	3.0	9.2	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-50-8	Copper	6.0	1200	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7439-89-6	Iron	240	14000	1	0.5	50	05/23/14	32817	S16379B3	25	P	PEICPRAD3A
7439-92-1	Lead	6.0	810	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7439-95-4	Magnesium	600	600	1	0.5	50	05/23/14	32817	S16379B3	25	P	PEICPRAD3A
7439-96-5	Manganese	12	120	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7439-97-6	Mercury	2.0	90	20	0.15	25	06/02/14	32817	H16379Sc	13	CV	HGCV2A
7440-02-0	Nickel	6.0	18	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-09-7	Potassium	600	ND	1	0.5	50	05/23/14	32817	S16379B3	25	P	PEICPRAD3A
7440-23-5	Sodium	300	ND	1	0.5	50	05/23/14	32817	S16379B3	25	P	PEICPRAD3A
7440-28-0	Thallium	1.8	ND	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-62-2	Vanadium	12	15	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A
7440-66-6	Zinc	12	200	1	0.5	50	05/22/14	32817	S16379A3	26	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-008	% Solid:	95	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2(15-17')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.84	ND	1	0.5	100	05/23/14	32818	S052314B	32	MS	MS2_7500SWA
7440-41-7	Beryllium	0.21	ND	1	0.5	100	05/23/14	32818	S052314B	32	MS	MS2_7500SWA
7440-43-9	Cadmium	0.42	ND	1	0.5	100	05/23/14	32818	S052314B	32	MS	MS2_7500SWA
7782-49-2	Selenium	2.1	ND	1	0.5	100	05/23/14	32818	S052314B	32	MS	MS2_7500SWA
7440-22-4	Silver	0.21	ND	1	0.5	100	05/23/14	32818	S052314B	32	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-008	% Solid:	95	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2(15-17')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	210	5000	1	0.5	50	05/23/14	32817	S16379B3	26	P	PEICPRAD3A
7440-38-2	Arsenic	4.2	6.7	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-39-3	Barium	11	45	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-70-2	Calcium	1100	2900	1	0.5	50	05/23/14	32817	S16379B3	26	P	PEICPRAD3A
7440-47-3	Chromium	5.3	16	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-48-4	Cobalt	2.6	6.6	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-50-8	Copper	5.3	17	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7439-89-6	Iron	210	11000	1	0.5	50	05/23/14	32817	S16379B3	26	P	PEICPRAD3A
7439-92-1	Lead	5.3	24	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7439-95-4	Magnesium	530	2700	1	0.5	50	05/23/14	32817	S16379B3	26	P	PEICPRAD3A
7439-96-5	Manganese	11	220	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7439-97-6	Mercury	0.088	0.90	1	0.15	25	06/02/14	32817	H16379Sc	14	CV	HGCV2A
7440-02-0	Nickel	5.3	39	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-09-7	Potassium	530	930	1	0.5	50	05/23/14	32817	S16379B3	26	P	PEICPRAD3A
7440-23-5	Sodium	260	ND	1	0.5	50	05/23/14	32817	S16379B3	26	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-62-2	Vanadium	11	19	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A
7440-66-6	Zinc	11	38	1	0.5	50	05/22/14	32817	S16379A3	27	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-009	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	DUP052014 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	2800	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	2.5	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	100	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7439-92-1	Lead	3.0	710	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7782-49-2	Selenium	10	23	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	36	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-009	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	DUP052014 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	48000	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-39-3	Barium	50	880	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-70-2	Calcium	5000	63000	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-47-3	Chromium	50	190	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-50-8	Copper	50	170	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7439-89-6	Iron	300	100000	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7439-95-4	Magnesium	5000	69000	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7439-96-5	Manganese	40	4600	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7439-97-6	Mercury	0.70	14	1	25	25	05/28/14	32819	H16381SW	24	CV	HGCV1A
7440-02-0	Nickel	50	840	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-09-7	Potassium	5000	19000	1	50	50	05/27/14	32819	W16381B2	32	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-23-5	Sodium	5000	20000	1	50	50	05/28/14	32819	W16381D2	32	P	PEICPRAD2A
7440-62-2	Vanadium	50	160	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A
7440-66-6	Zinc	50	460	1	50	50	05/27/14	32819	W16381A2	33	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-010	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	DUP052014 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	1400	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7782-49-2	Selenium	10	17	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	37	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-010	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	DUP052014 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-70-2	Calcium	5000	29000	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7439-95-4	Magnesium	5000	9100	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	25	CV	HGCV1A
7440-02-0	Nickel	50	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-09-7	Potassium	5000	6700	1	50	50	05/27/14	32819	W16381B2	33	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-23-5	Sodium	5000	19000	1	50	50	05/28/14	32819	W16381D2	33	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	05/27/14	32819	W16381A2	34	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-011	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/29/14	32819	SW52814A	45	MS	MS2_7500SWA
7440-38-2	Arsenic	10	13000	5	50	100	05/29/14	32819	SW52814A	49	MS	MS2_7500SWA
7440-41-7	Beryllium	5.0	23	5	50	100	05/29/14	32819	SW52814A	49	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	17	1	50	100	05/29/14	32819	SW52814A	45	MS	MS2_7500SWA
7440-48-4	Cobalt	10	1100	5	50	100	05/29/14	32819	SW52814A	49	MS	MS2_7500SWA
7439-92-1	Lead	15	11000	5	50	100	05/29/14	32819	SW52814A	49	MS	MS2_7500SWA
7782-49-2	Selenium	10	87	1	50	100	05/29/14	32819	SW52814A	45	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	8.1	1	50	100	05/29/14	32819	SW52814A	45	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-011	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	400	470000	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-39-3	Barium	100	11000	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-70-2	Calcium	10000	450000	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-47-3	Chromium	100	1400	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-50-8	Copper	100	1800	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7439-89-6	Iron	1200	1100000	4	50	50	05/28/14	32819	W16381C2	23	P	PEICP2A
7439-95-4	Magnesium	10000	720000	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7439-96-5	Manganese	80	40000	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7439-97-6	Mercury	7.0	250	10	25	25	05/28/14	32819	H16381SW	35	CV	HGCV1A
7440-02-0	Nickel	100	8500	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-09-7	Potassium	10000	130000	2	50	50	05/28/14	32819	W16381D2	34	P	PEICPRAD2A
7440-22-4	Silver	40	ND	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-23-5	Sodium	10000	25000	2	50	50	05/28/14	32819	W16381D2	34	P	PEICPRAD2A
7440-62-2	Vanadium	100	1500	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A
7440-66-6	Zinc	100	4900	2	50	50	05/28/14	32819	W16381C2	22	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-012	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	600	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7782-49-2	Selenium	10	23	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/29/14	32819	SW52814A	42	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-012	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 2 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-70-2	Calcium	5000	31000	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7439-95-4	Magnesium	5000	9500	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	27	CV	HGCV1A
7440-02-0	Nickel	50	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-09-7	Potassium	5000	7600	1	50	50	05/27/14	32819	W16381B2	35	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-23-5	Sodium	5000	18000	1	50	50	05/28/14	32819	W16381D2	35	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	05/27/14	32819	W16381A2	36	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-014	% Solid:	91	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.88	0.97	1	0.5	100	05/23/14	32818	S052314B	33	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	0.24	1	0.5	100	05/23/14	32818	S052314B	33	MS	MS2_7500SWA
7440-43-9	Cadmium	0.44	ND	1	0.5	100	05/23/14	32818	S052314B	33	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	33	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	33	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-014	% Solid:	91	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	5400	1	0.5	50	05/23/14	32817	S16379B3	27	P	PEICPRAD3A
7440-38-2	Arsenic	4.4	20	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-39-3	Barium	11	88	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-70-2	Calcium	1100	13000	1	0.5	50	05/23/14	32817	S16379B3	27	P	PEICPRAD3A
7440-47-3	Chromium	5.5	12	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-48-4	Cobalt	2.7	5.2	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-50-8	Copper	5.5	34	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7439-89-6	Iron	220	11000	1	0.5	50	05/23/14	32817	S16379B3	27	P	PEICPRAD3A
7439-92-1	Lead	5.5	160	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7439-95-4	Magnesium	550	3400	1	0.5	50	05/23/14	32817	S16379B3	27	P	PEICPRAD3A
7439-96-5	Manganese	11	180	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7439-97-6	Mercury	0.18	7.1	2	0.15	25	06/02/14	32817	H16379Sc	15	CV	HGCV2A
7440-02-0	Nickel	5.5	23	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-09-7	Potassium	550	1100	1	0.5	50	05/23/14	32817	S16379B3	27	P	PEICPRAD3A
7440-23-5	Sodium	270	ND	1	0.5	50	05/23/14	32817	S16379B3	27	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-62-2	Vanadium	11	18	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A
7440-66-6	Zinc	11	71	1	0.5	50	05/22/14	32817	S16379A3	28	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-015	% Solid:	89	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3(15-17')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.90	ND	1	0.5	100	05/23/14	32818	S052314B	19	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	19	MS	MS2_7500SWA
7440-43-9	Cadmium	0.45	ND	1	0.5	100	05/23/14	32818	S052314B	19	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	19	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	19	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-015	% Solid:	89	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3(15-17')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	6100	1	1	100	05/23/14	32817	S16379B3	14	P	PEICPRAD3A
7440-38-2	Arsenic	4.5	14	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-39-3	Barium	11	80	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-70-2	Calcium	1100	25000	1	1	100	05/23/14	32817	S16379B3	14	P	PEICPRAD3A
7440-47-3	Chromium	5.6	21	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-48-4	Cobalt	2.8	4.5	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-50-8	Copper	5.6	21	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7439-89-6	Iron	220	9900	1	1	100	05/23/14	32817	S16379B3	14	P	PEICPRAD3A
7439-92-1	Lead	5.6	250	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7439-95-4	Magnesium	560	4400	1	1	100	05/23/14	32817	S16379B3	14	P	PEICPRAD3A
7439-96-5	Manganese	11	270	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7439-97-6	Mercury	0.19	5.1	2	0.15	25	06/02/14	32817	H16379Sb	16	CV	HGCV2A
7440-02-0	Nickel	5.6	23	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-09-7	Potassium	560	830	1	1	100	05/23/14	32817	S16379B3	14	P	PEICPRAD3A
7440-23-5	Sodium	280	380	1	1	100	05/23/14	32817	S16379B3	14	P	PEICPRAD3A
7440-28-0	Thallium	1.7	ND	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-62-2	Vanadium	11	16	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A
7440-66-6	Zinc	11	64	1	1	100	05/22/14	32817	S16379A3	15	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-016	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	4.0	5.0	1	25	100	05/29/14	32819	SW52814A	46	MS	MS2_7500SWA
7440-38-2	Arsenic	40	36000	10	25	100	05/29/14	32819	SW52814A	56	MS	MS2_7500SWA
7440-41-7	Beryllium	20	84	10	25	100	05/29/14	32819	SW52814A	56	MS	MS2_7500SWA
7440-43-9	Cadmium	4.0	55	1	25	100	05/29/14	32819	SW52814A	46	MS	MS2_7500SWA
7440-48-4	Cobalt	40	2800	10	25	100	05/29/14	32819	SW52814A	56	MS	MS2_7500SWA
7439-92-1	Lead	60	48000	10	25	100	05/29/14	32819	SW52814A	56	MS	MS2_7500SWA
7782-49-2	Selenium	20	220	1	25	100	05/29/14	32819	SW52814A	46	MS	MS2_7500SWA
7440-28-0	Thallium	4.0	21	1	25	100	05/29/14	32819	SW52814A	46	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-016	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	800	1400000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-39-3	Barium	200	20000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-70-2	Calcium	20000	1300000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-47-3	Chromium	200	4500	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-50-8	Copper	200	6900	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7439-89-6	Iron	2400	3000000	4	25	50	05/28/14	32819	W16381C2	25	P	PEICP2A
7439-95-4	Magnesium	20000	2300000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7439-96-5	Manganese	160	99000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7439-97-6	Mercury	7.0	220	10	25	25	05/28/14	32819	H16381SW	36	CV	HGCV1A
7440-02-0	Nickel	200	32000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-09-7	Potassium	40000	420000	4	25	50	05/28/14	32819	W16381D2	37	P	PEICPRAD2A
7440-22-4	Silver	80	ND	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-23-5	Sodium	40000	81000	4	25	50	05/28/14	32819	W16381D2	37	P	PEICPRAD2A
7440-62-2	Vanadium	200	3400	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A
7440-66-6	Zinc	200	17000	2	25	50	05/28/14	32819	W16381C2	24	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-017	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	460	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/29/14	32819	SW52814A	43	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-017	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-70-2	Calcium	5000	80000	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7439-95-4	Magnesium	5000	14000	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	29	CV	HGCV1A
7440-02-0	Nickel	50	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-09-7	Potassium	5000	14000	1	50	50	05/27/14	32819	W16381B2	37	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-23-5	Sodium	5000	49000	1	50	50	05/28/14	32819	W16381D2	38	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	05/27/14	32819	W16381A2	38	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-018	% Solid:	87	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3(27-29')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.92	ND	1	0.5	100	05/23/14	32818	S052314B	34	MS	MS2_7500SWA
7440-41-7	Beryllium	0.23	ND	1	0.5	100	05/23/14	32818	S052314B	34	MS	MS2_7500SWA
7440-43-9	Cadmium	0.46	ND	1	0.5	100	05/23/14	32818	S052314B	34	MS	MS2_7500SWA
7782-49-2	Selenium	2.3	ND	1	0.5	100	05/23/14	32818	S052314B	34	MS	MS2_7500SWA
7440-22-4	Silver	0.23	ND	1	0.5	100	05/23/14	32818	S052314B	34	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-018	% Solid:	87	Lab Name:	Veritech	Nras No:	
Client Id:	EXT 3(27-29')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	230	3700	1	0.5	50	05/23/14	32817	S16379B3	33	P	PEICPRAD3A
7440-38-2	Arsenic	4.6	66	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-39-3	Barium	11	33	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-70-2	Calcium	1100	5800	1	0.5	50	05/23/14	32817	S16379B3	33	P	PEICPRAD3A
7440-47-3	Chromium	5.7	21	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-48-4	Cobalt	2.9	9.9	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-50-8	Copper	5.7	16	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7439-89-6	Iron	230	13000	1	0.5	50	05/23/14	32817	S16379B3	33	P	PEICPRAD3A
7439-92-1	Lead	5.7	27	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7439-95-4	Magnesium	570	12000	1	0.5	50	05/23/14	32817	S16379B3	33	P	PEICPRAD3A
7439-96-5	Manganese	11	180	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7439-97-6	Mercury	0.096	ND	1	0.15	25	06/02/14	32817	H16379Sc	16	CV	HGCV2A
7440-02-0	Nickel	5.7	150	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-09-7	Potassium	570	1200	1	0.5	50	05/23/14	32817	S16379B3	33	P	PEICPRAD3A
7440-23-5	Sodium	290	ND	1	0.5	50	05/23/14	32817	S16379B3	33	P	PEICPRAD3A
7440-28-0	Thallium	1.7	ND	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-62-2	Vanadium	11	18	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A
7440-66-6	Zinc	11	55	1	0.5	50	05/22/14	32817	S16379A3	34	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-019	% Solid:	92	Lab Name:	Veritech	Nras No:	
Client Id:	SUMP1(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.87	ND	1	0.5	100	05/23/14	32818	S052314B	35	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	0.29	1	0.5	100	05/23/14	32818	S052314B	35	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	05/23/14	32818	S052314B	35	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	35	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	35	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-019	% Solid:	92	Lab Name:	Veritech	Nras No:	
Client Id:	SUMP1(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	6700	1	0.5	50	05/23/14	32817	S16379B3	34	P	PEICPRAD3A
7440-38-2	Arsenic	4.3	97	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-39-3	Barium	11	62	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-70-2	Calcium	1100	7300	1	0.5	50	05/23/14	32817	S16379B3	34	P	PEICPRAD3A
7440-47-3	Chromium	5.4	16	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-48-4	Cobalt	2.7	5.5	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-50-8	Copper	5.4	65	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7439-89-6	Iron	220	11000	1	0.5	50	05/23/14	32817	S16379B3	34	P	PEICPRAD3A
7439-92-1	Lead	5.4	38	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7439-95-4	Magnesium	540	3200	1	0.5	50	05/23/14	32817	S16379B3	34	P	PEICPRAD3A
7439-96-5	Manganese	11	180	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7439-97-6	Mercury	0.091	0.16	1	0.15	25	06/02/14	32817	H16379Sc	17	CV	HGCV2A
7440-02-0	Nickel	5.4	44	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-09-7	Potassium	540	1200	1	0.5	50	05/23/14	32817	S16379B3	34	P	PEICPRAD3A
7440-23-5	Sodium	270	ND	1	0.5	50	05/23/14	32817	S16379B3	34	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-62-2	Vanadium	11	19	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A
7440-66-6	Zinc	11	53	1	0.5	50	05/22/14	32817	S16379A3	35	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-020	% Solid:	94	Lab Name:	Veritech	Nras No:	
Client Id:	SUMP1(3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.85	ND	1	0.5	100	05/23/14	32818	S052314B	36	MS	MS2_7500SWA
7440-41-7	Beryllium	0.21	0.25	1	0.5	100	05/23/14	32818	S052314B	36	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	05/23/14	32818	S052314B	36	MS	MS2_7500SWA
7782-49-2	Selenium	2.1	ND	1	0.5	100	05/23/14	32818	S052314B	36	MS	MS2_7500SWA
7440-22-4	Silver	0.21	ND	1	0.5	100	05/23/14	32818	S052314B	36	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-020	% Solid:	94	Lab Name:	Veritech	Nras No:	
Client Id:	SUMP1(3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	210	6600	1	0.5	50	05/23/14	32817	S16379B3	35	P	PEICPRAD3A
7440-38-2	Arsenic	4.3	10	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-39-3	Barium	11	55	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-70-2	Calcium	1100	6000	1	0.5	50	05/23/14	32817	S16379B3	35	P	PEICPRAD3A
7440-47-3	Chromium	5.3	22	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-48-4	Cobalt	2.7	11	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-50-8	Copper	5.3	32	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7439-89-6	Iron	210	12000	1	0.5	50	05/23/14	32817	S16379B3	35	P	PEICPRAD3A
7439-92-1	Lead	5.3	10	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7439-95-4	Magnesium	530	3700	1	0.5	50	05/23/14	32817	S16379B3	35	P	PEICPRAD3A
7439-96-5	Manganese	11	350	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7439-97-6	Mercury	0.089	ND	1	0.15	25	06/02/14	32817	H16379Sc	18	CV	HGCV2A
7440-02-0	Nickel	5.3	48	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-09-7	Potassium	530	1100	1	0.5	50	05/23/14	32817	S16379B3	35	P	PEICPRAD3A
7440-23-5	Sodium	270	ND	1	0.5	50	05/23/14	32817	S16379B3	35	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-62-2	Vanadium	11	20	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A
7440-66-6	Zinc	11	34	1	0.5	50	05/22/14	32817	S16379A3	36	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-021	% Solid:	89	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 1(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.90	ND	1	0.5	100	05/23/14	32818	S052314B	37	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	0.28	1	0.5	100	05/23/14	32818	S052314B	37	MS	MS2_7500SWA
7440-43-9	Cadmium	0.45	1.5	1	0.5	100	05/23/14	32818	S052314B	37	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	37	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	37	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-021	% Solid:	89	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 1(0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	7300	1	0.5	50	05/23/14	32817	S16379B3	36	P	PEICPRAD3A
7440-38-2	Arsenic	4.5	37	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-39-3	Barium	11	130	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-70-2	Calcium	1100	20000	1	0.5	50	05/23/14	32817	S16379B3	36	P	PEICPRAD3A
7440-47-3	Chromium	5.6	560	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-48-4	Cobalt	2.8	6.8	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-50-8	Copper	5.6	48	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7439-89-6	Iron	220	15000	1	0.5	50	05/23/14	32817	S16379B3	36	P	PEICPRAD3A
7439-92-1	Lead	5.6	370	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7439-95-4	Magnesium	560	4800	1	0.5	50	05/23/14	32817	S16379B3	36	P	PEICPRAD3A
7439-96-5	Manganese	11	360	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7439-97-6	Mercury	0.094	3.7	1	0.15	25	06/02/14	32817	H16379Sc	23	CV	HGCV2A
7440-02-0	Nickel	5.6	43	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-09-7	Potassium	560	1900	1	0.5	50	05/23/14	32817	S16379B3	36	P	PEICPRAD3A
7440-23-5	Sodium	280	ND	1	0.5	50	05/23/14	32817	S16379B3	36	P	PEICPRAD3A
7440-28-0	Thallium	1.7	ND	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-62-2	Vanadium	11	24	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A
7440-66-6	Zinc	11	330	1	0.5	50	05/22/14	32817	S16379A3	37	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-022	% Solid:	93	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 1(3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.86	ND	1	0.5	100	05/23/14	32818	S052314B	42	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	42	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	05/23/14	32818	S052314B	42	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	42	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	42	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-022	% Solid:	93	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 1(3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	5900	1	0.5	50	05/23/14	32817	S16379B3	37	P	PEICPRAD3A
7440-38-2	Arsenic	4.3	5.4	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-39-3	Barium	11	41	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-70-2	Calcium	1100	11000	1	0.5	50	05/23/14	32817	S16379B3	37	P	PEICPRAD3A
7440-47-3	Chromium	5.4	53	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-48-4	Cobalt	2.7	5.8	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-50-8	Copper	5.4	21	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7439-89-6	Iron	220	12000	1	0.5	50	05/23/14	32817	S16379B3	37	P	PEICPRAD3A
7439-92-1	Lead	5.4	77	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7439-95-4	Magnesium	540	9800	1	0.5	50	05/23/14	32817	S16379B3	37	P	PEICPRAD3A
7439-96-5	Manganese	11	190	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7439-97-6	Mercury	0.090	1.1	1	0.15	25	06/02/14	32817	H16379Sc	20	CV	HGCV2A
7440-02-0	Nickel	5.4	40	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-09-7	Potassium	540	2000	1	0.5	50	05/23/14	32817	S16379B3	37	P	PEICPRAD3A
7440-23-5	Sodium	270	ND	1	0.5	50	05/23/14	32817	S16379B3	37	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-62-2	Vanadium	11	18	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A
7440-66-6	Zinc	11	87	1	0.5	50	05/22/14	32817	S16379A3	38	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-023	% Solid:	93	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 2 (0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.86	ND	1	0.5	100	05/23/14	32818	S052314B	43	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	0.22	1	0.5	100	05/23/14	32818	S052314B	43	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	05/23/14	32818	S052314B	43	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	43	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	43	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-023	% Solid:	93	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 2 (0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	4800	1	0.5	50	05/23/14	32817	S16379B3	38	P	PEICPRAD3A
7440-38-2	Arsenic	4.3	19	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-39-3	Barium	11	43	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-70-2	Calcium	1100	15000	1	0.5	50	05/23/14	32817	S16379B3	38	P	PEICPRAD3A
7440-47-3	Chromium	5.4	11	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-48-4	Cobalt	2.7	4.1	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-50-8	Copper	5.4	17	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7439-89-6	Iron	220	8300	1	0.5	50	05/23/14	32817	S16379B3	38	P	PEICPRAD3A
7439-92-1	Lead	5.4	37	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7439-95-4	Magnesium	540	3900	1	0.5	50	05/23/14	32817	S16379B3	38	P	PEICPRAD3A
7439-96-5	Manganese	11	240	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7439-97-6	Mercury	0.090	0.091	1	0.15	25	06/02/14	32817	H16379Sc	24	CV	HGCV2A
7440-02-0	Nickel	5.4	24	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-09-7	Potassium	540	1300	1	0.5	50	05/23/14	32817	S16379B3	38	P	PEICPRAD3A
7440-23-5	Sodium	270	ND	1	0.5	50	05/23/14	32817	S16379B3	38	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-62-2	Vanadium	11	15	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A
7440-66-6	Zinc	11	27	1	0.5	50	05/22/14	32817	S16379A3	39	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-024	% Solid:	95	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 2 (3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.84	ND	1	0.5	100	05/23/14	32818	S052314B	44	MS	MS2_7500SWA
7440-41-7	Beryllium	0.21	ND	1	0.5	100	05/23/14	32818	S052314B	44	MS	MS2_7500SWA
7440-43-9	Cadmium	0.42	ND	1	0.5	100	05/23/14	32818	S052314B	44	MS	MS2_7500SWA
7782-49-2	Selenium	2.1	ND	1	0.5	100	05/23/14	32818	S052314B	44	MS	MS2_7500SWA
7440-22-4	Silver	0.21	ND	1	0.5	100	05/23/14	32818	S052314B	44	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-024	% Solid:	95	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 2 (3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	210	5900	1	0.5	50	05/23/14	32817	S16379B3	39	P	PEICPRAD3A
7440-38-2	Arsenic	4.2	5.2	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-39-3	Barium	11	52	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-70-2	Calcium	1100	13000	1	0.5	50	05/23/14	32817	S16379B3	39	P	PEICPRAD3A
7440-47-3	Chromium	5.3	14	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-48-4	Cobalt	2.6	4.8	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-50-8	Copper	5.3	18	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7439-89-6	Iron	210	11000	1	0.5	50	05/23/14	32817	S16379B3	39	P	PEICPRAD3A
7439-92-1	Lead	5.3	8.6	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7439-95-4	Magnesium	530	4000	1	0.5	50	05/23/14	32817	S16379B3	39	P	PEICPRAD3A
7439-96-5	Manganese	11	230	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7439-97-6	Mercury	0.088	ND	1	0.15	25	06/02/14	32817	H16379Sc	25	CV	HGCV2A
7440-02-0	Nickel	5.3	30	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-09-7	Potassium	530	1900	1	0.5	50	05/23/14	32817	S16379B3	39	P	PEICPRAD3A
7440-23-5	Sodium	260	ND	1	0.5	50	05/23/14	32817	S16379B3	39	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-62-2	Vanadium	11	19	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A
7440-66-6	Zinc	11	34	1	0.5	50	05/22/14	32817	S16379A3	40	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-025	% Solid:	92	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 3 (0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.87	ND	1	0.5	100	05/23/14	32818	S052314B	45	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	0.30	1	0.5	100	05/23/14	32818	S052314B	45	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	05/23/14	32818	S052314B	45	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	45	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	45	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-025	% Solid:	92	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 3 (0-2')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	6600	1	0.5	50	05/23/14	32817	S16379B3	45	P	PEICPRAD3A
7440-38-2	Arsenic	4.3	37	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-39-3	Barium	11	67	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-70-2	Calcium	1100	20000	1	0.5	50	05/23/14	32817	S16379B3	45	P	PEICPRAD3A
7440-47-3	Chromium	5.4	14	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-48-4	Cobalt	2.7	5.4	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-50-8	Copper	5.4	30	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7439-89-6	Iron	220	12000	1	0.5	50	05/23/14	32817	S16379B3	45	P	PEICPRAD3A
7439-92-1	Lead	5.4	79	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7439-95-4	Magnesium	540	4700	1	0.5	50	05/23/14	32817	S16379B3	45	P	PEICPRAD3A
7439-96-5	Manganese	11	340	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7439-97-6	Mercury	0.091	0.16	1	0.15	25	06/02/14	32817	H16379Sc	26	CV	HGCV2A
7440-02-0	Nickel	5.4	32	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-09-7	Potassium	540	1700	1	0.5	50	05/23/14	32817	S16379B3	45	P	PEICPRAD3A
7440-23-5	Sodium	270	280	1	0.5	50	05/23/14	32817	S16379B3	45	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-62-2	Vanadium	11	21	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A
7440-66-6	Zinc	11	42	1	0.5	50	05/23/14	32817	S16379A3	46	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-026	% Solid:	93	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 3 (3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.86	ND	1	0.5	100	05/23/14	32818	S052314B	46	MS	MS2_7500SWA
7440-41-7	Beryllium	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	46	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	05/23/14	32818	S052314B	46	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	05/23/14	32818	S052314B	46	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	05/23/14	32818	S052314B	46	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC78787-026	% Solid:	93	Lab Name:	Veritech	Nras No:	
Client Id:	BASE 3 (3-5')	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	5/21/2014	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	220	5900	1	0.5	50	05/23/14	32817	S16379B3	46	P	PEICPRAD3A
7440-38-2	Arsenic	4.3	11	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-39-3	Barium	11	43	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-70-2	Calcium	1100	6500	1	0.5	50	05/23/14	32817	S16379B3	46	P	PEICPRAD3A
7440-47-3	Chromium	5.4	18	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-48-4	Cobalt	2.7	4.8	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-50-8	Copper	5.4	19	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7439-89-6	Iron	220	12000	1	0.5	50	05/23/14	32817	S16379B3	46	P	PEICPRAD3A
7439-92-1	Lead	5.4	23	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7439-95-4	Magnesium	540	3800	1	0.5	50	05/23/14	32817	S16379B3	46	P	PEICPRAD3A
7439-96-5	Manganese	11	180	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7439-97-6	Mercury	0.090	ND	1	0.15	25	06/02/14	32817	H16379Sc	27	CV	HGCV2A
7440-02-0	Nickel	5.4	44	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-09-7	Potassium	540	1600	1	0.5	50	05/23/14	32817	S16379B3	46	P	PEICPRAD3A
7440-23-5	Sodium	270	ND	1	0.5	50	05/23/14	32817	S16379B3	46	P	PEICPRAD3A
7440-28-0	Thallium	1.6	ND	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-62-2	Vanadium	11	21	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A
7440-66-6	Zinc	11	37	1	0.5	50	05/23/14	32817	S16379A3	47	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Metal Data
QC Data

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 32818
Client Id: MB 32818
Matrix: SOIL
Level: LOW

% Solid: 0
Units: MG/KG

Lab Name: Veritech
Lab Code:

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.80	ND	1	0.5	100	05/23/14	32818	S052314B	16	MS	MS2_7500SWA
7440-41-7	Beryllium	0.20	ND	1	0.5	100	05/23/14	32818	S052314B	16	MS	MS2_7500SWA
7440-43-9	Cadmium	0.40	ND	1	0.5	100	05/23/14	32818	S052314B	16	MS	MS2_7500SWA
7782-49-2	Selenium	2.0	ND	1	0.5	100	05/23/14	32818	S052314B	16	MS	MS2_7500SWA
7440-22-4	Silver	0.20	ND	1	0.5	100	05/23/14	32818	S052314B	16	MS	MS2_7500SWA

Comments:

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 32817 (100) % Solid: 0 Lab Name: Veritech
Client Id: MB 32817 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	0.5	50	05/23/14	32817	S16379B3	11	P	PEICPRAD3A
7440-36-0	Antimony	4.0	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-38-2	Arsenic	4.0	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-39-3	Barium	10	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-41-7	Beryllium	1.2	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-43-9	Cadmium	1.2	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-70-2	Calcium	1000	ND	1	0.5	50	05/23/14	32817	S16379B3	11	P	PEICPRAD3A
7440-47-3	Chromium	5.0	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-48-4	Cobalt	2.5	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-50-8	Copper	5.0	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7439-89-6	Iron	200	ND	1	0.5	50	05/23/14	32817	S16379B3	11	P	PEICPRAD3A
7439-92-1	Lead	5.0	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7439-95-4	Magnesium	500	ND	1	0.5	50	05/23/14	32817	S16379B3	11	P	PEICPRAD3A
7439-96-5	Manganese	10	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7439-98-7	Molybdenum	2.5	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-02-0	Nickel	5.0	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-09-7	Potassium	500	ND	1	0.5	50	05/23/14	32817	S16379B3	11	P	PEICPRAD3A
7782-49-2	Selenium	3.0	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-22-4	Silver	1.5	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-23-5	Sodium	250	ND	1	0.5	50	05/23/14	32817	S16379B3	11	P	PEICPRAD3A
7440-28-0	Thallium	1.5	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-31-5	Tin	20	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-32-6	Titanium	10	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-62-2	Vanadium	10	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A
7440-66-6	Zinc	10	ND	1	0.5	50	05/22/14	32817	S16379A3	12	P	PEICP3A

Comments:

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 32817 (167) % Solid: 0 Lab Name: Veritech
Client Id: MB 32817 (167) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.083	ND	1	0.15	25	06/02/14	32817	H16379Sb	11	CV	HGCV2A

Comments:

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 32819
Client Id: MB 32819
Matrix: AQUEOUS
Level: LOW

% Solid: 0
Units: UG/L

Lab Name: Veritech
Lab Code:

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.0	ND	1	50	100	05/28/14	32819	SW52814A	16	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	05/28/14	32819	SW52814A	16	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	05/28/14	32819	SW52814A	16	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	16	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	05/28/14	32819	SW52814A	16	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	05/28/14	32819	SW52814A	16	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	05/28/14	32819	SW52814A	16	MS	MS2_7500SWA
7440-22-4	Silver	1.0	ND	1	50	100	05/28/14	32819	SW52814A	16	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	05/28/14	32819	SW52814A	16	MS	MS2_7500SWA

Comments:

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 32819 (1) % Solid: 0 Lab Name: Veritech
Client Id: MB 32819 (1) Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7440-38-2	Arsenic	20	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7440-70-2	Calcium	5000	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7440-48-4	Cobalt	20	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7439-92-1	Lead	12	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7439-95-4	Magnesium	5000	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7439-97-6	Mercury	0.70	ND	1	25	25	05/28/14	32819	H16381SW	11	CV	HGCV1A
7439-98-7	Molybdenum	20	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7440-02-0	Nickel	50	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	50	50	05/27/14	32819	SW16381B2	11	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7440-23-5	Sodium	5000	ND	1	50	50	05/28/14	32819	SW16381D2	11	P	PEICPRAD2A
7440-28-0	Thallium	20	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7440-31-5	Tin	50	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7440-32-6	Titanium	50	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7440-62-2	Vanadium	50	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	05/27/14	32819	SW16381A2	12	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 05/23/14
Data File: S052314B
Prep Batch: 32818
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	ICV/CCV Amt	ICV V-187140-8	Rec	CCV V-187144-13	Rec	CCV V-187144-26	Rec	CCV V-187144-39	Rec	CCV V-187144-51	Rec		Rec		Rec		Rec
Antimony	50/30	47.88000	96	49.84000	100	49.21000	98	48.70000	97	48.81000	98						
Beryllium	50/30	50.96000	102	48.22000	96	48.55000	97	47.42000	95	47.47000	95						
Cadmium	50/30	50.36000	101	50.60000	101	49.24000	98	48.90000	98	48.81000	98						
Selenium	50/30	53.03000	106	253.70000	101	243.60000	97	241.70000	97	243.90000	98						
Silver	10/6	10.30000	103	50.71000	101	49.57000	99	49.02000	98	49.42000	99						

Notes: a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits: ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 05/23/14
Data File: S052314B
Prep Batch: 32818
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	LLICV/ LLCCV Amt	LLICV V-187145-9	Rec	LLCCV V-187145-14	Rec	LLCCV V-187145-27	Rec	LLCCV V-187145-40	Rec	LLCCV V-187145-52	Rec		Rec		Rec		Rec
Antimony	4/4	4.003	100	3.770	94	3.740	94	3.804	95	3.816	95						
Beryllium	1/1	9.348E-01	93	9.200E-01	92	9.511E-01	95	9.248E-01	92	9.341E-01	93						
Cadmium	2/2	1.906	95	1.848	92	1.918	96	1.879	94	1.830	92						
Selenium	10/10	8.651	87	8.902	89	8.253	83	7.636	76	8.292	83						
Silver	1/1	9.585E-01	96	9.662E-01	97	9.607E-01	96	9.386E-01	94	9.514E-01	95						

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 05/22/14
Data File: S16379A3
Prep Batch: 32817
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	ICV/CCV Amt	ICV (1) V-186533-7	Rec	CCV V-185529-20	Rec	CCV V-185529-31	Rec	CCV V-185529-43	Rec	CCV V-185529-53	Rec		Rec		Rec		Rec
Arsenic	1/.5	0.49758	100	0.50759	102	0.49767	100	0.49390	99	0.51045	102						
Barium	1/.5	0.50209	100	0.50074	100	0.49809	100	0.49734	99	0.50006	100						
Chromium	1/.5	0.50970	102	0.50890	102	0.50428	101	0.50231	100	0.50317	101						
Cobalt	1/.5	0.49882	100	0.50046	100	0.49622	99	0.49685	99	0.50086	100						
Copper	1/.5	0.49247	98	0.48949	98	0.48677	97	0.48422	97	0.48651	97						
Lead	1/.5	0.49810	100	0.50647	101	0.49851	100	0.49634	99	0.50488	101						
Manganese	1/.5	0.49447	99	0.49159	98	0.48783	98	0.48838	98	0.49205	98						
Nickel	1/.5	0.50416	101	0.50494	101	0.49817	100	0.49949	100	0.50337	101						
Thallium	1/.5	0.49994	100	0.50505	101	0.49756	100	0.49374	99	0.50552	101						
Vanadium	1/.5	0.49223	98	0.49028	98	0.48785	98	0.48629	97	0.48792	98						
Zinc	1/.5	0.49614	99	0.50257	101	0.49594	99	0.49715	99	0.50229	100						

Notes:
a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits:
ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 05/22/14
Data File: S16379A3
Prep Batch: 32817
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	LLICV/ LLCCV Amt	LLICV V-187248-8	Rec	LLCCV V-187248-21	Rec	LLCCV V-187248-32	Rec	LLCCV V-187248-44	Rec	LLCCV V-187248-54	Rec		Rec		Rec		Rec
Arsenic	0.04/0.04	0.0391811	98	0.0386312	97	0.0373224	93	0.0383590	96	0.0401453	100						
Barium	0.1/0.1	0.0970983	97	0.0968050	97	0.0965384	97	0.0963905	96	0.0973876	97						
Chromium	0.05/0.05	0.0450974	90	0.0455868	91	0.0459239	92	0.0442156	88	0.0454272	91						
Cobalt	0.025/0.025	0.0195236	78	0.0202210	81	0.0200684	80	0.0193852	78	0.0206271	83						
Copper	0.05/0.05	0.0461514	92	0.0468813	94	0.0458508	92	0.0443519	89	0.0466972	93						
Lead	0.05/0.05	0.0490222	98	0.0494352	99	0.0518217	104	0.0493898	99	0.0512497	102						
Manganese	0.1/0.1	0.0971170	97	0.0975934	98	0.0968262	97	0.0965801	97	0.0977363	98						
Nickel	0.05/0.05	0.0441820	88	0.0445897	89	0.0450818	90	0.0434771	87	0.0449455	90						
Thallium	0.015/0.015	0.0148739	99	0.0137853	92	0.0161013	107	0.0167521	112	0.0155647	104						
Vanadium	0.1/0.1	0.0934849	93	0.0926902	93	0.0919100	92	0.0911910	91	0.0926450	93						
Zinc	0.1/0.1	0.0892727	89	0.0921830	92	0.0928712	93	0.0906149	91	0.0924284	92						

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 05/23/14
Data File: S16379B3
Prep Batch: 32817
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	ICV/CCV Amt	ICV (1) V-186533-6	Rec	CCV V-186533-19	Rec	CCV V-186533-30	Rec	CCV V-186533-42	Rec	CCV V-186533-52	Rec		Rec		Rec		Rec
Aluminum	10/5	4.98224	100	4.95775	99	4.98912	100	5.00396	100	4.98951	100						
Calcium	100/50	49.52200	99	49.31870	99	48.73290	97	49.66590	99	48.64780	97						
Iron	10/5	4.92496	98	4.92235	98	4.95240	99	4.94826	99	4.92661	99						
Magnesium	100/50	50.51500	101	50.58620	101	50.67360	101	50.68390	101	50.42180	101						
Potassium	100/50	49.84930	100	49.52910	99	49.06410	98	49.88350	100	49.14390	98						
Sodium	100/50	49.99590	100	49.73300	99	49.25370	99	50.26040	101	49.54560	99						

Notes:
a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits:
ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 05/23/14
Data File: S16379B3
Prep Batch: 32817
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	LLICV/ LLCCV Amt	LLICV V-187248-7	Rec	LLCCV V-187248-20	Rec	LLCCV V-187248-31	Rec	LLCCV V-187248-43	Rec	LLCCV V-187248-53	Rec		Rec		Rec		Rec
Aluminum	2.00/2	1.98999	99	1.98279	99	2.00846	100	1.96095	98	1.94742	97						
Calcium	10.00/10	10.1065	101	10.0399	100	10.0745	101	10.0136	100	10.0174	100						
Iron	2.00/2	1.97440	99	1.97243	99	1.97536	99	1.96511	98	1.98434	99						
Magnesium	5.00/5	4.92604	99	4.92801	99	4.87997	98	4.87601	98	4.88710	98						
Potassium	5.00/5	5.06573	101	5.04564	101	5.12651	103	4.97395	99	5.00477	100						
Sodium	2.50/2.5	2.49062	100	2.46345	99	2.49518	100	2.41119	96	2.45950	98						

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 06/02/14
Data File: H16379Sb
Prep Batch: 32817
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	ICV/CCV Amt	ICV (2)-9	Rec	CCV-21	Rec	CCV-33	Rec		Rec		Rec		Rec		Rec		Rec
Mercury	20/10	21.11000	106	9.13800	91	8.56100	86 **c**										

Notes:
a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits:
ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(ICV/CCV Summary)

Date Analyzed: 06/02/14
Data File: H16379Sc
Prep Batch: 32817
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	ICV/CCV Amt	ICV (2)-9	Rec	CCV-21	Rec	CCV-31	Rec		Rec		Rec		Rec		Rec		Rec
Mercury	20/10	20.48000	102	10.57000	106	10.60000	106										

Notes:
a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits:
ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(ICV/CCV Summary)

Date Analyzed: 05/28/14
Data File: SW52814A
Prep Batch: 32819
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	ICV/CCV Amt	ICV V-187469-8	Rec	CCV V-187473-13	Rec	CCV V-187473-26	Rec	CCV V-187473-39	Rec	CCV V-187473-52	Rec	CCV V-187473-58	Rec		Rec		Rec
Antimony	50/30	48.01000	96	51.08000	102	50.70000	101	52.96000	106	48.92000	98	49.39000	99				
Arsenic	50/30	50.99000	102	49.88000	100	48.87000	98	50.98000	102	49.97000	100	49.86000	100				
Beryllium	50/30	51.37000	103	50.85000	102	49.83000	100	51.01000	102	46.87000	94	47.84000	96				
Cadmium	50/30	51.57000	103	51.02000	102	50.35000	101	52.80000	106	48.70000	97	49.61000	99				
Cobalt	50/30	50.76000	102	50.80000	102	50.82000	102	50.11000	100	49.36000	99	49.95000	100				
Lead	50/30	51.79000	104	50.91000	102	50.55000	101	52.55000	105	49.14000	98	49.18000	98				
Selenium	50/30	52.56000	105	247.10000	99	242.70000	97	256.80000	103	245.80000	98	242.10000	97				
Silver	10/6	10.60000	106	51.44000	103	50.59000	101	52.90000	106	49.22000	98	50.01000	100				
Thallium	50/30	46.23000	92	47.45000	95	47.25000	94	48.79000	98	45.15000	90	45.62000	91				

Notes: a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits: ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 05/28/14
Data File: SW52814A
Prep Batch: 32819
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	LLICV/ LLCCV Amt	LLICV V-187475-9	Rec	LLCCV V-187475-14	Rec	LLCCV V-187475-27	Rec	LLCCV V-187475-40	Rec	LLCCV V-187475-53	Rec	LLCCV V-187475-59	Rec		Rec		Rec
Antimony	1/1	1.180	118	1.002	100	9.877E-01	99	1.009	101	9.667E-01	97	9.988E-01	100				
Arsenic	1/1	8.864E-01	89	9.673E-01	97	1.004	100	1.099	110	1.243	124	1.128	113				
Beryllium	0.5/0.5	5.130E-01	103	4.908E-01	98	4.995E-01	100	4.728E-01	95	4.675E-01	94	4.616E-01	92				
Cadmium	1/1	9.654E-01	97	9.507E-01	95	9.425E-01	94	9.682E-01	97	9.598E-01	96	9.604E-01	96				
Cobalt	1/1	9.552E-01	96	1.049	105	1.004	100	9.938E-01	99	1.005	100	9.905E-01	99				
Lead	1.5/1.5	1.414	94	1.435	96	1.406	94	1.433	96	1.595	106	1.571	105				
Selenium	5/5	4.810	96	4.412	88	4.981	100	5.797	116	5.640	113	5.457	109				
Silver	0.5/0.5	4.854E-01	97	4.933E-01	99	4.924E-01	98	4.937E-01	99	5.106E-01	102	5.105E-01	102				
Thallium	1/1	8.797E-01	88	8.769E-01	88	8.949E-01	89	8.848E-01	88	8.932E-01	89	8.990E-01	90				

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 05/27/14
Data File: SW16381A2
Prep Batch: 32819
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	ICV/CCV Amt	ICV V-185530-7	Rec	CCV V-185530-20	Rec	CCV V-185530-30	Rec	CCV V-185530-39	Rec	CCV V-185530-48	Rec		Rec		Rec		Rec
Aluminum	10/5	5.18112	104	5.21924	104	5.23149	105	5.14457	103	5.15641	103						
Arsenic	1/.5	0.50792	102	0.52383	105	0.50462	101	0.50614	101	0.50317	101						
Barium	1/.5	0.51437	103	0.51472	103	0.51754	104	0.51061	102	0.51097	102						
Calcium	100/50	50.86010	102	51.05400	102	50.82990	102	50.75210	102	50.21030	100						
Chromium	1/.5	0.52048	104	0.52249	104	0.52247	104	0.51421	103	0.51542	103						
Cobalt	1/.5	0.50894	102	0.51756	104	0.50784	102	0.50403	101	0.50207	100						
Copper	1/.5	0.50652	101	0.50794	102	0.50936	102	0.50188	100	0.50368	101						
Iron	10/5	5.07578	102	5.10053	102	5.10028	102	5.03457	101	5.02930	101						
Lead	1/.5	0.51434	103	0.51825	104	0.51262	103	0.50903	102	0.50769	102						
Magnesium	100/50	52.39470	105	52.74990	105	52.34670	105	52.23380	104	51.60200	103						
Manganese	1/.5	0.50636	101	0.50961	102	0.50928	102	0.50287	101	0.50324	101						
Nickel	1/.5	0.51022	102	0.51540	103	0.51860	104	0.51048	102	0.51274	103						
Silver	0.2/0.1	0.10064	101	0.10203	102	0.10118	101	0.09816	98	0.09893	99						
Thallium	1/.5	0.51114	102	0.52172	104	0.51119	102	0.50788	102	0.50598	101						
Vanadium	1/.5	0.50721	101	0.51043	102	0.51126	102	0.50284	101	0.50359	101						
Zinc	1/.5	0.51479	103	0.51972	104	0.51723	103	0.50761	102	0.50960	102						

Notes: a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits: ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 05/27/14
Data File: SW16381A2
Prep Batch: 32819
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	LLICV/ LLCCV Amt	LLICV V-185635 [aq]-8	Rec	LLCCV V-185635 [aq]-21	Rec	LLCCV V-185635 [aq]-31	Rec	LLCCV V-185635 [aq]-40	Rec	LLCCV V-185635 [aq]-49	Rec		Rec		Rec		Rec
Aluminum	0.2/0.2	0.214921	107	0.228790	114	0.222013	111	0.222924	111	0.214548	107						
Arsenic	0.02/0.02	0.0196206	98	0.0196876	98	0.0185437	93	0.0210222	105	0.0208064	104						
Barium	0.05/0.05	0.0476706	95	0.0475714	95	0.0476895	95	0.0482789	97	0.0477114	95						
Calcium	5.0/5	4.92403	98	4.93165	99	4.92088	98	4.95718	99	4.87947	98						
Chromium	0.05/0.05	0.0473085	95	0.0476807	95	0.0473596	95	0.0474238	95	0.0464797	93						
Cobalt	0.02/0.02	0.0172329	86	0.0175362	88	0.0170240	85	0.0170525	85	0.0166427	83						
Copper	0.05/0.05	0.0493829	99	0.0486108	97	0.0491690	98	0.0500759	100	0.0486677	97						
Iron	0.3/0.3	0.309431	103	0.311845	104	0.313025	104	0.315583	105	0.306818	102						
Lead	0.012/0.012	0.0095633	80	0.0088125	73	0.0095169	79	0.0099643	83	0.0092217	77						
Magnesium	5.0/5	4.89834	98	4.91780	98	4.90069	98	4.93107	99	4.84162	97						
Manganese	0.04/0.04	0.0375731	94	0.0377023	94	0.0376082	94	0.0380999	95	0.0372779	93						
Nickel	0.05/0.05	0.0496069	99	0.0494206	99	0.0493524	99	0.0496926	99	0.0489227	98						
Silver	0.02/0.02	0.0192384	96	0.0198746	99	0.0195921	98	0.0192867	96	0.0183491	92						
Thallium	0.02/0.02	0.0213168	107	0.0199909	100	0.0194833	97	0.0192002	96	0.0176808	88						
Vanadium	0.05/0.05	0.0463157	93	0.0472199	94	0.0461848	92	0.0467679	94	0.0454657	91						
Zinc	0.05/0.05	0.0549977	110	0.0553412	111	0.0548520	110	0.0555203	111	0.0543448	109						

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 05/27/14
Data File: SW16381B2
Prep Batch: 32819
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	ICV/CCV Amt	ICV V-185530-6	Rec	CCV V-185530-19	Rec	CCV V-185530-29	Rec	CCV V-185530-38	Rec	CCV V-185530-47	Rec		Rec		Rec		Rec
Potassium	100/50	51.30420	103	51.00210	102	51.38050	103	50.68030	101	49.90710	100						

Notes: a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits: ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 05/27/14
Data File: SW16381B2
Prep Batch: 32819
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	LLICV/ LLCCV Amt	LLICV V-185635 [aq]-7	Rec	LLCCV V-185635 [aq]-20	Rec	LLCCV V-185635 [aq]-30	Rec	LLCCV V-185635 [aq]-39	Rec	LLCCV V-185635 [aq]-48	Rec		Rec		Rec		Rec
Potassium	5.0/5	4.82113	96	5.20505	104	4.83150	97	4.86074	97	4.73175	95						

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 05/28/14
Data File: SW16381C2
Prep Batch: 32819
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	ICV/CCV Amt	ICV V-185530-7	Rec	CCV V-185530-18	Rec	CCV V-185530-28	Rec		Rec		Rec		Rec		Rec		Rec
Aluminum	10/5	5.15740	103	5.06257	101	5.23836	105										
Barium	1/.5	0.51263	103	0.49503	99	0.51125	102										
Calcium	100/50	50.90450	102	49.78030	100	50.63830	101										
Chromium	1/.5	0.51844	104	0.50139	100	0.51513	103										
Copper	1/.5	0.50358	101	0.48988	98	0.50372	101										
Iron	10/5	5.05513	101	4.89007	98	5.04201	101										
Magnesium	100/50	52.18680	104	51.10480	102	51.88040	104										
Manganese	1/.5	0.50445	101	0.48796	98	0.50266	101										
Nickel	1/.5	0.51019	102	0.50313	101	0.50336	101										
Silver	0.2/0.1	0.09964	100	0.09811	98	0.09959	100										
Vanadium	1/.5	0.50661	101	0.49017	98	0.50552	101										
Zinc	1/.5	0.50640	101	0.50017	100	0.50033	100										

Notes: a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits: ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 05/28/14
Data File: SW16381C2
Prep Batch: 32819
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	LLICV/ LLCCV Amt	LLICV V-185635 [aq]-8	Rec	LLCCV V-185635 [aq]-19	Rec	LLCCV V-185635 [aq]-29	Rec		Rec		Rec		Rec		Rec		Rec
Aluminum	0.2/0.2	0.210224	105	0.214844	107	0.223490	112										
Barium	0.05/0.05	0.0483340	97	0.0468987	94	0.0480880	96										
Calcium	5.0/5	4.78009	96	4.63593	93	4.78914	96										
Chromium	0.05/0.05	0.0478384	96	0.0470785	94	0.0477191	95										
Copper	0.05/0.05	0.0478763	96	0.0457523	92	0.0484955	97										
Iron	0.3/0.3	0.280285	93	0.272128	91	0.285060	95										
Magnesium	5.0/5	4.87823	98	4.72747	95	4.87765	98										
Manganese	0.04/0.04	0.0375218	94	0.0363696	91	0.0375344	94										
Nickel	0.05/0.05	0.0474898	95	0.0460092	92	0.0469955	94										
Silver	0.02/0.02	0.0186675	93	0.0191286	96	0.0189361	95										
Vanadium	0.05/0.05	0.0463648	93	0.0462199	92	0.0464421	93										
Zinc	0.05/0.05	0.0463247	93	0.0454831	91	0.0462936	93										

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 05/28/14
Data File: SW16381D2
Prep Batch: 32819
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	ICV/CCV Amt	ICV V-185530-6	Rec	CCV V-185530-19	Rec	CCV V-185530-29	Rec	CCV V-185530-39	Rec	CCV V-185530-48	Rec	CCV V-185530-54	Rec		Rec		Rec
Potassium	100/50	52.27690	105	52.42050	105	52.05390	104	50.33320	101	51.65870	103	51.94970	104				
Sodium	100/50	51.10320	102	50.93210	102	50.85040	102	50.39050	101	51.19330	102	50.56230	101				

Notes: a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits: ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 05/28/14
Data File: SW16381D2
Prep Batch: 32819
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	LLICV/ LLCCV Amt	LLICV V-185635 [aq]-7	Rec	LLCCV V-185635 [aq]-20	Rec	LLCCV V-185635 [aq]-30	Rec	LLCCV V-185635 [aq]-40	Rec	LLCCV V-185635 [aq]-49	Rec	LLCCV V-185635 [aq]-55	Rec		Rec		Rec
Potassium	5.0/5	4.40902	88	4.45863	89	4.30240	86	4.47451	89	4.44587	89	4.42811	89				
Sodium	5.0/5	4.63938	93	4.56047	91	4.20901	84	3.89691	78	3.95769	79	4.00565	80				

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 05/28/14
Data File: H16381SW
Prep Batch: 32819
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV1A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: VHG LABS

Analyte	ICV/CCV Amt	ICV (2)-9	Rec	CCV-21	Rec	CCV-33	Rec	CCV-38	Rec		Rec		Rec		Rec		Rec
Mercury	20/10	20.47270	102	10.51233	105	10.37550	104	10.53758	105								

Notes: a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits: ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 05/23/14
Data File: S052314B
Prep Batch: 32818
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-187141-10	CCB V-187141-15	CCB V-187141-28	CCB V-187141-41	CCB V-187141-53	MB 32818-16		
Antimony	4 U	4 U	4 U	4 U	4 U	800 U		
Beryllium	1 U	1 U	1 U	1 U	1 U	200 U		
Cadmium	2 U	2 U	2 U	2 U	2 U	400 U		
Selenium	10 U	10 U	10 U	10 U	10 U	2000 U		
Silver	1 U	1 U	1 U	1 U	1 U	200 U		

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 05/22/14
Data File: S16379A3
Prep Batch: 32817
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-183928-9	CCB V-183928-22	CCB V-183928-33	CCB V-183928-45	CCB V-183928-55	MB 32817 (100)-12		
Arsenic	.04 U	.04 U	.04 U	.04 U	.04 U	4 U		
Barium	.1 U	.1 U	.1 U	.1 U	.1 U	10 U		
Chromium	.05 U	.05 U	.05 U	.05 U	.05 U	5 U		
Cobalt	.025 U	.025 U	.025 U	.025 U	.025 U	2.5 U		
Copper	.05 U	.05 U	.05 U	.05 U	.05 U	5 U		
Lead	.05 U	.05 U	.05 U	.05 U	.05 U	5 U		
Manganese	.1 U	.1 U	.1 U	.1 U	.1 U	10 U		
Nickel	.05 U	.05 U	.05 U	.05 U	.05 U	5 U		
Thallium	.015 U	.015 U	.015 U	.015 U	.015 U	1.5 U		
Vanadium	.1 U	.1 U	.1 U	.1 U	.1 U	10 U		
Zinc	.1 U	.1 U	.1 U	.1 U	.1 U	10 U		

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 05/23/14
Data File: S16379B3
Prep Batch: 32817
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-183928-8	CCB V-183928-21	CCB V-183928-32	CCB V-183928-44	CCB V-183928-54	MB 32817 (100)-11		
Aluminum	2 U	2 U	2 U	2 U	2 U	200 U		
Calcium	10 U	10 U	10 U	10 U	10 U	1000 U		
Iron	2 U	2 U	2 U	2 U	2 U	200 U		
Magnesium	5 U	5 U	5 U	5 U	5 U	500 U		
Potassium	5 U	5 U	5 U	5 U	5 U	500 U		
Sodium	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	250 U		

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 06/02/14
Data File: H16379Sb
Prep Batch: 32817
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-22	CCB-34	MB 32817 (167)-11				
Mercury	.5 U	.5 U	.5 U	83 U				

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 06/02/14
Data File: H16379Sc
Prep Batch: 32817
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-22	CCB-32					
Mercury	.5 U	.5 U	.5 U					

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 05/28/14
Data File: SW52814A
Prep Batch: 32819
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-187470-10	CCB V-187470-15	CCB V-187470-28	CCB V-187470-41	CCB V-187470-54	CCB V-187470-60	MB 32819-16
Antimony	1 U	1 U	1 U	1 U	1 U	1 U	2 U
Arsenic	1 U	1 U	1 U	1 U	1 U	1 U	2 U
Beryllium	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U	1 U
Cadmium	1 U	1 U	1 U	1 U	1 U	1 U	2 U
Cobalt	1 U	1 U	1 U	1 U	1 U	1 U	2 U
Lead	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3 U
Selenium	5 U	5 U	5 U	5 U	5 U	5 U	10 U
Silver	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U	1 U
Thallium	1 U	1 U	1 U	1 U	1 U	1 U	2 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 05/27/14
Data File: SW16381A2
Prep Batch: 32819
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-183928-9	CCB-22	CCB-32	CCB-41	CCB-50	MB 32819 (1)-12		
Aluminum	.2 U	.2 U	.2 U	.2 U	.2 U	.2 U		
Arsenic	.02 U	.02 U	.02 U	.02 U	.02 U	.02 U		
Barium	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U		
Calcium	5 U	5 U	5 U	5 U	5 U	5 U		
Chromium	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U		
Cobalt	.02 U	.02 U	.02 U	.02 U	.02 U	.02 U		
Copper	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U		
Iron	.3 U	.3 U	.3 U	.3 U	.3 U	.3 U		
Lead	.012 U	.012 U	.012 U	.012 U	.012 U	.012 U		
Magnesium	5 U	5 U	5 U	5 U	5 U	5 U		
Manganese	.04 U	.04 U	.04 U	.04 U	.04 U	.04 U		
Nickel	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U		
Silver	.02 U	.02 U	.02 U	.02 U	.02 U	.02 U		
Thallium	.02 U	.02 U	.02 U	.02 U	.02 U	.02 U		
Vanadium	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U		
Zinc	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U		

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 05/27/14
Data File: SW16381B2
Prep Batch: 32819
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-183928-8	CCB-21	CCB-31	CCB-40	CCB-49	MB 32819 (1)-11		
Potassium	5 U	5 U	5 U	5 U	5 U	5 U		

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 05/28/14
Data File: SW16381C2
Prep Batch: 32819
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-183928-9	CCB-20	CCB-30					
Aluminum	.2 U	.2 U	.2 U					
Barium	.05 U	.05 U	.05 U					
Calcium	5 U	5 U	5 U					
Chromium	.05 U	.05 U	.05 U					
Copper	.05 U	.05 U	.05 U					
Iron	.3 U	.3 U	.3 U					
Magnesium	5 U	5 U	5 U					
Manganese	.04 U	.04 U	.04 U					
Nickel	.05 U	.05 U	.05 U					
Silver	.02 U	.02 U	.02 U					
Vanadium	.05 U	.05 U	.05 U					
Zinc	.05 U	.05 U	.05 U					

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 05/28/14
Data File: SW16381D2
Prep Batch: 32819
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-183928-8	CCB-21	CCB-31	CCB-41	CCB-50	CCB-56	MB 32819 (1)-11
Potassium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 05/28/14
Data File: H16381SW
Prep Batch: 32819
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV1A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-22	CCB-34	CCB-39	MB 32819 (1)-11			
Mercury	.7 U	.7 U	.7 U	.7 U	.7 U			

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 05/23/14
Data File: S052314B
Prep Batch: 32818
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: VHG LABS

Analyte	Spk Amt	ICSA V-187142-11	Rec	ICSAB V-187143-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	47500	95	47020.00000	94						
Cadmium	100	U		95.85000	96						
Calcium	150000	151900	101	51000.00000	101						
Iron	125000	119100	95	19700.00000	96						
Magnesium	50000	46130	92	45630.00000	91						
Selenium	100	U		98.14000	98						
Silver	50	U		46.98000	94						

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 05/22/14
Data File: S16379A3
Prep Batch: 32817
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: VHG LABS

Analyte	Spk Amt	ICSA V-185754-10	Rec	ICSAB V-185755-11	Rec	ICSA V-185754-29	Rec	ICSAB V-185755-30	Rec	ICSA V-185754-41	Rec	ICSAB V-185755-42	Rec	ICSA V-185754-51	Rec	ICSAB V-185755-52	Rec
Aluminum	500	505.137	101	492.38100	98	514.938	103	510.21900	102	515.44	103	510.49700	102	519.093	104	504.91500	101
Arsenic	1	U		1.01980	102	U		1.06207	106	U		1.06160	106	U		1.07179	107
Barium	.5	U		0.51961	104	U		0.52534	105	U		0.52373	105	U		0.52617	105
Calcium	500	477.846	96	467.43400	93	486.107	97	478.67700	96	484.139	97	476.34000	95	488.292	98	481.37100	96
Chromium	.5	U		0.49725	99	U		0.51098	102	U		0.50723	101	U		0.50635	101
Cobalt	.5	U		0.47451	95	U		0.48932	98	U		0.48724	97	U		0.48807	98
Copper	.5	U		0.52629	105	U		0.53228	106	U		0.52885	106	U		0.53086	106
Iron	200	189.296	95	185.02900	93	194.703	97	193.22600	97	194.653	97	193.31000	97	196.663	98	191.07000	96
Lead	1	U		0.94406	94	U		0.97688	98	U		0.96719	97	U		0.97091	97
Magnesium	500	557.46	111	544.42600	109	576.303	115	571.66700	114	576.604	115	570.81000	114	582.524	117	564.03500	113
Manganese	.5	U		0.50028	100	U		0.50520	101	U		0.50333	101	U		0.50663	101
Nickel	1	U		0.92637	93	U		0.95608	96	U		0.95083	95	U		0.95175	95
Thallium	1	U		0.94360	94	U		0.96918	97	U		0.96610	97	U		0.95668	96
Vanadium	.5	U		0.44957	90	U		0.44970	90	U		0.44835	90	U		0.44998	90
Zinc	1	U		0.93342	93	U		0.96751	97	U		0.96233	96	U		0.96400	96

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 05/23/14
Data File: S16379B3
Prep Batch: 32817
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: VHG LABS

Analyte	Spk Amt	ICSA V-185754-9	Rec	ICSAB V-185755-10	Rec	ICSA V-185754-28	Rec	ICSAB V-185755-29	Rec	ICSA V-185754-40	Rec	ICSAB V-185755-41	Rec	ICSA V-185754-50	Rec	ICSAB V-185755-51	Rec
Aluminum	500	496.357	99	508.53600	102	499.9	100	511.38200	102	501.771	100	506.92400	101	502.062	100	507.51400	102
Calcium	500	485.439	97	497.01200	99	436.961	87	445.06700	89	489.178	98	438.66000	88	488.371	98	439.87400	88
Iron	200	190.099	95	195.01300	98	190.511	95	195.65200	98	191.897	96	194.04500	97	191.795	96	193.94800	97
Magnesium	500	495.234	99	507.27800	101	492.748	99	507.12600	101	497.831	100	502.87800	101	496.561	99	501.29300	100

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 05/28/14
Data File: SW52814A
Prep Batch: 32819
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: VHG LABS

Analyte	Spk Amt	ICSA V-187471-11	Rec	ICSAB V-187472-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	48140	96	47790.00000	96						
Arsenic	100	U		101.10000	101						
Cadmium	100	U		99.85000	100						
Calcium	150000	154700	103	54300.00000	103						
Cobalt	200	1.808b		188.60000	94						
Iron	125000	119100	95	119400.00000	96						
Magnesium	50000	47460	95	46790.00000	94						
Selenium	100	U		99.11000	99						
Silver	50	U		49.32000	99						

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 05/27/14
Data File: SW16381A2
Prep Batch: 32819
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: VHG LABS

Analyte	Spk Amt	ICSA V-185195-10	Rec	ICSAB V-185755-11	Rec	ICSA V-185195-28	Rec	ICSAB V-185755-29	Rec	ICSA V-185195-46	Rec	ICSAB V-185755-47	Rec		Rec		Rec
Aluminum	500	491.35	98	497.58000	100	495.411	99	500.29800	100	497.475	99	496.17600	99				
Arsenic	1	U		1.04024	104	U		1.04490	104	U		1.02435	102				
Barium	.5	U		0.52303	105	U		0.52453	105	U		0.52340	105				
Calcium	500	483.28	97	488.44800	98	486.434	97	491.44800	98	487.77	98	486.07600	97				
Chromium	.5	U		0.50700	101	U		0.50988	102	U		0.50304	101				
Cobalt	.5	U		0.49015	98	U		0.49498	99	U		0.48794	98				
Copper	.5	U		0.53143	106	U		0.53481	107	U		0.53419	107				
Iron	200	192.986	96	195.28800	98	194.985	97	196.43900	98	194.583	97	196.07200	98				
Lead	1	U		0.99873	100	U		1.00564	101	U		0.99130	99				
Magnesium	500	511.604	102	516.49200	103	515.503	103	520.23000	104	515.659	103	513.55900	103				
Manganese	.5	U		0.50677	101	U		0.50924	102	U		0.50909	102				
Nickel	1	U		0.96794	97	U		0.97782	98	U		0.96221	96				
Silver	1	U		1.07959	108	U		1.08448	108	U		1.08291	108				
Thallium	1	U		0.95882	96	U		0.96070	96	U		0.95148	95				
Vanadium	.5	U		0.48794	98	U		0.48983	98	U		0.49014	98				
Zinc	1	U		0.97510	98	U		0.98591	99	U		0.96742	97				

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 05/27/14
Data File: SW16381B2
Prep Batch: 32819
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: VHG LABS

Analyte	Spk Amt	ICSA V-185195-9	Rec	ICSAB V-185755-10	Rec	ICSA V-185195-27	Rec	ICSAB V-185755-28	Rec	ICSA V-185195-45	Rec	ICSAB V-185755-46	Rec		Rec		Rec
Aluminum	500	502.302	100	504.48200	101	507.316	101	503.92100	101	499.173	100	504.66800	101				
Calcium	500	487.677	98	489.57500	98	490.189	98	486.57100	97	479.765	96	485.42400	97				
Iron	200	194.545	97	197.10500	99	194.683	97	196.35700	98	194.225	97	194.34500	97				
Magnesium	500	508.094	102	510.71800	102	509.789	102	505.63400	101	496.602	99	503.29800	101				

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 05/28/14
Data File: SW16381C2
Prep Batch: 32819
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: VHG LABS

Analyte	Spk Amt	ICSA V-185195-10	Rec	ICSAB V-185755-11	Rec	ICSA V-185195-26	Rec	ICSAB V-185755-27	Rec	Rec	Rec	Rec	Rec
Aluminum	500	500.976	100	495.29500	99	503.205	101	512.57700	103				
Barium	.5	U		0.51039	102	U		0.52937	106				
Calcium	500	490.25	98	483.94200	97	487.12	97	496.20800	99				
Chromium	.5	U		0.50308	101	U		0.51433	103				
Copper	.5	U		0.52255	105	U		0.54555	109				
Iron	200	196.931	98	190.98100	95	193.749	97	197.41100	99				
Magnesium	500	514.69	103	507.58400	102	510.242	102	519.71600	104				
Manganese	.5	U		0.49421	99	U		0.51281	103				
Nickel	1	U		0.95411	95	U		0.97613	98				
Silver	1	U		1.06086	106	U		1.10203	110				
Vanadium	.5	U		0.47541	95	U		0.49755	100				
Zinc	1	U		0.96652	97	U		0.98834	99				

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 05/28/14
Data File: SW16381D2
Prep Batch: 32819
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4052101

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: VHG LABS

Analyte	Spk Amt	ICSA V-185195-9	Rec	ICSAB V-185755-10	Rec	ICSA V-185195-27	Rec	ICSAB V-185755-28	Rec	ICSA V-185195-46	Rec	ICSAB V-185755-47	Rec	ICSA V-185195-52	Rec	ICSAB V-185755-53	Rec
Aluminum	500	496.329	99	505.19600	101	505.595	101	505.92800	101	504.479	101	505.03700	101	503.562	101	512.26100	102
Calcium	500	491.184	98	500.29800	100	501.924	100	502.19200	100	501.229	100	501.90300	100	499.854	100	508.95900	102
Iron	200	192.838	96	196.89000	98	196.966	98	197.35900	99	196.573	98	198.65100	99	197.246	99	198.94000	99
Magnesium	500	505.443	101	515.70800	103	517.43	103	517.86200	104	517.374	103	518.08000	104	515.25	103	526.02300	105

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 32818

Instrument Type: ICPMS
Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 32818

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	32818	1	S052314B	18	29.0800	129	23		0.62	212
Beryllium	32818	1	S052314B	18	53.0000	55.8	95		82	118
Cadmium	32818	1	S052314B	18	143.6000	143	100		81	118
Selenium	32818	1	S052314B	18	128.8000	127	101		77	123
Silver	32818	1	S052314B	18	60.4400	66.2	91		75	125

TxtQcType: LCS Matrix: SOIL SampleID: LCS 32818

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	32818	1	S052314B	17	31.1600	129	24		0.62	212
Beryllium	32818	1	S052314B	17	60.6600	55.8	109		82	118
Cadmium	32818	1	S052314B	17	160.2000	143	112		81	118
Selenium	32818	1	S052314B	17	145.6000	127	115		77	123
Silver	32818	1	S052314B	17	60.4600	66.2	91		75	125

TxtQcType: MSD Matrix: SOIL SampleID: AC78787-015

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	32818	1	S052314B	23	S052314B	19	74.4200	4U	250	30	a	75	125
Beryllium	32818	1	S052314B	23	S052314B	19	172.3000	1U	250	69	a	75	125
Cadmium	32818	1	S052314B	23	S052314B	19	217.2000	2U	250	87		75	125
Selenium	32818	1	S052314B	23	S052314B	19	214.3000	10U	250	86		75	125
Silver	32818	1	S052314B	23	S052314B	19	50.3400	1U	50	101		75	125

TxtQcType: MS Matrix: SOIL SampleID: AC78787-015

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	32818	1	S052314B	22	S052314B	19	91.6700	4U	250	37	a	75	125
Beryllium	32818	1	S052314B	22	S052314B	19	193.9000	1U	250	78		75	125
Cadmium	32818	1	S052314B	22	S052314B	19	248.2000	2U	250	99		75	125
Selenium	32818	1	S052314B	22	S052314B	19	241.8000	10U	250	97		75	125
Silver	32818	1	S052314B	22	S052314B	19	62.3100	1U	50	125		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

4052101 1520

SPIKE RECOVERY DATA

PREP BATCH: 32818

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AC78787-015

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	1	S052314B	24	S052314B	19	51.6800	4U	50	103		80	120
Beryllium	1	S052314B	24	S052314B	19	41.8600	1U	50	84		80	120
Cadmium	1	S052314B	24	S052314B	19	50.3100	2U	50	101		80	120
Selenium	1	S052314B	24	S052314B	19	250.6000	10U	250	100		80	120
Silver	1	S052314B	24	S052314B	19	49.9300	1U	50	100		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

4052101 1521

SPIKE RECOVERY DATA

PREP BATCH: 32817

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 32817

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	32817	1	S16379B3	13	65.8489	93.9	70		57	143
Arsenic	32817	1	S16379A3	14	0.9046	0.884	102		81	119
Barium	32817	1	S16379A3	14	2.0286	2.10	97		84	117
Calcium	32817	1	S16379B3	13	72.7005	75.3	97		82	118
Chromium	32817	1	S16379A3	14	0.8590	0.868	99		80	120
Cobalt	32817	1	S16379A3	14	2.0688	1.99	104		83	117
Copper	32817	1	S16379A3	14	2.6825	2.68	100		82	118
Iron	32817	1	S16379B3	13	111.3200	128	87		42	157
Lead	32817	1	S16379A3	14	0.9863	0.979	101		82	118
Magnesium	32817	1	S16379B3	13	25.1059	28.5	88		78	122
Manganese	32817	1	S16379A3	14	4.2361	4.25	100		82	118
Mercury	32817	5	H16379Sb	15	10.3300	54.2	95		71	128
Nickel	32817	1	S16379A3	14	2.4031	2.36	102		82	118
Potassium	32817	1	S16379B3	13	21.4268	25.7	83		72	128
Sodium	32817	1	S16379B3	13	9.9222	10.4	95		71	129
Thallium	32817	1	S16379A3	14	1.4224	1.40	102		79	121
Vanadium	32817	1	S16379A3	14	1.4870	1.57	95		76	123
Zinc	32817	1	S16379A3	14	1.2640	1.30	97		82	119

TxtQcType: LCS Matrix: SOIL SampleID: LCS 32817

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	32817	1	S16379B3	12	66.6878	93.9	71		57	143
Arsenic	32817	1	S16379A3	13	0.9117	0.884	103		81	119
Barium	32817	1	S16379A3	13	2.0889	2.10	99		84	117
Calcium	32817	1	S16379B3	12	70.8718	75.3	94		82	118
Chromium	32817	1	S16379A3	13	0.8563	0.868	99		80	120
Cobalt	32817	1	S16379A3	13	2.0686	1.99	104		83	117
Copper	32817	1	S16379A3	13	2.6712	2.68	100		82	118
Iron	32817	1	S16379B3	12	113.9870	128	89		42	157
Lead	32817	1	S16379A3	13	1.0095	0.979	103		82	118
Magnesium	32817	1	S16379B3	12	25.5343	28.5	90		78	122
Manganese	32817	1	S16379A3	13	4.2281	4.25	99		82	118
Mercury	32817	5	H16379Sb	14	10.1000	54.2	93		71	128
Nickel	32817	1	S16379A3	13	2.3815	2.36	101		82	118
Potassium	32817	1	S16379B3	12	22.0673	25.7	86		72	128
Sodium	32817	1	S16379B3	12	10.0148	10.4	96		71	129
Thallium	32817	1	S16379A3	13	1.4491	1.40	104		79	121
Vanadium	32817	1	S16379A3	13	1.4750	1.57	94		76	123
Zinc	32817	1	S16379A3	13	1.2731	1.30	98		82	119

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

4052101 1522

SPIKE RECOVERY DATA

PREP BATCH: 32817

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: SOIL SampleID: AC78787-015

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	32817	1	S16379B3	17	S16379B3	14	67.0137	54.4466	5.0	251	b	75	125
Arsenic	32817	1	S16379A3	18	S16379A3	15	0.6583	0.1238	0.5	107		75	125
Barium	32817	1	S16379A3	18	S16379A3	15	1.7175	0.7122	0.5	201	a	75	125
Calcium	32817	1	S16379B3	17	S16379B3	14	261.2460	219.1210	50	84		75	125
Chromium	32817	1	S16379A3	18	S16379A3	15	0.6941	0.1908	0.5	101		75	125
Cobalt	32817	1	S16379A3	18	S16379A3	15	0.5521	0.0405	0.5	102		75	125
Copper	32817	1	S16379A3	18	S16379A3	15	0.7436	0.1887	0.5	111		75	125
Iron	32817	1	S16379B3	17	S16379B3	14	115.3680	88.0651	5.0	546	b	75	125
Lead	32817	1	S16379A3	18	S16379A3	15	2.9714	2.2361	0.5	147	b	75	125
Magnesium	32817	1	S16379B3	17	S16379B3	14	90.6974	38.7690	50	104		75	125
Manganese	32817	1	S16379A3	18	S16379A3	15	2.1864	2.3960	0.5	-42	b	75	125
Mercury	32817	2	H16379Sb	19	H16379Sb	16	14.0200	13.6000	10	8.4	a	75	125
Nickel	32817	1	S16379A3	18	S16379A3	15	0.7216	0.2017	0.5	104		75	125
Potassium	32817	1	S16379B3	17	S16379B3	14	54.9812	7.3594	50	95		75	125
Sodium	32817	1	S16379B3	17	S16379B3	14	49.2339	3.4075	50	92		75	125
Thallium	32817	1	S16379A3	18	S16379A3	15	0.4836	0.015U	0.5	97		75	125
Vanadium	32817	1	S16379A3	18	S16379A3	15	0.6774	0.1421	0.5	107		75	125
Zinc	32817	1	S16379A3	18	S16379A3	15	1.2105	0.5721	0.5	128	a	75	125

TxtQcType: MS Matrix: SOIL SampleID: AC78787-015

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	32817	1	S16379B3	16	S16379B3	14	69.4273	54.4466	5.0	300	b	75	125
Arsenic	32817	1	S16379A3	17	S16379A3	15	0.7012	0.1238	0.5	115		75	125
Barium	32817	1	S16379A3	17	S16379A3	15	1.4020	0.7122	0.5	138	a	75	125
Calcium	32817	1	S16379B3	16	S16379B3	14	288.9390	219.1210	50	140	b	75	125
Chromium	32817	1	S16379A3	17	S16379A3	15	0.6288	0.1908	0.5	88		75	125
Cobalt	32817	1	S16379A3	17	S16379A3	15	0.5164	0.0405	0.5	95		75	125
Copper	32817	1	S16379A3	17	S16379A3	15	0.7210	0.1887	0.5	106		75	125
Iron	32817	1	S16379B3	16	S16379B3	14	112.1590	88.0651	5.0	482	b	75	125
Lead	32817	1	S16379A3	17	S16379A3	15	4.3982	2.2361	0.5	432	b	75	125
Magnesium	32817	1	S16379B3	16	S16379B3	14	93.9353	38.7690	50	110		75	125
Manganese	32817	1	S16379A3	17	S16379A3	15	3.9935	2.3960	0.5	319	b	75	125
Mercury	32817	2	H16379Sb	18	H16379Sb	16	17.1700	13.6000	10	71	a	75	125
Nickel	32817	1	S16379A3	17	S16379A3	15	0.6761	0.2017	0.5	95		75	125
Potassium	32817	1	S16379B3	16	S16379B3	14	55.2792	7.3594	50	96		75	125
Sodium	32817	1	S16379B3	16	S16379B3	14	50.0354	3.4075	50	93		75	125
Thallium	32817	1	S16379A3	17	S16379A3	15	0.4470	0.015U	0.5	89		75	125
Vanadium	32817	1	S16379A3	17	S16379A3	15	0.6259	0.1421	0.5	97		75	125
Zinc	32817	1	S16379A3	17	S16379A3	15	1.3771	0.5721	0.5	161	a	75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

4052101 1523

SPIKE RECOVERY DATA

PREP BATCH: 32817

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AC78787-015

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	1	S16379B3	18	S16379B3	14	58.1884	54.4466	5.0	75	b	80	120
Arsenic	1	S16379A3	19	S16379A3	15	0.5976	0.1238	0.50	95		80	120
Barium	1	S16379A3	19	S16379A3	15	1.1518	0.7122	0.50	88		80	120
Calcium	1	S16379B3	18	S16379B3	14	261.8740	219.1210	50	86		80	120
Chromium	1	S16379A3	19	S16379A3	15	0.6518	0.1908	0.50	92		80	120
Cobalt	1	S16379A3	19	S16379A3	15	0.5074	0.0405	0.50	93		80	120
Copper	1	S16379A3	19	S16379A3	15	0.6478	0.1887	0.50	92		80	120
Iron	1	S16379B3	18	S16379B3	14	91.2821	88.0651	5.0	64	b	80	120
Lead	1	S16379A3	19	S16379A3	15	2.6446	2.2361	0.50	82		80	120
Magnesium	1	S16379B3	18	S16379B3	14	84.1092	38.7690	50	91		80	120
Manganese	1	S16379A3	19	S16379A3	15	1.8808	2.3960	0.50	-100	b	80	120
Nickel	1	S16379A3	19	S16379A3	15	0.6552	0.2017	0.50	91		80	120
Potassium	1	S16379B3	18	S16379B3	14	54.5862	7.3594	50	94		80	120
Sodium	1	S16379B3	18	S16379B3	14	50.5355	3.4075	50	94		80	120
Thallium	1	S16379A3	19	S16379A3	15	0.4463	0.015U	0.50	89		80	120
Vanadium	1	S16379A3	19	S16379A3	15	0.5882	0.1421	0.50	89		80	120
Zinc	1	S16379A3	19	S16379A3	15	1.0191	0.5721	0.50	89		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

4052101 1524

SPIKE RECOVERY DATA

PREP BATCH: 32819

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS Matrix: AQUEOUS SampleID: LCSW 32819

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	32819	1	SW16381	13	5.0736	5.00	101		80	120
Antimony	32819	1	SW16381	13	0.4954	0.500	99		80	120
Arsenic	32819	1	SW16381	13	0.4940	0.500	99		80	120
Barium	32819	1	SW16381	13	0.5042	0.500	101		80	120
Beryllium	32819	1	SW16381	13	0.4873	0.500	97		80	120
Cadmium	32819	1	SW16381	13	0.4983	0.500	100		80	120
Calcium	32819	1	SW16381	13	49.1230	50.00	98		80	120
Chromium	32819	1	SW16381	13	0.5046	0.500	101		80	120
Cobalt	32819	1	SW16381	13	0.5036	0.500	101		80	120
Copper	32819	1	SW16381	13	0.5067	0.500	101		80	120
Iron	32819	1	SW16381	13	5.0348	5.00	101		80	120
Lead	32819	1	SW16381	13	0.5055	0.500	101		80	120
Magnesium	32819	1	SW16381	13	49.3850	50.00	99		80	120
Manganese	32819	1	SW16381	13	0.5017	0.500	100		80	120
Mercury	32819	1	H16381S	12	9.4601	10	95		80	120
Nickel	32819	1	SW16381	13	0.5068	0.500	101		80	120
Potassium	32819	1	SW16381	12	47.6157	50	95		80	120
Selenium	32819	1	SW16381	13	0.4870	0.500	97		80	120
Silver	32819	1	SW16381	13	0.1001	0.100	100		80	120
Sodium	32819	1	SW16381	12	49.4298	50	99		80	120
Thallium	32819	1	SW16381	13	0.5099	0.500	102		80	120
Vanadium	32819	1	SW16381	13	0.5010	0.500	100		80	120
Zinc	32819	1	SW16381	13	0.5079	0.500	102		80	120

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCSW MR 32819

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	32819	1	SW16381	14	4.9403	5.00	99		80	120
Antimony	32819	1	SW16381	14	0.4894	0.500	98		80	120
Arsenic	32819	1	SW16381	14	0.4842	0.500	97		80	120
Barium	32819	1	SW16381	14	0.4903	0.500	98		80	120
Beryllium	32819	1	SW16381	14	0.4850	0.500	97		80	120
Cadmium	32819	1	SW16381	14	0.4869	0.500	97		80	120
Calcium	32819	1	SW16381	14	49.0323	50.00	98		80	120
Chromium	32819	1	SW16381	14	0.4906	0.500	98		80	120
Cobalt	32819	1	SW16381	14	0.4926	0.500	99		80	120
Copper	32819	1	SW16381	14	0.4929	0.500	99		80	120
Iron	32819	1	SW16381	14	4.8915	5.00	98		80	120
Lead	32819	1	SW16381	14	0.4949	0.500	99		80	120
Magnesium	32819	1	SW16381	14	49.4181	50.00	99		80	120
Manganese	32819	1	SW16381	14	0.4873	0.500	97		80	120
Mercury	32819	1	H16381S	13	9.4871	10	95		80	120
Nickel	32819	1	SW16381	14	0.4900	0.500	98		80	120
Potassium	32819	1	SW16381	13	46.3374	50	93		80	120
Selenium	32819	1	SW16381	14	0.4818	0.500	96		80	120
Silver	32819	1	SW16381	14	0.0967	0.100	97		80	120
Sodium	32819	1	SW16381	13	49.8568	50	100		80	120
Thallium	32819	1	SW16381	14	0.4999	0.500	100		80	120
Vanadium	32819	1	SW16381	14	0.4870	0.500	97		80	120
Zinc	32819	1	SW16381	14	0.4920	0.500	98		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

4052101 1525

SPIKE RECOVERY DATA

PREP BATCH: 32819

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MS Matrix: AQUEOUS SampleID: AC78793-001

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	32819	2	SW16381	14	SW16381	12	2.6729	0.3393	5.0	93		75	125
Antimony	32819	2	SW16381	14	SW16381	12	0.2545	0.02U	0.50	102		75	125
Arsenic	32819	2	SW16381	14	SW16381	12	0.2497	0.02U	0.50	100		75	125
Barium	32819	2	SW16381	14	SW16381	12	0.2891	0.0685	0.50	88		75	125
Beryllium	32819	2	SW16381	14	SW16381	12	0.2175	0.012U	0.50	87		75	125
Cadmium	32819	2	SW16381	14	SW16381	12	0.2551	0.012U	0.50	102		75	125
Calcium	32819	2	SW16381	14	SW16381	12	115.9850	91.6534	50.0	97		75	125
Chromium	32819	2	SW16381	14	SW16381	12	0.2077	0.05U	0.50	83		75	125
Cobalt	32819	2	SW16381	14	SW16381	12	0.1934	0.02U	0.50	77		75	125
Copper	32819	2	SW16381	14	SW16381	12	0.2829	0.05U	0.50	113		75	125
Iron	32819	2	SW16381	14	SW16381	12	3.0205	0.9097	5.0	84		75	125
Lead	32819	2	SW16381	14	SW16381	12	0.1925	0.012U	0.50	77		75	125
Magnesium	32819	2	SW16381	14	SW16381	12	282.9630	254.8500	50	112		75	125
Manganese	32819	2	SW16381	14	SW16381	12	0.2633	0.0478	0.50	86		75	125
Mercury	32819	1	H16381S	16	H16381S	14	6.0687	.70U	10	61	a	75	125
Nickel	32819	2	SW16381	14	SW16381	12	0.1971	0.05U	0.50	79		75	125
Potassium	32819	1	SW16381	16	SW16381	14	415.3180	296.5560	50.00	238	b	75	125
Selenium	32819	2	SW16381	14	SW16381	12	0.2394	0.04U	0.50	96		75	125
Silver	32819	2	SW16381	14	SW16381	12	0.0518	0.02U	.10	104		75	125
Sodium	32819	60	SW16381	16	SW16381	14	610.4650	569.4310	50.00	4920	b	75	125
Thallium	32819	2	SW16381	14	SW16381	12	0.1697	0.02U	0.50	68	a	75	125
Vanadium	32819	2	SW16381	14	SW16381	12	0.2304	0.05U	0.50	92		75	125
Zinc	32819	2	SW16381	14	SW16381	12	0.2383	0.05U	0.50	95		75	125

TxtQcType: MSD Matrix: AQUEOUS SampleID: AC78793-001

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	32819	2	SW16381	15	SW16381	12	2.5913	0.3393	5.0	90		75	125
Antimony	32819	2	SW16381	15	SW16381	12	0.2490	0.02U	0.50	100		75	125
Arsenic	32819	2	SW16381	15	SW16381	12	0.2433	0.02U	0.50	97		75	125
Barium	32819	2	SW16381	15	SW16381	12	0.2843	0.0685	0.50	86		75	125
Beryllium	32819	2	SW16381	15	SW16381	12	0.2161	0.012U	0.50	86		75	125
Cadmium	32819	2	SW16381	15	SW16381	12	0.2501	0.012U	0.50	100		75	125
Calcium	32819	2	SW16381	15	SW16381	12	113.1010	91.6534	50.0	86		75	125
Chromium	32819	2	SW16381	15	SW16381	12	0.2050	0.05U	0.50	82		75	125
Cobalt	32819	2	SW16381	15	SW16381	12	0.1917	0.02U	0.50	77		75	125
Copper	32819	2	SW16381	15	SW16381	12	0.2786	0.05U	0.50	111		75	125
Iron	32819	2	SW16381	15	SW16381	12	2.9269	0.9097	5.0	81		75	125
Lead	32819	2	SW16381	15	SW16381	12	0.1906	0.012U	0.50	76		75	125
Magnesium	32819	2	SW16381	15	SW16381	12	276.8290	254.8500	50	88		75	125
Manganese	32819	2	SW16381	15	SW16381	12	0.2585	0.0478	0.50	84		75	125
Mercury	32819	1	H16381S	17	H16381S	14	6.1917	.70U	10	62	a	75	125
Nickel	32819	2	SW16381	15	SW16381	12	0.1942	0.05U	0.50	78		75	125
Potassium	32819	1	SW16381	17	SW16381	14	389.1230	296.5560	50.0	185	b	75	125
Selenium	32819	2	SW16381	15	SW16381	12	0.2321	0.04U	0.50	93		75	125
Silver	32819	2	SW16381	15	SW16381	12	0.0507	0.02U	.10	101		75	125
Sodium	32819	60	SW16381	17	SW16381	14	589.5240	569.4310	50	2410	b	75	125
Thallium	32819	2	SW16381	15	SW16381	12	0.1701	0.02U	0.50	68	a	75	125
Vanadium	32819	2	SW16381	15	SW16381	12	0.2284	0.05U	0.50	91		75	125
Zinc	32819	2	SW16381	15	SW16381	12	0.2357	0.05U	0.50	94		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

4052101 1526

SPIKE RECOVERY DATA

PREP BATCH: 32819

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS Matrix: AQUEOUS SampleID: LCS 32819

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	32819	1	SW52814	17	266.8000	250	107		80	120
Arsenic	32819	1	SW52814	17	254.7000	250	102		80	120
Beryllium	32819	1	SW52814	17	248.7000	250	99		80	120
Cadmium	32819	1	SW52814	17	253.5000	250	101		80	120
Cobalt	32819	1	SW52814	17	257.1000	250	103		80	120
Lead	32819	1	SW52814	17	257.4000	250	103		80	120
Selenium	32819	1	SW52814	17	262.6000	250	105		80	120
Silver	32819	1	SW52814	17	50.4800	50	101		80	120
Thallium	32819	1	SW52814	17	243.0000	250	97		80	120

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 32819

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	32819	1	SW52814	18	279.6000	250	112		80	120
Arsenic	32819	1	SW52814	18	260.5000	250	104		80	120
Beryllium	32819	1	SW52814	18	255.8000	250	102		80	120
Cadmium	32819	1	SW52814	18	262.4000	250	105		80	120
Cobalt	32819	1	SW52814	18	263.9000	250	106		80	120
Lead	32819	1	SW52814	18	272.1000	250	109		80	120
Selenium	32819	1	SW52814	18	264.5000	250	106		80	120
Silver	32819	1	SW52814	18	52.9200	50	106		80	120
Thallium	32819	1	SW52814	18	257.4000	250	103		80	120

TxtQcType: MS Matrix: AQUEOUS SampleID: AC78793-001

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	32819	5	SW52814	32	SW52814	29	47.2800	1U	250	95		75	125
Arsenic	32819	5	SW52814	32	SW52814	29	49.6600	1.1210	250	97		75	125
Beryllium	32819	5	SW52814	32	SW52814	29	40.9700	0.5U	250	82		75	125
Cadmium	32819	5	SW52814	32	SW52814	29	42.8500	1U	250	86		75	125
Cobalt	32819	5	SW52814	32	SW52814	29	41.5900	1U	250	83		75	125
Lead	32819	5	SW52814	32	SW52814	29	41.9500	1.8240	250	80		75	125
Selenium	32819	5	SW52814	32	SW52814	29	48.2100	5U	250	96		75	125
Silver	32819	5	SW52814	32	SW52814	29	8.3680	0.5U	50	84		75	125
Thallium	32819	5	SW52814	32	SW52814	29	37.2800	1U	250	75		75	125

TxtQcType: MSD Matrix: AQUEOUS SampleID: AC78793-001

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	32819	5	SW52814	33	SW52814	29	47.1500	1U	250	94		75	125
Arsenic	32819	5	SW52814	33	SW52814	29	49.4300	1.1210	250	97		75	125
Beryllium	32819	5	SW52814	33	SW52814	29	40.6700	0.5U	250	81		75	125
Cadmium	32819	5	SW52814	33	SW52814	29	42.5300	1U	250	85		75	125
Cobalt	32819	5	SW52814	33	SW52814	29	41.2500	1U	250	82		75	125
Lead	32819	5	SW52814	33	SW52814	29	41.8500	1.8240	250	80		75	125
Selenium	32819	5	SW52814	33	SW52814	29	48.0800	5U	250	96		75	125
Silver	32819	5	SW52814	33	SW52814	29	8.4460	0.5U	50	84		75	125
Thallium	32819	5	SW52814	33	SW52814	29	37.2300	1U	250	74	a	75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 32819

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: AQUEOUS SampleID: AC78793-001

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	1	SW16381	16	SW16381	12	4.9824	0.3393	5.000	93		80	120
Antimony	1	SW16381	16	SW16381	12	0.5185	0.02U	.5000	104		80	120
Arsenic	1	SW16381	16	SW16381	12	0.5062	0.02U	.5000	101		80	120
Barium	1	SW16381	16	SW16381	12	0.5158	0.0685	.5	89		80	120
Beryllium	1	SW16381	16	SW16381	12	0.4517	0.012U	.5000	90		80	120
Cadmium	1	SW16381	16	SW16381	12	0.5248	0.012U	.5000	105		80	120
Calcium	1	SW16381	16	SW16381	12	129.3330	91.6534	50.0	75	a	80	120
Chromium	1	SW16381	16	SW16381	12	0.4353	0.05U	.5000	87		80	120
Cobalt	1	SW16381	16	SW16381	12	0.4047	0.02U	.5000	81		80	120
Copper	1	SW16381	16	SW16381	12	0.5526	0.05U	0.5	111		80	120
Iron	1	SW16381	16	SW16381	12	5.0534	0.9097	5.000	83		80	120
Lead	1	SW16381	16	SW16381	12	0.3994	0.012U	.500	80		80	120
Magnesium	1	SW16381	16	SW16381	12	284.0580	254.8500	50.0	58	b	80	120
Manganese	1	SW16381	16	SW16381	12	0.4829	0.0478	.5000	87		80	120
Nickel	1	SW16381	16	SW16381	12	0.4097	0.05U	.5000	82		80	120
Potassium	1	SW16381	18	SW16381	14	339.4760	296.5560	50.00	86		80	120
Selenium	1	SW16381	16	SW16381	12	0.4935	0.04U	.5000	99		80	120
Silver	1	SW16381	16	SW16381	12	0.0924	0.02U	0.100	92		80	120
Sodium	1	SW16381	18	SW16381	14	605.6170	569.4310	50.00	72	b	80	120
Thallium	1	SW16381	16	SW16381	12	0.3626	0.02U	.5000	73	a	80	120
Vanadium	1	SW16381	16	SW16381	12	0.4582	0.05U	.5000	92		80	120
Zinc	1	SW16381	16	SW16381	12	0.4471	0.05U	0.500	89		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 32819

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: AQUEOUS SampleID: AC78793-001

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	5	SW52814	34	SW52814	29	52.6300	1U	50	105		80	120
Arsenic	5	SW52814	34	SW52814	29	56.3800	1.1210	50	111		80	120
Beryllium	5	SW52814	34	SW52814	29	45.4400	0.5U	50	91		80	120
Cadmium	5	SW52814	34	SW52814	29	48.4500	1U	50	97		80	120
Cobalt	5	SW52814	34	SW52814	29	46.2000	1U	50	92		80	120
Lead	5	SW52814	34	SW52814	29	47.0700	1.8240	50	90		80	120
Selenium	5	SW52814	34	SW52814	29	251.5000	5U	250	101		80	120
Silver	5	SW52814	34	SW52814	29	46.9500	0.5U	50	94		80	120
Thallium	5	SW52814	34	SW52814	29	42.4400	1U	50	85		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 32818

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 32818

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Antimony	32818	S052314B	18	S052314B	17	29.0800	31.1600	6.9		20
Beryllium	32818	S052314B	18	S052314B	17	53.0000	60.6600	13		20
Cadmium	32818	S052314B	18	S052314B	17	143.6000	160.2000	11		20
Selenium	32818	S052314B	18	S052314B	17	128.8000	145.6000	12		20
Silver	32818	S052314B	18	S052314B	17	60.4400	60.4600	.033		20

TxtQcType: MR Matrix: SOIL SampleID: AC78787-015

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Antimony	32818	S052314B	20	S052314B	19	103.7000	4U	---		20
Beryllium	32818	S052314B	20	S052314B	19	1.0510	1U	---		20
Cadmium	32818	S052314B	20	S052314B	19	2U	2U	---		20
Selenium	32818	S052314B	20	S052314B	19	10U	10U	---		20
Silver	32818	S052314B	20	S052314B	19	1U	1U	---		20

TxtQcType: MSD Matrix: SOIL SampleID: AC78787-015

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Antimony	32818	S052314B	23	S052314B	22	74.4200	91.6700	21	a	20
Beryllium	32818	S052314B	23	S052314B	22	172.3000	193.9000	12		20
Cadmium	32818	S052314B	23	S052314B	22	217.2000	248.2000	13		20
Selenium	32818	S052314B	23	S052314B	22	214.3000	241.8000	12		20
Silver	32818	S052314B	23	S052314B	22	50.3400	62.3100	21	a	20

TxtQcType: SD Matrix: SOIL SampleID: AC78787-015

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Antimony	32818	S052314B	21	S052314B	19	5	0.3161	1.0540	50	a	10
Beryllium	32818	S052314B	21	S052314B	19	5	0.2136	0.9652	11	a	10
Cadmium	32818	S052314B	21	S052314B	19	5	0.0974	0.4454	9.4		10
Selenium	32818	S052314B	21	S052314B	19	5	-1.3040	1.4160	---		10
Silver	32818	S052314B	21	S052314B	19	5	0.0625	0.3561	12	a	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 32817

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 32817

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	32817	S16379B3	13	S16379B3	12	65.8489	66.6878	1.3		20
Arsenic	32817	S16379A3	14	S16379A3	13	0.9046	0.9117	.79		20
Barium	32817	S16379A3	14	S16379A3	13	2.0286	2.0889	2.9		20
Calcium	32817	S16379B3	13	S16379B3	12	72.7005	70.8718	2.5		20
Chromium	32817	S16379A3	14	S16379A3	13	0.8590	0.8563	.31		20
Cobalt	32817	S16379A3	14	S16379A3	13	2.0688	2.0686	.0068		20
Copper	32817	S16379A3	14	S16379A3	13	2.6825	2.6712	.42		20
Iron	32817	S16379B3	13	S16379B3	12	111.3200	113.9870	2.4		20
Lead	32817	S16379A3	14	S16379A3	13	0.9863	1.0095	2.3		20
Magnesium	32817	S16379B3	13	S16379B3	12	25.1059	25.5343	1.7		20
Manganese	32817	S16379A3	14	S16379A3	13	4.2361	4.2281	.19		20
Mercury	32817	H16379Sb	15	H16379Sb	14	10.3300	10.1000	2.3		20
Nickel	32817	S16379A3	14	S16379A3	13	2.4031	2.3815	.91		20
Potassium	32817	S16379B3	13	S16379B3	12	21.4268	22.0673	2.9		20
Sodium	32817	S16379B3	13	S16379B3	12	9.9222	10.0148	.93		20
Thallium	32817	S16379A3	14	S16379A3	13	1.4224	1.4491	1.9		20
Vanadium	32817	S16379A3	14	S16379A3	13	1.4870	1.4750	.81		20
Zinc	32817	S16379A3	14	S16379A3	13	1.2640	1.2731	.71		20

TxtQcType: MR Matrix: SOIL SampleID: AC78787-015

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	32817	S16379B3	15	S16379B3	14	57.1609	54.4466	4.9		20
Arsenic	32817	S16379A3	16	S16379A3	15	0.1080	0.1238	14		20
Barium	32817	S16379A3	16	S16379A3	15	0.6594	0.7122	7.7		20
Calcium	32817	S16379B3	15	S16379B3	14	336.4610	219.1210	42	a	20
Chromium	32817	S16379A3	16	S16379A3	15	0.1503	0.1908	24	b	20
Cobalt	32817	S16379A3	16	S16379A3	15	0.0309	0.0405	27	b	20
Copper	32817	S16379A3	16	S16379A3	15	0.1828	0.1887	3.2		20
Iron	32817	S16379B3	15	S16379B3	14	96.0845	88.0651	8.7		20
Lead	32817	S16379A3	16	S16379A3	15	1.8435	2.2361	19		20
Magnesium	32817	S16379B3	15	S16379B3	14	38.8072	38.7690	0.098		20
Manganese	32817	S16379A3	16	S16379A3	15	2.1546	2.3960	11		20
Mercury	32817	H16379Sb	17	H16379Sb	16	13.1300	13.6000	3.5		20
Nickel	32817	S16379A3	16	S16379A3	15	0.1492	0.2017	30	b	20
Potassium	32817	S16379B3	15	S16379B3	14	6.4709	7.3594	13		20
Sodium	32817	S16379B3	15	S16379B3	14	2.8230	3.4075	19		20
Thallium	32817	S16379A3	16	S16379A3	15	0.015U	0.015U	---		20
Vanadium	32817	S16379A3	16	S16379A3	15	0.1469	0.1421	3.3		20
Zinc	32817	S16379A3	16	S16379A3	15	0.5052	0.5721	12		20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 32817

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: SOIL SampleID: AC78787-015

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	32817	S16379B3	17	S16379B3	16	67.0137	69.4273	3.5		20
Arsenic	32817	S16379A3	18	S16379A3	17	0.6583	0.7012	6.3		20
Barium	32817	S16379A3	18	S16379A3	17	1.7175	1.4020	20		20
Calcium	32817	S16379B3	17	S16379B3	16	261.2460	288.9390	10		20
Chromium	32817	S16379A3	18	S16379A3	17	0.6941	0.6288	9.9		20
Cobalt	32817	S16379A3	18	S16379A3	17	0.5521	0.5164	6.7		20
Copper	32817	S16379A3	18	S16379A3	17	0.7436	0.7210	3.1		20
Iron	32817	S16379B3	17	S16379B3	16	115.3680	112.1590	2.8		20
Lead	32817	S16379A3	18	S16379A3	17	2.9714	4.3982	39	a	20
Magnesium	32817	S16379B3	17	S16379B3	16	90.6974	93.9353	3.5		20
Manganese	32817	S16379A3	18	S16379A3	17	2.1864	3.9935	58	a	20
Mercury	32817	H16379Sb	19	H16379Sb	18	14.0200	17.1700	20		20
Nickel	32817	S16379A3	18	S16379A3	17	0.7216	0.6761	6.5		20
Potassium	32817	S16379B3	17	S16379B3	16	54.9812	55.2792	.54		20
Sodium	32817	S16379B3	17	S16379B3	16	49.2339	50.0354	1.6		20
Thallium	32817	S16379A3	18	S16379A3	17	0.4836	0.4470	7.9		20
Vanadium	32817	S16379A3	18	S16379A3	17	0.6774	0.6259	7.9		20
Zinc	32817	S16379A3	18	S16379A3	17	1.2105	1.3771	13		20

TxtQcType: SD Matrix: SOIL SampleID: AC78787-015

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Aluminum	32817	S16379B3	22	S16379B3	14	5	11.0861	54.4466	1.8		10
Arsenic	32817	S16379A3	23	S16379A3	15	5	0.0256	0.1238	3.3		10
Barium	32817	S16379A3	23	S16379A3	15	5	0.1388	0.7122	2.5		10
Calcium	32817	S16379B3	22	S16379B3	14	5	44.6723	219.1210	1.9		10
Chromium	32817	S16379A3	23	S16379A3	15	5	0.0347	0.1908	9		10
Cobalt	32817	S16379A3	23	S16379A3	15	5	0.0031	0.0405	61	c	10
Copper	32817	S16379A3	23	S16379A3	15	5	0.0343	0.1887	9.2		10
Iron	32817	S16379B3	22	S16379B3	14	5	17.9762	88.0651	2.1		10
Lead	32817	S16379A3	23	S16379A3	15	5	0.4588	2.2361	2.6		10
Magnesium	32817	S16379B3	22	S16379B3	14	5	7.7828	38.7690	0.37		10
Manganese	32817	S16379A3	23	S16379A3	15	5	0.4765	2.3960	0.56		10
Nickel	32817	S16379A3	23	S16379A3	15	5	0.0355	0.2017	12	a	10
Potassium	32817	S16379B3	22	S16379B3	14	5	1.5005	7.3594	1.9		10
Sodium	32817	S16379B3	22	S16379B3	14	5	0.6193	3.4075	9.1		10
Thallium	32817	S16379A3	23	S16379A3	15	5	-0.0015	-0.0009	---		10
Vanadium	32817	S16379A3	23	S16379A3	15	5	0.0248	0.1421	13	a	10
Zinc	32817	S16379A3	23	S16379A3	15	5	0.1095	0.5721	4.3		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 32819

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCSW MR 32819

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Aluminum	32819	SW16381	14	SW16381	13	4.9403	5.0736	2.7	20
Antimony	32819	SW16381	14	SW16381	13	0.4894	0.4954	1.2	20
Arsenic	32819	SW16381	14	SW16381	13	0.4842	0.4940	2	20
Barium	32819	SW16381	14	SW16381	13	0.4903	0.5042	2.8	20
Beryllium	32819	SW16381	14	SW16381	13	0.4850	0.4873	.47	20
Cadmium	32819	SW16381	14	SW16381	13	0.4869	0.4983	2.3	20
Calcium	32819	SW16381	14	SW16381	13	49.0323	49.1230	.18	20
Chromium	32819	SW16381	14	SW16381	13	0.4906	0.5046	2.8	20
Cobalt	32819	SW16381	14	SW16381	13	0.4926	0.5036	2.2	20
Copper	32819	SW16381	14	SW16381	13	0.4929	0.5067	2.8	20
Iron	32819	SW16381	14	SW16381	13	4.8915	5.0348	2.9	20
Lead	32819	SW16381	14	SW16381	13	0.4949	0.5055	2.1	20
Magnesium	32819	SW16381	14	SW16381	13	49.4181	49.3850	.067	20
Manganese	32819	SW16381	14	SW16381	13	0.4873	0.5017	2.9	20
Mercury	32819	H16381S	13	H16381S	12	9.4871	9.4601	.29	20
Nickel	32819	SW16381	14	SW16381	13	0.4900	0.5068	3.4	20
Potassium	32819	SW16381	13	SW16381	12	46.3374	47.6157	2.7	20
Selenium	32819	SW16381	14	SW16381	13	0.4818	0.4870	1.1	20
Silver	32819	SW16381	14	SW16381	13	0.0967	0.1001	3.5	20
Sodium	32819	SW16381	13	SW16381	12	49.8568	49.4298	.86	20
Thallium	32819	SW16381	14	SW16381	13	0.4999	0.5099	2	20
Vanadium	32819	SW16381	14	SW16381	13	0.4870	0.5010	2.8	20
Zinc	32819	SW16381	14	SW16381	13	0.4920	0.5079	3.2	20

TxtQcType: MR Matrix: AQUEOUS SampleID: AC78793-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Aluminum	32819	SW16381	13	SW16381	12	0.3653	0.3393	7.4	20
Antimony	32819	SW16381	13	SW16381	12	0.02U	0.02U	---	20
Arsenic	32819	SW16381	13	SW16381	12	0.02U	0.02U	---	20
Barium	32819	SW16381	13	SW16381	12	0.0728	0.0685	6	20
Beryllium	32819	SW16381	13	SW16381	12	0.012U	0.012U	---	20
Cadmium	32819	SW16381	13	SW16381	12	0.012U	0.012U	---	20
Calcium	32819	SW16381	13	SW16381	12	96.5168	91.6534	5.2	20
Chromium	32819	SW16381	13	SW16381	12	0.05U	0.05U	---	20
Cobalt	32819	SW16381	13	SW16381	12	0.02U	0.02U	---	20
Copper	32819	SW16381	13	SW16381	12	0.05U	0.05U	---	20
Iron	32819	SW16381	13	SW16381	12	0.9933	0.9097	8.8	20
Lead	32819	SW16381	13	SW16381	12	0.012U	0.012U	---	20
Magnesium	32819	SW16381	13	SW16381	12	266.6090	254.8500	4.5	20
Manganese	32819	SW16381	13	SW16381	12	0.0509	0.0478	6.2	20
Mercury	32819	H16381S	15	H16381S	14	.70U	.70U	---	20
Nickel	32819	SW16381	13	SW16381	12	0.05U	0.05U	---	20
Potassium	32819	SW16381	15	SW16381	14	358.2730	296.5560	19	20
Selenium	32819	SW16381	13	SW16381	12	0.04U	0.04U	---	20
Silver	32819	SW16381	13	SW16381	12	0.02U	0.02U	---	20
Sodium	32819	SW16381	15	SW16381	14	608.6840	569.4310	6.7	20
Thallium	32819	SW16381	13	SW16381	12	0.02U	0.02U	---	20
Vanadium	32819	SW16381	13	SW16381	12	0.05U	0.05U	---	20
Zinc	32819	SW16381	13	SW16381	12	0.05U	0.05U	---	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 32819

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: AQUEOUS SampleID: AC78793-001

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Aluminum	32819	SW16381	15	SW16381	14	2.5913	2.6729	3.1	20
Antimony	32819	SW16381	15	SW16381	14	0.2490	0.2545	2.2	20
Arsenic	32819	SW16381	15	SW16381	14	0.2433	0.2497	2.6	20
Barium	32819	SW16381	15	SW16381	14	0.2843	0.2891	1.7	20
Beryllium	32819	SW16381	15	SW16381	14	0.2161	0.2175	.64	20
Cadmium	32819	SW16381	15	SW16381	14	0.2501	0.2551	2	20
Calcium	32819	SW16381	15	SW16381	14	113.1010	115.9850	2.5	20
Chromium	32819	SW16381	15	SW16381	14	0.2050	0.2077	1.3	20
Cobalt	32819	SW16381	15	SW16381	14	0.1917	0.1934	.87	20
Copper	32819	SW16381	15	SW16381	14	0.2786	0.2829	1.5	20
Iron	32819	SW16381	15	SW16381	14	2.9269	3.0205	3.1	20
Lead	32819	SW16381	15	SW16381	14	0.1906	0.1925	1	20
Magnesium	32819	SW16381	15	SW16381	14	276.8290	282.9630	2.2	20
Manganese	32819	SW16381	15	SW16381	14	0.2585	0.2633	1.8	20
Mercury	32819	H16381S	17	H16381S	16	6.1917	6.0687	2	20
Nickel	32819	SW16381	15	SW16381	14	0.1942	0.1971	1.5	20
Potassium	32819	SW16381	17	SW16381	16	389.1230	415.3180	6.5	20
Selenium	32819	SW16381	15	SW16381	14	0.2321	0.2394	3.1	20
Silver	32819	SW16381	15	SW16381	14	0.0507	0.0518	2.1	20
Sodium	32819	SW16381	17	SW16381	16	589.5240	610.4650	3.5	20
Thallium	32819	SW16381	15	SW16381	14	0.1701	0.1697	.21	20
Vanadium	32819	SW16381	15	SW16381	14	0.2284	0.2304	.89	20
Zinc	32819	SW16381	15	SW16381	14	0.2357	0.2383	1.1	20

TxtQcType: SD Matrix: AQUEOUS SampleID: AC78793-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Aluminum	32819	SW16381	17	SW16381	12	5	0.0917	0.3393	35	a	10
Antimony	32819	SW16381	17	SW16381	12	5	0.0045	-0.0003	---		10
Arsenic	32819	SW16381	17	SW16381	12	5	0.0030	0.0022	572	c	10
Barium	32819	SW16381	17	SW16381	12	5	0.0115	0.0685	16	a	10
Beryllium	32819	SW16381	17	SW16381	12	5	-0.0004	0.0000	---		10
Cadmium	32819	SW16381	17	SW16381	12	5	0.0000	-0.0021	---		10
Calcium	32819	SW16381	17	SW16381	12	5	21.5033	91.6534	17	a	10
Chromium	32819	SW16381	17	SW16381	12	5	0.0002	-0.0009	---		10
Cobalt	32819	SW16381	17	SW16381	12	5	-0.0016	-0.0030	---		10
Copper	32819	SW16381	17	SW16381	12	5	0.0054	0.0145	85	c	10
Iron	32819	SW16381	17	SW16381	12	5	0.1666	0.9097	8.4		10
Lead	32819	SW16381	17	SW16381	12	5	-0.0014	0.0049	---		10
Magnesium	32819	SW16381	17	SW16381	12	5	62.9058	254.8500	23	a	10
Manganese	32819	SW16381	17	SW16381	12	5	0.0090	0.0478	6.4		10
Nickel	32819	SW16381	17	SW16381	12	5	-0.0003	0.0000	---		10
Potassium	32819	SW16381	22	SW16381	14	5	43.4991	296.5560	27	a	10
Selenium	32819	SW16381	17	SW16381	12	5	0.0039	0.0067	---		10
Silver	32819	SW16381	17	SW16381	12	5	0.0043	-0.0065	---		10
Sodium	32819	SW16381	22	SW16381	14	5	113.4420	569.4310	0.39		10
Thallium	32819	SW16381	17	SW16381	12	5	0.0007	-0.0052	---		10
Vanadium	32819	SW16381	17	SW16381	12	5	0.0234	0.0150	678	a	10
Zinc	32819	SW16381	17	SW16381	12	5	0.0118	0.0468	26	a	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 32819

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 32819

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Antimony	32819	SW52814	18	SW52814	17	279.6000	266.8000	4.7		20
Arsenic	32819	SW52814	18	SW52814	17	260.5000	254.7000	2.3		20
Beryllium	32819	SW52814	18	SW52814	17	255.8000	248.7000	2.8		20
Cadmium	32819	SW52814	18	SW52814	17	262.4000	253.5000	3.5		20
Cobalt	32819	SW52814	18	SW52814	17	263.9000	257.1000	2.6		20
Lead	32819	SW52814	18	SW52814	17	272.1000	257.4000	5.6		20
Selenium	32819	SW52814	18	SW52814	17	264.5000	262.6000	.72		20
Silver	32819	SW52814	18	SW52814	17	52.9200	50.4800	4.7		20
Thallium	32819	SW52814	18	SW52814	17	257.4000	243.0000	5.8		20

TxtQcType: MR Matrix: AQUEOUS SampleID: AC78793-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Antimony	32819	SW52814	30	SW52814	29	1U	1U	---		20
Arsenic	32819	SW52814	30	SW52814	29	1.0600	1.1210	5.6		20
Beryllium	32819	SW52814	30	SW52814	29	0.5U	0.5U	---		20
Cadmium	32819	SW52814	30	SW52814	29	1U	1U	---		20
Cobalt	32819	SW52814	30	SW52814	29	1U	1U	---		20
Lead	32819	SW52814	30	SW52814	29	2.2990	1.8240	23	b	20
Selenium	32819	SW52814	30	SW52814	29	5U	5U	---		20
Silver	32819	SW52814	30	SW52814	29	0.5U	0.5U	---		20
Thallium	32819	SW52814	30	SW52814	29	1U	1U	---		20

TxtQcType: MSD Matrix: AQUEOUS SampleID: AC78793-001

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Antimony	32819	SW52814	33	SW52814	32	47.1500	47.2800	.28		20
Arsenic	32819	SW52814	33	SW52814	32	49.4300	49.6600	.46		20
Beryllium	32819	SW52814	33	SW52814	32	40.6700	40.9700	.73		20
Cadmium	32819	SW52814	33	SW52814	32	42.5300	42.8500	.75		20
Cobalt	32819	SW52814	33	SW52814	32	41.2500	41.5900	.82		20
Lead	32819	SW52814	33	SW52814	32	41.8500	41.9500	.24		20
Selenium	32819	SW52814	33	SW52814	32	48.0800	48.2100	.27		20
Silver	32819	SW52814	33	SW52814	32	8.4460	8.3680	.93		20
Thallium	32819	SW52814	33	SW52814	32	37.2300	37.2800	.13		20

TxtQcType: SD Matrix: AQUEOUS SampleID: AC78793-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Antimony	32819	SW52814	31	SW52814	29	5	0.0757	0.4542	17	c	10
Arsenic	32819	SW52814	31	SW52814	29	5	0.2454	1.1210	9.5		10
Beryllium	32819	SW52814	31	SW52814	29	5	-0.0133	0.0074	---		10
Cadmium	32819	SW52814	31	SW52814	29	5	0.0012	0.0476	---		10
Cobalt	32819	SW52814	31	SW52814	29	5	-0.0025	0.0843	---		10
Lead	32819	SW52814	31	SW52814	29	5	0.3812	1.8240	4.5		10
Selenium	32819	SW52814	31	SW52814	29	5	0.4214	1.0230	---		10
Silver	32819	SW52814	31	SW52814	29	5	-0.0024	0.0329	---		10
Thallium	32819	SW52814	31	SW52814	29	5	-0.0067	0.0148	---		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Metal Data
Verification of Instrument Parameters

MDL/RL
Method 6020/6020A
MS2_7500
SOIL

ELEMENT	MDL (MG/KG)	Reporting Limits (MG/KG)
Al	1.88	100
Sb	0.0123	0.8
As	0.00678	0.2
Ba	0.0525	1
Be	0.00205	0.2
Ca	3.03	100
Cd	0.00265	0.4
Cr	0.0416	0.4
Co	0.00461	0.4
Cu	0.0360	2
Fe	2.26	100
Pb	0.0114	0.4
Mg	0.773	100
Mn	0.0310	1.2
Mo	0.0317	0.2
Na	1.78	100
Ni	0.0215	0.6
K	2.04	100
Se	0.0822	2
Ag	0.00183	0.2
Tl	0.00357	0.4
V	0.00439	0.2
Zn	0.0325	4

All elements analyzed on 5/03/13. Na,K,Ni,Ca,Mn,Cu analyzed 08/01/2013. Se analyzed on 08/06/2013. Zn analyzed 10/03/2013.

MDL / RL SUMMARY
SOIL
PE ICP 3

ELEMENT	MDL	Reporting Limits (Mg/Kg)
AL	14	200
SB	0.506	4
AS	0.944	4
BA	0.198	10
BE	0.011	1.2
CD	0.0575	1.2
CA	6.2	1000
CR	0.134	5
CO	0.0914	2.5
CU	0.419	5
FE	1.35	200
PB	0.310	5
MG	0.781	500
MN	0.249	10
MO	0.204	2.5
NI	0.179	5
SE	1.04	3
AG	0.0883	1.5
TL	0.382	1.5
SN	0.331	20
TI	0.0276	10
V	0.114	10
ZN	0.864	10

All elements analysed on 04/18/2014.Mg analysed on 04/22/2014.

MDL / RL SUMMARY
SOIL RADIAL SW846
PE ICP 3

ELEMENT	MDL	Reporting Limits (Mg/Kg)
AL	4.40062	200
CA	5.66488	1000
FE	19.8872	200
MG	4.26072	500
MN	0.231506	10
K	7.91657	500
NA	13.8036	250
TI	0.170543	10

Fe,Mg,Na,K,Mn,Ti analysed on 04/28/2014.Al,Ca analysed on 05/01/2014

HGCV2 MDL/RL SUMMARY

Element: *Mercury*
Instrument: *PE FIMS 100*
Technique: *CV*

Instrument ID: *HgCV2*
Analyst *Paul Cousineau*

200 Series	METHOD	MDL (ppb)	Completed	RL (ppb)
H_2O	245.1	0.0688	8/14/2013	0.20
SW846				
H_2O	7470A	0.0457	8/20/2013	0.70
SOIL	7471 B	0.0469 (0.00782 mg/kg)	8/14/2013	0.50 (0.0833 mg/kg)

MDL / RL SUMMARY
6010 WATER
PE ICP 2 AXIAL

ELEMENT	MDL	Reporting Limits (Mg/L)
AL	0.0680502	0.2
SB	0.0032587	0.02
AS	0.0023632	0.02
BA	0.0006365	0.05
BE	0.0001165	0.012
CD	0.0004567	0.012
CA	0.0585369	5
CR	0.0004865	0.05
CO	0.0003208	0.02
CU	0.0014063	0.05
FE	0.0090057	0.3
PB	0.0019321	0.012
MG	0.01564	5
MN	0.000890	0.04
MO	0.0007031	0.02
NI	0.0006877	0.05
SE	0.0078283	0.04
AG	0.000370	0.02
TL	0.0050969	0.02
SN	0.0016346	0.05
TI	0.0003742	0.05
V	0.0048512	0.05
ZN	0.0036106	0.05

Mg, Pb analyzed 09/30/13. All others analyzed 09/27/13

MDL / RL SUMMARY
6010 WATER
PE ICP 2 RADIAL

ELEMENT	MDL	Reporting Limits (Mg/L)
Al	0.049541	0.2
Ca	0.044099	5
Fe	0.054126	0.3
Mg	0.027042	5
Mn	0.001118	0.04
K	0.084583	5
Na	0.054574	5
Ti	0.002452	0.05

All elements analyzed on 07/05/13.

HGCV1 MDL / RL SUMMARY

Element: *Mercury*
Instrument: *PE FIMS 100*
Technique: *CV*

Instrument ID *HgCV1*
Analyst *Paul Cousineau*

200 Series	**METHOD**	**MDL** (ppb)	**Completed**	**RL** (ppb)
H_2O	245.1	0.060856	8/14/2013	0.20
SW846				
H_2O	7470A	0.088436	8/20/2013	0.70
SOIL	7471 B	0.0592370 (0.00989mg/kg)	8/14/2013	0.50 (0.0833 mg/kg)

MDL/RL
Method 6020/6020A
MS2_7500
Aqueous

ELEMENT	MDL (ug/L)	Reporting Limits (ug/L)
Al	16.73	200
Sb	0.0799	2
As	0.105	2
Ba	0.187	5
Be	0.0865	1
Ca	22.82	500
Cd	0.0976	2
Cr	0.524	2
Co	0.1330	2
Cu	0.656	10
Fe	34.30	300
Pb	0.208	3
Mg	31.10	500
Mn	1.12	6
Mo	0.396	2
Na	21.97	500
Ni	0.342	3
K	30.40	500
Se	0.789	10
Ag	0.0723	1
Tl	0.0585	2
V	0.154	2
Zn	1.07	20

ALL ELEMENTS ANALYZED 09/27/2013.

INTERELEMENT CORRECTION SUMMARY
PEICP3

Interfered Elements	Interfering Elements									
	Al	Ca	Fe	Mg	Mn	Mo	Ti	Zn	Co	Cr
Al	N/A	1.15245	0.87464	0	29.4397	28.9038	0	0	0	0
Sb	0.101	0.0103	0.117	0	0	-1.13363	1.4421	0	0	0
As	0.0121	0.0309	-0.1487	0	0	-2.09	0	0	0	0
Ba	0	0	0.035	0	0	0	0	0	0	0
Be	0	0	0	0	0	0	0.402243	0	0	0
Cd	0	0	0	0	0	0	0	0	0	0
Ca	0	N/A	0	0	0	0	0	0	0	0
Cr	0	0	-0.0466	-0.0245	0	-5.53424	0	0	0	N/A
Co	0	0	0	0	0	-4.8148	2.21	0	N/A	0
Cu	0	0	0	0	0	0	0	0	0	0
Fe	0	0	N/A	0.233751	0	0	0	0	0	0
Pb	0.586	0.0288	0.0879	0	0	-3.4808	0	-0.46196	0	0
Mg	0	0	0	N/A	0	-70.2611	0	0	0	0
Mn	0	0	0	0.034438	N/A	1.20479	0	0	0	0
Mo	0	0.05827	0	0	0	N/A	1.0766	0	0	0
Ni	0	0	0	0	0	-1.49516	0	0	0	0
Se	0.0307	-0.006	0	0	0.8654	0	0	0	0	0
Ag	0	-0.0295	-0.132	0	0	0	0	0	0	0
Tl	0	0	-0.01	0	1.7	-2.61475	-7	0	6	0.45
Sn	0	-0.0249	-0.0307	0	0	0	-0.652334	0	0	0
Ti	0	0	0	0	0	0	N/A	0.360469	0	0
V	0	0	0.0509	0.1	0	0	0	0	0	0
Zn	-0.0231	0.02088	0	0	0	0	2	N/A	0	0

IEC RUN ON 09/03/2013. Ba modified on 09/17/13; Zn on09/17/2013; Mo on 09/23/13; Ti on 11/15/2013; V,Sn 01/09/14; As mod 01/17/14; Pb, Se mod 03/12/2014; Tl on 032714; Ag 04/02/14.

IEC RUN ON 09/03/2013.Ba modified on 09/17/13; Zn on09/17/2013; Mo on 09/23/13; Sn on 11/12/2013; Ti on 11/15/2013; Pb,V,Sn 01/09/14; As mod 01/17/14;Ag,Pb,Se,V on 05/13/14;Tl on 05/14/14.

INTERELEMENT CORRECTION SUMMARY PEICP2

Interfered Elements	Interfering Elements							
	Al	Ca	Fe	Mg	Mn	Mo	Ti	Zn
Al	N/A	0	0	0	0	16.5	0	0
Sb	0.0351	0	-0.139	0.00581	0	-0.658	0	0
As	0.0331	0.0132	-0.0959	0.00803	0	0.235	-0.0787	0
Ba	0	0	0.0379	0	0	0	0	0
Be	0	0	0	0	0	0	0.36	0
Cd	0.00402	0.0042	0.0097	0	0	0.114	0	0
Ca	0.211	N/A	1.27	0	5.17	6.83	0	0
Cr	0	0	0	0	-0.366	-5.16	0	0
Co	0	0	0	0	0	-3.76	2.05	0
Cu	0.0121	0.00371	0	0	0	-0.501	0.423	0
Fe	0	0	N/A	0	0	0	0	0
Pb	-0.204	-0.0196	0.00567	0.00444	0	-2.85	0.128	0
Mg	0	0	0.699	N/A	-5.78	-11.4	0	0
Mn	0	0	0	0.0371	N/A	-0.305	0	0
Mo	0.00805	0.0249	0	0	0	N/A	0.307	0
Ni	0	0	0	0	0	-1.16	0	0
Se	-0.0242	-0.014	-0.347	-0.0143	1.001	-0.267	-0.438	0
Ag	0	-0.00393	-0.0719	0	0	0	0	0
Tl	0.0651	-0.00526	0.0201	0.0283	-0.0336	-0.205	-6.69	0
Sn	0.0202	-0.0226	0	-0.0105	0	0	0	0
Ti	0	0	0	0	0	0	N/A	0
V	0	0	0.0373	0.0996	-0.287	-0.121	0	0
Zn	0.017	0	0.0392	0	0	0.267	0	N/A

IEC'S RUN 09/26/13. Cd mod 10/01/13; Co, Cr, Ni mod 11/15/13; Cu mod 02/06/14; As mod 03/10/14; Ag mod 03/14/14; Mo mod 03/31/14; Se, Sn mod 04/04/14; Sb, V mod 04/21/14; Tl mod 04/25/14; Pb mod 05/14/14.

LINEAR RANGES
ICP-MS2
MS_7500

ELEMENT	LINEAR RANGE (ppb)
Al	67500
Sb	1125
As	2250
Ba	1350
Be	2700
Ca	225000
Cd	2700
Cr	2700
Co	2700
Cu	2700
Fe	202500
Pb	2700
Mg	225000
Mn	2700
Mo	2700
Na	225000
Ni	2700
K	225000
Se	2700
Ag	900
Tl	900
V	2700
Zn	2700

All elements analyzed on 06/03/2013.

LINEAR RANGES
PE ICP 3 Axial

ELEMENT	LINEAR RANGE (PPM)
Al	900
Sb	18
As	45
Ba	45
Be	18
Cd	45
Ca	720
Cr	45
Co	45
Cu	18
Fe	450
Pb	45
Mg	900
Mn	45
Mo	45
Ni	45
Se	45
Ag	3.6
Tl	45
Sn	45
Ti	45
V	45
Zn	45

All other elements analyzed on 07/08/2013.
Ca, Mg, Mn, Mo analysed on 07/09/2013. Cu, Sb analysed on 07/17/2013.

LINEAR RANGES

PE ICP 3 Radial

ELEMENT	LINEAR RANGE (PPM)
Al	900
Ca	900
Fe	900
Mg	900
K	900
Na	900
Mn	36
Ti	27

Al, Ca, Fe, Mg, Na, K analyzed on 07/18/13; Mn,Ti analysed on 07/25/2013.

LINEAR RANGES
PE ICP 2 Axial

ELEMENT	Linear Range (mg/L)
Al	900
Sb	45
As	45
Ba	45
Be	4.5
Cd	45
Ca	900
Cr	45
Co	45
Cu	18
Fe	450
Pb	45
Mg	900
Mn	45
Mo	45
Ni	45
Se	45
Ag	9
Tl	45
Sn	45
Ti	45
V	45
Zn	45

All elements analyzed 08/05/13.

LINEAR RANGES
PE ICP 2 Radial

ELEMENT	LINEAR RANGE (PPM)
Al	900
Ca	900
Fe	360
Mg	900
K	900
Na	900
Mn	45
Ti	45

All elements analyzed on 4/30/14.

LINEAR RANGES
ICP-MS2
MS_7500

ELEMENT	LINEAR RANGE (ppb)
Al	67500
Sb	1125
As	2250
Ba	1350
Be	2700
Ca	225000
Cd	2700
Cr	2700
Co	2700
Cu	2700
Fe	202500
Pb	2700
Mg	225000
Mn	2700
Mo	2700
Na	225000
Ni	2700
K	225000
Se	2700
Ag	900
Tl	900
V	2700
Zn	2700

All elements analyzed on 06/03/2013.

Metal Data
Raw Data

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-182994

Prepared By: Cousineau, Paul
Description: Antimony Intermediate 1PPM
Prep Date: 3/12/2014
Expiration Date: 9/12/2014
Department: Metals
BatchNumber:
Concentration: 1000 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 03/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	2.5 ml	neat neat	
8451	ANTIMONY	.1 ml	1000 mg/l	

Veritech Lot Number: V-184987

Prepared By: Cousineau, Paul
Description: 6020 CALIBRATION STOCK
Prep Date: 4/11/2014
Expiration Date: 7/11/2014
Department: Metals
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 04/11/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	2 ml	neat neat	
8467	ALUMINUM	.725 ml	10000 mg/l	72.5
8446	SELENIUM	1 ml	1000 mg/l	10
8461	CALCIUM	2.5 ml	10000 mg/l	250
8450	IRON	2.5 ml	10000 mg/l	250
8434	MAGNESIUM	2.5 ml	10000 mg/l	250
8441	POTASSIUM	2.5 ml	10000 mg/l	250
8438	SODIUM	2.5 ml	10000 mg/l	250
8354	ICPMS CALIBRATION STOCK 1	12.5 ml	20 mg/l	2.5

Veritech Lot Number: V-185545

Prepared By: Adewusi, Anu
Description: 1:1 HNO3
Prep Date: 4/21/2014
Expiration Date: 11/13/2014
Department: Metals
BatchNumber:
Concentration: Reagent reag
Final Volume: 6000 ml
ApprovedBy: shiamala
ApproveDate: 04/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8307	Nitric Acid	3000 ml	neat neat	
8415	DI H2O	3000 ml		

Veritech Lot Number: V-187134

Prepared By: Kalin, Gabrielle
Description: Cal Blk
Prep Date: 5/20/2014
Expiration Date: 5/26/2014
Department: Metals
BatchNumber: B-17397
Concentration: 0 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	2.5 ml	neat neat	

Veritech Lot Number: V-187135

Prepared By: Kalin, Gabrielle
Description: Cal Std-1
Prep Date: 5/20/2014
Expiration Date: 5/26/2014
Department: Metals
BatchNumber: B-17397
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	2.5 ml	neat neat	
V-184987	6020 CALIBRATION STOCK	.02 ml	VARIOUS pp	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187136

Prepared By: Kalin, Gabrielle
Description: Cal Std-2
Prep Date: 5/20/2014
Expiration Date: 5/26/2014
Department: Metals
BatchNumber: B-17397
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8307	Nitric Acid	2.5 ml	neat neat	
8415	DI H2O			
V-184987	6020 CALIBRATION STOCK	.2 ml	VARIOUS pp	

Veritech Lot Number: V-187137

Prepared By: Kalin, Gabrielle
Description: Cal Std-3
Prep Date: 5/20/2014
Expiration Date: 5/26/2014
Department: Metals
BatchNumber: B-17397
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	2.5 ml	neat neat	
V-184987	6020 CALIBRATION STOCK	.4 ml	VARIOUS pp	

Veritech Lot Number: V-187138

Prepared By: Kalin, Gabrielle
Description: Cal Std-4
Prep Date: 5/20/2014
Expiration Date: 5/26/2014
Department: Metals
BatchNumber: B-17397
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	2.5 ml	neat neat	
V-184987	6020 CALIBRATION STOCK	2 ml	VARIOUS pp	

Veritech Lot Number: V-187139

Prepared By: Kalin, Gabrielle
Description: Cal Std-5
Prep Date: 5/20/2014
Expiration Date: 5/26/2014
Department: Metals
BatchNumber: B-17397
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8307	Nitric Acid	2.5 ml	neat neat	
8415	DI H2O			
V-184987	6020 CALIBRATION STOCK	4 ml	VARIOUS pp	

Veritech Lot Number: V-187140

Prepared By: Kalin, Gabrielle
Description: ICV
Prep Date: 5/20/2014
Expiration Date: 5/26/2014
Department: Metals
BatchNumber: B-17397
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8307	Nitric Acid	2.5 ml	neat neat	
8415	DI H2O			
8234	ICV 1	.5 ml	NEAT ug/ml	
8465	IRON	.45 ml	1000 mg/l	
8452	ALUMINUM	.45 ml	1000 mg/l	
8235	ICV 2	.5 ml	10 ug/ml	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187141

Prepared By: Kalin, Gabrielle
Description: ICB/CCB
Prep Date: 5/20/2014
Expiration Date: 5/26/2014
Department: Metals
BatchNumber: B-17397
Concentration: 0 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	2.5 ml	neat neat	

Veritech Lot Number: V-187142

Prepared By: Kalin, Gabrielle
Description: ICSA
Prep Date: 5/20/2014
Expiration Date: 5/26/2014
Department: Metals
BatchNumber: B-17397
Concentration: various ppb
Final Volume: 50 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	1.25 ml	neat neat	
8021	INTERFERENTS A	2.5 ml	NEAT mg/l	

Veritech Lot Number: V-187143

Prepared By: Kalin, Gabrielle
Description: ICSAB
Prep Date: 5/20/2014
Expiration Date: 5/26/2014
Department: Metals
BatchNumber: B-17397
Concentration: various ppb
Final Volume: 50 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	1.25 ml	neat neat	2.5 %
8021	INTERFERENTS A	2.5	NEAT mg/l	
8353	ANALYTES B	.5	NEAT neat	

Veritech Lot Number: V-187144

Prepared By: Kalin, Gabrielle
Description: CCV
Prep Date: 5/20/2014
Expiration Date: 5/26/2014
Department: Metals
BatchNumber: B-17397
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	2.5 ml	neat neat	
V-184987	6020 CALIBRATION STOCK	2 ml	VARIOUS pp	

Veritech Lot Number: V-187145

Prepared By: Kalin, Gabrielle
Description: LL-ICV/CCV SOIL
Prep Date: 5/20/2014
Expiration Date: 5/26/2014
Department: Metals
BatchNumber:
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	2.5 ml	neat neat	
8355	ICPMS LLICV/CCV SOIL	1 ml	NEAT neat	
V-182994	Antimony Intermediate 1PPM	.3 ml	1000 ppb	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187463

Prepared By: Cousineau, Paul
Description: Cal Blk
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: 0 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	

Veritech Lot Number: V-187464

Prepared By: Cousineau, Paul
Description: Cal Std-1
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	
V-184987	6020 CALIBRATION STOCK	.02 ml	VARIOUS pp	

Veritech Lot Number: V-187465

Prepared By: Cousineau, Paul
Description: Cal Std-2
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8515	Nitric Acid	2.5 ml	neat neat	
8415	DI H2O			
V-184987	6020 CALIBRATION STOCK	.2 ml	VARIOUS pp	

Veritech Lot Number: V-187466

Prepared By: Cousineau, Paul
Description: Cal Std-3
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	
V-184987	6020 CALIBRATION STOCK	.4 ml	VARIOUS pp	

Veritech Lot Number: V-187467

Prepared By: Cousineau, Paul
Description: Cal Std-4
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	
V-184987	6020 CALIBRATION STOCK	2 ml	VARIOUS pp	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187468

Prepared By: Cousineau, Paul
Description: Cal Std-5
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8515	Nitric Acid	2.5 ml	neat neat	
8415	DI H2O			
V-184987	6020 CALIBRATION STOCK	4 ml	VARIOUS pp	

Veritech Lot Number: V-187469

Prepared By: Cousineau, Paul
Description: ICV
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8515	Nitric Acid	2.5 ml	neat neat	
8415	DI H2O			
8234	ICV 1	.5 ml	NEAT ug/ml	
8465	IRON	.45 ml	1000 mg/l	
8452	ALUMINUM	.45 ml	1000 mg/l	
8235	ICV 2	.5 ml	10 ug/ml	

Veritech Lot Number: V-187470

Prepared By: Cousineau, Paul
Description: ICB/CCB
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: 0 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	

Veritech Lot Number: V-187471

Prepared By: Cousineau, Paul
Description: ICSA
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 50 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	1.25 ml	neat neat	
8021	INTERFERENTS A	2.5 ml	NEAT mg/l	

Veritech Lot Number: V-187472

Prepared By: Cousineau, Paul
Description: ICSAB
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 50 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	1.25 ml	neat neat	2.5 %
8021	INTERFERENTS A	2.5	NEAT mg/l	
8353	ANALYTES B	.5	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187473

Prepared By: Cousineau, Paul
Description: CCV
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	
V-184987	6020 CALIBRATION STOCK	2 ml	VARIOUS pp	

Veritech Lot Number: V-187474

Prepared By: Cousineau, Paul
Description: LL-ICV/CCV SOIL
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber:
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	
8355	ICPMS LLICV/CCV SOIL	1 ml	NEAT neat	
V-182994	Antimony Intermediate 1PPM	.3 ml	1000 ppb	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8021

Description
INTERFERENTS A

ApprovedBy: shiamala
ApproveDate: 08/07/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	CL-INT-A1	CL5-69YPY	07/25/13	07/30/14	Kalin, Gabrielle	3	125m	NEAT	mg/L

Veritech Control/Receipt Number: 8234

Description
ICV 1

ApprovedBy: gabrielle
ApproveDate: 10/23/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CPI	4400-120215NL01	13J139	10/23/13	10/18/14	Kalin, Gabrielle	2	100m	NEAT	ug/mL

Veritech Control/Receipt Number: 8235

Description
ICV 2

ApprovedBy: gabrielle
ApproveDate: 10/23/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CPI	4400-120206NL04	13J163	10/23/13	04/17/15	Kalin, Gabrielle	2	100m	10	ug/mL

Veritech Control/Receipt Number: 8307

Description
Nitric Acid

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	50770	12/03/13	06/23/18	Lopez, Jose	12	2.5L	neat	neat

Veritech Control/Receipt Number: 8353

Description
ANALYTES B

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	CL-INT-B1	CL9-123YPY	12/16/13	12/30/14	Kalin, Gabrielle	1	125m	NEAT	NEAT

Veritech Control/Receipt Number: 8354

Description
ICPMS CALIBRATION STOCK 1

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	CL-CAL-1	CL10-13YPY	12/16/13	12/30/14	Kalin, Gabrielle	1	125m	20	mg/L

Veritech Control/Receipt Number: 8355

Description
ICPMS LLICV/CCV SOIL

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	ZHCV-13-100	5-46NY	12/16/13	06/30/14	Kalin, Gabrielle	1	125m	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8415

Description
DI H2O

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
siemanns	1	1	01/17/14	10/27/14	Adelartey, Olufemi	1			

Veritech Control/Receipt Number: 8434

Description
MAGNESIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLMG2-3Y	AE14-188MGY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	10000	mg/L

Veritech Control/Receipt Number: 8438

Description
SODIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLNA2-3Y	AI14-193NAY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	10000	mg/L

Veritech Control/Receipt Number: 8441

Description
POTASSIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLK2-3Y	AJ14-184KY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	10000	mg/L

Veritech Control/Receipt Number: 8446

Description
SELENIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLSE2-2Y	19-04SEY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	1000	mg/L

Veritech Control/Receipt Number: 8450

Description
IRON

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLFE2-3Y	AI15-41FEY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	10000	mg/L

Veritech Control/Receipt Number: 8451

Description
ANTIMONY

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLSB7-2Y	18-150SBY	01/28/14	01/30/15	Kalin, Gabrielle	1	125m	1000	mg/L

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8452

Description
ALUMINUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLAL2-2Y	19-42ALY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	1000	mg/L

Veritech Control/Receipt Number: 8461

Description
CALCIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLCA2-3T	AO15-62CAT	01/28/14	01/30/15	Kalin, Gabrielle	1	250m	10000	mg/L

Veritech Control/Receipt Number: 8465

Description
IRON

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLFE2-2Y	19-50FEY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	1000	mg/L

Veritech Control/Receipt Number: 8467

Description
ALUMINUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLAL2-3Y	AF14-197ALY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	10000	mg/L

Veritech Control/Receipt Number: 8515

Description
Nitric Acid

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	50770	02/25/14	06/23/18	Lopez, Jose	8	2.5L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8496

Description
LCS-SOIL

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ERA	540	D081-540	02/10/14	10/31/16	Kalin, Gabrielle	6	40g	NEAT	NEAT

Veritech Control/Receipt Number: 8534

Description
ICV 1

ApprovedBy: shiamala
ApproveDate: 04/11/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-101	S140226016	03/05/14	03/31/15	Kalin, Gabrielle	2	500m	NEAT	ug/mL

Veritech Control/Receipt Number: 8535

Description
ICV 2

ApprovedBy: shiamala
ApproveDate: 04/11/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-102	S140226015	03/05/14	03/31/15	Kalin, Gabrielle	2	500m	50	ug/mL

Veritech Control/Receipt Number: 8583

Description
Hydrogen Peroxide

ApprovedBy: SHIAMALA
ApproveDate: 05/08/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H325-4	140440	03/20/14	02/28/18	Lopez, Jose	4	4L	neat	neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-183928

Prepared By: Berls, Sean R.
Description: ICB/CCB
Prep Date: 3/26/2014
Expiration Date: 6/25/2014
Department: Metals
BatchNumber:
Concentration: 0 mg/l
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 04/04/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	50 ml	neat neat	
8308	Hydrochloric Acid	50 ml	neat neat	

Veritech Lot Number: V-185198

Prepared By: Berls, Sean R.
Description: ICS3 - Middle Std
Prep Date: 4/15/2014
Expiration Date: 7/14/2014
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 04/15/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	50 ml	neat neat	
8308	Hydrochloric Acid	50 ml	neat neat	
8344	ICP CALIBRATION STOCK 1	5 ml	NEAT neat	
8345	ICP CALIBRATION STOCK 2	5 ml	NEAT neat	

Veritech Lot Number: V-185319

Prepared By: Berls, Sean R.
Description: ICS 1 INTERMEDIATE
Prep Date: 4/17/2014
Expiration Date: 7/16/2014
Department: Metals
BatchNumber:
Concentration: various mg/l
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 04/18/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	5 ml	neat neat	
8453	ARSENIC	.5 ml	1000 mg/l	5 mg/l
8460	BERYLLIUM	.3 ml	1000 mg/l	3 mg/l
8457	CADMIUM	.3 ml	1000 mg/l	3 mg/l
8431	LEAD	.4 ml	1000 mg/l	4 mg/l
8448	THALLIUM	.5 ml	1000 mg/l	5 mg/l

Veritech Lot Number: V-185363

Prepared By: Berls, Sean R.
Description: ICS1 Lowest std
Prep Date: 4/17/2014
Expiration Date: 7/16/2014
Department: Metals
BatchNumber:
Concentration: various mg/l
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 04/18/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	50 ml	neat neat	
8308	Hydrochloric Acid	50 ml	neat neat	
V-185319	ICS 1 INTERMEDIATE	1 ml	various mg/l	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-185545

Prepared By: Adewusi, Anu
Description: 1:1 HNO3
Prep Date: 4/21/2014
Expiration Date: 11/13/2014

Department: Metals
BatchNumber:
Concentration: Reagent reag
Final Volume: 6000 ml

ApprovedBy: shiamala
ApproveDate: 04/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8307	Nitric Acid	3000 ml	neat neat	
8415	DI H2O	3000 ml		

Veritech Lot Number: V-185754

Prepared By: Berls, Sean R.
Description: ICSA
Prep Date: 4/24/2014
Expiration Date: 7/23/2014

Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml

ApprovedBy: SHIAMALA
ApproveDate: 05/06/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8514	Nitric Acid	50 ml	neat neat	
8308	Hydrochloric Acid	50 ml	neat neat	
8328	ICSA	100 ml	NEAT neat	

Veritech Lot Number: V-185755

Prepared By: Berls, Sean R.
Description: ICSAB
Prep Date: 4/24/2014
Expiration Date: 7/23/2014

Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml

ApprovedBy: SHIAMALA
ApproveDate: 05/06/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8514	Nitric Acid	50 ml	neat neat	
8308	Hydrochloric Acid	50 ml	neat neat	
8328	ICSA	100 ml	NEAT neat	
8329	ICSAB	10 ml	NEAT neat	

Veritech Lot Number: V-185921

Prepared By: Adelartey, Olufemi
Description: 5% Potassium Permanganate
Prep Date: 4/28/2014
Expiration Date: 10/27/2014

Department: Metals
BatchNumber:
Concentration: reagent
Final Volume: 20 l

ApprovedBy: shiamala
ApproveDate: 04/30/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8390	Potassium Permanganate	1000 g	NEAT neat	

Veritech Lot Number: V-186224

Prepared By: Berls, Sean R.
Description: ICS2- Low Std
Prep Date: 5/5/2014
Expiration Date: 8/4/2014

Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 500 ml

ApprovedBy: SHIAMALA
ApproveDate: 05/06/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8514	Nitric Acid	50 ml	neat neat	
8513	Hydrochloric acid	50 ml	neat neat	
8344	ICP CALIBRATION STOCK 1	.05 ml	NEAT neat	
8345	ICP CALIBRATION STOCK 2	.05 ml	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-186533

Prepared By: Berls, Sean R.
Description: CCV
Prep Date: 5/9/2014
Expiration Date: 8/8/2014
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 05/09/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	50 ml	neat neat	
8513	Hydrochloric acid	50 ml	neat neat	
8534	ICV 1	10 ml	NEAT ug/ml	
8535	ICV 2	10 ml	50 ug/ml	

Veritech Lot Number: V-186713

Prepared By: Berls, Sean R.
Description: ICS4 - High std
Prep Date: 5/13/2014
Expiration Date: 8/12/2014
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 05/14/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	25 ml	neat neat	
8513	Hydrochloric acid	25 ml	neat neat	
8344	ICP CALIBRATION STOCK 1	5 ml	NEAT neat	
8345	ICP CALIBRATION STOCK 2	5 ml	NEAT neat	

Veritech Lot Number: V-187070

Prepared By: Adelartey, Olufemi
Description: Hydroxylamine Hydrochloride
Prep Date: 5/20/2014
Expiration Date: 8/19/2014
Department: Metals
BatchNumber:
Concentration: reagent
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8585	Sodium Chloride	1200 g	neat neat	
8392	Hydroxylamine Hydrochloride	1200 g	NEAT neat	

Veritech Lot Number: V-187248

Prepared By: Adelartey, Olufemi
Description: LLICV/CCV SOIL
Prep Date: 5/21/2014
Expiration Date: 8/20/2014
Department: WetChem
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8346	ICP LL ICV/CCV SOIL STOCK	10 ml	NEAT neat	
8415	DI H2O			
8514	Nitric Acid	50 ml	neat neat	
8308	Hydrochloric Acid	50 ml	neat neat	

Veritech Lot Number: V-187309

Prepared By: Adewusi, Anu
Description: Hg Intermediate Standard
Prep Date: 5/22/2014
Expiration Date: 5/22/2014
Department: Metals
BatchNumber: B-17411
Concentration: .25 ppm
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8462	MERCURY	.125 ml	1000 mg/l	
8515	Nitric Acid	12.5 ml	neat neat	
8415	DI H2O			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187310

Prepared By: Adewusi, Anu
Description: Hg intermediate Control
Prep Date: 5/22/2014
Expiration Date: 5/22/2014
Department: Metals
BatchNumber: B-17411
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7664	MERCURY	.1 ml	1000 ug/ml	
8515	Nitric Acid	2.5 ml	neat neat	
8415	DI H2O			

Veritech Lot Number: V-187311

Prepared By: Adewusi, Anu
Description: Aquaregia
Prep Date: 5/22/2014
Expiration Date: 5/22/2014
Department: Metals
BatchNumber: B-17412
Concentration: 0 neat
Final Volume: 80 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8307	Nitric Acid	20 ml	neat neat	
8308	Hydrochloric Acid	60 ml	neat neat	

Veritech Lot Number: V-187312

Prepared By: Adewusi, Anu
Description: Hg Soil ICV Soil
Prep Date: 5/22/2014
Expiration Date: 5/22/2014
Department: Metals
BatchNumber: B-17412
Concentration: 20 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187310	Hg intermediate Control	.5 ml	1.0 ppm	
8415	DI H2O			

Veritech Lot Number: V-187313

Prepared By: Adewusi, Anu
Description: Hg soil CCV 10ppb
Prep Date: 5/22/2014
Expiration Date: 5/22/2014
Department: Metals
BatchNumber: B-17412
Concentration: 10 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187310	Hg intermediate Control	.25 ml	1.0 ppm	
8415	DI H2O			

Veritech Lot Number: V-187314

Prepared By: Adewusi, Anu
Description: Hg soil standard blk
Prep Date: 5/22/2014
Expiration Date: 5/22/2014
Department: Metals
BatchNumber: B-17412
Concentration: 0 ppm
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			

Veritech Lot Number: V-187315

Prepared By: Adewusi, Anu
Description: Hg soil standard .2 ppb
Prep Date: 5/22/2014
Expiration Date: 5/22/2014
Department: Metals
BatchNumber: B-17412
Concentration: .2 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187309	Hg Intermediate Standard	.02 ml	.25 ppm	
8415	DI H2O			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187316

Prepared By: Adewusi, Anu
Description: Hg soil standard .5 ppb
Prep Date: 5/22/2014
Expiration Date: 5/22/2014
Department: Metals
BatchNumber: B-17412
Concentration: .5 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187309 8415	Hg Intermediate Standard DI H2O	.05 ml	.25 ppm	

Veritech Lot Number: V-187317

Prepared By: Adewusi, Anu
Description: Hg soil standard 1 ppb
Prep Date: 5/22/2014
Expiration Date: 5/22/2014
Department: Metals
BatchNumber: B-17412
Concentration: 1 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187309 8415	Hg Intermediate Standard DI H2O	.1 ml	.25 ppm	

Veritech Lot Number: V-187318

Prepared By: Adewusi, Anu
Description: Hg soil standard 2 ppb
Prep Date: 5/22/2014
Expiration Date: 5/22/2014
Department: Metals
BatchNumber: B-17412
Concentration: 2 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187309 8415	Hg Intermediate Standard DI H2O	.2 ml	.25 ppm	

Veritech Lot Number: V-187319

Prepared By: Adewusi, Anu
Description: Hg soil standard 5 ppb
Prep Date: 5/22/2014
Expiration Date: 5/22/2014
Department: Metals
BatchNumber: B-17412
Concentration: 5 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187309 8415	Hg Intermediate Standard DI H2O	.5 ml	.25 ppm	

Veritech Lot Number: V-187320

Prepared By: Adewusi, Anu
Description: Hg soil standard 10 ppb
Prep Date: 5/22/2014
Expiration Date: 5/22/2014
Department: Metals
BatchNumber: B-17412
Concentration: 10 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187309 8415	Hg Intermediate Standard DI H2O	1 ml	.25 ppm	

Veritech Lot Number: V-187321

Prepared By: Adewusi, Anu
Description: Hg soil standard 25 ppb
Prep Date: 5/22/2014
Expiration Date: 5/22/2014
Department: Metals
BatchNumber: B-17412
Concentration: 25 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187309 8415	Hg Intermediate Standard DI H2O	2.5 ml	.25 ppm	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187322

Prepared By:	Adewusi, Anu	Department:	Metals	ApprovedBy:	shiamala
Description:	Hg soil standard .5 ppb	BatchNumber:	B-17412	ApproveDate:	05/23/14
Prep Date:	5/22/2014	Concentration:	.5 ppb	Checked:	Yes
Expiration Date:	5/22/2014	Final Volume:	25 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187309	Hg Intermediate Standard	.05 ml	.25 ppm	
8415	DI H2O			

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7664

Description
MERCURY

ApprovedBy: gabrielle
ApproveDate: 01/29/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CPI	4400-1000331	HG6401	01/31/13	07/11/14	Kalin, Gabrielle	1	250m	1000	ug/mL

Veritech Control/Receipt Number: 8307

Description
Nitric Acid

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	50770	12/03/13	06/23/18	Lopez, Jose	12	2.5L	neat	neat

Veritech Control/Receipt Number: 8308

Description
Hydrochloric Acid

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	56535	12/03/13	08/18/18	Lopez, Jose	24	2.5L	neat	neat

Veritech Control/Receipt Number: 8328

Description
ICSA

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-104	S131204017	12/11/13	12/31/14	Kalin, Gabrielle	8	500m	NEAT	NEAT

Veritech Control/Receipt Number: 8329

Description
ICSAB

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-103	S131204016	12/11/13	12/31/14	Kalin, Gabrielle	2	500m	NEAT	NEAT

Veritech Control/Receipt Number: 8344

Description
ICP CALIBRATION STOCK 1

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-19-500	5-50NY	12/16/13	12/30/14	Kalin, Gabrielle	1	500m	NEAT	NEAT

Veritech Control/Receipt Number: 8345

Description
ICP CALIBRATION STOCK 2

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-20-500	5-49NY	12/16/13	12/30/14	Kalin, Gabrielle	1	500m	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8346

Description
ICP LL ICV/CCV SOIL STOCK

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-23-500	5-52NY	12/16/13	12/30/14	Kalin, Gabrielle	1	500m	NEAT	NEAT

Veritech Control/Receipt Number: 8390

Description
Potassium Permanganate

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
LabChem	LCT 10208	B033-01	01/13/14	01/12/24	Kalin, Gabrielle	1	2.5kg	NEAT	NEAT

Veritech Control/Receipt Number: 8392

Description
Hydroxylamine Hydrochloride

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CCI	LC-2752725	2013040338	01/13/14	01/12/24	Kalin, Gabrielle	1	2.5Kg	NEAT	NEAT

Veritech Control/Receipt Number: 8415

Description
DI H2O

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
siemanns	1	1	01/17/14	10/27/14	Adelartey, Olufemi	1			

Veritech Control/Receipt Number: 8431

Description
LEAD

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLPB2-2Y	19-01PBY	01/28/14	01/30/15	Kalin, Gabrielle	1	125m	1000	mg/L

Veritech Control/Receipt Number: 8448

Description
THALLIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLTL2-2Y	18-164TLY	01/28/14	01/30/15	Kalin, Gabrielle	1	125m	1000	mg/L

Veritech Control/Receipt Number: 8453

Description
ARSENIC

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLAS2-2Y	18-200ASY	01/28/14	01/30/15	Kalin, Gabrielle	1	125m	1000	mg/L

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8457

Description
CADMIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLCC2-2Y	19-70CDY	01/28/14	01/30/15	Kalin, Gabrielle	1	125m	1000	mg/L

Veritech Control/Receipt Number: 8460

Description
BERYLLIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLBE2-2Y	19-65BEY	01/28/14	01/30/15	Kalin, Gabrielle	1	125m	1000	mg/L

Veritech Control/Receipt Number: 8462

Description
MERCURY

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLHG4-2T	13-23HGT	01/28/14	01/30/15	Kalin, Gabrielle	1	250m	1000	mg/L

Veritech Control/Receipt Number: 8513

Description
Hydrochloric acid

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	56535	02/25/14	08/18/18	Lopez, Jose	12	2.5L	neat	neat

Veritech Control/Receipt Number: 8514

Description
Nitric Acid

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	66236	02/25/14	12/10/18	Lopez, Jose	8	2.5L	neat	neat

Veritech Control/Receipt Number: 8515

Description
Nitric Acid

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	50770	02/25/14	06/23/18	Lopez, Jose	8	2.5L	neat	neat

Veritech Control/Receipt Number: 8534

Description
ICV 1

ApprovedBy: shiamala
ApproveDate: 04/11/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-101	S140226016	03/05/14	03/31/15	Kalin, Gabrielle	2	500m	NEAT	ug/mL

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8535

Description
ICV 2

ApprovedBy: shiamala
ApproveDate: 04/11/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-102	S140226015	03/05/14	03/31/15	Kalin, Gabrielle	2	500m	50	ug/mL

Veritech Control/Receipt Number: 8585

Description
Sodium Chloride

ApprovedBy: jean
ApproveDate: 04/20/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD	SX0420-5	VG11D	03/20/14	03/19/19	Lopez, Jose	2	12kg	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8496

Description
LCS-SOIL

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ERA	540	D081-540	02/10/14	10/31/16	Kalin, Gabrielle	6	40g	NEAT	NEAT

Veritech Control/Receipt Number: 8583

Description
Hydrogen Peroxide

ApprovedBy: SHIAMALA
ApproveDate: 05/08/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H325-4	140440	03/20/14	02/28/18	Lopez, Jose	4	4L	neat	neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187616

Prepared By: Adelartey, Olufemi
Description: 3% HCL
Prep Date: 5/29/2014
Expiration Date: 8/28/2014

Department: WetChem
BatchNumber:
Concentration: 3 %
Final Volume: 10 l

ApprovedBy: shiamala
ApproveDate: 06/02/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8308	Hydrochloric Acid	300 ml	neat neat	3 %
8415	DI H2O			

Veritech Lot Number: V-187834

Prepared By: Aliano, Carmela
Description: SnCl2
Prep Date: 6/2/2014
Expiration Date: 6/2/2014

Department: Metals
BatchNumber:
Concentration: reagent l
Final Volume: 1 l

ApprovedBy: shiamala
ApproveDate: 06/03/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187616	3% HCL	1000 ml	3 %	
8391	STANNOUS CHLORIDE	13.2 g	NEAT neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8308

Description
Hydrochloric Acid

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	56535	12/03/13	08/18/18	Lopez, Jose	24	2.5L	neat	neat

Veritech Control/Receipt Number: 8391

Description
STANNOUS CHLORIDE

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
LabChem	LCP33805	B249-13	01/13/14	01/12/24	Kalin, Gabrielle	1	3kg	NEAT	NEAT

Veritech Control/Receipt Number: 8415

Description
DI H2O

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
siemanns	1	1	01/17/14	10/27/14	Adelartey, Olufemi	1			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-183928

Prepared By: Berls, Sean R.
Description: ICB/CCB
Prep Date: 3/26/2014
Expiration Date: 6/25/2014
Department: Metals
BatchNumber:
Concentration: 0 mg/l
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 04/04/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	50 ml	neat neat	
8308	Hydrochloric Acid	50 ml	neat neat	

Veritech Lot Number: V-185195

Prepared By: Berls, Sean R.
Description: ICSA
Prep Date: 4/15/2014
Expiration Date: 7/14/2014
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 04/15/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	50 ml	neat neat	
8308	Hydrochloric Acid	50 ml	neat neat	
8328	ICSA	100 ml	NEAT neat	

Veritech Lot Number: V-185198

Prepared By: Berls, Sean R.
Description: ICS3 - Middle Std
Prep Date: 4/15/2014
Expiration Date: 7/14/2014
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 04/15/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	50 ml	neat neat	
8308	Hydrochloric Acid	50 ml	neat neat	
8344	ICP CALIBRATION STOCK 1	5 ml	NEAT neat	
8345	ICP CALIBRATION STOCK 2	5 ml	NEAT neat	

Veritech Lot Number: V-185319

Prepared By: Berls, Sean R.
Description: ICS 1 INTERMEDIATE
Prep Date: 4/17/2014
Expiration Date: 7/16/2014
Department: Metals
BatchNumber:
Concentration: various mg/l
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 04/18/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	5 ml	neat neat	
8453	ARSENIC	.5 ml	1000 mg/l	5 mg/l
8460	BERYLLIUM	.3 ml	1000 mg/l	3 mg/l
8457	CADMIUM	.3 ml	1000 mg/l	3 mg/l
8431	LEAD	.4 ml	1000 mg/l	4 mg/l
8448	THALLIUM	.5 ml	1000 mg/l	5 mg/l

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-185362

Prepared By: Berls, Sean R.
Description: ICS1 Lowest std
Prep Date: 4/17/2014
Expiration Date: 7/16/2014
Department: Metals
BatchNumber:
Concentration: various mg/l
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 04/18/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	50 ml	neat neat	
8308	Hydrochloric Acid	50 ml	neat neat	
V-185319	ICS 1 INTERMEDIATE	1 ml	various mg/l	

Veritech Lot Number: V-185530

Prepared By: Berls, Sean R.
Description: CCV
Prep Date: 4/21/2014
Expiration Date: 7/20/2014
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 04/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	50 ml	neat neat	
8308	Hydrochloric Acid	50 ml	neat neat	
8534	ICV 1	10 ml	NEAT ug/ml	
8535	ICV 2	10 ml	50 ug/ml	

Veritech Lot Number: V-185635

Prepared By: Berls, Sean R.
Description: LLICV/LLCCV aq
Prep Date: 4/22/2014
Expiration Date: 7/21/2014
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 04/24/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8514	Nitric Acid	25 ml	neat neat	
8308	Hydrochloric Acid	25 ml	neat neat	
8135	SW846 LL ICV/CCV	5 ml	NEAT neat	

Veritech Lot Number: V-185755

Prepared By: Berls, Sean R.
Description: ICSAB
Prep Date: 4/24/2014
Expiration Date: 7/23/2014
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml
ApprovedBy: SHIAMALA
ApproveDate: 05/06/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8514	Nitric Acid	50 ml	neat neat	
8308	Hydrochloric Acid	50 ml	neat neat	
8328	ICSA	100 ml	NEAT neat	
8329	ICSAB	10 ml	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-185756

Prepared By: Berls, Sean R.
Description: ICS2- Low Std
Prep Date: 4/24/2014
Expiration Date: 7/23/2014

Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 500 ml

ApprovedBy: SHIAMALA
ApproveDate: 05/06/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8514	Nitric Acid	50 ml	neat neat	
8308	Hydrochloric Acid	50 ml	neat neat	
8344	ICP CALIBRATION STOCK 1	.05 ml	NEAT neat	
8345	ICP CALIBRATION STOCK 2	.05 ml	NEAT neat	

Veritech Lot Number: V-185758

Prepared By: Berls, Sean R.
Description: ICS4 - High std
Prep Date: 4/24/2014
Expiration Date: 7/23/2014

Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 500 ml

ApprovedBy: SHIAMALA
ApproveDate: 05/06/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8514	Nitric Acid	25 ml	neat neat	
8308	Hydrochloric Acid	25 ml	neat neat	
8344	ICP CALIBRATION STOCK 1	5 ml	NEAT neat	
8345	ICP CALIBRATION STOCK 2	5 ml	NEAT neat	

Veritech Lot Number: V-186749

Prepared By: Ugljesa, Julijana
Description: 1:1 HCl
Prep Date: 5/14/2014
Expiration Date: 11/10/2014

Department: Metals
BatchNumber:
Concentration: Reagent
Final Volume: 2000 ml

ApprovedBy: shiamala
ApproveDate: 05/14/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O	1000 ml		
8513	Hydrochloric acid	1000 ml	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8135

Description
SW846 LL ICV/CCV

ApprovedBy: gabrielle
ApproveDate: 10/06/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CPI	4400-130805NC01	13I091	09/16/13	09/04/14	Kalin, Gabrielle	2	250m	NEAT	NEAT

Veritech Control/Receipt Number: 8307

Description
Nitric Acid

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	50770	12/03/13	06/23/18	Lopez, Jose	12	2.5L	neat	neat

Veritech Control/Receipt Number: 8308

Description
Hydrochloric Acid

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	56535	12/03/13	08/18/18	Lopez, Jose	24	2.5L	neat	neat

Veritech Control/Receipt Number: 8328

Description
ICSA

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-104	S131204017	12/11/13	12/31/14	Kalin, Gabrielle	8	500m	NEAT	NEAT

Veritech Control/Receipt Number: 8329

Description
ICSAB

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-103	S131204016	12/11/13	12/31/14	Kalin, Gabrielle	2	500m	NEAT	NEAT

Veritech Control/Receipt Number: 8344

Description
ICP CALIBRATION STOCK 1

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-19-500	5-50NY	12/16/13	12/30/14	Kalin, Gabrielle	1	500m	NEAT	NEAT

Veritech Control/Receipt Number: 8345

Description
ICP CALIBRATION STOCK 2

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-20-500	5-49NY	12/16/13	12/30/14	Kalin, Gabrielle	1	500m	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8415

Description
DI H2O

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
siemanns	1	1	01/17/14	10/27/14	Adelartey, Olufemi	1			

Veritech Control/Receipt Number: 8431

Description
LEAD

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLPB2-2Y	19-01PBY	01/28/14	01/30/15	Kalin, Gabrielle	1	125m	1000	mg/L

Veritech Control/Receipt Number: 8448

Description
THALLIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLTL2-2Y	18-164TLY	01/28/14	01/30/15	Kalin, Gabrielle	1	125m	1000	mg/L

Veritech Control/Receipt Number: 8453

Description
ARSENIC

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLAS2-2Y	18-200ASY	01/28/14	01/30/15	Kalin, Gabrielle	1	125m	1000	mg/L

Veritech Control/Receipt Number: 8457

Description
CADMIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLCC2-2Y	19-70CDY	01/28/14	01/30/15	Kalin, Gabrielle	1	125m	1000	mg/L

Veritech Control/Receipt Number: 8460

Description
BERYLLIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLBE2-2Y	19-65BEY	01/28/14	01/30/15	Kalin, Gabrielle	1	125m	1000	mg/L

Veritech Control/Receipt Number: 8513

Description
Hydrochloric acid

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	56535	02/25/14	08/18/18	Lopez, Jose	12	2.5L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8514

Description
Nitric Acid

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	66236	02/25/14	12/10/18	Lopez, Jose	8	2.5L	neat	neat

Veritech Control/Receipt Number: 8534

Description
ICV 1

ApprovedBy: shiamala
ApproveDate: 04/11/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-101	S140226016	03/05/14	03/31/15	Kalin, Gabrielle	2	500m	NEAT	ug/mL

Veritech Control/Receipt Number: 8535

Description
ICV 2

ApprovedBy: shiamala
ApproveDate: 04/11/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-102	S140226015	03/05/14	03/31/15	Kalin, Gabrielle	2	500m	50	ug/mL

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8515

Description
Nitric Acid

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	50770	02/25/14	06/23/18	Lopez, Jose	8	2.5L	neat	neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-181840

Prepared By: Adelartey, Olufemi
Description: 5% Potassium Persulfate
Prep Date: 2/24/2014
Expiration Date: 5/23/2014
Department: Metals
BatchNumber:
Concentration: reagent
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 03/09/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
7678	POTASSIUM PERSULFATE	500 g	NEAT neat	

Veritech Lot Number: V-184344

Prepared By: Adelartey, Olufemi
Description: Hydroxylamine Hydrochloride
Prep Date: 4/1/2014
Expiration Date: 6/30/2014
Department: Metals
BatchNumber:
Concentration: reagent
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 04/04/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8155	Sodium Chloride	1200 g	neat neat	
8022	HYDROXYLAMINE HYDROCHLORIDE	1200 g	NEAT neat	

Veritech Lot Number: V-185921

Prepared By: Adelartey, Olufemi
Description: 5% Potassium Permanganate
Prep Date: 4/28/2014
Expiration Date: 10/27/2014
Department: Metals
BatchNumber:
Concentration: reagent
Final Volume: 20 l
ApprovedBy: shiamala
ApproveDate: 04/30/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8390	Potassium Permanganate	1000 g	NEAT neat	

Veritech Lot Number: V-186999

Prepared By: Berls, Sean R.
Description: 3% HCL
Prep Date: 5/19/2014
Expiration Date: 8/18/2014
Department: WetChem
BatchNumber:
Concentration: 3 %
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 05/19/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8308	Hydrochloric Acid	300 ml	neat neat	3 %
8415	DI H2O			

Veritech Lot Number: V-187419

Prepared By: Adewusi, Anu
Description: Hg Intermediate Standard
Prep Date: 5/23/2014
Expiration Date: 5/23/2014
Department: Metals
BatchNumber: B-17420
Concentration: .25 ppm
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8462	MERCURY	.125 ml	1000 mg/l	
8515	Nitric Acid	12.5 ml	neat neat	
8415	DI H2O			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187420

Prepared By: Adewusi, Anu
Description: Hg intermediate Control
Prep Date: 5/23/2014
Expiration Date: 5/23/2014

Department: Metals
BatchNumber: B-17420
Concentration: 1.0 ppm
Final Volume: 100 ml

ApprovedBy: shiamala
ApproveDate: 05/23/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7664	MERCURY	.1 ml	1000 ug/ml	
8515	Nitric Acid	2.5 ml	neat neat	
8415	DI H2O			

Veritech Lot Number: V-187448

Prepared By: Ugljesa, Julijana
Description: Hg AQ ICV 20 ppb
Prep Date: 5/23/2014
Expiration Date: 5/23/2014

Department: Metals
BatchNumber: B-17423
Concentration: 20 ppb
Final Volume: 25 ml

ApprovedBy: shiamala
ApproveDate: 05/27/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187420	Hg intermediate Control	.5 ml	1.0 ppm	
8415	DI H2O			

Veritech Lot Number: V-187449

Prepared By: Ugljesa, Julijana
Description: Hg AQ CCV 10 ppb
Prep Date: 5/23/2014
Expiration Date: 5/23/2014

Department: Metals
BatchNumber: B-17423
Concentration: 10 ppb
Final Volume: 25 ml

ApprovedBy: shiamala
ApproveDate: 05/27/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187420	Hg intermediate Control	.25 ml	1.0 ppm	
8415	DI H2O			

Veritech Lot Number: V-187450

Prepared By: Ugljesa, Julijana
Description: Hg AQ standard blk
Prep Date: 5/23/2014
Expiration Date: 5/23/2014

Department: Metals
BatchNumber: B-17423
Concentration: 0 ppb
Final Volume: 25 ml

ApprovedBy: shiamala
ApproveDate: 05/27/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			

Veritech Lot Number: V-187451

Prepared By: Ugljesa, Julijana
Description: Hg AQ standard .2 ppb
Prep Date: 5/23/2014
Expiration Date: 5/23/2014

Department: Metals
BatchNumber: B-17423
Concentration: .2 ppb
Final Volume: 25 ml

ApprovedBy: shiamala
ApproveDate: 05/27/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187419	Hg Intermediate Standard	.02 ml	.25 ppm	
8415	DI H2O			

Veritech Lot Number: V-187452

Prepared By: Ugljesa, Julijana
Description: Hg AQ standard .5 ppb
Prep Date: 5/23/2014
Expiration Date: 5/23/2014

Department: Metals
BatchNumber: B-17423
Concentration: .5 ppb
Final Volume: 25 ml

ApprovedBy: shiamala
ApproveDate: 05/27/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187419	Hg Intermediate Standard	.05 ml	.25 ppm	
8415	DI H2O			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187453

Prepared By: Ugljesa, Julijana
Description: Hg AQ standard 1 ppb
Prep Date: 5/23/2014
Expiration Date: 5/23/2014
Department: Metals
BatchNumber: B-17423
Concentration: 1 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/27/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187419	Hg Intermediate Standard	.1 ml	.25 ppm	
8415	DI H2O			

Veritech Lot Number: V-187454

Prepared By: Ugljesa, Julijana
Description: Hg AQ standard 2 ppb
Prep Date: 5/23/2014
Expiration Date: 5/23/2014
Department: Metals
BatchNumber: B-17423
Concentration: 2 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/27/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187419	Hg Intermediate Standard	.2 ml	.25 ppm	
8415	DI H2O			

Veritech Lot Number: V-187455

Prepared By: Ugljesa, Julijana
Description: Hg AQ standard 5 ppb
Prep Date: 5/23/2014
Expiration Date: 5/23/2014
Department: Metals
BatchNumber: B-17423
Concentration: 5 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/27/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187419	Hg Intermediate Standard	.5 ml	.25 ppm	
8415	DI H2O			

Veritech Lot Number: V-187456

Prepared By: Ugljesa, Julijana
Description: Hg AQ standard 10 ppb
Prep Date: 5/23/2014
Expiration Date: 5/23/2014
Department: Metals
BatchNumber: B-17423
Concentration: 10 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/27/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187419	Hg Intermediate Standard	1 ml	.25 ppm	
8415	DI H2O			

Veritech Lot Number: V-187457

Prepared By: Ugljesa, Julijana
Description: Hg AQ standard 25 ppb
Prep Date: 5/23/2014
Expiration Date: 5/23/2014
Department: Metals
BatchNumber: B-17423
Concentration: 25 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 05/27/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-187419	Hg Intermediate Standard	2.5 ml	.25 ppm	
8415	DI H2O			

Veritech Lot Number: V-187558

Prepared By: Adelartey, Olufemi
Description: SnCl2
Prep Date: 5/28/2014
Expiration Date: 5/28/2014
Department: Metals
BatchNumber:
Concentration: reagent I
Final Volume: 1 l
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8391	STANNOUS CHLORIDE	13.2 g	NEAT neat	
V-186999	3% HCL	1000 ml	3 %	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7664

Description
MERCURY

ApprovedBy: gabrielle
ApproveDate: 01/29/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CPI	4400-1000331	HG6401	01/31/13	07/11/14	Kalin, Gabrielle	1	250m	1000	ug/mL

Veritech Control/Receipt Number: 7678

Description
POTASSIUM PERSULFATE

ApprovedBy: shiamala
ApproveDate: 12/03/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CCI	LC4445NG	200712215	02/11/13	02/10/18	Kalin, Gabrielle	1	2.5kg	NEAT	NEAT

Veritech Control/Receipt Number: 8022

Description
HYDROXYLAMINE HYDROCHLORIDE

ApprovedBy: gabrielle
ApproveDate: 10/06/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CCI	LC-2752725	2013040338	07/25/13	07/24/15	Kalin, Gabrielle	1	2.5kg	NEAT	NEAT

Veritech Control/Receipt Number: 8155

Description
Sodium Chloride

ApprovedBy: jean
ApproveDate: 09/29/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD	SX0420-5	VG11D	09/27/13	09/26/17	Lopez, Jose	2	12kg	neat	neat

Veritech Control/Receipt Number: 8308

Description
Hydrochloric Acid

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	56535	12/03/13	08/18/18	Lopez, Jose	24	2.5L	neat	neat

Veritech Control/Receipt Number: 8390

Description
Potassium Permanganate

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
LabChem	LCT 10208	B033-01	01/13/14	01/12/24	Kalin, Gabrielle	1	2.5kg	NEAT	NEAT

Veritech Control/Receipt Number: 8391

Description
STANNOUS CHLORIDE

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
LabChem	LCP33805	B249-13	01/13/14	01/12/24	Kalin, Gabrielle	1	3kg	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8415

Description
DI H2O

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
siemanns	1	1	01/17/14	10/27/14	Adelartey, Olufemi	1			

Veritech Control/Receipt Number: 8462

Description
MERCURY

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLHG4-2T	13-23HGT	01/28/14	01/30/15	Kalin, Gabrielle	1	250m	1000	mg/L

Veritech Control/Receipt Number: 8515

Description
Nitric Acid

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	50770	02/25/14	06/23/18	Lopez, Jose	8	2.5L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8514

Description
Nitric Acid

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	66236	02/25/14	12/10/18	Lopez, Jose	8	2.5L	neat	neat

Veritech Control/Receipt Number: 8606

Description
Sulfuric acid

ApprovedBy: aurora
ApproveDate: 05/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	A510-P212	3113040	03/26/14	05/08/16	Lopez, Jose	6	2.5L	neat	neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-182994

Prepared By: Cousineau, Paul
Description: Antimony Intermediate 1PPM
Prep Date: 3/12/2014
Expiration Date: 6/12/2014
Department: Metals
BatchNumber:
Concentration: 1000 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 03/21/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	2.5 ml	neat neat	
8451	ANTIMONY	.1 ml	1000 mg/l	

Veritech Lot Number: V-184987

Prepared By: Cousineau, Paul
Description: 6020 CALIBRATION STOCK
Prep Date: 4/11/2014
Expiration Date: 7/11/2014
Department: Metals
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 04/11/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8307	Nitric Acid	2 ml	neat neat	
8467	ALUMINUM	.725 ml	10000 mg/l	72.5
8446	SELENIUM	1 ml	1000 mg/l	10
8461	CALCIUM	2.5 ml	10000 mg/l	250
8450	IRON	2.5 ml	10000 mg/l	250
8434	MAGNESIUM	2.5 ml	10000 mg/l	250
8441	POTASSIUM	2.5 ml	10000 mg/l	250
8438	SODIUM	2.5 ml	10000 mg/l	250
8354	ICPMS CALIBRATION STOCK 1	12.5 ml	20 mg/l	2.5

Veritech Lot Number: V-186749

Prepared By: Ugljesa, Julijana
Description: 1:1 HCl
Prep Date: 5/14/2014
Expiration Date: 11/10/2014
Department: Metals
BatchNumber:
Concentration: Reagent
Final Volume: 2000 ml
ApprovedBy: shiamala
ApproveDate: 05/14/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O	1000 ml		
8513	Hydrochloric acid	1000 ml	neat neat	

Veritech Lot Number: V-187463

Prepared By: Cousineau, Paul
Description: Cal Blk
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: 0 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	

Veritech Lot Number: V-187464

Prepared By: Cousineau, Paul
Description: Cal Std-1
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	
V-184987	6020 CALIBRATION STOCK	.02 ml	VARIOUS pp	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187465

Prepared By: Cousineau, Paul
Description: Cal Std-2
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8515	Nitric Acid	2.5 ml	neat neat	
8415	DI H2O			
V-184987	6020 CALIBRATION STOCK	.2 ml	VARIOUS pp	

Veritech Lot Number: V-187466

Prepared By: Cousineau, Paul
Description: Cal Std-3
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	
V-184987	6020 CALIBRATION STOCK	.4 ml	VARIOUS pp	

Veritech Lot Number: V-187467

Prepared By: Cousineau, Paul
Description: Cal Std-4
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	
V-184987	6020 CALIBRATION STOCK	2 ml	VARIOUS pp	

Veritech Lot Number: V-187468

Prepared By: Cousineau, Paul
Description: Cal Std-5
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8515	Nitric Acid	2.5 ml	neat neat	
8415	DI H2O			
V-184987	6020 CALIBRATION STOCK	4 ml	VARIOUS pp	

Veritech Lot Number: V-187469

Prepared By: Cousineau, Paul
Description: ICV
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8515	Nitric Acid	2.5 ml	neat neat	
8415	DI H2O			
8234	ICV 1	.5 ml	NEAT ug/ml	
8465	IRON	.45 ml	1000 mg/l	
8452	ALUMINUM	.45 ml	1000 mg/l	
8235	ICV 2	.5 ml	10 ug/ml	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187470

Prepared By: Cousineau, Paul
Description: ICB/CCB
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: 0 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	

Veritech Lot Number: V-187471

Prepared By: Cousineau, Paul
Description: ICSA
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 50 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	1.25 ml	neat neat	
8021	INTERFERENTS A	2.5 ml	NEAT mg/l	

Veritech Lot Number: V-187472

Prepared By: Cousineau, Paul
Description: ICSAB
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 50 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	1.25 ml	neat neat	2.5 %
8021	INTERFERENTS A	2.5	NEAT mg/l	
8353	ANALYTES B	.5	NEAT neat	

Veritech Lot Number: V-187473

Prepared By: Cousineau, Paul
Description: CCV
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber: B-17424
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	
V-184987	6020 CALIBRATION STOCK	2 ml	VARIOUS pp	

Veritech Lot Number: V-187474

Prepared By: Cousineau, Paul
Description: LL-ICV/CCV SOIL
Prep Date: 5/27/2014
Expiration Date: 6/3/2014
Department: Metals
BatchNumber:
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/28/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8415	DI H2O			
8515	Nitric Acid	2.5 ml	neat neat	
8355	ICPMS LLICV/CCV SOIL	1 ml	NEAT neat	
V-182994	Antimony Intermediate 1PPM	.3 ml	1000 ppb	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8021

Description
INTERFERENTS A

ApprovedBy: shiamala
ApproveDate: 08/07/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	CL-INT-A1	CL5-69YPY	07/25/13	07/30/14	Kalin, Gabrielle	3	125m	NEAT	mg/L

Veritech Control/Receipt Number: 8234

Description
ICV 1

ApprovedBy: gabrielle
ApproveDate: 10/23/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CPI	4400-120215NL01	13J139	10/23/13	10/18/14	Kalin, Gabrielle	2	100m	NEAT	ug/mL

Veritech Control/Receipt Number: 8235

Description
ICV 2

ApprovedBy: gabrielle
ApproveDate: 10/23/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CPI	4400-120206NL04	13J163	10/23/13	04/17/15	Kalin, Gabrielle	2	100m	10	ug/mL

Veritech Control/Receipt Number: 8307

Description
Nitric Acid

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	50770	12/03/13	06/23/18	Lopez, Jose	12	2.5L	neat	neat

Veritech Control/Receipt Number: 8353

Description
ANALYTES B

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	CL-INT-B1	CL9-123YPY	12/16/13	12/30/14	Kalin, Gabrielle	1	125m	NEAT	NEAT

Veritech Control/Receipt Number: 8354

Description
ICPMS CALIBRATION STOCK 1

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	CL-CAL-1	CL10-13YPY	12/16/13	12/30/14	Kalin, Gabrielle	1	125m	20	mg/L

Veritech Control/Receipt Number: 8355

Description
ICPMS LLICV/CCV SOIL

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	ZHCV-13-100	5-46NY	12/16/13	06/30/14	Kalin, Gabrielle	1	125m	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8415

Description
DI H2O

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
siemanns	1	1	01/17/14	10/27/14	Adelartey, Olufemi	1			

Veritech Control/Receipt Number: 8434

Description
MAGNESIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLMG2-3Y	AE14-188MGY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	10000	mg/L

Veritech Control/Receipt Number: 8438

Description
SODIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLNA2-3Y	AI14-193NAY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	10000	mg/L

Veritech Control/Receipt Number: 8441

Description
POTASSIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLK2-3Y	AJ14-184KY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	10000	mg/L

Veritech Control/Receipt Number: 8446

Description
SELENIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLSE2-2Y	19-04SEY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	1000	mg/L

Veritech Control/Receipt Number: 8450

Description
IRON

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLFE2-3Y	AI15-41FEY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	10000	mg/L

Veritech Control/Receipt Number: 8451

Description
ANTIMONY

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLSB7-2Y	18-150SBY	01/28/14	01/30/15	Kalin, Gabrielle	1	125m	1000	mg/L

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8452

Description
ALUMINUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLAL2-2Y	19-42ALY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	1000	mg/L

Veritech Control/Receipt Number: 8461

Description
CALCIUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLCA2-3T	AO15-62CAT	01/28/14	01/30/15	Kalin, Gabrielle	1	250m	10000	mg/L

Veritech Control/Receipt Number: 8465

Description
IRON

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLFE2-2Y	19-50FEY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	1000	mg/L

Veritech Control/Receipt Number: 8467

Description
ALUMINUM

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLAL2-3Y	AF14-197ALY	01/28/14	01/30/15	Kalin, Gabrielle	2	125m	10000	mg/L

Veritech Control/Receipt Number: 8513

Description
Hydrochloric acid

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	56535	02/25/14	08/18/18	Lopez, Jose	12	2.5L	neat	neat

Veritech Control/Receipt Number: 8515

Description
Nitric Acid

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	50770	02/25/14	06/23/18	Lopez, Jose	8	2.5L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8344

Description
ICP CALIBRATION STOCK 1

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-19-500	5-50NY	12/16/13	12/30/14	Kalin, Gabrielle	1	500m	NEAT	NEAT

Veritech Control/Receipt Number: 8345

Description
ICP CALIBRATION STOCK 2

ApprovedBy: gabrielle
ApproveDate: 02/06/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-20-500	5-49NY	12/16/13	12/30/14	Kalin, Gabrielle	1	500m	NEAT	NEAT

Veritech Control/Receipt Number: 8515

Description
Nitric Acid

ApprovedBy: shiamala
ApproveDate: 02/26/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	50770	02/25/14	06/23/18	Lopez, Jose	8	2.5L	neat	neat

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS2_7500SWA\S052314B.b\S052314B.TXT

Analysis Date: 05/23/14

Instrument: MS2_7500SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Rinse	1	NA	17:51	1	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
CalBlk V-187134	1	ISBLK	17:57	2		SOIL	SOIL				V-187134(Cal Blk)
CalStd1 V-187135	1	CAL	18:03	3							V-187135(Cal Std-1)
CalStd2 V-187136	1	CAL	18:09	4							V-187136(Cal Std-2)
CalStd3 V-187137	1	CAL	18:14	5							V-187137(Cal Std-3)
CalStd4 V-187138	1	CAL	18:20	6							V-187138(Cal Std-4)
CalStd5 V-187139	1	CAL	18:26	7							V-187139(Cal Std-5)
ICV V-187140	1	ICV	18:32	8							V-187140(ICV)
LLICV V-187145	1	LLICV	18:38	9	MET-TAL6020S	SOIL	SOIL	SW846	32818		V-187145(LL-ICV/CCV SOIL)
ICB V-187141	1	ICB	18:44	10							V-187141(ICB/CCB)
ICSA V-187142	1	ICSA	18:49	11							V-187142(ICSA)
ICSAB V-187143	1	ICSAB	18:55	12							V-187143(ICSAB)
CCV V-187144	1	CCV	19:01	13							V-187144(CCV)
LLCCV V-187145	1	LLCCV	19:07	14	MET-TAL6020S	SOIL	SOIL	SW846	32818		V-187145(LL-ICV/CCV SOIL)
CCB V-187141	1	CCB	19:13	15							V-187141(ICB/CCB)
MB 32818	1	MB	19:19	16	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
LCS 32818	1	LCS	19:24	17	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
LCS MR 32818	1	LCS	19:30	18	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-015	1	SMP	19:36	19	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-015	1	MR	19:42	20	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-015	5	SD	19:48	21	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-015	1	MS	19:53	22	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-015	1	MSD	19:59	23	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-015	1	PS	20:05	24	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
RINSE	1	NA	20:11	25	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
CCV V-187144	1	CCV	20:17	26							V-187144(CCV)
LLCCV V-187145	1	LLCCV	20:23	27	MET-TAL6020S	SOIL	SOIL	SW846	32818		V-187145(LL-ICV/CCV SOIL)
CCB V-187141	1	CCB	20:28	28							V-187141(ICB/CCB)
AC78787-001	1	SMP	20:34	29	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-002	1	SMP	20:40	30	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-007	1	SMP	20:46	31	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-008	1	SMP	20:52	32	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-014	1	SMP	20:57	33	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-018	1	SMP	21:03	34	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-019	1	SMP	21:09	35	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-020	1	SMP	21:15	36	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-021	1	SMP	21:21	37	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
RINSE	1	NA	21:27	38	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
CCV V-187144	1	CCV	21:33	39							V-187144(CCV)
LLCCV V-187145	1	LLCCV	21:39	40	MET-TAL6020S	SOIL	SOIL	SW846	32818		V-187145(LL-ICV/CCV SOIL)
CCB V-187141	1	CCB	21:44	41							V-187141(ICB/CCB)
AC78787-022	1	SMP	21:50	42	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-023	1	SMP	21:56	43	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-024	1	SMP	22:02	44	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-025	1	SMP	22:07	45	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78787-026	1	SMP	22:13	46	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78793-002	1	SMP	22:19	47	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
AC78790-001	1	SMP	22:25	48	MET-TAL6020S	SOIL	SOIL	SW846	32818	Rerun 2X Be.	0
AC78790-002	1	SMP	22:31	49	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
RINSE	1	NA	22:37	50	MET-TAL6020S	SOIL	SOIL	SW846	32818		0
CCV V-187144	1	CCV	22:43	51							V-187144(CCV)
LLCCV V-187145	1	LLCCV	22:49	52	MET-TAL6020S	SOIL	SOIL	SW846	32818		V-187145(LL-ICV/CCV SOIL)
CCB V-187141	1	CCB	22:54	53							V-187141(ICB/CCB)

Comments/Reviewedby:

pcousineau
192.168.1.123 5/27/2014 12:03:33 PM

Run ok. Report all. PC.

6/2/14

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S16379A3.txt

Analysis Date: 05/22/14

Instrument: PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-183928	1	CAL	21:26	1							V-183928(ICB/CCB)
CALST1 V-185363	1	CAL	21:29	2							V-185363(ICS1 Lowest std)
CALST2 V-186224	1	CAL	21:33	3							V-186224(ICS2- Low Std)
CALST3 V-185198	1	CAL	21:36	4							V-185198(ICS3 - Middle Std)
CALST4 V-186713	1	CAL	21:40	5							V-186713(ICS4 - High std)
ICS3 V-185198	1	ICS	21:44	6							V-185198(ICS3 - Middle Std)
ICV (1) V-186533	1	ICV	21:48	7							V-186533(CCV)
LLICV V-187248	1	LLICV	21:52	8		SOIL	SOIL	SW846	32817		V-187248(LLICV/CCV SOIL)
ICB V-183928	1	ICB	21:55	9							V-183928(ICB/CCB)
ICSA V-185754	1	ICSA	21:58	10							V-185754(ICSA)
ICSAB V-185755	1	ICSAB	22:02	11							V-185755(ICSAB)
MB 32817 (100)	1	MB	22:06	12		SOIL	SOIL	SW846	32817		0
LCS 32817	1	LCS	22:10	13		SOIL	SOIL	SW846	32817		0
LCS MR 32817	1	LCS	22:14	14		SOIL	SOIL	SW846	32817		0
AC78787-015	1	SMP	22:17	15	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-015	1	MR	22:21	16	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-015	1	MS	22:25	17	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-015	1	MSD	22:29	18	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-015	1	PS	22:33	19	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
CCV V-185529	1	CCV	22:36	20							V-185529(CCV)
LLCCV V-187248	1	LLCCV	22:40	21		SOIL	SOIL	SW846	32817		V-187248(LLICV/CCV SOIL)
CCB V-183928	1	CCB	22:43	22							V-183928(ICB/CCB)
AC78787-015	5	SD	22:47	23	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-001	1	SMP	22:50	24	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-002	1	SMP	22:54	25	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-007	1	SMP	22:58	26	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-008	1	SMP	23:01	27	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-014	1	SMP	23:05	28	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
ICSA V-185754	1	ICSA	23:08	29							V-185754(ICSA)
ICSAB V-185755	1	ICSAB	23:12	30							V-185755(ICSAB)
CCV V-185529	1	CCV	23:17	31							V-185529(CCV)
LLCCV V-187248	1	LLCCV	23:20	32		SOIL	SOIL	SW846	32817		V-187248(LLICV/CCV SOIL)
CCB V-183928	1	CCB	23:24	33							V-183928(ICB/CCB)
AC78787-018	1	SMP	23:27	34	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-019	1	SMP	23:31	35	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-020	1	SMP	23:34	36	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-021	1	SMP	23:38	37	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-022	1	SMP	23:41	38	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-023	1	SMP	23:45	39	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-024	1	SMP	23:48	40	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
ICSA V-185754	1	ICSA	23:52	41							V-185754(ICSA)
ICSAB V-185755	1	ICSAB	23:56	42							V-185755(ICSAB)
CCV V-185529	1	CCV	00:00	43							V-185529(CCV)
LLCCV V-187248	1	LLCCV	00:04	44		SOIL	SOIL	SW846	32817		V-187248(LLICV/CCV SOIL)
CCB V-183928	1	CCB	00:07	45							V-183928(ICB/CCB)
AC78787-025	1	SMP	00:11	46	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-026	1	SMP	00:15	47	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78793-002	1	SMP	00:18	48	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78790-001	1	SMP	00:22	49	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78790-002	1	SMP	00:26	50	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
ICSA V-185754	1	ICSA	00:30	51							V-185754(ICSA)
ICSAB V-185755	1	ICSAB	00:34	52							V-185755(ICSAB)
CCV V-185529	1	CCV	00:38	53							V-185529(CCV)
LLCCV V-187248	1	LLCCV	00:42	54		SOIL	SOIL	SW846	32817		V-187248(LLICV/CCV SOIL)
CCB V-183928	1	CCB	00:45	55							V-183928(ICB/CCB)

Comments/Reviewedby:

olufemi
192.168.1.85 5/23/2014 4:24:18 PM

RUN IS OK
All elements reported except the earth elements

8/23/14

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICPRAD3A\S16379B3.txt

Analysis Date: 05/23/14

Instrument: PEICPRAD3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-183928	1	CAL	00:48	1							V-183928(ICB/CCB)
CALST2 V-186224	1	CAL	00:52	2							V-186224(ICS2- Low Std)
CALST3 V-185198	1	CAL	00:55	3							V-185198(ICS3 - Middle Std)
CALST4 V-186713	1	CAL	00:58	4							V-186713(ICS4 - High std)
ICS3 V-185198	1	ICS	01:02	5							V-185198(ICS3 - Middle Std)
ICV (1) V-186533	1	ICV	01:05	6							V-186533(CCV)
LLICV V-187248	1	LLICV	01:08	7		SOIL	SOIL	SW846	32817		V-187248(LLICV/CCV SOIL)
ICB V-183928	1	ICB	01:12	8							V-183928(ICB/CCB)
ICSA V-185754	1	ICSA	01:15	9							V-185754(ICSA)
ICSAB V-185755	1	ICSAB	01:19	10							V-185755(ICSAB)
MB 32817 (100)	1	MB	01:22	11		SOIL	SOIL	SW846	32817		0
LCS 32817	1	LCS	01:26	12		SOIL	SOIL	SW846	32817		0
LCS MR 32817	1	LCS	01:29	13		SOIL	SOIL	SW846	32817		0
AC78787-015	1	SMP	01:32	14	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-015	1	MR	01:35	15	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-015	1	MS	01:37	16	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-015	1	MSD	01:40	17	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-015	1	PS	01:43	18	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
CCV V-186533	1	CCV	01:45	19							V-186533(CCV)
LLCCV V-187248	1	LLCCV	01:48	20		SOIL	SOIL	SW846	32817		V-187248(LLICV/CCV SOIL)
CCB V-183928	1	CCB	01:52	21							V-183928(ICB/CCB)
AC78787-015	5	SD	01:56	22	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-001	1	SMP	01:59	23	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-002	1	SMP	02:02	24	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-007	1	SMP	02:05	25	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-008	1	SMP	02:08	26	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-014	1	SMP	02:11	27	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
ICSA V-185754	1	ICSA	02:14	28							V-185754(ICSA)
ICSAB V-185755	1	ICSAB	02:17	29							V-185755(ICSAB)
CCV V-186533	1	CCV	02:21	30							V-186533(CCV)
LLCCV V-187248	1	LLCCV	02:24	31		SOIL	SOIL	SW846	32817		V-187248(LLICV/CCV SOIL)
CCB V-183928	1	CCB	02:27	32							V-183928(ICB/CCB)
AC78787-018	1	SMP	02:31	33	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-019	1	SMP	02:33	34	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-020	1	SMP	02:36	35	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-021	1	SMP	02:38	36	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-022	1	SMP	02:41	37	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-023	1	SMP	02:43	38	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-024	1	SMP	02:46	39	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
ICSA V-185754	1	ICSA	02:49	40							V-185754(ICSA)
ICSAB V-185755	1	ICSAB	02:52	41							V-185755(ICSAB)
CCV V-186533	1	CCV	02:56	42							V-186533(CCV)
LLCCV V-187248	1	LLCCV	02:59	43		SOIL	SOIL	SW846	32817		V-187248(LLICV/CCV SOIL)
CCB V-183928	1	CCB	03:02	44							V-183928(ICB/CCB)
AC78787-025	1	SMP	03:06	45	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78787-026	1	SMP	03:09	46	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78793-002	1	SMP	03:11	47	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78790-001	1	SMP	03:14	48	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
AC78790-002	1	SMP	03:17	49	MET-TAL6010S	SOIL	SOIL	SW846	32817		0
ICSA V-185754	1	ICSA	03:19	50							V-185754(ICSA)
ICSAB V-185755	1	ICSAB	03:23	51							V-185755(ICSAB)
CCV V-186533	1	CCV	03:26	52							V-186533(CCV)
LLCCV V-187248	1	LLCCV	03:29	53		SOIL	SOIL	SW846	32817		V-187248(LLICV/CCV SOIL)
CCB V-183928	1	CCB	03:33	54							V-183928(ICB/CCB)

Comments/Reviewedby:

olufemi
192.168.1.85 5/23/2014 4:29:05 PM

RUN IS OK
The earth elements reported

5/23/14

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV2A\H16379Sb.txt

Analysis Date: 06/02/14

Instrument: HGCV2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Calibration Blank	1	CAL	16:29	1							0
.2 PPB	1	CAL	16:30	2							0
.5 PPB	1	CAL	16:32	3							0
1 PPB	1	CAL	16:33	4							0
2 PPB	1	CAL	16:34	5							0
5 PPB	1	CAL	16:35	6							0
10 PPB	1	CAL	16:37	7							0
25 PPB	1	CAL	16:38	8							0
ICV (2)	1	ICV	16:39	9							0
ICB	1	ICB	16:41	10							0
MB 32817 (167)	1	MB	16:42	11	HG-SOIL	SOIL	SOIL	SW846	32817		0
LCS 32817	1	NA	16:43	12	HG-SOIL	SOIL	SOIL	SW846	32817	over calibration range	0
LCS MR 32817	1	NA	16:45	13	HG-SOIL	SOIL	SOIL	SW846	32817	over calibration range	0
LCS 5D	5	LCS	16:46	14	HG-SOIL	SOIL	SOIL	SW846	32817		0
LCS MR 5D	5	LCS	16:47	15	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-015	2	SMP	16:49	16	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-015	2	MR	16:50	17	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-015	2	MS	16:51	18	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-015	2	MSD	16:53	19	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-001	20	NA	16:54	20	HG-SOIL	SOIL	SOIL	SW846	32817	invalid injection	0
CCV	1	CCV	16:55	21							0
CCB	1	CCB	16:57	22							0
AC78787-002	1	NA	16:58	23	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-001	40	NA	16:59	24	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-007	20	NA	17:01	25	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-008	1	NA	17:02	26	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-014	1	NA	17:03	27	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-018	1	NA	17:05	28	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-019	1	NA	17:06	29	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-020	1	NA	17:07	30	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-021	2	NA	17:09	31	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-022	1	NA	17:10	32	HG-SOIL	SOIL	SOIL	SW846	32817		0
CCV	1	CCV	17:11	33						failed	0
CCB	1	CCB	17:13	34							0

Comments/Reviewedby:

olufemi
192.168.1.89 6/2/2014 5:37:58 PM

RUN IS OK

6/3/14

Standard/Batch/SnCl2 Lot #:

V-187834

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV2A\H16379Sc.txt

Analysis Date: 06/02/14

Instrument: HGCV2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Calibration Blank	1	CAL	18:09	1							0
.2 PPB	1	CAL	18:10	2							0
.5 PPB	1	CAL	18:11	3							0
1 PPB	1	CAL	18:13	4							0
2 PPB	1	CAL	18:14	5							0
5 PPB	1	CAL	18:15	6							0
10 PPB	1	CAL	18:17	7							0
25 PPB	1	CAL	18:18	8							0
ICV (2)	1	ICV	18:19	9							0
ICB	1	ICB	18:21	10							0
AC78787-001	40	SMP	18:22	11	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-002	1	SMP	18:23	12	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-007	20	SMP	18:25	13	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-008	1	SMP	18:26	14	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-014	2	SMP	18:27	15	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-018	1	SMP	18:29	16	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-019	1	SMP	18:30	17	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-020	1	SMP	18:31	18	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-021	2	NA	18:33	19	HG-SOIL	SOIL	SOIL	SW846	32817	NOT necessary	0
AC78787-022	1	SMP	18:34	20	HG-SOIL	SOIL	SOIL	SW846	32817		0
CCV	1	CCV	18:35	21							0
CCB	1	CCB	18:37	22							0
AC78787-021	1	SMP	18:38	23	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-023	1	SMP	18:39	24	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-024	1	SMP	18:41	25	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-025	1	SMP	18:42	26	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78787-026	1	SMP	18:43	27	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78793-002	1	SMP	18:45	28	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78790-001	1	SMP	18:46	29	HG-SOIL	SOIL	SOIL	SW846	32817		0
AC78790-002	1	SMP	18:47	30	HG-SOIL	SOIL	SOIL	SW846	32817		0
CCV	1	CCV	18:48	31							0
CCB	1	CCB	18:50	32							0

Comments/Reviewedby:

olufemi
192.168.1.89 6/2/2014 7:09:23 PM

RUN IS OK

e 6/3/14

Standard/Batch/SnCl2 Lot #:

V-187834

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP2A\SW16381A2.txt

Analysis Date: 05/27/14 **Instrument:** PEICP2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-183928	1	CAL	16:25	1							V-183928(ICB/CCB)
CALST1 V-185362	1	CAL	16:29	2							V-185362(ICS1 Lowest std)
CALST2 V-185756	1	CAL	16:32	3							V-185756(ICS2- Low Std)
CALST3 V-185198	1	CAL	16:35	4							V-185198(ICS3 - Middle Std)
CALST4 V-185758	1	CAL	16:39	5							V-185758(ICS4 - High std)
ICS3 V-185198	1	ICS	16:44	6							V-185198(ICS3 - Middle Std)
ICV V-185530	1	ICV	16:47	7							V-185530(CCV)
LLICV V-185635 [aq]	1	LLICV	16:51	8		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
ICB V-183928	1	ICB	16:54	9							V-183928(ICB/CCB)
ICSA V-185195	1	ICSA	16:57	10							V-185195(ICSA)
ICSAB V-185755	1	ICSAB	17:03	11							V-185755(ICSAB)
MB 32819 (1)	1	MB	17:07	12		AQUEO	AQUEO	SW846	32819		()
LCSW 32819	1	LCS	17:11	13		AQUEO	AQUEO	SW846	32819		()
LCSW MR 32819	1	LCS	17:14	14		AQUEO	AQUEO	SW846	32819		()
AC78793-001	1	NA	17:18	15	MET-TAL2007W	AQUEO	AQUEO	SW846	32819	internal std failed	()
AC78793-001	1	NA	17:22	16	MET-TAL2007W	AQUEO	AQUEO	SW846	32819	internal std failed	()
AC78793-001	1	NA	17:26	17	MET-TAL2007W	AQUEO	AQUEO	SW846	32819	internal std failed	()
AC78793-001	1	NA	17:30	18	MET-TAL2007W	AQUEO	AQUEO	SW846	32819	internal std failed	()
AC78793-001	1	NA	17:34	19	MET-TAL2007W	AQUEO	AQUEO	SW846	32819	internal std failed	()
CCV V-185530	1	CCV	17:38	20							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	17:41	21		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	17:45	22							()
AC78793-001	1	NA	17:48	23	MET-TAL2007W	AQUEO	AQUEO	SW846	32819	internal std failed	()
AC78787-003	1	SMP	17:51	24	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	Fe over LR	()
AC78787-004	1	SMP	17:55	25	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78787-005	1	SMP	17:59	26	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78787-006	1	SMP	18:02	27	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
ICSA V-185195	1	ICSA	18:05	28							V-185195(ICSA)
ICSAB V-185755	1	ICSAB	18:10	29							V-185755(ICSAB)
CCV V-185530	1	CCV	18:15	30							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	18:19	31		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	18:22	32							()
AC78787-009	1	SMP	18:26	33	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78787-010	1	SMP	18:29	34	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78787-011	1	NA	18:33	35	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	internal std failed, Fe over LR	()
AC78787-012	1	SMP	18:39	36	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78787-016	1	NA	18:43	37	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	internal std failed, Fe over LR, Ca, Mn sat'n	()
AC78787-017	1	SMP	18:48	38	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
CCV V-185530	1	CCV	18:51	39							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	18:55	40		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	18:58	41							()
AC78790-003	1	SMP	19:02	42	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78792-009	1	SMP	19:05	43	MET-TAL6010S	AQUEO	AQUEO	SW846	32819		()
AC78818-003	1	SMP	19:08	44	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78829-014	1	SMP	19:12	45	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
ICSA V-185195	1	ICSA	19:15	46							V-185195(ICSA)
ICSAB V-185755	1	ICSAB	19:20	47							V-185755(ICSAB)
CCV V-185530	1	CCV	19:25	48							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	19:28	49		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	19:32	50							()

Comments/Reviewedby:

sean
192.168.1.78 5/28/2014 10:22:15 AM

OK

5/28/14

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICPRAD2A\SW16381B2.txt

Analysis Date: 05/27/14

Instrument: PEICPRAD2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-183928	1	CAL	19:38	1							V-183928(ICB/CCB)
CALST2 V-185756	1	CAL	19:41	2							V-185756(ICS2- Low Std)
CALST3 V-185198	1	CAL	19:44	3							V-185198(ICS3 - Middle Std)
CALST4 V-185758	1	CAL	19:47	4							V-185758(ICS4 - High std)
ICS3 V-185198	1	ICS	19:50	5							V-185198(ICS3 - Middle Std)
ICV V-185530	1	ICV	19:53	6							V-185530(CCV)
LLICV V-185635 [aq]	1	LLICV	19:55	7		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
ICB V-183928	1	ICB	19:59	8							V-183928(ICB/CCB)
ICSA V-185195	1	ICSA	20:02	9							V-185195(ICSA)
ICSAB V-185755	1	ICSAB	20:06	10							V-185755(ICSAB)
MB 32819 (1)	1	MB	20:09	11		AQUEO	AQUEO	SW846	32819		()
LCSW 32819	1	LCS	20:13	12		AQUEO	AQUEO	SW846	32819		()
LCSW MR 32819	1	LCS	20:15	13		AQUEO	AQUEO	SW846	32819		()
AC78793-001	1	SMP	20:18	14		AQUEO	AQUEO	SW846	32819	Na sat'n	()
AC78793-001	1	MR	20:22	15		AQUEO	AQUEO	SW846	32819	Na sat'n	()
AC78793-001	1	MS	20:27	16		AQUEO	AQUEO	SW846	32819	Na sat'n	()
AC78793-001	1	MSD	20:30	17		AQUEO	AQUEO	SW846	32819	Na sat'n	()
AC78793-001	1	PS	20:34	18		AQUEO	AQUEO	SW846	32819	Na sat'n	()
CCV V-185530	1	CCV	20:38	19						Na failed (carryover)	V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	20:41	20		AQUEO	AQUEO	SW846	32819	Na failed (carryover)	V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	20:44	21							()
AC78793-001	5	SD	20:47	22		AQUEO	AQUEO	SW846	32819	Na sat'n	()
AC78787-003	1	NA	20:51	23	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	internal std failed	()
AC78787-004	1	SMP	20:54	24	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78787-005	1	SMP	20:57	25	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78787-006	1	SMP	21:01	26	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
ICSA V-185195	1	ICSA	21:04	27							V-185195(ICSA)
ICSAB V-185755	1	ICSAB	21:08	28							V-185755(ICSAB)
CCV V-185530	1	CCV	21:12	29							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	21:14	30		AQUEO	AQUEO	SW846	32819	Na failed	V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	21:18	31							()
AC78787-009	1	SMP	21:21	32	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78787-010	1	SMP	21:23	33	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78787-011	1	NA	21:27	34	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	internal std failed	()
AC78787-012	1	SMP	21:30	35	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78787-016	1	NA	21:33	36	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	internal std failed	()
AC78787-017	1	SMP	21:37	37	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
CCV V-185530	1	CCV	21:40	38							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	21:43	39		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	21:46	40							()
AC78790-003	1	SMP	21:49	41	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78792-009	1	SMP	21:53	42	MET-TAL6010S	AQUEO	AQUEO	SW846	32819		()
AC78818-003	1	SMP	21:56	43	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
AC78829-014	1	SMP	21:59	44	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		()
ICSA V-185195	1	ICSA	22:03	45							V-185195(ICSA)
ICSAB V-185755	1	ICSAB	22:06	46							V-185755(ICSAB)
CCV V-185530	1	CCV	22:10	47							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	22:13	48		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	22:16	49							()

Comments/Reviewedby:

sean
192.168.1.78 5/28/2014 10:34:31 AM

K OK
Na failed CCV, LLCCV

5/28/14

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP2A\SW16381C2.txt

Analysis Date: 05/28/14

Instrument: PEICP2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-183928	1	CAL	10:52	1							V-183928(ICB/CCB)
CALST1 V-185362	1	CAL	10:55	2							V-185362(ICS1 Lowest std)
CALST2 V-185756	1	CAL	10:58	3							V-185756(ICS2- Low Std)
CALST3 V-185198	1	CAL	11:02	4							V-185198(ICS3 - Middle Std)
CALST4 V-185758	1	CAL	11:05	5							V-185758(ICS4 - High std)
ICS3 V-185198	1	ICS	11:10	6							V-185198(ICS3 - Middle Std)
ICV V-185530	1	ICV	11:14	7							V-185530(CCV)
LLICV V-185635 [aq]	1	LLICV	11:17	8		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
ICB V-183928	1	ICB	11:20	9							V-183928(ICB/CCB)
ICSA V-185195	1	ICSA	11:24	10							V-185195(ICSA)
ICSAB V-185755	1	ICSAB	11:29	11							V-185755(ICSAB)
AC78793-001	2	SMP	11:34	12		AQUEO	AQUEO	SW846	32819	internal std OK	()
AC78793-001	2	MR	11:37	13		AQUEO	AQUEO	SW846	32819	internal std OK	()
AC78793-001	2	MS	11:41	14		AQUEO	AQUEO	SW846	32819	internal std OK	()
AC78793-001	2	MSD	11:44	15		AQUEO	AQUEO	SW846	32819	internal std OK	()
AC78793-001	1	PS	11:48	16		AQUEO	AQUEO	SW846	32819	internal std OK	()
AC78793-001	10	SD	11:52	17		AQUEO	AQUEO	SW846	32819	internal std OK	()
CCV V-185530	1	CCV	11:55	18							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	11:59	19		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	12:02	20							()
AC78787-003	2	SMP	12:06	21	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	Fe dilution	()
AC78787-011	2	SMP	12:09	22	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	internal std OK, Fe over LR	()
AC78787-011	4	SMP	12:14	23	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	Fe dilution	()
AC78787-016	2	SMP	12:17	24	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	internal std OK, Fe over LR	()
AC78787-016	4	SMP	12:23	25	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	Fe dilution	()
ICSA V-185195	1	ICSA	12:27	26							V-185195(ICSA)
ICSAB V-185755	1	ICSAB	12:32	27							V-185755(ICSAB)
CCV V-185530	1	CCV	12:37	28							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	12:40	29		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	12:44	30							()

Comments/Reviewedby:

sean
192.168.1.78 5/28/2014 1:30:32 PM

OK

8 5/28/14

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICPRAD2A\SW16381D2.txt

Analysis Date: 05/28/14

Instrument: PEICPRAD2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-183928	1	CAL	12:48	1							V-183928(ICB/CCB)
CALST2 V-185756	1	CAL	12:52	2							V-185756(ICS2- Low Std)
CALST3 V-185198	1	CAL	12:55	3							V-185198(ICS3 - Middle Std)
CALST4 V-185758	1	CAL	12:58	4							V-185758(ICS4 - High std)
ICS3 V-185198	1	ICS	13:01	5							V-185198(ICS3 - Middle Std)
ICV V-185530	1	ICV	13:03	6							V-185530(CCV)
LLICV V-185635 [aq]	1	LLICV	13:06	7		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
ICB V-183928	1	ICB	13:09	8							V-183928(ICB/CCB)
ICSA V-185195	1	ICSA	13:13	9							V-185195(ICSA)
ICSAB V-185755	1	ICSAB	13:16	10							V-185755(ICSAB)
MB 32819 (1)	1	MB	13:20	11		AQUEO	AQUEO	SW846	32819		0
LCSW 32819	1	LCS	13:23	12		AQUEO	AQUEO	SW846	32819		0
LCSW MR 32819	1	LCS	13:26	13		AQUEO	AQUEO	SW846	32819		0
AC78793-001	60	SMP	13:29	14		AQUEO	AQUEO	SW846	32819	Na dilution	0
AC78793-001	60	MR	13:33	15		AQUEO	AQUEO	SW846	32819	Na dilution	0
AC78793-001	60	MS	13:38	16		AQUEO	AQUEO	SW846	32819	Na dilution	0
AC78793-001	60	MSD	13:42	17		AQUEO	AQUEO	SW846	32819	Na dilution	0
AC78793-001	1	PS	13:47	18		AQUEO	AQUEO	SW846	32819	Na dilution	0
CCV V-185530	1	CCV	13:51	19							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	13:53	20		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	13:57	21							0
AC78793-001	300	SD	14:00	22		AQUEO	AQUEO	SW846	32819	Na dilution	0
AC78787-003	2	SMP	14:03	23	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	internal std dilution	0
AC78787-004	1	SMP	14:06	24	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		0
AC78787-005	1	SMP	14:09	25	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		0
AC78787-006	1	SMP	14:13	26	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		0
ICSA V-185195	1	ICSA	14:16	27							V-185195(ICSA)
ICSAB V-185755	1	ICSAB	14:20	28							V-185755(ICSAB)
CCV V-185530	1	CCV	14:23	29							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	14:26	30		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	14:29	31							0
AC78787-009	1	SMP	14:33	32	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		0
AC78787-010	1	SMP	14:35	33	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		0
AC78787-011	2	SMP	14:39	34	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	internal std dilution	0
AC78787-012	1	SMP	14:41	35	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		0
AC78787-016	2	NA	14:45	36	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	internal std failed	0
AC78787-016	4	SMP	14:48	37	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	internal std dilution	0
AC78787-017	1	SMP	14:50	38	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		0
CCV V-185530	1	CCV	14:54	39							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	14:57	40		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	15:00	41							0
AC78790-003	1	SMP	15:03	42	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		0
AC78792-009	1	SMP	15:06	43	MET-TAL6010S	AQUEO	AQUEO	SW846	32819		0
AC78818-003	1	SMP	15:10	44	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		0
AC78829-014	1	NA	15:13	45	MET-TAL6010W	AQUEO	AQUEO	SW846	32819	missed cup	0
ICSA V-185195	1	ICSA	15:16	46							V-185195(ICSA)
ICSAB V-185755	1	ICSAB	15:19	47							V-185755(ICSAB)
CCV V-185530	1	CCV	15:23	48							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	15:26	49		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	15:29	50							0
AC78829-014	1	SMP	15:32	51	MET-TAL6010W	AQUEO	AQUEO	SW846	32819		0
ICSA V-185195	1	ICSA	15:36	52							V-185195(ICSA)
ICSAB V-185755	1	ICSAB	15:39	53							V-185755(ICSAB)
CCV V-185530	1	CCV	15:43	54							V-185530(CCV)
LLCCV V-185635 [aq]	1	LLCCV	15:46	55		AQUEO	AQUEO	SW846	32819		V-185635 [aq](LLICV/LLCCV aq)
CCB	1	CCB	15:49	56							0

Comments/Reviewedby:

sean
192.168.1.78 5/28/2014 3:55:52 PM

OK

S 5/28/14

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV1A\H16381SW.txt

Analysis Date: 05/28/14

Instrument: HGCV1A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Calibration Blank	1	CAL	12:28	1							0
.2 PPB	1	CAL	12:29	2							0
.5 PPB	1	CAL	12:31	3							0
1 PPB	1	CAL	12:32	4							0
2 PPB	1	CAL	12:33	5							0
5 PPB	1	CAL	12:35	6							0
10 PPB	1	CAL	12:36	7							0
25 PPB	1	CAL	12:37	8							0
ICV (2)	1	ICV	12:39	9							0
ICB	1	ICB	12:40	10							0
MB 32819 (1)	1	MB	12:41	11		AQUEO	AQUEO	SW846	32819		0
LCSW 32819	1	LCS	12:43	12		AQUEO	AQUEO	SW846	32819		0
LCSW MR 32819	1	LCS	12:44	13		AQUEO	AQUEO	SW846	32819		0
AC78793-001	1	SMP	12:46	14	HG-WATER	AQUEO	AQUEO	SW846	32819		0
AC78793-001	1	MR	12:47	15	HG-WATER	AQUEO	AQUEO	SW846	32819		0
AC78793-001	1	MS	12:48	16	HG-WATER	AQUEO	AQUEO	SW846	32819		0
AC78793-001	1	MSD	12:50	17	HG-WATER	AQUEO	AQUEO	SW846	32819		0
AC78787-003	1	SMP	12:51	18	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
AC78787-004	1	SMP	12:52	19	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
AC78787-005	1	SMP	12:54	20	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
CCV	1	CCV	12:55	21							0
CCB	1	CCB	12:56	22							0
AC78787-006	1	SMP	12:58	23	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
AC78787-009	1	SMP	12:59	24	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
AC78787-010	1	SMP	13:01	25	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
AC78787-011	1	NA	13:02	26	HG-W-7470	AQUEO	AQUEO	SW846	32819	over calibration range	0
AC78787-012	1	SMP	13:03	27	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
AC78787-016	1	NA	13:05	28	HG-W-7470	AQUEO	AQUEO	SW846	32819	over calibration range	0
AC78787-017	1	SMP	13:06	29	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
AC78790-003	1	SMP	13:07	30	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
AC78792-009	1	SMP	13:09	31	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
AC78818-003	1	SMP	13:10	32	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
CCV	1	CCV	13:11	33							0
CCB	1	CCB	13:13	34							0
AC78787-011	10	SMP	13:14	35	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
AC78787-016	10	SMP	13:16	36	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
AC78829-014	1	SMP	13:17	37	HG-W-7470	AQUEO	AQUEO	SW846	32819		0
CCV	1	CCV	13:18	38							0
CCB	1	CCB	13:20	39							0

Comments/Reviewedby:

olufemi
192.168.1.89 5/28/2014 1:50:32 PM

RUN IS OK

5/29/14

Standard/Batch/SnCl2 Lot #:

V-187558

4052101.1606

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS2_7500SWA\SW52814A.b\SW52814A.TXT

Analysis Date: 05/28/14 **Instrument:** MS2_7500SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Rinse	1	SMP	20:14	1		AQUEO	AQUEO	SW846	32819		()
CalBlk V-187463	1	ISBLK	20:19	2		SOIL	SOIL				V-187463(Cal Blk)
CalStd1 V-187464	1	CAL	20:25	3							V-187464(Cal Std-1)
CalStd2 V-187465	1	CAL	20:31	4							V-187465(Cal Std-2)
CalStd3 V-187466	1	CAL	20:37	5							V-187466(Cal Std-3)
CalStd4 V-187467	1	CAL	20:43	6							V-187467(Cal Std-4)
CalStd5 V-187468	1	CAL	20:49	7							V-187468(Cal Std-5)
ICV V-187469	1	ICV	20:55	8							V-187469(ICV)
LLICV V-187475	1	LLICV	21:01	9	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		V-187475(LL-ICV/CCV AQ.)
ICB V-187470	1	ICB	21:07	10							V-187470(ICB/CCB)
ICSA V-187471	1	ICSA	21:13	11							V-187471(ICSA)
ICSAB V-187472	1	ICSAB	21:19	12							V-187472(ICSAB)
CCV V-187473	1	CCV	21:25	13							V-187473(CCV)
LLCCV V-187475	1	LLCCV	21:31	14	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		V-187475(LL-ICV/CCV AQ.)
CCB V-187470	1	CCB	21:37	15							V-187470(ICB/CCB)
MB 32819	1	MB	21:43	16	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
LCS 32819	1	LCS	21:49	17		AQUEO	AQUEO	SW846	32819		()
LCS MR 32819	1	LCS	21:54	18	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
AC78787-005	1	SMP	22:00	19	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
AC78787-006	1	SMP	22:06	20	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
AC78790-003	1	SMP	22:13	21	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
AC78792-009	1	SMP	22:19	22	MET-TAL6020S	AQUEO	AQUEO	SW846	32819		()
AC78818-003	1	SMP	22:25	23	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
AC78829-014	1	SMP	22:31	24	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
RINSE	1	NA	22:37	25		AQUEO	AQUEO	SW846	32819		()
CCV V-187473	1	CCV	22:42	26							V-187473(CCV)
LLCCV V-187475	1	LLCCV	22:49	27	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		V-187475(LL-ICV/CCV AQ.)
CCB V-187470	1	CCB	22:54	28							V-187470(ICB/CCB)
AC78793-001	5	SMP	23:00	29	MET-TAL2008W	AQUEO	AQUEO	SW846	32819	Report recovery info. Only.	()
AC78793-001	5	MR	23:06	30	MET-TAL2008W	AQUEO	AQUEO	SW846	32819	Report recovery info. Only.	()
AC78793-001	5	SD	23:12	31	MET-TAL2008W	AQUEO	AQUEO	SW846	32819	Report recovery info. Only.	()
AC78793-001	5	MS	23:18	32	MET-TAL2008W	AQUEO	AQUEO	SW846	32819	Report recovery info. Only.	()
AC78793-001	5	MSD	23:24	33	MET-TAL2008W	AQUEO	AQUEO	SW846	32819	Report recovery info. Only.	()
AC78793-001	5	PS	23:30	34	MET-TAL2008W	AQUEO	AQUEO	SW846	32819	Report recovery info. Only.	()
AC78787-004	1	SMP	23:36	35	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
AC78787-009	1	SMP	23:42	36	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
AC78787-010	1	SMP	23:48	37	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
RINSE	1	NA	23:54	38		AQUEO	AQUEO	SW846	32819		()
CCV V-187473	1	CCV	00:00	39							V-187473(CCV)
LLCCV V-187475	1	LLCCV	00:06	40	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		V-187475(LL-ICV/CCV AQ.)
CCB V-187470	1	CCB	00:12	41							V-187470(ICB/CCB)
AC78787-012	1	SMP	00:18	42	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
AC78787-017	1	SMP	00:23	43	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
AC78787-003	1	SMP	00:29	44	MET-TAL6020W	AQUEO	AQUEO	SW846	32819	Report Se, Cd, Sb, Tl, Pb. Be,Co not reported, IS failed. As not reported, conc. above LR.	()
AC78787-011	1	SMP	00:35	45	MET-TAL6020W	AQUEO	AQUEO	SW846	32819	Report Se, Cd, Sb, Tl. Be,Co not reported, IS fialed. As,Pb not reported, conc. above LR.	()
AC78787-016	1	SMP	00:41	46	MET-TAL6020W	AQUEO	AQUEO	SW846	32819	Report Se, Cd, Sb, Tl. Be,Co not reported, IS fialed. As,Pb not reported, conc. above LR.	()
AC78787-003	5	SMP	00:46	47	MET-TAL6020W	AQUEO	AQUEO	SW846	32819	Report As, Be, Co.	()
AC78787-003	10	NA	00:52	48	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
AC78787-011	5	SMP	00:58	49	MET-TAL6020W	AQUEO	AQUEO	SW846	32819	Report As, Be, Co, Pb.	()
AC78787-011	10	NA	01:04	50	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
RINSE	1	NA	01:10	51		AQUEO	AQUEO	SW846	32819		()
CCV V-187473	1	CCV	01:16	52							V-187473(CCV)
LLCCV V-187475	1	LLCCV	01:22	53	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		V-187475(LL-ICV/CCV AQ.)
CCB V-187470	1	CCB	01:28	54							V-187470(ICB/CCB)
AC78787-016	5	NA	01:34	55	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		()
AC78787-016	10	SMP	01:40	56	MET-TAL6020W	AQUEO	AQUEO	SW846	32819	Report As, Be, Co, Pb.	()

Comments/Reviewedby:

Standard/Batch/SnCl2 Lot #:

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pcousineau
192.168.1.123 5/29/2014 12:33:27 PM

Run ok. Report 78793-001, MR, MS1, MS2, PS, SD for recovery info. Only.
78787-003 5x Be, Co, As. 78787-011 5x Be, Co, As, Pb. 78787-016 10x Be, Co, As, Pb. PC.

8/29/14

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS2_7500SWA\SW52814A.b\SW52814A.TXT

Analysis Date: 05/29/14

Instrument: MS2_7500SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	01:46	57		AQUEO	AQUEO	SW846	32819		()
CCV V-187473	1	CCV	01:52	58							V-187473(CCV)
LLCCV V-187475	1	LLCCV	01:58	59	MET-TAL6020W	AQUEO	AQUEO	SW846	32819		V-187475(LL-ICV/CCV AQ.)
CCB V-187470	1	CCB	02:04	60							V-187470(ICB/CCB)

Comments/Reviewedby:

Standard/Batch/SnCl2 Lot #:

pcousineau
192.168.1.123 5/29/2014 12:33:27 PM

Run ok. Report 78793-001, MR, MS1, MS2, PS, SD for recovery info. Only.
78787-003 5x Be, Co, As. 78787-011 5x Be, Co, As, Pb. 78787-016 10x Be, Co, As, Pb. PC.

5/29/14

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: S052314B Sample ID: CalBlk V-187134 Sample Date 05/23/14 Sample Time: 17:57

IS ID:	Area	Area Limit		
Ho-1	779743.2	545820.24	-	1169614.8
In-1	315469.5	220828.65	-	473204.25
Sc-1	44973.52	31481.464	-	67460.28
Tb-1	799984.1	559988.87	-	1199976.15

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-187134	2	779743.2	315469.5	44973.52	799984.1				
SMP	Rinse	1	715529.3	282981.3	41545.90	742333.4				
CAL	CalStd1 V-18713	3	773279.5	312840.5	43858.81	784042.5				
CAL	CalStd2 V-18713	4	757755.1	300857.6	43053.95	770545.9				
CAL	CalStd3 V-18713	5	758221.3	304498.0	43353.98	775191.3				
CAL	CalStd4 V-18713	6	762760.9	304023.9	43509.36	772492.0				
CAL	CalStd5 V-18713	7	781825.5	310602.7	44055.25	795754.4				
ICV	ICV V-187140	8	768794.9	303882.3	43026.69	780393.9				
LLICV	LLICV V-187145	9	780964.1	313142.1	44406.67	800430.1				
ICB	ICB V-187141	10	785223.9	314842.3	44655.09	796228.3				
ICSA	ICSA V-187142	11	733281.1	274236.2	39676.10	738370.1				
ICSAB	ICSAB V-187143	12	760790.7	283639.0	40904.01	768462.6				
CCV	CCV V-187144	13	787884.2	312319.8	43897.44	808737.0				
LLCCV	LLCCV V-187145	14	798849.3	320786.8	44944.33	821914.3				
CCB	CCB V-187141	15	782066.0	317031.6	44311.45	808944.3				
MB	MB 32818	16	714145.3	286559.2	40174.73	734272.1				
LCS	LCS 32818	17	750787.7	295105.3	43806.45	766169.3				
MR	LCS MR 32818	18	758397.0	295521.1	43712.98	770575.9				
SMP	AC78787-015	19	767506.6	294723.2	48293.56	783950.0				
MR	AC78787-015	20	745153.4	285430.3	47677.02	756414.8				
SD	AC78787-015	21	795799.9	313554.5	45403.95	806409.6				
MS	AC78787-015	22	735763.8	277182.9	47255.73	748851.1				
MSD	AC78787-015	23	742872.1	281765.8	48624.80	753613.3				
PS	AC78787-015	24	752283.6	288274.4	47512.95	758143.6				
SMP	RINSE	25	767838.8	302533.3	40630.03	780526.1				
CCV	CCV V-187144	26	779677.1	304279.0	42745.10	792093.3				
LLCCV	LLCCV V-187145	27	758239.5	299274.8	41749.40	778912.9				
CCB	CCB V-187141	28	779959.2	311588.3	43419.54	800581.6				
SMP	AC78787-001	29	703450.1	266646.1	41273.39	712029.5				
SMP	AC78787-002	30	719392.8	269510.8	45336.19	730228.2				
SMP	AC78787-007	31	747717.0	287653.2	45930.04	758750.5				
SMP	AC78787-008	32	753079.8	288254.7	49606.79	764755.1				
SMP	AC78787-014	33	753550.3	287515.6	47621.47	760900.2				
SMP	AC78787-018	34	746294.1	282626.0	47159.76	757116.9				
SMP	AC78787-019	35	752466.1	284424.4	59520.69	763465.4				
SMP	AC78787-020	36	751072.7	286509.1	50902.47	770986.1				
SMP	AC78787-021	37	740179.2	282582.5	50231.17	751420.4				
SMP	RINSE	38	752237.8	290374.1	39342.92	758876.6				
CCV	CCV V-187144	39	792047.7	310663.3	43289.80	805139.8				
LLCCV	LLCCV V-187145	40	772944.0	306154.5	42770.00	786239.6				
CCB	CCB V-187141	41	743509.6	295893.8	41403.45	758934.3				
SMP	AC78787-022	42	750799.1	283047.7	49652.55	767957.8				
SMP	AC78787-023	43	727661.8	277007.6	49133.85	742454.8				
SMP	AC78787-024	44	728328.4	274875.9	52115.57	738049.2				
SMP	AC78787-025	45	743423.6	283346.1	51547.27	763234.1				
SMP	AC78787-026	46	736313.8	280643.5	50258.00	742641.5				
SMP	AC78793-002	47	715619.8	279975.8	42761.71	728604.6				
SMP	AC78790-001	48	785456.4	286278.5	72012.18 *	794564.3				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

SMP	AC78790-002	49	767146.8	287011.5	59792.73	777618.4
SMP	RINSE	50	775165.6	302347.7	41815.10	792123.6
CCV	CCV V-187144	51	789167.8	312502.4	44034.45	804132.1
LLCCV	LLCCV V-187145	52	775269.7	310475.4	43663.67	793382.0
CCB	CCB V-187141	53	772148.3	310292.8	43794.34	788637.3

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: S052314B Sample ID: CalBlk V-187134 Sample Date 05/23/14 Sample Time: 17:57

IS ID:	Area	Area Limit		
Ho-2	1187929	831550.3	-	1781893.5
In-2	920005.4	644003.78	-	1380008.1
Sc-2	740888.2	518621.74	-	1111332.3
Tb-2	1242164	869514.8	-	1863246

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-187134	2	1187929	920005.4	740888.2	1242164				
SMP	Rinse	1	1157790	895772.3	723968.3	1221038				
CAL	CalStd1 V-18713	3	1202726	919488.0	745653.3	1256125				
CAL	CalStd2 V-18713	4	1162089	893554.1	719302.9	1210137				
CAL	CalStd3 V-18713	5	1158521	893005.2	722879.6	1208385				
CAL	CalStd4 V-18713	6	1195987	903965.3	743912.9	1257694				
CAL	CalStd5 V-18713	7	1175352	895901.0	733514.1	1247946				
ICV	ICV V-187140	8	1201504	913680.0	747866.4	1255125				
LLICV	LLICV V-187145	9	1181271	916494.6	747283.2	1240136				
ICB	ICB V-187141	10	1184876	919763.3	736704.1	1240890				
ICSA	ICSA V-187142	11	1086428	789907.7	656414.2	1146890				
ICSAB	ICSAB V-187143	12	1153919	833065.2	698774.4	1196625				
CCV	CCV V-187144	13	1193048	915710.1	748066.8	1247040				
LLCCV	LLCCV V-187145	14	1210144	937806.9	777700.4	1274809				
CCB	CCB V-187141	15	1185751	917996.8	735356.6	1249073				
MB	MB 32818	16	1076867	825741.5	677849.5	1133941				
LCS	LCS 32818	17	1137479	846496.8	724663.9	1183359				
MR	LCS MR 32818	18	1130269	854616.1	734685.8	1177217				
SMP	AC78787-015	19	1134292	837262.9	865184.8	1184967				
MR	AC78787-015	20	1075498	807764.6	827885.1	1148073				
SD	AC78787-015	21	1196461	907800.5	778929.2	1232755				
MS	AC78787-015	22	1062281	794790.6	846171.9	1128561				
MSD	AC78787-015	23	1071344	813688.5	850049.2	1152075				
PS	AC78787-015	24	1128186	831394.0	815293.9	1172710				
SMP	RINSE	25	1116693	855921.3	679554.4	1176549				
CCV	CCV V-187144	26	1151101	878393.3	712264.3	1208980				
LLCCV	LLCCV V-187145	27	1146757	876786.3	694988.7	1202449				
CCB	CCB V-187141	28	1184694	906038.6	725390.5	1231714				
SMP	AC78787-001	29	1042422	786914.8	704017.3	1109768				
SMP	AC78787-002	30	1044046	796502.4	768871.3	1127966				
SMP	AC78787-007	31	1118090	837364.5	771713.9	1160801				
SMP	AC78787-008	32	1139887	849403.5	916355.9	1197566				
SMP	AC78787-014	33	1125485	822674.4	820089.8	1171037				
SMP	AC78787-018	34	1122586	830007.3	795400.0	1168637				
SMP	AC78787-019	35	1135318	824918.2	1082891	1188643				
SMP	AC78787-020	36	1133136	829595.8	922435.9	1197982				
SMP	AC78787-021	37	1102842	809354.3	909273.4	1143187				
SMP	RINSE	38	1097559	825420.1	653061.3	1145081				
CCV	CCV V-187144	39	1179586	896424.7	720634.0	1217620				
LLCCV	LLCCV V-187145	40	1171477	912912.6	728086.0	1233082				
CCB	CCB V-187141	41	1157247	892603.1	714810.7	1211736				
SMP	AC78787-022	42	1133824	811260.6	893120.7	1186784				
SMP	AC78787-023	43	1100038	802003.8	892712.6	1142699				
SMP	AC78787-024	44	1089086	796002.0	945600.7	1135491				
SMP	AC78787-025	45	1132447	822766.4	939281.0	1171074				
SMP	AC78787-026	46	1126654	835041.4	910758.5	1176921				
SMP	AC78793-002	47	1071527	818194.3	720546.7	1144758				
SMP	AC78790-001	48	1219192	838590.1	1318588 *	1258969				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

SMP	AC78790-002	49	1170722	840308.9	1091442	1207900
SMP	RINSE	50	1135369	863291.8	684478.3	1179286
CCV	CCV V-187144	51	1181959	908071.3	732589.8	1239209
LLCCV	LLCCV V-187145	52	1194230	914181.8	727921.9	1241021
CCB	CCB V-187141	53	1191194	910776.3	735428.8	1235285

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: SW52814A Sample ID: CalBlk V-187463 Sample Date 05/28/14 Sample Time: 20:19

IS ID:	Area	Area Limit		
Ho-1	552430.7	386701.49	-	828646.05
In-1	218521.4	152964.98	-	327782.1
Sc-1	30792.13	21554.491	-	46188.195
Tb-1	559234.8	391464.36	-	838852.2

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-187463	2	552430.7	218521.4	30792.13	559234.8				
SMP	Rinse	1	544810.3	210266.3	30391.63	552389.4				
CAL	CalStd1 V-18746	3	555452.7	221185.5	31502.98	562303.1				
CAL	CalStd2 V-18746	4	542652.6	214979.0	30531.52	544338.2				
CAL	CalStd3 V-18746	5	543307.8	215540.7	30539.30	547727.7				
CAL	CalStd4 V-18746	6	568929.1	225364.6	31914.46	572861.1				
CAL	CalStd5 V-18746	7	568601.5	223012.7	31817.98	572832.6				
ICV	ICV V-187469	8	561915.8	222679.7	31477.39	566361.9				
LLICV	LLICV V-187475	9	567584.3	227256.8	32186.66	573593.4				
ICB	ICB V-187470	10	591376.9	236223.3	33614.56	597824.4				
ICSA	ICSA V-187471	11	549043.1	207063.2	30135.02	553113.9				
ICSAB	ICSAB V-187472	12	559842.5	209457.3	30359.15	562818.5				
CCV	CCV V-187473	13	573611.6	227127.8	31754.69	580846.4				
LLCCV	LLCCV V-187475	14	571115.9	226333.2	31588.52	576554.1				
CCB	CCB V-187470	15	587810.2	232625.1	32586.36	594353.1				
MB	MB 32819	16	545767.3	214309.6	29404.65	552202.4				
LCS	LCS 32819	17	547443.4	208326.4	29277.74	553043.8				
MR	LCS MR 32819	18	501305.4	189821.7	26609.95	505059.7				
SMP	AC78787-005	19	495958.3	191800.1	26185.89	497736.4				
SMP	AC78787-006	20	511326.9	198453.0	26981.81	513094.9				
SMP	AC78790-003	21	504747.1	196401.1	26938.62	512125.2				
SMP	AC78792-009	22	505263.1	196256.7	26827.71	512154.8				
SMP	AC78818-003	23	518530.2	200203.0	27161.70	524324.9				
SMP	AC78829-014	24	507253.6	196641.3	26536.00	511552.4				
SMP	RINSE	25	576851.1	225479.8	31371.13	579575.1				
CCV	CCV V-187473	26	549888.9	215986.6	30150.82	555798.6				
LLCCV	LLCCV V-187475	27	537731.8	212102.2	29439.70	542102.8				
CCB	CCB V-187470	28	549548.8	216359.2	30044.17	557866.7				
SMP	AC78793-001	29	438789.2	161347.2	24431.36	437890.4				
MR	AC78793-001	30	433205.7	163807.5	25374.53	436209.1				
SD	AC78793-001	31	499917.9	195295.3	29922.95	504216.7				
MS	AC78793-001	32	423187.7	160030.2	25404.34	425446.6				
MSD	AC78793-001	33	421362.7	161526.1	25811.39	426417.3				
PS	AC78793-001	34	425797.3	162624.7	26235.56	426264.6				
SMP	AC78787-004	35	476996.5	192631.3	28579.92	480444.6				
SMP	AC78787-009	36	496064.9	187666.8	34844.71	500249.4				
SMP	AC78787-010	37	487915.5	194622.5	27745.85	493204.9				
SMP	RINSE	38	523282.3	212197.5	30745.62	528884.6				
CCV	CCV V-187473	39	510090.2	204900.7	29846.53	515282.3				
LLCCV	LLCCV V-187475	40	504506.7	203311.2	29432.32	507887.5				
CCB	CCB V-187470	41	520222.1	210581.4	30494.98	523597.0				
SMP	AC78787-012	42	455891.8	182049.3	25750.83	460084.7				
SMP	AC78787-017	43	463021.0	180258.8	25317.75	467254.4				
SMP	AC78787-003	44	562025.7	177567.5	72461.70 *	562805.7				
SMP	AC78787-011	45	609584.6	166662.6	99203.81 *	605742.6				
SMP	AC78787-016	46	646664.8	163927.4	142802.7 *	645676.9				
SMP	AC78787-003	47	531877.1	199452.2	38545.30	536789.8				
SMP	AC78787-003	48	518526.2	199112.7	33447.02	522930.2				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

SMP	AC78787-011	49	536017.6	193075.0	44607.51		539852.9
SMP	AC78787-011	50	523265.0	197388.3	36910.71		530588.6
SMP	RINSE	51	519721.4	208760.1	29803.12		526015.7
CCV	CCV V-187473	52	505520.7	202750.4	29169.47		509357.1
LLCCV	LLCCV V-187475	53	495088.6	200087.1	28687.51		504060.7
CCB	CCB V-187470	54	516734.3	208167.3	29690.66		522153.9
SMP	AC78787-016	55	552296.5	189484.3	55132.30	*	554468.2
SMP	AC78787-016	56	541300.8	197074.4	42472.75		541549.4
SMP	RINSE	57	521461.4	210426.8	30010.52		530058.2
CCV	CCV V-187473	58	523257.9	209026.0	30015.40		530019.0
LLCCV	LLCCV V-187475	59	505737.0	204200.5	29099.79		510934.9
CCB	CCB V-187470	60	506601.4	204432.0	29177.68		509491.4

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

4052101 1614

TuneID: 2

Batch/FileID: SW52814A Sample ID: CalBlk V-187463 Sample Date 05/28/14 Sample Time: 20:19

IS ID:	Area	Area Limit		
Ho-2	837411.1	586187.77	-	1256116.65
In-2	628884.8	440219.36	-	943327.2
Sc-2	494811.6	346368.12	-	742217.4
Tb-2	858007.8	600605.46	-	1287011.7

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-187463	2	837411.1	628884.8	494811.6	858007.8				
SMP	Rinse	1	840209.8	630132.1	493693.4	860336.3				
CAL	CalStd1 V-18746	3	833134.9	629093.9	497030.0	857290.8				
CAL	CalStd2 V-18746	4	808274.1	613107.9	485409.1	827342.9				
CAL	CalStd3 V-18746	5	815998.9	615274.3	490463.4	844433.6				
CAL	CalStd4 V-18746	6	856097.3	647739.5	513685.3	880744.1				
CAL	CalStd5 V-18746	7	851996.3	643240.3	510365.0	879784.8				
ICV	ICV V-187469	8	839816.3	632821.2	501127.4	860738.3				
LLICV	LLICV V-187475	9	853948.4	649395.7	515529.4	875768.0				
ICB	ICB V-187470	10	897791.6	677678.9	540044.1	921297.8				
ICSA	ICSA V-187471	11	814716.0	584330.4	482721.6	833002.3				
ICSAB	ICSAB V-187472	12	799215.6	577488.9	475711.8	819333.9				
CCV	CCV V-187473	13	844451.0	639502.0	508460.8	871754.3				
LLCCV	LLCCV V-187475	14	876419.8	669257.9	525516.9	901047.1				
CCB	CCB V-187470	15	873555.7	662172.8	529609.4	900304.9				
MB	MB 32819	16	778641.7	587186.7	467916.2	801793.5				
LCS	LCS 32819	17	797508.1	593451.8	482242.8	820668.4				
MR	LCS MR 32819	18	722676.8	537677.2	433507.7	746833.7				
SMP	AC78787-005	19	750842.8	570934.7	455509.7	778136.3				
SMP	AC78787-006	20	781209.2	581379.3	467872.0	802953.4				
SMP	AC78790-003	21	725219.3	552686.7	437427.6	748657.4				
SMP	AC78792-009	22	705900.9	533706.6	423585.9	728500.6				
SMP	AC78818-003	23	732688.4	556516.7	443627.7	752699.1				
SMP	AC78829-014	24	727170.7	551168.5	440477.1	744653.5				
SMP	RINSE	25	836451.2	638879.5	509670.5	860019.8				
CCV	CCV V-187473	26	792520.4	602323.8	482320.9	817177.6				
LLCCV	LLCCV V-187475	27	810781.2	614024.0	487449.7	832139.8				
CCB	CCB V-187470	28	816627.0	616163.3	489308.7	843522.6				
SMP	AC78793-001	29	651747.6	473058.9	406752.4	669538.6				
MR	AC78793-001	30	651038.4	482403.8	424852.0	669183.0				
SD	AC78793-001	31	775974.6	580761.3	489656.8	799584.7				
MS	AC78793-001	32	657334.8	487032.1	423874.4	673552.8				
MSD	AC78793-001	33	660531.6	494904.7	430357.9	684392.0				
PS	AC78793-001	34	655984.5	486881.3	425010.3	675813.3				
SMP	AC78787-004	35	745943.6	571520.9	466871.3	761280.4				
SMP	AC78787-009	36	758718.7	544261.6	586284.9	776607.9				
SMP	AC78787-010	37	741412.9	564364.0	462148.5	762353.0				
SMP	RINSE	38	790768.7	608368.9	487365.3	817548.4				
CCV	CCV V-187473	39	759751.3	583078.9	465665.5	788057.1				
LLCCV	LLCCV V-187475	40	799249.1	608556.8	486736.1	824288.5				
CCB	CCB V-187470	41	787380.5	609226.0	479855.3	813247.8				
SMP	AC78787-012	42	701408.0	532597.1	426244.3	720780.4				
SMP	AC78787-017	43	690499.1	516291.2	417395.4	709555.4				
SMP	AC78787-003	44	827692.6	507982.7	1316467 *	846845.6				
SMP	AC78787-011	45	866653.4	457617.1	1735740 *	886992.1				
SMP	AC78787-016	46	914288.8	450680.2	2470931 *	933797.8				
SMP	AC78787-003	47	794194.4	573977.2	638517.9	823137.9				
SMP	AC78787-003	48	779663.5	578007.2	551427.5	804090.6				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

4052101 1615

TuneID: 2

SMP	AC78787-011	49	793174.4	545112.3	723302.1	808468.8
SMP	AC78787-011	50	787218.9	565667.6	598162.7	811119.3
SMP	RINSE	51	795267.3	610192.2	491802.6	817621.4
CCV	CCV V-187473	52	766122.3	591610.8	472703.4	786272.2
LLCCV	LLCCV V-187475	53	757389.2	581554.9	468868.9	778692.2
CCB	CCB V-187470	54	792938.7	604034.6	488646.7	811959.4
SMP	AC78787-016	55	823293.8	547813.4	990621.6	* 847198.5
SMP	AC78787-016	56	805866.4	570826.8	698850.9	829398.3
SMP	RINSE	57	798235.7	611226.1	494494.4	825982.9
CCV	CCV V-187473	58	791189.1	601335.1	484675.8	813145.5
LLCCV	LLCCV V-187475	59	771762.0	591037.3	475839.6	797986.8
CCB	CCB V-187470	60	767842.3	595397.6	475058.2	798215.4

* Indicates Internal Standard Area outside of limits

C:\ICPCHEM\1\DATA\S052314B.b\001CALB.D\001CALB.D# File S052314B

Calibration Blank QC Report

B-16350
QC-32818

Data File:	C:\ICPCHEM\1\DATA\S052314B.b\001CALB.D\001CALB.D#
Date Acquired:	May 23 2014 05:49 pm
Acq. Method:	6020SOIL.M
Operator:	GK
Sample Name:	Rinse
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update:	May 23 2014 05:53 pm
Sample Type:	CalBlk

Run OK

Report All. 78790-01
2x Be

5/27/14

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	86	25.94
23	Na	45	1	137412	3.67
24	Mg	45	1	2078	9.95
27	Al	45	1	5745	3.92
39	K	45	1	42500	3.54
44	Ca	45	1	386	5.23
51	V	45	1	45	19.10
52	Cr	45	1	506	11.38
55	Mn	45	1	327	15.09
56	Fe	45	1	10927	6.94
59	Co	45	1	87	8.21
60	Ni	45	1	71	7.16
65	Cu	45	1	311	2.23
66	Zn	45	1	1577	19.22
75	As	115	1	18	19.25
78	Se	115	1	90	10.01
83	Kr	115	2	289	5.69
95	Mo	115	2	108	37.16
107	Ag	115	2	367	130.00
111	Cd	115	2	44	22.22
121	Sb	115	2	280	9.30
137	Ba	159	2	543	5.62
205	Tl	165	2	356	10.87
206	(Pb)	165	2	278	9.70
207	(Pb)	165	2	224	15.60
208	Pb	165	2	1118	7.26

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
45	Sc	1	41546	4.08
45	Sc	2	723968	1.18
115	In	1	282981	5.50
115	In	2	895772	0.76
159	Tb	1	742333	3.83
159	Tb	2	1221038	1.52
165	Ho	1	715529	3.22
165	Ho	2	1157790	1.47

6/2/14

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#
Date Acquired:	May 23 2014 05:55 pm
Acq. Method:	6020SOIL.M
Operator:	GK
Sample Name:	CalBlk V-187134
Misc Info:	MS 7500 CALIBRATION
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update:	May 23 2014 05:53 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	107	19.01
23	Na	45	1	136789	0.54
24	Mg	45	1	2365	7.76
27	Al	45	1	6432	2.48
39	K	45	1	46059	0.78
44	Ca	45	1	463	1.32
51	V	45	1	73	19.50
52	Cr	45	1	572	5.19
55	Mn	45	1	414	5.43
56	Fe	45	1	17633	9.94
59	Co	45	1	120	2.34
60	Ni	45	1	98	22.38
65	Cu	45	1	354	5.18
66	Zn	45	1	1235	8.06
75	As	115	1	25	30.35
78	Se	115	1	105	12.60
83	Kr	115	2	284	3.58
95	Mo	115	2	112	19.78
107	Ag	115	2	131	19.25
111	Cd	115	2	55	7.12
121	Sb	115	2	226	20.07
137	Ba	159	2	532	4.74
205	Tl	165	2	324	7.29
206	(Pb)	165	2	290	10.35
207	(Pb)	165	2	274	3.71
208	Pb	165	2	1298	3.49

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
45	Sc	1	44974	1.46
45	Sc	2	740888	0.82
115	In	1	315469	1.37
115	In	2	920005	1.28
159	Tb	1	799984	1.29
159	Tb	2	1242164	1.05
165	Ho	1	779743	1.65
165	Ho	2	1187929	1.22

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\noqas.u
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\S052314B.b\003CALI.D\003CALI.D#
Date Acquired:	May 23 2014 06:01 pm
Acq. Method:	6020SOIL.M
Operator:	GK
Sample Name:	CalStd1 V-187135
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update:	May 23 2014 05:59 pm
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	2086	1.77
23	Na	45	1	154881	0.20
24	Mg	45	1	27626	1.29
27	Al	45	1	7443	1.74
39	K	45	1	60979	0.57
44	Ca	45	1	1124	4.88
51	V	45	1	1405	3.83
52	Cr	45	1	2244	1.38
55	Mn	45	1	1922	2.60
56	Fe	45	1	241972	0.69
59	Co	45	1	2604	1.44
60	Ni	45	1	794	4.94
65	Cu	45	1	1121	3.32
66	Zn	45	1	929	6.24
75	As	115	1	232	11.29
78	Se	115	1	184	0.83
83	Kr	115	2	297	12.66
95	Mo	115	2	1839	2.93
107	Ag	115	2	4493	0.24
111	Cd	115	2	995	2.61
121	Sb	115	2	3851	3.06
137	Ba	159	2	3086	7.83
205	Tl	165	2	8448	1.97
206	(Pb)	165	2	3089	3.25
207	(Pb)	165	2	2560	1.58
208	Pb	165	2	12061	2.07

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	43859	2.94	44974	97.5	80 - 120	
45	Sc	2	745653	0.49	740888	100.6	80 - 120	
115	In	1	312840	2.62	315469	99.2	80 - 120	
115	In	2	919488	1.14	920005	99.9	80 - 120	
159	Tb	1	784043	2.34	799984	98.0	80 - 120	
159	Tb	2	1256125	0.44	1242164	101.1	80 - 120	
165	Ho	1	773280	2.69	779743	99.2	80 - 120	
165	Ho	2	1202726	0.71	1187929	101.2	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\S052314B.b\004CALI.D\004CALI.D#
Date Acquired:	May 23 2014 06:07 pm
Acq. Method:	6020SOIL.M
Operator:	GK
Sample Name:	CalStd2 V-187136
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update:	May 23 2014 06:05 pm
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	19986	0.84
23	Na	45	1	397635	2.48
24	Mg	45	1	168047	2.01
27	Al	45	1	28383	1.25
39	K	45	1	190633	2.01
44	Ca	45	1	7870	4.35
51	V	45	1	12491	1.72
52	Cr	45	1	15091	2.29
55	Mn	45	1	11075	1.73
56	Fe	45	1	1397153	2.90
59	Co	45	1	24128	2.66
60	Ni	45	1	6474	1.84
65	Cu	45	1	8967	3.52
66	Zn	45	1	4187	4.08
75	As	115	1	2103	2.29
78	Se	115	1	946	2.05
83	Kr	115	2	298	6.56
95	Mo	115	2	17149	1.64
107	Ag	115	2	43418	1.17
111	Cd	115	2	9192	0.83
121	Sb	115	2	36170	1.26
137	Ba	159	2	14047	2.05
205	Tl	165	2	82143	1.31
206	(Pb)	165	2	27796	1.07
207	(Pb)	165	2	24051	1.58
208	Pb	165	2	110215	0.40

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	43054	3.15	44974	95.7	80 - 120	
45	Sc	2	719303	0.65	740888	97.1	80 - 120	
115	In	1	300858	3.40	315469	95.4	80 - 120	
115	In	2	893554	1.57	920005	97.1	80 - 120	
159	Tb	1	770546	2.69	799984	96.3	80 - 120	
159	Tb	2	1210137	0.80	1242164	97.4	80 - 120	
165	Ho	1	757755	3.01	779743	97.2	80 - 120	
165	Ho	2	1162089	1.93	1187929	97.8	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\S052314B.b\005CALI.D\005CALI.D#
Date Acquired:	May 23 2014 06:13 pm
Acq. Method:	6020SOIL.M
Operator:	GK
Sample Name:	CalStd3 V-187137
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1104
Current Method:	C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update:	May 23 2014 06:11 pm
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	40049	1.88
23	Na	45	1	672754	1.53
24	Mg	45	1	331284	2.20
27	Al	45	1	63972	1.73
39	K	45	1	334796	0.95
44	Ca	45	1	15599	1.33
51	V	45	1	25169	1.26
52	Cr	45	1	29783	2.28
55	Mn	45	1	21876	3.42
56	Fe	45	1	2695899	2.36
59	Co	45	1	48047	2.63
60	Ni	45	1	12880	2.42
65	Cu	45	1	17476	3.79
66	Zn	45	1	7436	2.01
75	As	115	1	4184	2.20
78	Se	115	1	1827	1.67
83	Kr	115	2	300	9.09
95	Mo	115	2	34131	0.45
107	Ag	115	2	87330	1.11
111	Cd	115	2	18385	0.75
121	Sb	115	2	72088	1.48
137	Ba	159	2	28357	0.69
205	Tl	165	2	166135	0.35
206	(Pb)	165	2	54847	1.78
207	(Pb)	165	2	47457	1.86
208	Pb	165	2	216893	1.28

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	43354	1.24	44974	96.4	80 - 120	
45	Sc	2	722880	0.11	740888	97.6	80 - 120	
115	In	1	304498	0.97	315469	96.5	80 - 120	
115	In	2	893005	0.51	920005	97.1	80 - 120	
159	Tb	1	775191	1.13	799984	96.9	80 - 120	
159	Tb	2	1208385	1.08	1242164	97.3	80 - 120	
165	Ho	1	758221	0.52	779743	97.2	80 - 120	
165	Ho	2	1158521	0.93	1187929	97.5	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\S052314B.b\006CALI.D\006CALI.D#
Date Acquired:	May 23 2014 06:19 pm
Acq. Method:	6020SOIL.M
Operator:	GK
Sample Name:	CalStd4 V-187138
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update:	May 23 2014 06:17 pm
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	208146	0.85
23	Na	45	1	2907395	0.69
24	Mg	45	1	1602615	1.78
27	Al	45	1	267892	2.75
39	K	45	1	1549608	1.07
44	Ca	45	1	75338	2.15
51	V	45	1	123886	1.44
52	Cr	45	1	143671	2.85
55	Mn	45	1	104959	1.71
56	Fe	45	1	12864440	2.23
59	Co	45	1	234916	2.33
60	Ni	45	1	63198	1.61
65	Cu	45	1	84309	1.57
66	Zn	45	1	31721	1.22
75	As	115	1	20497	1.72
78	Se	115	1	8765	1.73
83	Kr	115	2	272	6.16
95	Mo	115	2	176947	0.59
107	Ag	115	2	444979	0.60
111	Cd	115	2	93577	0.56
121	Sb	115	2	368506	0.48
137	Ba	159	2	143741	1.06
205	Tl	165	2	847059	0.14
206	(Pb)	165	2	278174	1.38
207	(Pb)	165	2	241848	1.75
208	Pb	165	2	1110007	1.09

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	43509	1.17	44974	96.7	80 - 120	
45	Sc	2	743913	0.18	740888	100.4	80 - 120	
115	In	1	304024	0.81	315469	96.4	80 - 120	
115	In	2	903965	1.06	920005	98.3	80 - 120	
159	Tb	1	772492	1.01	799984	96.6	80 - 120	
159	Tb	2	1257694	0.03	1242164	101.3	80 - 120	
165	Ho	1	762761	0.31	779743	97.8	80 - 120	
165	Ho	2	1195987	0.25	1187929	100.7	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\S052314B.b\007CALI.D\007CALI.D#
Date Acquired:	May 23 2014 06:24 pm
Acq. Method:	6020SOIL.M
Operator:	GK
Sample Name:	CalStd5 V-187139
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1106
Current Method:	C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update:	May 23 2014 06:23 pm
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	405291	0.62
23	Na	45	1	5725730	1.06
24	Mg	45	1	3231642	1.02
27	Al	45	1	543780	0.50
39	K	45	1	2999897	1.62
44	Ca	45	1	152160	0.95
51	V	45	1	252457	0.86
52	Cr	45	1	290254	0.89
55	Mn	45	1	212892	1.24
56	Fe	45	1	25790070	1.40
59	Co	45	1	475384	0.91
60	Ni	45	1	126566	0.22
65	Cu	45	1	169764	1.58
66	Zn	45	1	62648	1.33
75	As	115	1	41945	1.72
78	Se	115	1	17257	1.61
83	Kr	115	2	278	10.21
95	Mo	115	2	345015	0.26
107	Ag	115	2	871764	0.55
111	Cd	115	2	182980	1.59
121	Sb	115	2	722950	1.36
137	Ba	159	2	278824	0.22
205	Tl	165	2	1767373	0.19
206	(Pb)	165	2	542972	0.68
207	(Pb)	165	2	471240	0.80
208	Pb	165	2	2260007	0.95

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	44055	1.84	44974	98.0	80 - 120	
45	Sc	2	733514	1.30	740888	99.0	80 - 120	
115	In	1	310603	1.99	315469	98.5	80 - 120	
115	In	2	895901	0.05	920005	97.4	80 - 120	
159	Tb	1	795754	1.48	799984	99.5	80 - 120	
159	Tb	2	1247946	1.25	1242164	100.5	80 - 120	
165	Ho	1	781826	1.07	779743	100.3	80 - 120	
165	Ho	2	1175352	0.44	1187929	98.9	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\008_ICV.D\008_ICV.D#
Date Acquired: May 23 2014 06:30 pm
Operator: GK
Sample Name: ICV V-187140
Misc Info: MS_7500 6020 SOIL
Vial Number: 1109
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: 6-ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	50.96	ppb	0.89	211178	50	101.9	90 - 110	
23 Na	45	1	5291.00	ppb	1.67	3022555	5000	105.8	90 - 110	
24 Mg	45	1	5288.00	ppb	1.65	1671941	5000	105.8	90 - 110	
27 Al	45	1	5135.00	ppb	0.82	902570	5000	102.7	90 - 110	
39 K	45	1	5349.00	ppb	0.83	1597670	5000	107.0	90 - 110	
44 Ca	45	1	5142.00	ppb	0.55	76642	5000	102.8	90 - 110	
51 V	45	1	52.61	ppb	0.85	129605	50	105.2	90 - 110	
52 Cr	45	1	51.53	ppb	1.19	146408	50	103.1	90 - 110	
55 Mn	45	1	51.65	ppb	1.25	107544	50	103.3	90 - 110	
56 Fe	45	1	5035.00	ppb	1.05	12722740	5000	100.7	90 - 110	
59 Co	45	1	51.14	ppb	0.70	237604	50	102.3	90 - 110	
60 Ni	45	1	52.04	ppb	0.88	64520	50	104.1	90 - 110	
65 Cu	45	1	51.82	ppb	1.25	86248	50	103.6	90 - 110	
66 Zn	45	1	51.54	ppb	1.15	32152	50	103.1	90 - 110	
75 As	115	1	51.57	ppb	1.57	21172	50	103.1	90 - 110	
78 Se	115	1	53.03	ppb	1.43	1939	50	106.1	90 - 110	
83 Kr	115	2	--------	ppb	-------	283	50	#VALUE!	##### - #####	
95 Mo	115	2	49.32	ppb	1.57	174128	50	98.6	90 - 110	
107 Ag	115	2	10.30	ppb	2.14	91895	10	103.0	90 - 110	
111 Cd	115	2	50.36	ppb	1.25	94260	50	100.7	90 - 110	
121 Sb	115	2	47.88	ppb	1.29	353844	50	95.8	90 - 110	
137 Ba	159	2	50.51	ppb	0.46	142546	50	101.0	90 - 110	
205 Tl	165	2	46.65	ppb	1.27	832926	50	93.3	90 - 110	
206 (Pb)	165	2	51.24	ppb	0.56	284959	50	102.5	90 - 110	
207 (Pb)	165	2	50.61	ppb	1.01	244352	50	101.2	90 - 110	
208 Pb	165	2	49.01	ppb	0.44	1124623	50	98.0	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	43027	1.28	44974	95.7	80 - 120	
45 Sc	2	747866	0.31	740888	100.9	80 - 120	
115 In	1	303882	1.62	315469	96.3	80 - 120	
115 In	2	913680	0.46	920005	99.3	80 - 120	
159 Tb	1	780394	1.06	799984	97.6	80 - 120	
159 Tb	2	1255125	0.69	1242164	101.0	80 - 120	
165 Ho	1	768795	1.90	779743	98.6	80 - 120	
165 Ho	2	1201504	0.51	1187929	101.1	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\009_CCV.D\009_CCV.D#
Date Acquired: May 23 2014 06:36 pm
Operator: GK
Sample Name: LLICV V-187145
Misc Info: MS_7500 6020 SOIL
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: LL-ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.93	ppb	1.29	3976	1	93.5	70 - 130	
23 Na	45	1	460.80	ppb	1.66	395030	500	92.2	70 - 130	
24 Mg	45	1	495.70	ppb	1.45	163854	500	99.1	70 - 130	
27 Al	45	1	464.90	ppb	0.68	90109	500	93.0	70 - 130	
39 K	45	1	472.60	ppb	1.01	187134	500	94.5	70 - 130	
44 Ca	45	1	483.50	ppb	0.73	7851	500	96.7	70 - 130	
51 V	45	1	0.97	ppb	2.61	2524	1	96.5	70 - 130	
52 Cr	45	1	1.96	ppb	0.91	6301	2	98.2	70 - 130	
55 Mn	45	1	5.74	ppb	0.67	12698	6	95.7	70 - 130	
56 Fe	45	1	508.70	ppb	1.13	1342274	500	101.7	70 - 130	
59 Co	45	1	1.97	ppb	0.88	9544	2	98.4	70 - 130	
60 Ni	45	1	2.91	ppb	1.03	3810	3	96.9	70 - 130	
65 Cu	45	1	9.65	ppb	1.54	17021	10	96.5	70 - 130	
66 Zn	45	1	19.05	ppb	0.54	13034	20	95.3	70 - 130	
75 As	115	1	0.95	ppb	1.35	425	1	94.6	70 - 130	
78 Se	115	1	8.65	ppb	11.43	459	10	86.5	70 - 130	
83 Kr	115	2	--------	ppb	--------	281	1	#VALUE!	##### - #####	
95 Mo	115	2	0.98	ppb	1.75	3565	1	97.6	70 - 130	
107 Ag	115	2	0.96	ppb	2.91	8697	1	95.9	70 - 130	
111 Cd	115	2	1.91	ppb	1.63	3631	2	95.3	70 - 130	
121 Sb	115	2	4.00	ppb	0.96	29877	4	100.1	70 - 130	
137 Ba	159	2	5.11	ppb	2.37	14734	5	102.3	70 - 130	
205 Tl	165	2	1.81	ppb	1.05	32053	2	90.4	70 - 130	
206 (Pb)	165	2	1.91	ppb	3.40	10694	2	95.3	70 - 130	
207 (Pb)	165	2	1.90	ppb	4.08	9295	2	95.2	70 - 130	
208 Pb	165	2	1.84	ppb	2.50	42830	2	92.2	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	44407	1.54	44974	98.7	80 - 120	
45 Sc	2	747283	0.57	740888	100.9	80 - 120	
115 In	1	313142	1.93	315469	99.3	80 - 120	
115 In	2	916495	0.34	920005	99.6	80 - 120	
159 Tb	1	800430	0.69	799984	100.1	80 - 120	
159 Tb	2	1240136	1.02	1242164	99.8	80 - 120	
165 Ho	1	780964	1.81	779743	100.2	80 - 120	
165 Ho	2	1181271	1.06	1187929	99.4	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\010_ICB.D\010_ICB.D#
Date Acquired: May 23 2014 06:42 pm
Operator: GK
Sample Name: ICB V-187141
Misc Info: MS_7500 6020 SOIL
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: 6-ICB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.00	ppb	59.91	94	1.00	
23 Na	45	1	-25.05	ppb	6.35	121627	500.00	
24 Mg	45	1	-4.02	ppb	7.85	1030	500.00	
27 Al	45	1	-33.12	ppb	0.54	384	500.00	
39 K	45	1	-9.02	ppb	10.78	43020	500.00	
44 Ca	45	1	-20.13	ppb	4.95	150	500.00	
51 V	45	1	-0.01	ppb	37.51	48	1.00	
52 Cr	45	1	-0.07	ppb	6.49	355	2.00	
55 Mn	45	1	-0.11	ppb	8.05	180	6.00	
56 Fe	45	1	-2.47	ppb	11.83	11024	500.00	
59 Co	45	1	-0.01	ppb	22.35	80	2.00	
60 Ni	45	1	-0.04	ppb	5.02	44	3.00	
65 Cu	45	1	-0.21	ppb	3.99	196	10.00	
66 Zn	45	1	-1.72	ppb	1.48	156	20.00	
75 As	115	1	-0.01	ppb	36.22	20	1.00	
78 Se	115	1	-1.50	ppb	8.41	108	10.00	
83 Kr	115	2	--------	ppb	--------	302	1.00	
95 Mo	115	2	0.00	ppb	1446.80	114	1.00	
107 Ag	115	2	0.00	ppb	31.04	87	1.00	
111 Cd	115	2	-0.01	ppb	37.38	44	2.00	
121 Sb	115	2	0.05	ppb	8.85	568	4.00	
137 Ba	159	2	-0.16	ppb	4.65	89	5.00	
205 Tl	165	2	0.00	ppb	71.21	302	2.00	
206 (Pb)	165	2	-0.03	ppb	5.90	150	2.00	
207 (Pb)	165	2	-0.03	ppb	17.62	137	2.00	
208 Pb	165	2	-0.03	ppb	5.93	660	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	44655	1.01	44974	99.3	80 - 120	
45 Sc	2	736704	1.52	740888	99.4	80 - 120	
115 In	1	314842	1.89	315469	99.8	80 - 120	
115 In	2	919763	1.05	920005	100.0	80 - 120	
159 Tb	1	796228	0.46	799984	99.5	80 - 120	
159 Tb	2	1240890	0.55	1242164	99.9	80 - 120	
165 Ho	1	785224	1.09	779743	100.7	80 - 120	
165 Ho	2	1184876	0.72	1187929	99.7	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\011ICSA.D\011ICSA.D#
Date Acquired: May 23 2014 06:48 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: ICSA V-187142
Misc Info: MS_7500 6020 SOIL
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: 6-ICSA
Dilution Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
9	Be	45	2	0.02 ppb	14.07	1.00	
23	Na	45	1	118200.00 ppb	1.10	500.00	
24	Mg	45	1	46130.00 ppb	1.21	500.00	
27	Al	45	1	47500.00 ppb	0.83	500.00	
39	K	45	1	46990.00 ppb	1.35	500.00	
44	Ca	45	1	151900.00 ppb	1.18	500.00	
51	V	45	1	0.04 ppb	6.99	1.00	
52	Cr	45	1	0.72 ppb	5.18	2.00	
55	Mn	45	1	4.31 ppb	0.68	6.00	
56	Fe	45	1	119100.00 ppb	0.86	500.00	
59	Co	45	1	1.82 ppb	2.45	2.00	
60	Ni	45	1	3.16 ppb	1.63	3.00	**
65	Cu	45	1	1.22 ppb	6.62	10.00	
66	Zn	45	1	0.78 ppb	5.99	20.00	
75	As	115	1	0.26 ppb	7.62	1.00	
78	Se	115	1	-1.55 ppb	16.08	10.00	
83	Kr	115	2	-------- ppb	--------	1.00	
95	Mo	115	2	1027.00 ppb	0.69	1.00	
107	Ag	115	2	0.03 ppb	16.72	1.00	
111	Cd	115	2	0.99 ppb	2.89	2.00	
121	Sb	115	2	0.30 ppb	1.77	4.00	
137	Ba	159	2	0.88 ppb	2.03	5.00	
205	Tl	165	2	0.03 ppb	3.57	2.00	
206	(Pb)	165	2	0.21 ppb	5.55	2.00	
207	(Pb)	165	2	0.20 ppb	4.09	2.00	
208	Pb	165	2	0.20 ppb	7.32	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	39676	0.55	44974	88.2	70 - 150	
45	Sc	2	656414	1.18	740888	88.6	70 - 150	
115	In	1	274236	1.53	315469	86.9	70 - 150	
115	In	2	789908	1.60	920005	85.9	70 - 150	
159	Tb	1	738370	0.18	799984	92.3	70 - 150	
159	Tb	2	1146890	1.83	1242164	92.3	70 - 150	
165	Ho	1	733281	1.01	779743	94.0	70 - 150	
165	Ho	2	1086428	4.61	1187929	91.5	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\012ICSB.D\012ICSB.D#
Date Acquired: May 23 2014 06:54 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: ICSAB V-187143
Misc Info: MS_7500 6020 SOIL
Vial Number: 1108
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: 6-ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9 Be	45	2	0.00	110.55	---		-	
23 Na	45	1	118400.00	0.68	---		-	
24 Mg	45	1	45630.00	0.17	---		-	
27 Al	45	1	47020.00	1.17	---		-	
39 K	45	1	47270.00	0.33	---		-	
44 Ca	45	1	151000.00	0.34	---		-	
51 V	45	1	195.90	0.06	200	98.0	80 - 120	
52 Cr	45	1	190.10	0.61	200	95.1	80 - 120	
55 Mn	45	1	192.80	0.95	200	96.4	80 - 120	
56 Fe	45	1	119700.00	0.49	---		-	
59 Co	45	1	190.70	0.59	200	95.4	80 - 120	
60 Ni	45	1	185.70	0.57	200	92.9	80 - 120	
65 Cu	45	1	184.50	0.25	---		-	
66 Zn	45	1	94.22	0.56	100	94.2	80 - 120	
75 As	115	1	101.50	0.67	100	101.5	80 - 120	
78 Se	115	1	98.14	2.92	100	98.1	80 - 120	
83 Kr	115	2	----------	----------	---		-	
95 Mo	115	2	1001.00	0.64	---		-	
107 Ag	115	2	46.98	0.92	50	94.0	80 - 120	
111 Cd	115	2	95.85	0.61	100	95.9	80 - 120	
121 Sb	115	2	0.28	2.85	---		-	
137 Ba	159	2	0.91	5.06	---		-	
205 Tl	165	2	0.02	20.55	---		-	
206 (Pb)	165	2	0.21	3.67	---		-	
207 (Pb)	165	2	0.18	3.06	---		-	
208 Pb	165	2	0.19	3.28	---		-	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	40904	1.17	44974	91.0	70 - 150	
45 Sc	2	698774	0.67	740888	94.3	70 - 150	
115 In	1	283639	0.90	315469	89.9	70 - 150	
115 In	2	833065	0.21	920005	90.6	70 - 150	
159 Tb	1	768463	0.72	799984	96.1	70 - 150	
159 Tb	2	1196625	0.30	1242164	96.3	70 - 150	
165 Ho	1	760791	2.04	779743	97.6	70 - 150	
165 Ho	2	1153919	1.57	1187929	97.1	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\013_CCV.D\013_CCV.D#
Date Acquired: May 23 2014 06:59 pm
Operator: GK
Sample Name: CCV V-187144
Misc Info: MS_7500 6020 SOIL
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	48.22	ppb	0.47	199875	50	96.4	90 - 110	
23 Na	45	1	5112.00	ppb	1.39	2984060	5000	102.2	90 - 110	
24 Mg	45	1	5064.00	ppb	1.42	1633636	5000	101.3	90 - 110	
27 Al	45	1	1494.00	ppb	0.80	272461	1500	99.6	90 - 110	
39 K	45	1	5176.00	ppb	1.18	1578464	5000	103.5	90 - 110	
44 Ca	45	1	5114.00	ppb	1.34	77751	5000	102.3	90 - 110	
51 V	45	1	50.94	ppb	1.26	128028	50	101.9	90 - 110	
52 Cr	45	1	51.09	ppb	0.77	148108	50	102.2	90 - 110	
55 Mn	45	1	50.73	ppb	1.01	107765	50	101.5	90 - 110	
56 Fe	45	1	5148.00	ppb	1.16	13271970	5000	103.0	90 - 110	
59 Co	45	1	51.53	ppb	0.73	244256	50	103.1	90 - 110	
60 Ni	45	1	51.88	ppb	2.05	65619	50	103.8	90 - 110	
65 Cu	45	1	52.01	ppb	1.44	88294	50	104.0	90 - 110	
66 Zn	45	1	51.23	ppb	0.49	32614	50	102.5	90 - 110	
75 As	115	1	50.29	ppb	0.71	21221	50	100.6	90 - 110	
78 Se	115	1	253.70	ppb	0.96	8931	250	101.5	90 - 110	
83 Kr	115	2	--------	ppb	--------	284	50	#VALUE!	##### - #####	
95 Mo	115	2	49.96	ppb	1.62	176787	50	99.9	90 - 110	
107 Ag	115	2	50.71	ppb	1.01	452981	50	101.4	90 - 110	
111 Cd	115	2	50.60	ppb	0.70	94907	50	101.2	90 - 110	
121 Sb	115	2	49.84	ppb	0.56	369111	50	99.7	90 - 110	
137 Ba	159	2	50.83	ppb	0.68	142528	50	101.7	90 - 110	
205 Tl	165	2	47.67	ppb	1.71	845031	50	95.3	90 - 110	
206 (Pb)	165	2	49.94	ppb	1.03	275769	50	99.9	90 - 110	
207 (Pb)	165	2	49.71	ppb	0.62	238315	50	99.4	90 - 110	
208 Pb	165	2	48.03	ppb	1.02	1094491	50	96.1	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	43897	1.84	44974	97.6	80 - 120	
45 Sc	2	748067	0.98	740888	101.0	80 - 120	
115 In	1	312320	1.80	315469	99.0	80 - 120	
115 In	2	915710	0.87	920005	99.5	80 - 120	
159 Tb	1	808737	1.75	799984	101.1	80 - 120	
159 Tb	2	1247040	0.37	1242164	100.4	80 - 120	
165 Ho	1	787884	1.90	779743	101.0	80 - 120	
165 Ho	2	1193048	0.90	1187929	100.4	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\014_CCV.D\014_CCV.D#
Date Acquired: May 23 2014 07:05 pm
Operator: GK
Sample Name: LLCCV V-187145
Misc Info: MS_7500 6020 SOIL
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: LL-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.92	ppb	4.68	4069	1	92.0	70 - 130	
23 Na	45	1	461.40	ppb	0.08	400147	500	92.3	70 - 130	
24 Mg	45	1	496.90	ppb	1.10	166261	500	99.4	70 - 130	
27 Al	45	1	457.80	ppb	2.22	89919	500	91.6	70 - 130	
39 K	45	1	468.60	ppb	0.83	188196	500	93.7	70 - 130	
44 Ca	45	1	483.00	ppb	1.15	7940	500	96.6	70 - 130	
51 V	45	1	0.97	ppb	2.45	2560	1	96.7	70 - 130	
52 Cr	45	1	1.95	ppb	2.24	6323	2	97.3	70 - 130	
55 Mn	45	1	5.69	ppb	2.29	12735	6	94.8	70 - 130	
56 Fe	45	1	519.40	ppb	1.11	1387100	500	103.9	70 - 130	
59 Co	45	1	1.99	ppb	0.44	9774	2	99.5	70 - 130	
60 Ni	45	1	2.87	ppb	0.72	3810	3	95.7	70 - 130	
65 Cu	45	1	9.76	ppb	0.76	17427	10	97.6	70 - 130	
66 Zn	45	1	19.24	ppb	1.19	13312	20	96.2	70 - 130	
75 As	115	1	0.98	ppb	7.36	450	1	98.0	70 - 130	
78 Se	115	1	8.90	ppb	4.27	480	10	89.0	70 - 130	
83 Kr	115	2	--------	ppb	--------	284	1	#VALUE!	##### - #####	
95 Mo	115	2	1.08	ppb	4.98	4019	1	107.8	70 - 130	
107 Ag	115	2	0.97	ppb	2.69	8969	1	96.6	70 - 130	
111 Cd	115	2	1.85	ppb	1.50	3605	2	92.4	70 - 130	
121 Sb	115	2	3.77	ppb	1.25	28805	4	94.3	70 - 130	
137 Ba	159	2	4.99	ppb	2.37	14801	5	99.9	70 - 130	
205 Tl	165	2	1.78	ppb	1.60	32275	2	88.9	70 - 130	
206 (Pb)	165	2	1.90	ppb	2.67	10950	2	95.2	70 - 130	
207 (Pb)	165	2	1.89	ppb	4.00	9444	2	94.4	70 - 130	
208 Pb	165	2	1.83	ppb	2.12	43512	2	91.4	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	44944	0.47	44974	99.9	80 - 120	
45 Sc	2	777700	4.63	740888	105.0	80 - 120	
115 In	1	320787	0.84	315469	101.7	80 - 120	
115 In	2	937807	1.00	920005	101.9	80 - 120	
159 Tb	1	821914	1.01	799984	102.7	80 - 120	
159 Tb	2	1274809	1.99	1242164	102.6	80 - 120	
165 Ho	1	798849	0.68	779743	102.5	80 - 120	
165 Ho	2	1210144	1.18	1187929	101.9	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\015_CCB.D\015_CCB.D#
Date Acquired: May 23 2014 07:11 pm
Operator: GK
Sample Name: CCB V-187141
Misc Info: MS_7500 6020 SOIL
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	-0.002	ppb	339.03	97	1.00	
23 Na	45	1	-14.810	ppb	16.49	126452	500.00	
24 Mg	45	1	-0.617	ppb	97.28	2129	500.00	
27 Al	45	1	-30.490	ppb	0.98	854	500.00	
39 K	45	1	-4.900	ppb	37.98	43921	500.00	
44 Ca	45	1	-11.400	ppb	9.79	282	500.00	
51 V	45	1	-0.002	ppb	41.51	67	1.00	
52 Cr	45	1	-0.063	ppb	17.01	379	2.00	
55 Mn	45	1	-0.087	ppb	10.53	222	6.00	
56 Fe	45	1	4.401	ppb	14.07	28809	500.00	
59 Co	45	1	0.003	ppb	125.01	133	2.00	
60 Ni	45	1	-0.033	ppb	18.13	54	3.00	
65 Cu	45	1	-0.186	ppb	10.26	239	10.00	
66 Zn	45	1	-1.595	ppb	3.59	229	20.00	
75 As	115	1	-0.005	ppb	249.45	23	1.00	
78 Se	115	1	-1.585	ppb	23.91	106	10.00	
83 Kr	115	2	--------	ppb	--------	261	1.00	
95 Mo	115	2	0.062	ppb	16.90	331	1.00	
107 Ag	115	2	-0.002	ppb	71.18	109	1.00	
111 Cd	115	2	-0.001	ppb	412.47	53	2.00	
121 Sb	115	2	0.005	ppb	30.13	262	4.00	
137 Ba	159	2	-0.152	ppb	4.79	111	5.00	
205 Tl	165	2	0.001	ppb	141.09	348	2.00	
206 (Pb)	165	2	-0.019	ppb	24.62	183	2.00	
207 (Pb)	165	2	-0.028	ppb	15.11	139	2.00	
208 Pb	165	2	-0.024	ppb	4.57	743	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	44311	0.86	44974	98.5	80 - 120	
45 Sc	2	735357	0.61	740888	99.3	80 - 120	
115 In	1	317032	0.66	315469	100.5	80 - 120	
115 In	2	917997	0.59	920005	99.8	80 - 120	
159 Tb	1	808944	0.33	799984	101.1	80 - 120	
159 Tb	2	1249073	1.14	1242164	100.6	80 - 120	
165 Ho	1	782066	1.09	779743	100.3	80 - 120	
165 Ho	2	1185751	0.73	1187929	99.8	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\016SMPL.D\016SMPL.D#
Date Acquired: May 23 2014 07:17 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: MB 32818
Misc Info: MS_7500 6020 SOIL
Vial Number: 1501
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	-0.01	-0.01	ppb	48.27	69	2700	
23 Na	45	1	65.92	65.92	ppb	4.74	155855	225000	
24 Mg	45	1	1.76	1.76	ppb	31.54	2631	225000	
27 Al	45	1	-27.15	-27.15	ppb	1.07	1320	67500	
39 K	45	1	15.75	15.75	ppb	14.18	45420	225000	
44 Ca	45	1	71.22	71.22	ppb	7.17	1399	225000	
51 V	45	1	0.00	0.00	ppb	423.36	66	2700	
52 Cr	45	1	0.04	0.04	ppb	23.04	611	2700	
55 Mn	45	1	0.33	0.33	ppb	1.92	1016	2700	
56 Fe	45	1	2.78	2.78	ppb	17.09	22283	202500	
59 Co	45	1	0.01	0.01	ppb	29.30	133	2700	
60 Ni	45	1	0.01	0.01	ppb	75.16	98	2700	
65 Cu	45	1	0.17	0.17	ppb	6.63	761	2700	
66 Zn	45	1	7.81	7.81	ppb	3.22	5486	2700	
75 As	115	1	0.00	0.00	ppb	348.07	25	2250	
78 Se	115	1	-1.25	-1.25	ppb	11.05	106	2700	
83 Kr	115	2	----	--------	ppb	--------	276	2700	
95 Mo	115	2	0.03	0.03	ppb	20.83	197	2700	
107 Ag	115	2	-0.01	-0.01	ppb	5.53	51	900	
111 Cd	115	2	0.00	0.00	ppb	153.11	46	2700	
121 Sb	115	2	0.00	0.00	ppb	59.72	227	1125	
137 Ba	159	2	-0.04	-0.04	ppb	15.64	386	1350	
205 Tl	165	2	0.00	0.00	ppb	119.55	279	900	
206 (Pb)	165	2	0.03	0.03	ppb	13.69	429	2700	
207 (Pb)	165	2	0.02	0.02	ppb	65.12	344	2700	
208 Pb	165	2	0.03	0.03	ppb	32.82	1736	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	40175	0.80	44974	89.3	70 - 150	
45 Sc	2	677850	0.68	740888	91.5	70 - 150	
115 In	1	286559	1.13	315469	90.8	70 - 150	
115 In	2	825742	0.48	920005	89.8	70 - 150	
159 Tb	1	734272	1.38	799984	91.8	70 - 150	
159 Tb	2	1133941	0.45	1242164	91.3	70 - 150	
165 Ho	1	714145	0.73	779743	91.6	70 - 150	
165 Ho	2	1076867	3.36	1187929	90.7	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\017SMPL.D\017SMPL.D#
Date Acquired: May 23 2014 07:23 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: LCS 32818
Misc Info: MS_7500 6020 SOIL
Vial Number: 1502
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	60.66	60.66	ppb	0.83	243545	2700	
23 Na	45	1	1,290.00	1290.00	ppb	1.26	851241	225000	
24 Mg	45	1	2,939.00	2939.00	ppb	1.11	947153	225000	
27 Al	45	1	7,112.00	7112.00	ppb	0.86	1270348	67500	
39 K	45	1	2,523.00	2523.00	ppb	0.78	790996	225000	
44 Ca	45	1	8,713.00	8713.00	ppb	1.22	131902	225000	
51 V	45	1	163.20	163.20	ppb	0.72	409069	2700	
52 Cr	45	1	90.10	90.10	ppb	1.54	260207	2700	
55 Mn	45	1	452.60	452.60	ppb	1.18	956383	2700	
56 Fe	45	1	10,420.00	10420.00	ppb	1.17	26794130	202500	
59 Co	45	1	236.80	236.80	ppb	1.46	1119741	2700	
60 Ni	45	1	256.20	256.20	ppb	1.21	323074	2700	
65 Cu	45	1	281.50	281.50	ppb	1.60	474571	2700	
66 Zn	45	1	143.10	143.10	ppb	0.95	88736	2700	
75 As	115	1	102.90	102.90	ppb	0.46	41020	2250	
78 Se	115	1	145.60	145.60	ppb	0.50	4909	2700	
83 Kr	115	2	----	--------	ppb	--------	284	2700	
95 Mo	115	2	108.90	108.90	ppb	0.67	356064	2700	
107 Ag	115	2	60.46	60.46	ppb	0.11	499239	900	
111 Cd	115	2	160.20	160.20	ppb	0.34	277737	2700	
121 Sb	115	2	31.16	31.16	ppb	0.75	213427	1125	
137 Ba	159	2	248.00	248.00	ppb	0.37	657963	1350	
205 Tl	165	2	166.80	166.80	ppb	1.18	2818176	900	
206 (Pb)	165	2	116.60	116.60	ppb	0.36	613318	2700	
207 (Pb)	165	2	109.40	109.40	ppb	0.38	499768	2700	
208 Pb	165	2	113.10	113.10	ppb	0.94	2454711	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	43806	0.14	44974	97.4	70 - 150	
45 Sc	2	724664	1.50	740888	97.8	70 - 150	
115 In	1	295105	1.02	315469	93.5	70 - 150	
115 In	2	846497	1.23	920005	92.0	70 - 150	
159 Tb	1	766169	1.00	799984	95.8	70 - 150	
159 Tb	2	1183359	1.11	1242164	95.3	70 - 150	
165 Ho	1	750788	0.78	779743	96.3	70 - 150	
165 Ho	2	1137479	0.99	1187929	95.8	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\018SMPL.D\018SMPL.D#
Date Acquired: May 23 2014 07:29 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: LCS MR 32818
Misc Info: MS_7500 6020 SOIL
Vial Number: 1503
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	53.00	53.00	ppb	2.78	215705	2700	
23 Na	45	1	1,415.00	1415.00	ppb	1.20	918505	225000	
24 Mg	45	1	2,601.00	2601.00	ppb	0.93	836810	225000	
27 Al	45	1	6,192.00	6192.00	ppb	1.09	1104528	67500	
39 K	45	1	2,225.00	2225.00	ppb	0.55	701341	225000	
44 Ca	45	1	7,689.00	7689.00	ppb	1.00	116204	225000	
51 V	45	1	146.60	146.60	ppb	0.53	366789	2700	
52 Cr	45	1	81.44	81.44	ppb	0.78	234761	2700	
55 Mn	45	1	397.90	397.90	ppb	0.83	839088	2700	
56 Fe	45	1	9,129.00	9129.00	ppb	0.89	23423640	202500	
59 Co	45	1	204.90	204.90	ppb	2.82	966930	2700	
60 Ni	45	1	231.40	231.40	ppb	0.75	291137	2700	
65 Cu	45	1	257.90	257.90	ppb	1.20	433945	2700	
66 Zn	45	1	122.80	122.80	ppb	0.81	76164	2700	
75 As	115	1	91.99	91.99	ppb	0.14	36710	2250	
78 Se	115	1	128.80	128.80	ppb	0.43	4366	2700	
83 Kr	115	2	----	--------	ppb	--------	336	2700	
95 Mo	115	2	97.87	97.87	ppb	1.07	323060	2700	
107 Ag	115	2	60.44	60.44	ppb	1.98	503653	900	
111 Cd	115	2	143.60	143.60	ppb	1.36	251180	2700	
121 Sb	115	2	29.08	29.08	ppb	2.01	201046	1125	
137 Ba	159	2	212.60	212.60	ppb	1.06	561153	1350	
205 Tl	165	2	148.20	148.20	ppb	0.25	2488243	900	
206 (Pb)	165	2	103.60	103.60	ppb	0.09	541910	2700	
207 (Pb)	165	2	98.15	98.15	ppb	0.98	445540	2700	
208 Pb	165	2	99.15	99.15	ppb	1.31	2139296	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	43713	0.63	44974	97.2	70 - 150	
45 Sc	2	734686	1.46	740888	99.2	70 - 150	
115 In	1	295521	0.66	315469	93.7	70 - 150	
115 In	2	854616	2.25	920005	92.9	70 - 150	
159 Tb	1	770576	0.53	799984	96.3	70 - 150	
159 Tb	2	1177217	2.45	1242164	94.8	70 - 150	
165 Ho	1	758397	0.28	779743	97.3	70 - 150	
165 Ho	2	1130269	1.84	1187929	95.1	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\019SMPL.D\019SMPL.D#
Date Acquired: May 23 2014 07:34 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-015
Misc Info: MS_7500 6020 SOIL
Vial Number: 1504
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.97	0.97	ppb	3.60	4748	2700	
23 Na	45	1	1,153.00	1153.00	ppb	1.77	854194	225000	
24 Mg	45	1	15,470.00	15470.00	ppb	0.84	5485012	225000	
27 Al	45	1	19,550.00	19550.00	ppb	0.80	3838409	67500	
39 K	45	1	2,696.00	2696.00	ppb	0.67	928423	225000	
44 Ca	45	1	90,690.00	90690.00	ppb	0.27	1508862	225000	
51 V	45	1	44.62	44.62	ppb	1.18	123368	2700	
52 Cr	45	1	43.40	43.40	ppb	0.40	138518	2700	
55 Mn	45	1	767.80	767.80	ppb	0.96	1788365	2700	
56 Fe	45	1	30,060.00	30060.00	ppb	1.04	85166040	202500	
59 Co	45	1	14.27	14.27	ppb	0.89	74481	2700	
60 Ni	45	1	57.55	57.55	ppb	1.40	80086	2700	
65 Cu	45	1	67.16	67.16	ppb	2.10	125266	2700	
66 Zn	45	1	234.60	234.60	ppb	0.24	159583	2700	
75 As	115	1	62.05	62.05	ppb	0.71	24701	2250	
78 Se	115	1	1.42	1.42	ppb	39.09	196	2700	
83 Kr	115	2	----	--------	ppb	--------	346	2700	
95 Mo	115	2	2.59	2.59	ppb	0.93	8460	2700	
107 Ag	115	2	0.36	0.36	ppb	4.25	3026	900	
111 Cd	115	2	0.45	0.45	ppb	1.34	813	2700	
121 Sb	115	2	1.05	1.05	ppb	3.00	7339	1125	
137 Ba	159	2	345.50	345.50	ppb	0.82	917666	1350	
205 Tl	165	2	0.29	0.29	ppb	1.69	5274	900	
206 (Pb)	165	2	1,000.00	1000.00	ppb	0.31	5246364	2700	
207 (Pb)	165	2	936.80	936.80	ppb	0.19	4265955	2700	
208 Pb	165	2	922.60	922.60	ppb	0.32	19966540	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	48294	1.13	44974	107.4	70 - 150	
45 Sc	2	865185	1.21	740888	116.8	70 - 150	
115 In	1	294723	1.00	315469	93.4	70 - 150	
115 In	2	837263	0.75	920005	91.0	70 - 150	
159 Tb	1	783950	0.65	799984	98.0	70 - 150	
159 Tb	2	1184967	1.05	1242164	95.4	70 - 150	
165 Ho	1	767507	1.04	779743	98.4	70 - 150	
165 Ho	2	1134292	0.81	1187929	95.5	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\020SMPL.D\020SMPL.D#
Date Acquired: May 23 2014 07:40 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-015 MR
Misc Info: MS_7500 6020 SOIL
Vial Number: 1505
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.05	1.05	ppb	2.14	4938	2700	
23 Na	45	1	1,572.00	1572.00	ppb	0.77	1096917	225000	
24 Mg	45	1	17,860.00	17860.00	ppb	2.04	6249968	225000	
27 Al	45	1	20,990.00	20990.00	ppb	2.55	4066667	67500	
39 K	45	1	3,083.00	3083.00	ppb	1.21	1041089	225000	
44 Ca	45	1	85,760.00	85760.00	ppb	1.96	1408789	225000	
51 V	45	1	50.24	50.24	ppb	1.22	137154	2700	
52 Cr	45	1	57.95	57.95	ppb	0.63	182353	2700	
55 Mn	45	1	886.80	886.80	ppb	1.22	2038990	2700	
56 Fe	45	1	41,310.00	41310.00	ppb	0.80	115549600	202500	
59 Co	45	1	15.84	15.84	ppb	0.37	81658	2700	
60 Ni	45	1	72.05	72.05	ppb	1.42	98949	2700	
65 Cu	45	1	190.80	190.80	ppb	0.33	350346	2700	
66 Zn	45	1	350.70	350.70	ppb	0.99	234873	2700	
75 As	115	1	140.20	140.20	ppb	0.48	54019	2250	
78 Se	115	1	1.39	1.39	ppb	30.11	189	2700	
83 Kr	115	2	----	--------	ppb	--------	330	2700	
95 Mo	115	2	3.38	3.38	ppb	1.45	10627	2700	
107 Ag	115	2	0.63	0.63	ppb	3.35	5106	900	
111 Cd	115	2	0.50	0.50	ppb	1.27	877	2700	
121 Sb	115	2	103.70	103.70	ppb	1.19	677435	1125	
137 Ba	159	2	997.40	997.40	ppb	0.62	2565379	1350	
205 Tl	165	2	0.37	0.37	ppb	0.72	6151	900	
206 (Pb)	165	2	4,556.00	4556.00	ppb	3.07	22649270	2700	
207 (Pb)	165	2	4,309.00	4309.00	ppb	2.73	18594240	2700	
208 Pb	165	2	4,258.00	4258.00	ppb	2.75	87329608	2700	>LDR

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	47677	0.92	44974	106.0	70 - 150	
45 Sc	2	827885	4.66	740888	111.7	70 - 150	
115 In	1	285430	1.10	315469	90.5	70 - 150	
115 In	2	807765	0.51	920005	87.8	70 - 150	
159 Tb	1	756415	0.51	799984	94.6	70 - 150	
159 Tb	2	1148073	0.38	1242164	92.4	70 - 150	
165 Ho	1	745153	0.45	779743	95.6	70 - 150	
165 Ho	2	1075498	2.12	1187929	90.5	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\021SMPL.D\021SMPL.D#
Date Acquired: May 23 2014 07:46 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-015 SD
Misc Info: MS_7500 6020 SOIL
Vial Number: 1509
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.21	0.21	ppb	0.67	1033	2700	
23 Na	45	1	238.30	238.30	ppb	2.51	275580	225000	
24 Mg	45	1	3,632.00	3632.00	ppb	0.28	1212773	225000	
27 Al	45	1	4,542.00	4542.00	ppb	1.53	843128	67500	
39 K	45	1	569.00	569.00	ppb	1.49	220877	225000	
44 Ca	45	1	19,290.00	19290.00	ppb	0.57	302103	225000	
51 V	45	1	9.95	9.95	ppb	0.68	25914	2700	
52 Cr	45	1	9.64	9.64	ppb	1.06	29367	2700	
55 Mn	45	1	169.40	169.40	ppb	0.37	371348	2700	
56 Fe	45	1	6,730.00	6730.00	ppb	0.49	17941700	202500	
59 Co	45	1	3.27	3.27	ppb	0.73	16132	2700	
60 Ni	45	1	13.13	13.13	ppb	0.34	17249	2700	
65 Cu	45	1	15.66	15.66	ppb	2.70	27908	2700	
66 Zn	45	1	59.53	59.53	ppb	3.89	39017	2700	
75 As	115	1	12.30	12.30	ppb	0.69	5232	2250	
78 Se	115	1	-1.30	-1.30	ppb	32.29	114	2700	
83 Kr	115	2	----	--------	ppb	--------	304	2700	
95 Mo	115	2	0.50	0.50	ppb	4.61	1856	2700	
107 Ag	115	2	0.06	0.06	ppb	3.79	682	900	
111 Cd	115	2	0.10	0.10	ppb	11.52	235	2700	
121 Sb	115	2	0.32	0.32	ppb	2.09	2541	1125	
137 Ba	159	2	69.46	69.46	ppb	1.11	192312	1350	
205 Tl	165	2	0.06	0.06	ppb	10.25	1359	900	
206 (Pb)	165	2	198.10	198.10	ppb	3.21	1096021	2700	
207 (Pb)	165	2	180.30	180.30	ppb	0.70	866175	2700	
208 Pb	165	2	187.90	187.90	ppb	1.16	4290803	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	45404	1.46	44974	101.0	70 - 150	
45 Sc	2	778929	4.26	740888	105.1	70 - 150	
115 In	1	313554	1.08	315469	99.4	70 - 150	
115 In	2	907801	0.27	920005	98.7	70 - 150	
159 Tb	1	806410	1.32	799984	100.8	70 - 150	
159 Tb	2	1232755	1.21	1242164	99.2	70 - 150	
165 Ho	1	795800	1.40	779743	102.1	70 - 150	
165 Ho	2	1196461	1.45	1187929	100.7	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\022SMPL.D\022SMPL.D#
Date Acquired: May 23 2014 07:52 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-015 MS 1
Misc Info: MS_7500 6020 SOIL
Vial Number: 1506
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	193.90	193.90	ppb	1.74	908382	2700	
23 Na	45	1	21,860.00	21860.00	ppb	1.03	13265460	225000	
24 Mg	45	1	41,750.00	41750.00	ppb	0.83	14481360	225000	
27 Al	45	1	26,090.00	26090.00	ppb	0.97	5009101	67500	
39 K	45	1	24,100.00	24100.00	ppb	0.58	7736301	225000	
44 Ca	45	1	125,500.00	125500.00	ppb	0.85	2043244	225000	
51 V	45	1	262.50	262.50	ppb	1.31	710044	2700	
52 Cr	45	1	261.20	261.20	ppb	0.95	812772	2700	
55 Mn	45	1	1,099.00	1099.00	ppb	1.17	2504947	2700	
56 Fe	45	1	33,900.00	33900.00	ppb	0.39	93997024	202500	
59 Co	45	1	228.90	228.90	ppb	0.31	1167795	2700	
60 Ni	45	1	271.60	271.60	ppb	0.57	369445	2700	
65 Cu	45	1	279.80	279.80	ppb	1.61	508826	2700	
66 Zn	45	1	465.10	465.10	ppb	1.32	308286	2700	
75 As	115	1	305.00	305.00	ppb	0.14	114124	2250	
78 Se	115	1	241.80	241.80	ppb	0.96	7564	2700	
83 Kr	115	2	----	--------	ppb	--------	360	2700	
95 Mo	115	2	238.50	238.50	ppb	1.73	731963	2700	
107 Ag	115	2	62.31	62.31	ppb	2.10	482942	900	
111 Cd	115	2	248.20	248.20	ppb	1.16	403883	2700	
121 Sb	115	2	91.67	91.67	ppb	1.26	589073	1125	
137 Ba	159	2	586.50	586.50	ppb	1.41	1482762	1350	
205 Tl	165	2	236.50	236.50	ppb	3.26	3729834	900	
206 (Pb)	165	2	1,345.00	1345.00	ppb	3.30	6605903	2700	
207 (Pb)	165	2	1,292.00	1292.00	ppb	3.94	5506913	2700	
208 Pb	165	2	1,264.00	1264.00	ppb	3.55	25595610	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	47256	0.59	44974	105.1	70 - 150	
45 Sc	2	846172	2.15	740888	114.2	70 - 150	
115 In	1	277183	0.77	315469	87.9	70 - 150	
115 In	2	794791	1.27	920005	86.4	70 - 150	
159 Tb	1	748851	1.44	799984	93.6	70 - 150	
159 Tb	2	1128561	2.86	1242164	90.9	70 - 150	
165 Ho	1	735764	1.07	779743	94.4	70 - 150	
165 Ho	2	1062281	2.70	1187929	89.4	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\023SMPL.D\023SMPL.D#
Date Acquired: May 23 2014 07:58 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-015 MS 2
Misc Info: MS_7500 6020 SOIL
Vial Number: 1507
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	172.30	172.30	ppb	4.59	809793	2700	
23 Na	45	1	19,270.00	19270.00	ppb	0.87	12049020	225000	
24 Mg	45	1	35,910.00	35910.00	ppb	1.07	12816880	225000	
27 Al	45	1	25,140.00	25140.00	ppb	1.39	4967652	67500	
39 K	45	1	21,020.00	21020.00	ppb	1.08	6948719	225000	
44 Ca	45	1	115,700.00	115700.00	ppb	0.57	1938308	225000	
51 V	45	1	239.40	239.40	ppb	0.64	666239	2700	
52 Cr	45	1	239.10	239.10	ppb	0.41	765551	2700	
55 Mn	45	1	1,084.00	1084.00	ppb	0.80	2542559	2700	
56 Fe	45	1	34,460.00	34460.00	ppb	1.35	98311136	202500	
59 Co	45	1	202.90	202.90	ppb	0.88	1064922	2700	
60 Ni	45	1	254.50	254.50	ppb	1.56	356202	2700	
65 Cu	45	1	249.70	249.70	ppb	0.86	467356	2700	
66 Zn	45	1	438.80	438.80	ppb	0.69	299378	2700	
75 As	115	1	276.40	276.40	ppb	0.29	105115	2250	
78 Se	115	1	214.30	214.30	ppb	1.26	6829	2700	
83 Kr	115	2	----	--------	ppb	--------	342	2700	
95 Mo	115	2	207.80	207.80	ppb	1.73	652988	2700	
107 Ag	115	2	50.34	50.34	ppb	1.46	399524	900	
111 Cd	115	2	217.20	217.20	ppb	0.86	361873	2700	
121 Sb	115	2	74.42	74.42	ppb	1.39	489532	1125	
137 Ba	159	2	582.70	582.70	ppb	1.82	1503805	1350	
205 Tl	165	2	210.80	210.80	ppb	1.95	3354549	900	
206 (Pb)	165	2	1,423.00	1423.00	ppb	1.99	7048591	2700	
207 (Pb)	165	2	1,380.00	1380.00	ppb	1.38	5935322	2700	
208 Pb	165	2	1,340.00	1340.00	ppb	1.34	27376180	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	48625	0.17	44974	108.1	70 - 150	
45 Sc	2	850049	5.84	740888	114.7	70 - 150	
115 In	1	281766	0.75	315469	89.3	70 - 150	
115 In	2	813689	2.34	920005	88.4	70 - 150	
159 Tb	1	753613	0.37	799984	94.2	70 - 150	
159 Tb	2	1152075	2.12	1242164	92.7	70 - 150	
165 Ho	1	742872	0.44	779743	95.3	70 - 150	
165 Ho	2	1071344	2.21	1187929	90.2	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\024SMPL.D\024SMPL.D#
Date Acquired: May 23 2014 08:03 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-015 PS
Misc Info: MS_7500 6020 SOIL
Vial Number: 1508
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	41.86	41.86	ppb	4.11	188898	2700	
23 Na	45	1	5,562.00	5562.00	ppb	2.36	3501624	225000	
24 Mg	45	1	19,280.00	19280.00	ppb	2.09	6724401	225000	
27 Al	45	1	20,470.00	20470.00	ppb	1.06	3952798	67500	
39 K	45	1	7,059.00	7059.00	ppb	1.56	2312275	225000	
44 Ca	45	1	93,520.00	93520.00	ppb	1.12	1530881	225000	
51 V	45	1	87.96	87.96	ppb	0.37	239241	2700	
52 Cr	45	1	86.09	86.09	ppb	0.72	269687	2700	
55 Mn	45	1	797.40	797.40	ppb	0.63	1827313	2700	
56 Fe	45	1	33,960.00	33960.00	ppb	0.75	94669552	202500	
59 Co	45	1	57.44	57.44	ppb	0.38	294680	2700	
60 Ni	45	1	100.40	100.40	ppb	0.19	137307	2700	
65 Cu	45	1	109.10	109.10	ppb	0.48	199816	2700	
66 Zn	45	1	275.90	275.90	ppb	0.69	184431	2700	
75 As	115	1	112.40	112.40	ppb	1.15	43752	2250	
78 Se	115	1	250.60	250.60	ppb	1.33	8146	2700	
83 Kr	115	2	----	--------	ppb	--------	344	2700	
95 Mo	115	2	54.06	54.06	ppb	0.63	173684	2700	
107 Ag	115	2	49.93	49.93	ppb	0.75	404915	900	
111 Cd	115	2	50.31	50.31	ppb	0.20	85682	2700	
121 Sb	115	2	51.68	51.68	ppb	0.24	347526	1125	
137 Ba	159	2	396.20	396.20	ppb	0.42	1041347	1350	
205 Tl	165	2	46.56	46.56	ppb	0.52	780579	900	
206 (Pb)	165	2	1,022.00	1022.00	ppb	1.46	5330229	2700	
207 (Pb)	165	2	967.50	967.50	ppb	0.64	4381794	2700	
208 Pb	165	2	954.30	954.30	ppb	1.05	20540580	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	47513	0.95	44974	105.6	70 - 150	
45 Sc	2	815294	4.66	740888	110.0	70 - 150	
115 In	1	288274	1.13	315469	91.4	70 - 150	
115 In	2	831394	0.45	920005	90.4	70 - 150	
159 Tb	1	758144	0.36	799984	94.8	70 - 150	
159 Tb	2	1172710	1.10	1242164	94.4	70 - 150	
165 Ho	1	752284	1.46	779743	96.5	70 - 150	
165 Ho	2	1128186	0.50	1187929	95.0	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\025SMPL.D\025SMPL.D#
Date Acquired: May 23 2014 08:09 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: RINSE
Misc Info: MS_7500 6020 SOIL
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.51	0.51	ppb	3.49	2036	2700	
23 Na	45	1	799.10	799.10	ppb	1.35	536056	225000	
24 Mg	45	1	216.40	216.40	ppb	6.87	66660	225000	
27 Al	45	1	65.35	65.35	ppb	16.54	16583	67500	
39 K	45	1	110.50	110.50	ppb	8.04	71913	225000	
44 Ca	45	1	651.60	651.60	ppb	9.24	9536	225000	
51 V	45	1	0.75	0.75	ppb	13.20	1818	2700	
52 Cr	45	1	0.63	0.63	ppb	18.03	2193	2700	
55 Mn	45	1	4.07	4.07	ppb	12.39	8340	2700	
56 Fe	45	1	185.40	185.40	ppb	10.55	457691	202500	
59 Co	45	1	0.61	0.61	ppb	13.71	2783	2700	
60 Ni	45	1	0.76	0.76	ppb	14.38	980	2700	
65 Cu	45	1	0.85	0.85	ppb	14.14	1831	2700	
66 Zn	45	1	0.00	0.00	ppb	6477.20	1113	2700	
75 As	115	1	0.66	0.66	ppb	16.55	296	2250	
78 Se	115	1	-0.95	-0.95	ppb	16.39	122	2700	
83 Kr	115	2	----	--------	ppb	--------	286	2700	
95 Mo	115	2	0.95	0.95	ppb	3.62	3252	2700	
107 Ag	115	2	0.33	0.33	ppb	1.30	2837	900	
111 Cd	115	2	0.63	0.63	ppb	2.57	1149	2700	
121 Sb	115	2	0.45	0.45	ppb	2.31	3311	1125	
137 Ba	159	2	2.30	2.30	ppb	1.30	6575	1350	
205 Tl	165	2	0.59	0.59	ppb	2.39	10135	900	
206 (Pb)	165	2	4.90	4.90	ppb	2.12	25571	2700	
207 (Pb)	165	2	4.60	4.60	ppb	0.71	20880	2700	
208 Pb	165	2	4.55	4.55	ppb	1.20	98067	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	40630	0.14	44974	90.3	70 - 150	
45 Sc	2	679554	0.89	740888	91.7	70 - 150	
115 In	1	302533	0.63	315469	95.9	70 - 150	
115 In	2	855921	0.52	920005	93.0	70 - 150	
159 Tb	1	780526	0.87	799984	97.6	70 - 150	
159 Tb	2	1176549	1.72	1242164	94.7	70 - 150	
165 Ho	1	767839	1.09	779743	98.5	70 - 150	
165 Ho	2	1116693	0.54	1187929	94.0	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\026_CCV.D\026_CCV.D#
Date Acquired: May 23 2014 08:15 pm
Operator: GK
Sample Name: CCV V-187144
Misc Info: MS_7500 6020 SOIL
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	48.55	ppb	0.78	191621	50	97.1	90 - 110	
23 Na	45	1	4946.00	ppb	0.33	2816083	5000	98.9	90 - 110	
24 Mg	45	1	4907.00	ppb	1.22	1541474	5000	98.1	90 - 110	
27 Al	45	1	1448.00	ppb	0.82	257267	1500	96.5	90 - 110	
39 K	45	1	5010.00	ppb	0.83	1489132	5000	100.2	90 - 110	
44 Ca	45	1	4884.00	ppb	0.53	72342	5000	97.7	90 - 110	
51 V	45	1	48.86	ppb	0.53	119582	50	97.7	90 - 110	
52 Cr	45	1	49.47	ppb	1.36	139638	50	98.9	90 - 110	
55 Mn	45	1	49.00	ppb	0.36	101389	50	98.0	90 - 110	
56 Fe	45	1	5006.00	ppb	0.58	12568610	5000	100.1	90 - 110	
59 Co	45	1	49.95	ppb	1.32	230552	50	99.9	90 - 110	
60 Ni	45	1	50.11	ppb	1.85	61731	50	100.2	90 - 110	
65 Cu	45	1	50.90	ppb	0.58	84169	50	101.8	90 - 110	
66 Zn	45	1	49.30	ppb	1.33	30606	50	98.6	90 - 110	
75 As	115	1	48.67	ppb	1.11	20007	50	97.3	90 - 110	
78 Se	115	1	243.60	ppb	1.74	8361	250	97.4	90 - 110	
83 Kr	115	2	--------	ppb	--------	251	50	#VALUE!	##### - #####	
95 Mo	115	2	48.92	ppb	1.47	166041	50	97.8	90 - 110	
107 Ag	115	2	49.57	ppb	1.96	424653	50	99.1	90 - 110	
111 Cd	115	2	49.24	ppb	1.10	88594	50	98.5	90 - 110	
121 Sb	115	2	49.21	ppb	1.67	349582	50	98.4	90 - 110	
137 Ba	159	2	49.77	ppb	1.68	135286	50	99.5	90 - 110	
205 Tl	165	2	47.54	ppb	1.63	813029	50	95.1	90 - 110	
206 (Pb)	165	2	49.88	ppb	1.85	265761	50	99.8	90 - 110	
207 (Pb)	165	2	49.92	ppb	1.22	230898	50	99.8	90 - 110	
208 Pb	165	2	48.12	ppb	1.82	1057912	50	96.2	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	42745	1.08	44974	95.0	80 - 120	
45 Sc	2	712264	0.76	740888	96.1	80 - 120	
115 In	1	304279	1.87	315469	96.5	80 - 120	
115 In	2	878393	1.01	920005	95.5	80 - 120	
159 Tb	1	792093	1.43	799984	99.0	80 - 120	
159 Tb	2	1208980	1.26	1242164	97.3	80 - 120	
165 Ho	1	779677	1.61	779743	100.0	80 - 120	
165 Ho	2	1151101	1.20	1187929	96.9	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\noqas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0	:Element Failures	0	:Max. Number of Failures Allowed
0	:ISTD Failures	0	:Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\027_CCV.D\027_CCV.D#
Date Acquired: May 23 2014 08:21 pm
Operator: GK
Sample Name: LLCCV V-187145
Misc Info: MS_7500 6020 SOIL
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: LL-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.95	ppb	0.22	3761	1	95.1	70 - 130	
23 Na	45	1	466.30	ppb	0.51	374348	500	93.3	70 - 130	
24 Mg	45	1	496.00	ppb	0.84	154169	500	99.2	70 - 130	
27 Al	45	1	458.40	ppb	1.65	83632	500	91.7	70 - 130	
39 K	45	1	473.80	ppb	0.46	176280	500	94.8	70 - 130	
44 Ca	45	1	478.60	ppb	0.52	7312	500	95.7	70 - 130	
51 V	45	1	1.00	ppb	1.69	2467	1	100.4	70 - 130	
52 Cr	45	1	2.16	ppb	15.46	6461	2	107.9	70 - 130	
55 Mn	45	1	5.81	ppb	0.65	12089	6	96.9	70 - 130	
56 Fe	45	1	518.20	ppb	0.37	1285337	500	103.6	70 - 130	
59 Co	45	1	1.97	ppb	1.21	8978	2	98.4	70 - 130	
60 Ni	45	1	2.91	ppb	2.54	3585	3	97.0	70 - 130	
65 Cu	45	1	9.91	ppb	1.90	16422	10	99.1	70 - 130	
66 Zn	45	1	19.12	ppb	1.01	12297	20	95.6	70 - 130	
75 As	115	1	1.02	ppb	9.53	436	1	102.0	70 - 130	
78 Se	115	1	8.25	ppb	5.35	426	10	82.5	70 - 130	
83 Kr	115	2	--------	ppb	-------	289	1	#VALUE!	##### - #####	
95 Mo	115	2	1.00	ppb	3.96	3482	1	99.6	70 - 130	
107 Ag	115	2	0.96	ppb	1.85	8339	1	96.1	70 - 130	
111 Cd	115	2	1.92	ppb	2.65	3495	2	95.9	70 - 130	
121 Sb	115	2	3.74	ppb	1.75	26723	4	93.5	70 - 130	
137 Ba	159	2	4.96	ppb	1.37	13860	5	99.1	70 - 130	
205 Tl	165	2	1.81	ppb	3.05	31097	2	90.4	70 - 130	
206 (Pb)	165	2	2.00	ppb	3.39	10869	2	99.9	70 - 130	
207 (Pb)	165	2	1.97	ppb	2.35	9315	2	98.3	70 - 130	
208 Pb	165	2	1.91	ppb	1.49	42964	2	95.4	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	41749	0.72	44974	92.8	80 - 120	
45 Sc	2	694989	1.23	740888	93.8	80 - 120	
115 In	1	299275	0.65	315469	94.9	80 - 120	
115 In	2	876786	1.20	920005	95.3	80 - 120	
159 Tb	1	778913	1.41	799984	97.4	80 - 120	
159 Tb	2	1202449	1.48	1242164	96.8	80 - 120	
165 Ho	1	758240	1.36	779743	97.2	80 - 120	
165 Ho	2	1146757	1.21	1187929	96.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\028_CCB.D\028_CCB.D#
Date Acquired: May 23 2014 08:27 pm
Operator: GK
Sample Name: CCB V-187141
Misc Info: MS_7500 6020 SOIL
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.001	ppb	310.83	110	1.00	
23 Na	45	1	-28.710	ppb	8.77	116243	500.00	
24 Mg	45	1	-4.221	ppb	2.75	937	500.00	
27 Al	45	1	-32.900	ppb	0.35	413	500.00	
39 K	45	1	-8.494	ppb	13.52	41986	500.00	
44 Ca	45	1	-19.000	ppb	8.44	163	500.00	
51 V	45	1	-0.006	ppb	89.49	56	1.00	
52 Cr	45	1	-0.082	ppb	5.41	319	2.00	
55 Mn	45	1	-0.119	ppb	1.93	151	6.00	
56 Fe	45	1	-2.140	ppb	7.89	11561	500.00	
59 Co	45	1	-0.007	ppb	31.56	84	2.00	
60 Ni	45	1	-0.035	ppb	19.15	51	3.00	
65 Cu	45	1	-0.216	ppb	7.42	184	10.00	
66 Zn	45	1	-1.648	ppb	3.63	192	20.00	
75 As	115	1	-0.008	ppb	184.19	22	1.00	
78 Se	115	1	-1.985	ppb	4.85	90	10.00	
83 Kr	115	2	--------	ppb	--------	283	1.00	
95 Mo	115	2	0.000	ppb	1379.50	109	1.00	
107 Ag	115	2	-0.004	ppb	29.01	97	1.00	
111 Cd	115	2	-0.004	ppb	89.62	46	2.00	
121 Sb	115	2	0.008	ppb	15.31	282	4.00	
137 Ba	159	2	-0.155	ppb	7.48	101	5.00	
205 Tl	165	2	-0.004	ppb	80.24	253	2.00	
206 (Pb)	165	2	-0.007	ppb	114.96	249	2.00	
207 (Pb)	165	2	-0.014	ppb	29.20	207	2.00	
208 Pb	165	2	-0.011	ppb	49.20	1038	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	43420	0.66	44974	96.5	80 - 120	
45 Sc	2	725391	0.49	740888	97.9	80 - 120	
115 In	1	311588	1.09	315469	98.8	80 - 120	
115 In	2	906039	0.84	920005	98.5	80 - 120	
159 Tb	1	800582	0.75	799984	100.1	80 - 120	
159 Tb	2	1231714	1.02	1242164	99.2	80 - 120	
165 Ho	1	779959	0.44	779743	100.0	80 - 120	
165 Ho	2	1184694	1.72	1187929	99.7	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\029SMPL.D\029SMPL.D#
Date Acquired: May 23 2014 08:33 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-001
Misc Info: MS_7500 6020 SOIL
Vial Number: 1510
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.22	1.22	ppb	3.79	4840	2700	
23 Na	45	1	549.00	549.00	ppb	2.07	413376	225000	
24 Mg	45	1	3,778.00	3778.00	ppb	0.42	1146455	225000	
27 Al	45	1	8,237.00	8237.00	ppb	0.64	1385353	67500	
39 K	45	1	1,401.00	1401.00	ppb	1.42	432481	225000	
44 Ca	45	1	57,090.00	57090.00	ppb	3.58	811807	225000	
51 V	45	1	57.71	57.71	ppb	0.24	136370	2700	
52 Cr	45	1	127.70	127.70	ppb	0.66	347276	2700	
55 Mn	45	1	2,768.00	2768.00	ppb	1.16	5508457	2700	>LDR
56 Fe	45	1	504,200.00	504200.00	ppb	0.40	1220545000	202500	>LDR
59 Co	45	1	97.51	97.51	ppb	0.25	434470	2700	
60 Ni	45	1	278.20	278.20	ppb	0.78	330449	2700	
65 Cu	45	1	3,393.00	3393.00	ppb	0.80	5384028	2700	>LDR
66 Zn	45	1	2,613.00	2613.00	ppb	0.18	1507604	2700	
75 As	115	1	6,547.00	6547.00	ppb	0.96	2355671	2250	>LDR
78 Se	115	1	9.26	9.26	ppb	7.31	409	2700	
83 Kr	115	2	----	--------	ppb	--------	316	2700	
95 Mo	115	2	19.12	19.12	ppb	1.44	58185	2700	
107 Ag	115	2	3.02	3.02	ppb	2.57	23320	900	
111 Cd	115	2	6.53	6.53	ppb	2.08	10561	2700	
121 Sb	115	2	25.95	25.95	ppb	0.79	165261	1125	
137 Ba	159	2	2,466.00	2466.00	ppb	0.31	6129784	1350	>LDR
205 Tl	165	2	1.33	1.33	ppb	3.58	20820	900	
206 (Pb)	165	2	4,252.00	4252.00	ppb	2.97	20483430	2700	
207 (Pb)	165	2	4,166.00	4166.00	ppb	3.37	17421330	2700	
208 Pb	165	2	4,041.00	4041.00	ppb	3.12	80319392	2700	>LDR

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	41273	1.37	44974	91.8	70 - 150	
45 Sc	2	704017	0.78	740888	95.0	70 - 150	
115 In	1	266646	2.12	315469	84.5	70 - 150	
115 In	2	786915	1.18	920005	85.5	70 - 150	
159 Tb	1	712030	2.63	799984	89.0	70 - 150	
159 Tb	2	1109768	0.38	1242164	89.3	70 - 150	
165 Ho	1	703450	1.67	779743	90.2	70 - 150	
165 Ho	2	1042422	2.89	1187929	87.8	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

6 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\030SMPL.D\030SMPL.D#
Date Acquired: May 23 2014 08:38 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-002
Misc Info: MS_7500 6020 SOIL
Vial Number: 2401
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.94	0.94	ppb	4.35	4094	2700	
23 Na	45	1	501.90	501.90	ppb	1.10	426988	225000	
24 Mg	45	1	17,260.00	17260.00	ppb	1.00	5745127	225000	
27 Al	45	1	18,040.00	18040.00	ppb	1.25	3325422	67500	
39 K	45	1	3,571.00	3571.00	ppb	0.21	1139165	225000	
44 Ca	45	1	212,700.00	212700.00	ppb	0.97	3321601	225000	
51 V	45	1	58.27	58.27	ppb	0.28	151259	2700	
52 Cr	45	1	39.82	39.82	ppb	0.64	119345	2700	
55 Mn	45	1	1,011.00	1011.00	ppb	0.89	2211090	2700	
56 Fe	45	1	33,330.00	33330.00	ppb	0.69	88658808	202500	
59 Co	45	1	16.31	16.31	ppb	0.68	79941	2700	
60 Ni	45	1	82.13	82.13	ppb	0.26	107239	2700	
65 Cu	45	1	140.40	140.40	ppb	0.67	245243	2700	
66 Zn	45	1	2,990.00	2990.00	ppb	0.70	1894441	2700	>LDR
75 As	115	1	142.40	142.40	ppb	0.47	51799	2250	
78 Se	115	1	1.22	1.22	ppb	35.36	174	2700	
83 Kr	115	2	----	--------	ppb	--------	303	2700	
95 Mo	115	2	2.37	2.37	ppb	1.72	7399	2700	
107 Ag	115	2	0.41	0.41	ppb	3.80	3263	900	
111 Cd	115	2	0.87	0.87	ppb	3.67	1458	2700	
121 Sb	115	2	0.40	0.40	ppb	5.45	2740	1125	
137 Ba	159	2	1,573.00	1573.00	ppb	0.77	3975882	1350	>LDR
205 Tl	165	2	0.45	0.45	ppb	2.52	7218	900	
206 (Pb)	165	2	5,407.00	5407.00	ppb	1.05	26104520	2700	
207 (Pb)	165	2	5,189.00	5189.00	ppb	1.24	21748730	2700	
208 Pb	165	2	5,108.00	5108.00	ppb	1.29	101746000	2700	>LDR

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	45336	0.96	44974	100.8	70 - 150	
45 Sc	2	768871	0.35	740888	103.8	70 - 150	
115 In	1	269511	1.46	315469	85.4	70 - 150	
115 In	2	796502	0.91	920005	86.6	70 - 150	
159 Tb	1	730228	1.25	799984	91.3	70 - 150	
159 Tb	2	1127966	0.26	1242164	90.8	70 - 150	
165 Ho	1	719393	1.25	779743	92.3	70 - 150	
165 Ho	2	1044046	0.69	1187929	87.9	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

3 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\031SMPL.D\031SMPL.D#
Date Acquired: May 23 2014 08:44 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-007
Misc Info: MS_7500 6020 SOIL
Vial Number: 2402
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.76	1.76	ppb	2.22	7649	2700	
23 Na	45	1	595.40	595.40	ppb	0.99	487139	225000	
24 Mg	45	1	1,912.00	1912.00	ppb	0.60	646811	225000	
27 Al	45	1	13,210.00	13210.00	ppb	1.19	2469570	67500	
39 K	45	1	1,657.00	1657.00	ppb	0.57	560703	225000	
44 Ca	45	1	16,180.00	16180.00	ppb	0.26	256498	225000	
51 V	45	1	48.48	48.48	ppb	0.29	127491	2700	
52 Cr	45	1	78.08	78.08	ppb	1.36	236546	2700	
55 Mn	45	1	364.20	364.20	ppb	0.46	807124	2700	
56 Fe	45	1	49,650.00	49650.00	ppb	1.03	133808500	202500	
59 Co	45	1	16.36	16.36	ppb	0.58	81229	2700	
60 Ni	45	1	47.10	47.10	ppb	1.28	62355	2700	
65 Cu	45	1	414.10	414.10	ppb	1.06	731663	2700	
66 Zn	45	1	576.80	576.80	ppb	0.14	371317	2700	
75 As	115	1	2,006.00	2006.00	ppb	0.46	778721	2250	
78 Se	115	1	11.38	11.38	ppb	5.04	509	2700	
83 Kr	115	2	----	--------	ppb	--------	332	2700	
95 Mo	115	2	15.55	15.55	ppb	1.77	50371	2700	
107 Ag	115	2	1.06	1.06	ppb	1.26	8761	900	
111 Cd	115	2	1.60	1.60	ppb	2.30	2790	2700	
121 Sb	115	2	4.02	4.02	ppb	2.64	27414	1125	
137 Ba	159	2	1,302.00	1302.00	ppb	1.33	3385585	1350	
205 Tl	165	2	1.18	1.18	ppb	2.14	19886	900	
206 (Pb)	165	2	3,098.00	3098.00	ppb	1.34	16014220	2700	
207 (Pb)	165	2	3,031.00	3031.00	ppb	1.79	13599740	2700	
208 Pb	165	2	2,954.00	2954.00	ppb	1.98	62988072	2700	>LDR

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	45930	1.40	44974	102.1	70 - 150	
45 Sc	2	771714	0.51	740888	104.2	70 - 150	
115 In	1	287653	1.17	315469	91.2	70 - 150	
115 In	2	837365	0.97	920005	91.0	70 - 150	
159 Tb	1	758751	2.13	799984	94.8	70 - 150	
159 Tb	2	1160801	2.18	1242164	93.4	70 - 150	
165 Ho	1	747717	1.10	779743	95.9	70 - 150	
165 Ho	2	1118090	1.55	1187929	94.1	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\032SMPL.D\032SMPL.D#
Date Acquired: May 23 2014 08:50 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-008
Misc Info: MS_7500 6020 SOIL
Vial Number: 2403
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.88	0.88	ppb	3.98	4585	2700	
23 Na	45	1	344.40	344.40	ppb	1.12	367964	225000	
24 Mg	45	1	9,190.00	9190.00	ppb	0.87	3348486	225000	
27 Al	45	1	16,890.00	16890.00	ppb	1.48	3406577	67500	
39 K	45	1	3,301.00	3301.00	ppb	0.95	1156070	225000	
44 Ca	45	1	13,130.00	13130.00	ppb	0.52	224907	225000	
51 V	45	1	49.75	49.75	ppb	0.72	141320	2700	
52 Cr	45	1	45.38	45.38	ppb	1.27	148708	2700	
55 Mn	45	1	680.60	680.60	ppb	0.47	1628305	2700	
56 Fe	45	1	30,230.00	30230.00	ppb	0.13	87986416	202500	
59 Co	45	1	20.86	20.86	ppb	0.08	111831	2700	
60 Ni	45	1	114.80	114.80	ppb	0.63	164004	2700	
65 Cu	45	1	59.17	59.17	ppb	0.72	113462	2700	
66 Zn	45	1	134.60	134.60	ppb	0.62	94618	2700	
75 As	115	1	35.20	35.20	ppb	1.52	13718	2250	
78 Se	115	1	0.30	0.30	ppb	117.26	156	2700	
83 Kr	115	2	----	--------	ppb	--------	296	2700	
95 Mo	115	2	0.89	0.89	ppb	1.59	3029	2700	
107 Ag	115	2	0.20	0.20	ppb	8.94	1812	900	
111 Cd	115	2	0.18	0.18	ppb	3.80	367	2700	
121 Sb	115	2	0.07	0.07	ppb	9.92	656	1125	
137 Ba	159	2	222.00	222.00	ppb	0.68	596016	1350	
205 Tl	165	2	0.36	0.36	ppb	3.08	6477	900	
206 (Pb)	165	2	170.60	170.60	ppb	2.71	899296	2700	
207 (Pb)	165	2	164.90	164.90	ppb	2.38	754698	2700	
208 Pb	165	2	168.80	168.80	ppb	2.07	3671142	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	49607	1.09	44974	110.3	70 - 150	
45 Sc	2	916356	0.75	740888	123.7	70 - 150	
115 In	1	288255	0.98	315469	91.4	70 - 150	
115 In	2	849404	0.65	920005	92.3	70 - 150	
159 Tb	1	764755	0.58	799984	95.6	70 - 150	
159 Tb	2	1197566	0.91	1242164	96.4	70 - 150	
165 Ho	1	753080	1.29	779743	96.6	70 - 150	
165 Ho	2	1139887	1.16	1187929	96.0	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\033SMPL.D\033SMPL.D#
Date Acquired: May 23 2014 08:56 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-014
Misc Info: MS_7500 6020 SOIL
Vial Number: 2404
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.09	1.09	ppb	6.06	5056	2700	
23 Na	45	1	815.00	815.00	ppb	0.32	637909	225000	
24 Mg	45	1	15,720.00	15720.00	ppb	0.67	5495646	225000	
27 Al	45	1	19,740.00	19740.00	ppb	1.47	3821646	67500	
39 K	45	1	3,060.00	3060.00	ppb	1.19	1032343	225000	
44 Ca	45	1	77,440.00	77440.00	ppb	1.58	1270487	225000	
51 V	45	1	44.81	44.81	ppb	0.21	122184	2700	
52 Cr	45	1	33.37	33.37	ppb	0.72	105139	2700	
55 Mn	45	1	831.90	831.90	ppb	0.85	1910603	2700	
56 Fe	45	1	36,400.00	36400.00	ppb	0.89	101703900	202500	
59 Co	45	1	16.66	16.66	ppb	0.70	85731	2700	
60 Ni	45	1	71.25	71.25	ppb	0.81	97733	2700	
65 Cu	45	1	91.28	91.28	ppb	1.25	167712	2700	
66 Zn	45	1	258.50	258.50	ppb	0.48	173282	2700	
75 As	115	1	66.48	66.48	ppb	0.46	25819	2250	
78 Se	115	1	1.75	1.75	ppb	23.90	202	2700	
83 Kr	115	2	----	--------	ppb	--------	368	2700	
95 Mo	115	2	1.94	1.94	ppb	4.19	6273	2700	
107 Ag	115	2	0.33	0.33	ppb	2.35	2780	900	
111 Cd	115	2	0.45	0.45	ppb	1.31	800	2700	
121 Sb	115	2	4.43	4.43	ppb	1.07	29678	1125	
137 Ba	159	2	420.60	420.60	ppb	0.72	1103727	1350	
205 Tl	165	2	0.41	0.41	ppb	3.66	7113	900	
206 (Pb)	165	2	1,366.00	1366.00	ppb	3.96	7106932	2700	
207 (Pb)	165	2	1,302.00	1302.00	ppb	3.52	5878704	2700	
208 Pb	165	2	1,277.00	1277.00	ppb	3.21	27418100	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	47621	1.15	44974	105.9	70 - 150	
45 Sc	2	820090	4.46	740888	110.7	70 - 150	
115 In	1	287516	1.24	315469	91.1	70 - 150	
115 In	2	822674	0.35	920005	89.4	70 - 150	
159 Tb	1	760900	1.01	799984	95.1	70 - 150	
159 Tb	2	1171037	1.89	1242164	94.3	70 - 150	
165 Ho	1	753550	1.36	779743	96.6	70 - 150	
165 Ho	2	1125485	2.10	1187929	94.7	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\034SMPL.D\034SMPL.D#
Date Acquired: May 23 2014 09:02 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-018
Misc Info: MS_7500 6020 SOIL
Vial Number: 2405
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.83	0.83	ppb	6.82	3762	2700	
23 Na	45	1	783.90	783.90	ppb	1.23	613047	225000	
24 Mg	45	1	29,330.00	29330.00	ppb	1.06	10152710	225000	
27 Al	45	1	15,240.00	15240.00	ppb	0.87	2921769	67500	
39 K	45	1	4,772.00	4772.00	ppb	1.38	1567379	225000	
44 Ca	45	1	8,472.00	8472.00	ppb	0.47	138086	225000	
51 V	45	1	50.76	50.76	ppb	0.87	137049	2700	
52 Cr	45	1	48.94	48.94	ppb	0.53	152421	2700	
55 Mn	45	1	787.40	787.40	ppb	1.40	1790998	2700	
56 Fe	45	1	36,680.00	36680.00	ppb	0.27	101495400	202500	
59 Co	45	1	30.69	30.69	ppb	0.61	156338	2700	
60 Ni	45	1	366.80	366.80	ppb	0.27	497931	2700	
65 Cu	45	1	59.74	59.74	ppb	1.08	108895	2700	
66 Zn	45	1	121.50	121.50	ppb	0.58	81345	2700	
75 As	115	1	335.00	335.00	ppb	0.48	127797	2250	
78 Se	115	1	0.65	0.65	ppb	30.41	164	2700	
83 Kr	115	2	----	--------	ppb	--------	344	2700	
95 Mo	115	2	0.63	0.63	ppb	3.92	2132	2700	
107 Ag	115	2	0.07	0.07	ppb	7.56	657	900	
111 Cd	115	2	0.35	0.35	ppb	3.59	641	2700	
121 Sb	115	2	0.03	0.03	ppb	19.18	422	1125	
137 Ba	159	2	152.70	152.70	ppb	1.43	400152	1350	
205 Tl	165	2	0.32	0.32	ppb	0.77	5622	900	
206 (Pb)	165	2	70.40	70.40	ppb	1.87	365657	2700	
207 (Pb)	165	2	66.60	66.60	ppb	2.24	300324	2700	
208 Pb	165	2	66.14	66.14	ppb	2.41	1417432	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	47160	1.62	44974	104.9	70 - 150	
45 Sc	2	795400	0.63	740888	107.4	70 - 150	
115 In	1	282626	0.56	315469	89.6	70 - 150	
115 In	2	830007	0.60	920005	90.2	70 - 150	
159 Tb	1	757117	1.86	799984	94.6	70 - 150	
159 Tb	2	1168637	0.88	1242164	94.1	70 - 150	
165 Ho	1	746294	1.23	779743	95.7	70 - 150	
165 Ho	2	1122586	1.72	1187929	94.5	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\035SMPL.D\035SMPL.D#
Date Acquired: May 23 2014 09:07 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-019
Misc Info: MS_7500 6020 SOIL
Vial Number: 2406
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.32	1.32	ppb	1.38	8078	2700	
23 Na	45	1	403.90	403.90	ppb	0.82	486512	225000	
24 Mg	45	1	17,180.00	17180.00	ppb	0.64	7505960	225000	
27 Al	45	1	29,170.00	29170.00	ppb	1.02	7053553	67500	
39 K	45	1	9,688.00	9688.00	ppb	0.47	3953478	225000	
44 Ca	45	1	11,570.00	11570.00	ppb	0.48	237880	225000	
51 V	45	1	132.80	132.80	ppb	0.78	452394	2700	
52 Cr	45	1	68.83	68.83	ppb	0.09	270276	2700	
55 Mn	45	1	885.00	885.00	ppb	1.68	2540430	2700	
56 Fe	45	1	41,640.00	41640.00	ppb	1.11	145416400	202500	
59 Co	45	1	19.18	19.18	ppb	0.58	123377	2700	
60 Ni	45	1	175.00	175.00	ppb	0.39	299936	2700	
65 Cu	45	1	161.50	161.50	ppb	0.57	370179	2700	
66 Zn	45	1	167.00	167.00	ppb	0.69	140463	2700	
75 As	115	1	155.20	155.20	ppb	0.60	59599	2250	
78 Se	115	1	1.69	1.69	ppb	21.18	198	2700	
83 Kr	115	2	----	--------	ppb	--------	350	2700	
95 Mo	115	2	2.38	2.38	ppb	2.30	7669	2700	
107 Ag	115	2	0.11	0.11	ppb	3.19	976	900	
111 Cd	115	2	0.21	0.21	ppb	2.89	409	2700	
121 Sb	115	2	0.40	0.40	ppb	4.41	2897	1125	
137 Ba	159	2	327.10	327.10	ppb	0.42	871508	1350	
205 Tl	165	2	0.66	0.66	ppb	2.02	11493	900	
206 (Pb)	165	2	55.44	55.44	ppb	0.68	291324	2700	
207 (Pb)	165	2	53.02	53.02	ppb	0.71	241880	2700	
208 Pb	165	2	52.11	52.11	ppb	0.54	1129914	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	59521	0.09	44974	132.3	70 - 150	
45 Sc	2	1082891	1.63	740888	146.2	70 - 150	
115 In	1	284424	0.69	315469	90.2	70 - 150	
115 In	2	824918	0.55	920005	89.7	70 - 150	
159 Tb	1	763465	0.64	799984	95.4	70 - 150	
159 Tb	2	1188643	0.47	1242164	95.7	70 - 150	
165 Ho	1	752466	0.76	779743	96.5	70 - 150	
165 Ho	2	1135318	0.36	1187929	95.6	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\S052314B.b\036SMPL.D\036SMPL.D#
Date Acquired:	May 23 2014 09:13 pm
Acq. Method:	6020SOIL.M
Operator:	GK
Sample Name:	78787-020
Misc Info:	MS_7500 6020 SOIL
Vial Number:	2407
Current Method:	C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update:	May 23 2014 06:28 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.17	1.17	ppb	1.01	6111	2700	
23 Na	45	1	462.50	462.50	ppb	0.59	453910	225000	
24 Mg	45	1	12,000.00	12000.00	ppb	0.67	4485720	225000	
27 Al	45	1	21,940.00	21940.00	ppb	0.81	4539448	67500	
39 K	45	1	4,099.00	4099.00	ppb	0.49	1460605	225000	
44 Ca	45	1	28,760.00	28760.00	ppb	1.13	504800	225000	
51 V	45	1	57.40	57.40	ppb	1.15	167284	2700	
52 Cr	45	1	57.32	57.32	ppb	1.17	192582	2700	
55 Mn	45	1	970.80	970.80	ppb	1.02	2383107	2700	
56 Fe	45	1	33,500.00	33500.00	ppb	1.16	100062000	202500	
59 Co	45	1	21.52	21.52	ppb	0.72	118342	2700	
60 Ni	45	1	136.00	136.00	ppb	1.18	199339	2700	
65 Cu	45	1	111.60	111.60	ppb	0.85	218997	2700	
66 Zn	45	1	114.20	114.20	ppb	1.24	82563	2700	
75 As	115	1	72.78	72.78	ppb	0.52	28165	2250	
78 Se	115	1	1.09	1.09	ppb	42.33	181	2700	
83 Kr	115	2	----	--------	ppb	--------	336	2700	
95 Mo	115	2	4.11	4.11	ppb	1.05	13271	2700	
107 Ag	115	2	0.07	0.07	ppb	10.98	712	900	
111 Cd	115	2	0.21	0.21	ppb	3.84	400	2700	
121 Sb	115	2	0.22	0.22	ppb	0.39	1699	1125	
137 Ba	159	2	230.30	230.30	ppb	0.40	618587	1350	
205 Tl	165	2	0.34	0.34	ppb	0.86	6026	900	
206 (Pb)	165	2	54.47	54.47	ppb	1.18	285698	2700	
207 (Pb)	165	2	52.51	52.51	ppb	0.06	239092	2700	
208 Pb	165	2	51.61	51.61	ppb	0.74	1116883	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	50902	0.51	44974	113.2	70 - 150	
45 Sc	2	922436	0.96	740888	124.5	70 - 150	
115 In	1	286509	0.21	315469	90.8	70 - 150	
115 In	2	829596	1.21	920005	90.2	70 - 150	
159 Tb	1	770986	0.47	799984	96.4	70 - 150	
159 Tb	2	1197982	0.59	1242164	96.4	70 - 150	
165 Ho	1	751073	0.72	779743	96.3	70 - 150	
165 Ho	2	1133136	1.27	1187929	95.4	70 - 150	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\037SMPL.D\037SMPL.D#
Date Acquired: May 23 2014 09:19 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-021
Misc Info: MS_7500 6020 SOIL
Vial Number: 2408
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.24	1.24	ppb	1.89	6351	2700	
23 Na	45	1	854.10	854.10	ppb	0.37	697839	225000	
24 Mg	45	1	15,680.00	15680.00	ppb	1.33	5784058	225000	
27 Al	45	1	22,130.00	22130.00	ppb	1.19	4517710	67500	
39 K	45	1	5,461.00	5461.00	ppb	1.18	1903095	225000	
44 Ca	45	1	78,970.00	78970.00	ppb	0.70	1366683	225000	
51 V	45	1	67.61	67.61	ppb	0.14	194439	2700	
52 Cr	45	1	1,832.00	1832.00	ppb	0.87	6055489	2700	
55 Mn	45	1	1,148.00	1148.00	ppb	1.85	2782079	2700	
56 Fe	45	1	40,830.00	40830.00	ppb	1.18	120340400	202500	
59 Co	45	1	22.05	22.05	ppb	1.36	119701	2700	
60 Ni	45	1	119.20	119.20	ppb	0.41	172439	2700	
65 Cu	45	1	135.90	135.90	ppb	1.19	263139	2700	
66 Zn	45	1	1,107.00	1107.00	ppb	0.48	778361	2700	
75 As	115	1	180.60	180.60	ppb	0.92	68908	2250	
78 Se	115	1	6.63	6.63	ppb	9.66	351	2700	
83 Kr	115	2	----	--------	ppb	--------	367	2700	
95 Mo	115	2	3.06	3.06	ppb	2.97	9662	2700	
107 Ag	115	2	0.84	0.84	ppb	1.65	6720	900	
111 Cd	115	2	6.61	6.61	ppb	0.52	10999	2700	
121 Sb	115	2	1.05	1.05	ppb	0.66	7082	1125	
137 Ba	159	2	425.70	425.70	ppb	0.45	1090642	1350	
205 Tl	165	2	1.25	1.25	ppb	1.43	20699	900	
206 (Pb)	165	2	1,483.00	1483.00	ppb	0.52	7562620	2700	
207 (Pb)	165	2	1,456.00	1456.00	ppb	0.71	6445133	2700	
208 Pb	165	2	1,417.00	1417.00	ppb	1.07	29807300	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	50231	0.19	44974	111.7	70 - 150	
45 Sc	2	909273	0.76	740888	122.7	70 - 150	
115 In	1	282583	1.27	315469	89.6	70 - 150	
115 In	2	809354	0.65	920005	88.0	70 - 150	
159 Tb	1	751420	0.98	799984	93.9	70 - 150	
159 Tb	2	1143187	0.73	1242164	92.0	70 - 150	
165 Ho	1	740179	0.43	779743	94.9	70 - 150	
165 Ho	2	1102842	0.73	1187929	92.8	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\038SMPL.D\038SMPL.D#
Date Acquired: May 23 2014 09:25 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: RINSE
Misc Info: MS_7500 6020 SOIL
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.25	0.25	ppb	7.16	1006	2700	
23 Na	45	1	775.20	775.20	ppb	1.04	507101	225000	
24 Mg	45	1	260.00	260.00	ppb	4.35	77170	225000	
27 Al	45	1	140.00	140.00	ppb	11.30	28002	67500	
39 K	45	1	117.60	117.60	ppb	1.64	71529	225000	
44 Ca	45	1	755.10	755.10	ppb	3.69	10640	225000	
51 V	45	1	0.88	0.88	ppb	5.76	2048	2700	
52 Cr	45	1	2.83	2.83	ppb	11.95	7834	2700	
55 Mn	45	1	8.07	8.07	ppb	10.03	15680	2700	
56 Fe	45	1	465.00	465.00	ppb	7.09	1089171	202500	
59 Co	45	1	0.57	0.57	ppb	6.24	2539	2700	
60 Ni	45	1	1.41	1.41	ppb	7.15	1679	2700	
65 Cu	45	1	2.17	2.17	ppb	6.43	3775	2700	
66 Zn	45	1	3.25	3.25	ppb	14.81	2866	2700	
75 As	115	1	3.01	3.01	ppb	7.74	1203	2250	
78 Se	115	1	-0.81	-0.81	ppb	28.20	122	2700	
83 Kr	115	2	----	--------	ppb	--------	290	2700	
95 Mo	115	2	0.70	0.70	ppb	2.64	2316	2700	
107 Ag	115	2	0.23	0.23	ppb	2.56	1930	900	
111 Cd	115	2	0.34	0.34	ppb	4.16	632	2700	
121 Sb	115	2	0.29	0.29	ppb	4.69	2120	1125	
137 Ba	159	2	4.21	4.21	ppb	2.53	11286	1350	
205 Tl	165	2	0.32	0.32	ppb	1.51	5588	900	
206 (Pb)	165	2	8.76	8.76	ppb	0.88	44739	2700	
207 (Pb)	165	2	8.46	8.46	ppb	2.19	37497	2700	
208 Pb	165	2	8.22	8.22	ppb	1.01	173292	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	39343	1.45	44974	87.5	70 - 150	
45 Sc	2	653061	0.49	740888	88.1	70 - 150	
115 In	1	290374	1.96	315469	92.0	70 - 150	
115 In	2	825420	0.60	920005	89.7	70 - 150	
159 Tb	1	758877	1.85	799984	94.9	70 - 150	
159 Tb	2	1145081	1.04	1242164	92.2	70 - 150	
165 Ho	1	752238	1.14	779743	96.5	70 - 150	
165 Ho	2	1097559	1.46	1187929	92.4	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\039_CCV.D\039_CCV.D#
Date Acquired: May 23 2014 09:31 pm
Operator: GK
Sample Name: CCV V-187144
Misc Info: MS_7500 6020 SOIL
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	47.42	ppb	1.27	189352	50	94.8	90 - 110	
23 Na	45	1	4893.00	ppb	1.40	2822402	5000	97.9	90 - 110	
24 Mg	45	1	4884.00	ppb	2.39	1553817	5000	97.7	90 - 110	
27 Al	45	1	1445.00	ppb	2.56	259986	1500	96.3	90 - 110	
39 K	45	1	5006.00	ppb	0.95	1507084	5000	100.1	90 - 110	
44 Ca	45	1	4888.00	ppb	0.92	73325	5000	97.8	90 - 110	
51 V	45	1	48.95	ppb	1.87	121330	50	97.9	90 - 110	
52 Cr	45	1	49.57	ppb	1.38	141739	50	99.1	90 - 110	
55 Mn	45	1	49.37	ppb	1.30	103460	50	98.7	90 - 110	
56 Fe	45	1	4982.00	ppb	0.72	12667150	5000	99.6	90 - 110	
59 Co	45	1	49.52	ppb	0.89	231483	50	99.0	90 - 110	
60 Ni	45	1	49.88	ppb	0.69	62233	50	99.8	90 - 110	
65 Cu	45	1	50.21	ppb	1.37	84101	50	100.4	90 - 110	
66 Zn	45	1	49.29	ppb	2.05	30994	50	98.6	90 - 110	
75 As	115	1	48.57	ppb	2.48	20386	50	97.1	90 - 110	
78 Se	115	1	241.70	ppb	1.49	8472	250	96.7	90 - 110	
83 Kr	115	2	--------	ppb	--------	298	50	#VALUE!	##### - #####	
95 Mo	115	2	48.97	ppb	1.33	169641	50	97.9	90 - 110	
107 Ag	115	2	49.02	ppb	1.85	428598	50	98.0	90 - 110	
111 Cd	115	2	48.90	ppb	0.43	89804	50	97.8	90 - 110	
121 Sb	115	2	48.70	ppb	0.50	353043	50	97.4	90 - 110	
137 Ba	159	2	50.20	ppb	0.56	137438	50	100.4	90 - 110	
205 Tl	165	2	47.45	ppb	1.35	831527	50	94.9	90 - 110	
206 (Pb)	165	2	49.79	ppb	2.39	271772	50	99.6	90 - 110	
207 (Pb)	165	2	49.50	ppb	1.98	234613	50	99.0	90 - 110	
208 Pb	165	2	47.95	ppb	1.61	1080094	50	95.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	43290	0.94	44974	96.3	80 - 120	
45 Sc	2	720634	0.88	740888	97.3	80 - 120	
115 In	1	310663	1.98	315469	98.5	80 - 120	
115 In	2	896425	1.03	920005	97.4	80 - 120	
159 Tb	1	805140	0.86	799984	100.6	80 - 120	
159 Tb	2	1217620	1.36	1242164	98.0	80 - 120	
165 Ho	1	792048	1.11	779743	101.6	80 - 120	
165 Ho	2	1179586	1.94	1187929	99.3	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\040_CCV.D\040_CCV.D#
Date Acquired: May 23 2014 09:37 pm
Operator: GK
Sample Name: LLCCV V-187145
Misc Info: MS_7500 6020 SOIL
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: LL-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.92	ppb	5.92	3831	1	92.5	70 - 130	
23 Na	45	1	455.50	ppb	0.71	377617	500	91.1	70 - 130	
24 Mg	45	1	496.90	ppb	1.34	158240	500	99.4	70 - 130	
27 Al	45	1	460.80	ppb	2.32	86097	500	92.2	70 - 130	
39 K	45	1	469.90	ppb	0.59	179463	500	94.0	70 - 130	
44 Ca	45	1	484.40	ppb	0.79	7576	500	96.9	70 - 130	
51 V	45	1	0.99	ppb	2.22	2497	1	99.2	70 - 130	
52 Cr	45	1	1.97	ppb	1.02	6088	2	98.5	70 - 130	
55 Mn	45	1	5.81	ppb	0.37	12380	6	96.9	70 - 130	
56 Fe	45	1	523.70	ppb	0.58	1330725	500	104.7	70 - 130	
59 Co	45	1	1.99	ppb	1.31	9320	2	99.7	70 - 130	
60 Ni	45	1	2.87	ppb	0.28	3621	3	95.6	70 - 130	
65 Cu	45	1	9.76	ppb	1.96	16582	10	97.6	70 - 130	
66 Zn	45	1	19.32	ppb	1.57	12715	20	96.6	70 - 130	
75 As	115	1	0.92	ppb	8.18	403	1	91.6	70 - 130	
78 Se	115	1	7.64	ppb	4.86	415	10	76.4	70 - 130	
83 Kr	115	2	--------	ppb	--------	264	1	#VALUE!	##### - #####	
95 Mo	115	2	0.98	ppb	1.58	3548	1	97.5	70 - 130	
107 Ag	115	2	0.94	ppb	0.24	8486	1	93.9	70 - 130	
111 Cd	115	2	1.88	ppb	0.57	3567	2	94.0	70 - 130	
121 Sb	115	2	3.80	ppb	2.12	28293	4	95.1	70 - 130	
137 Ba	159	2	5.03	ppb	1.91	14418	5	100.6	70 - 130	
205 Tl	165	2	1.82	ppb	2.04	32062	2	91.2	70 - 130	
206 (Pb)	165	2	1.99	ppb	2.53	11071	2	99.6	70 - 130	
207 (Pb)	165	2	1.98	ppb	1.06	9557	2	98.8	70 - 130	
208 Pb	165	2	1.91	ppb	1.04	44024	2	95.7	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	42770	0.69	44974	95.1	80 - 120	
45 Sc	2	728086	1.91	740888	98.3	80 - 120	
115 In	1	306155	1.17	315469	97.0	80 - 120	
115 In	2	912913	0.28	920005	99.2	80 - 120	
159 Tb	1	786240	1.42	799984	98.3	80 - 120	
159 Tb	2	1233082	0.30	1242164	99.3	80 - 120	
165 Ho	1	772944	1.41	779743	99.1	80 - 120	
165 Ho	2	1171477	1.75	1187929	98.6	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\041_CCB.D\041_CCB.D#
Date Acquired: May 23 2014 09:43 pm
Operator: GK
Sample Name: CCB V-187141
Misc Info: MS_7500 6020 SOIL
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.003	ppb	205.05	116	1.00	
23 Na	45	1	-19.710	ppb	40.62	115486	500.00	
24 Mg	45	1	-2.689	ppb	4.18	1358	500.00	
27 Al	45	1	-31.310	ppb	0.44	661	500.00	
39 K	45	1	-2.865	ppb	209.77	41572	500.00	
44 Ca	45	1	-15.800	ppb	4.25	201	500.00	
51 V	45	1	0.005	ppb	111.95	78	1.00	
52 Cr	45	1	0.001	ppb	2377.70	527	2.00	
55 Mn	45	1	-0.036	ppb	24.94	310	6.00	
56 Fe	45	1	1.290	ppb	24.57	19352	500.00	
59 Co	45	1	-0.001	ppb	203.82	105	2.00	
60 Ni	45	1	-0.019	ppb	57.31	68	3.00	
65 Cu	45	1	-0.183	ppb	15.70	228	10.00	
66 Zn	45	1	-1.547	ppb	3.78	241	20.00	
75 As	115	1	0.023	ppb	49.46	33	1.00	
78 Se	115	1	-1.506	ppb	22.03	102	10.00	
83 Kr	115	2	--------	ppb	--------	286	1.00	
95 Mo	115	2	-0.005	ppb	154.69	91	1.00	
107 Ag	115	2	0.007	ppb	75.49	188	1.00	
111 Cd	115	2	-0.002	ppb	302.36	49	2.00	
121 Sb	115	2	0.000	ppb	200.69	221	4.00	
137 Ba	159	2	-0.134	ppb	8.53	157	5.00	
205 Tl	165	2	0.000	ppb	36.13	308	2.00	
206 (Pb)	165	2	0.050	ppb	12.31	551	2.00	
207 (Pb)	165	2	0.041	ppb	48.54	458	2.00	
208 Pb	165	2	0.038	ppb	11.90	2101	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	41403	3.46	44974	92.1	80 - 120	
45 Sc	2	714811	1.14	740888	96.5	80 - 120	
115 In	1	295894	3.54	315469	93.8	80 - 120	
115 In	2	892603	0.83	920005	97.0	80 - 120	
159 Tb	1	758934	3.78	799984	94.9	80 - 120	
159 Tb	2	1211736	0.23	1242164	97.6	80 - 120	
165 Ho	1	743510	2.95	779743	95.4	80 - 120	
165 Ho	2	1157247	1.55	1187929	97.4	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\042SMPL.D\042SMPL.D#
Date Acquired: May 23 2014 09:48 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-022
Misc Info: MS_7500 6020 SOIL
Vial Number: 2409
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.88	0.88	ppb	3.17	4493	2700	
23 Na	45	1	354.70	354.70	ppb	0.58	374780	225000	
24 Mg	45	1	33,350.00	33350.00	ppb	1.35	12155180	225000	
27 Al	45	1	20,670.00	20670.00	ppb	1.81	4171713	67500	
39 K	45	1	6,918.00	6918.00	ppb	1.02	2369453	225000	
44 Ca	45	1	45,380.00	45380.00	ppb	0.89	776509	225000	
51 V	45	1	55.52	55.52	ppb	0.69	157833	2700	
52 Cr	45	1	232.40	232.40	ppb	1.19	759665	2700	
55 Mn	45	1	946.90	946.90	ppb	0.15	2267595	2700	
56 Fe	45	1	33,720.00	33720.00	ppb	0.68	98216912	202500	
59 Co	45	1	22.30	22.30	ppb	1.04	119627	2700	
60 Ni	45	1	140.10	140.10	ppb	1.01	200319	2700	
65 Cu	45	1	82.10	82.10	ppb	2.19	157319	2700	
66 Zn	45	1	329.80	329.80	ppb	0.51	230080	2700	
75 As	115	1	41.36	41.36	ppb	0.95	15822	2250	
78 Se	115	1	3.04	3.04	ppb	12.20	240	2700	
83 Kr	115	2	----	--------	ppb	--------	341	2700	
95 Mo	115	2	1.21	1.21	ppb	3.33	3891	2700	
107 Ag	115	2	0.13	0.13	ppb	3.04	1165	900	
111 Cd	115	2	1.44	1.44	ppb	1.92	2443	2700	
121 Sb	115	2	0.10	0.10	ppb	13.25	847	1125	
137 Ba	159	2	196.10	196.10	ppb	1.15	521689	1350	
205 Tl	165	2	0.44	0.44	ppb	1.59	7790	900	
206 (Pb)	165	2	333.70	333.70	ppb	1.75	1749790	2700	
207 (Pb)	165	2	325.10	325.10	ppb	2.05	1479731	2700	
208 Pb	165	2	315.80	315.80	ppb	1.72	6830910	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	49653	0.63	44974	110.4	70 - 150	
45 Sc	2	893121	1.51	740888	120.5	70 - 150	
115 In	1	283048	0.05	315469	89.7	70 - 150	
115 In	2	811261	0.21	920005	88.2	70 - 150	
159 Tb	1	767958	0.84	799984	96.0	70 - 150	
159 Tb	2	1186784	1.22	1242164	95.5	70 - 150	
165 Ho	1	750799	1.12	779743	96.3	70 - 150	
165 Ho	2	1133824	1.58	1187929	95.4	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\043SMPL.D\043SMPL.D#
Date Acquired: May 23 2014 09:54 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-023
Misc Info: MS_7500 6020 SOIL
Vial Number: 2410
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.04	1.04	ppb	2.58	5290	2700	
23 Na	45	1	1,149.00	1149.00	ppb	1.41	866962	225000	
24 Mg	45	1	15,350.00	15350.00	ppb	0.38	5537050	225000	
27 Al	45	1	20,840.00	20840.00	ppb	1.39	4161835	67500	
39 K	45	1	4,946.00	4946.00	ppb	1.74	1690735	225000	
44 Ca	45	1	86,390.00	86390.00	ppb	1.33	1462505	225000	
51 V	45	1	52.86	52.86	ppb	1.47	148701	2700	
52 Cr	45	1	40.67	40.67	ppb	0.81	132090	2700	
55 Mn	45	1	991.00	991.00	ppb	1.25	2348247	2700	
56 Fe	45	1	30,380.00	30380.00	ppb	0.46	87574040	202500	
59 Co	45	1	18.52	18.52	ppb	0.41	98348	2700	
60 Ni	45	1	115.10	115.10	ppb	0.55	162881	2700	
65 Cu	45	1	66.60	66.60	ppb	0.87	126412	2700	
66 Zn	45	1	110.40	110.40	ppb	1.60	77129	2700	
75 As	115	1	85.73	85.73	ppb	0.67	32069	2250	
78 Se	115	1	1.81	1.81	ppb	20.21	197	2700	
83 Kr	115	2	----	--------	ppb	--------	333	2700	
95 Mo	115	2	1.53	1.53	ppb	3.59	4846	2700	
107 Ag	115	2	0.09	0.09	ppb	7.58	846	900	
111 Cd	115	2	0.38	0.38	ppb	3.35	673	2700	
121 Sb	115	2	0.21	0.21	ppb	1.90	1569	1125	
137 Ba	159	2	235.40	235.40	ppb	0.73	603069	1350	
205 Tl	165	2	0.38	0.38	ppb	1.40	6584	900	
206 (Pb)	165	2	169.90	169.90	ppb	0.60	864583	2700	
207 (Pb)	165	2	162.10	162.10	ppb	0.98	716301	2700	
208 Pb	165	2	166.20	166.20	ppb	0.35	3489773	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	49134	0.08	44974	109.3	70 - 150	
45 Sc	2	892713	1.69	740888	120.5	70 - 150	
115 In	1	277008	0.59	315469	87.8	70 - 150	
115 In	2	802004	0.74	920005	87.2	70 - 150	
159 Tb	1	742455	1.31	799984	92.8	70 - 150	
159 Tb	2	1142699	1.40	1242164	92.0	70 - 150	
165 Ho	1	727662	1.16	779743	93.3	70 - 150	
165 Ho	2	1100038	1.04	1187929	92.6	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\044SMPL.D\044SMPL.D#
Date Acquired: May 23 2014 10:00 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-024
Misc Info: MS_7500 6020 SOIL
Vial Number: 2501
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.91	0.91	ppb	2.39	4923	2700	
23 Na	45	1	1,021.00	1021.00	ppb	1.83	834811	225000	
24 Mg	45	1	14,400.00	14400.00	ppb	0.50	5509367	225000	
27 Al	45	1	22,400.00	22400.00	ppb	1.28	4743793	67500	
39 K	45	1	7,171.00	7171.00	ppb	0.78	2576006	225000	
44 Ca	45	1	48,830.00	48830.00	ppb	0.27	877080	225000	
51 V	45	1	66.94	66.94	ppb	0.67	199729	2700	
52 Cr	45	1	48.40	48.40	ppb	1.47	166600	2700	
55 Mn	45	1	1,744.00	1744.00	ppb	0.08	4384046	2700	
56 Fe	45	1	41,080.00	41080.00	ppb	0.32	125603400	202500	
59 Co	45	1	29.35	29.35	ppb	0.28	165209	2700	
60 Ni	45	1	170.50	170.50	ppb	0.85	255757	2700	
65 Cu	45	1	93.72	93.72	ppb	1.33	188421	2700	
66 Zn	45	1	127.70	127.70	ppb	0.56	94422	2700	
75 As	115	1	23.26	23.26	ppb	0.75	8652	2250	
78 Se	115	1	1.73	1.73	ppb	28.40	192	2700	
83 Kr	115	2	----	--------	ppb	--------	340	2700	
95 Mo	115	2	4.32	4.32	ppb	1.55	13376	2700	
107 Ag	115	2	0.06	0.06	ppb	13.97	608	900	
111 Cd	115	2	0.57	0.57	ppb	3.54	970	2700	
121 Sb	115	2	0.08	0.08	ppb	17.74	683	1125	
137 Ba	159	2	288.40	288.40	ppb	1.26	733896	1350	
205 Tl	165	2	0.47	0.47	ppb	2.07	7830	900	
206 (Pb)	165	2	48.99	48.99	ppb	1.53	246946	2700	
207 (Pb)	165	2	46.81	46.81	ppb	0.71	204896	2700	
208 Pb	165	2	46.07	46.07	ppb	0.44	958432	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	52116	1.21	44974	115.9	70 - 150	
45 Sc	2	945601	1.57	740888	127.6	70 - 150	
115 In	1	274876	1.26	315469	87.1	70 - 150	
115 In	2	796002	1.43	920005	86.5	70 - 150	
159 Tb	1	738049	1.46	799984	92.3	70 - 150	
159 Tb	2	1135491	0.85	1242164	91.4	70 - 150	
165 Ho	1	728328	0.92	779743	93.4	70 - 150	
165 Ho	2	1089086	0.94	1187929	91.7	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\045SMPL.D\045SMPL.D#
Date Acquired: May 23 2014 10:06 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-025
Misc Info: MS_7500 6020 SOIL
Vial Number: 2502
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.37	1.37	ppb	2.02	7243	2700	
23 Na	45	1	1,013.00	1013.00	ppb	0.80	820131	225000	
24 Mg	45	1	18,770.00	18770.00	ppb	0.75	7105175	225000	
27 Al	45	1	23,440.00	23440.00	ppb	1.36	4908764	67500	
39 K	45	1	5,460.00	5460.00	ppb	1.37	1952364	225000	
44 Ca	45	1	85,320.00	85320.00	ppb	2.03	1515354	225000	
51 V	45	1	64.18	64.18	ppb	0.71	189408	2700	
52 Cr	45	1	47.34	47.34	ppb	1.65	161199	2700	
55 Mn	45	1	1,826.00	1826.00	ppb	1.73	4540120	2700	
56 Fe	45	1	37,550.00	37550.00	ppb	0.74	113555000	202500	
59 Co	45	1	20.62	20.62	ppb	0.58	114857	2700	
60 Ni	45	1	112.70	112.70	ppb	1.36	167327	2700	
65 Cu	45	1	129.60	129.60	ppb	0.66	257506	2700	
66 Zn	45	1	155.30	155.30	ppb	1.10	113256	2700	
75 As	115	1	193.00	193.00	ppb	0.38	73813	2250	
78 Se	115	1	2.13	2.13	ppb	8.70	211	2700	
83 Kr	115	2	----	--------	ppb	--------	352	2700	
95 Mo	115	2	3.04	3.04	ppb	2.08	9775	2700	
107 Ag	115	2	0.19	0.19	ppb	3.34	1615	900	
111 Cd	115	2	0.69	0.69	ppb	2.53	1211	2700	
121 Sb	115	2	0.19	0.19	ppb	8.37	1476	1125	
137 Ba	159	2	325.40	325.40	ppb	0.44	854117	1350	
205 Tl	165	2	0.54	0.54	ppb	2.11	9342	900	
206 (Pb)	165	2	574.10	574.10	ppb	1.87	3006082	2700	
207 (Pb)	165	2	555.10	555.10	ppb	1.34	2523384	2700	
208 Pb	165	2	538.20	538.20	ppb	1.85	11626340	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	51547	1.15	44974	114.6	70 - 150	
45 Sc	2	939281	2.00	740888	126.8	70 - 150	
115 In	1	283346	1.03	315469	89.8	70 - 150	
115 In	2	822766	1.55	920005	89.4	70 - 150	
159 Tb	1	763234	1.64	799984	95.4	70 - 150	
159 Tb	2	1171074	2.02	1242164	94.3	70 - 150	
165 Ho	1	743424	1.37	779743	95.3	70 - 150	
165 Ho	2	1132447	2.24	1187929	95.3	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\046SMPL.D\046SMPL.D#
Date Acquired: May 23 2014 10:12 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78787-026
Misc Info: MS_7500 6020 SOIL
Vial Number: 2503
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.95	0.95	ppb	1.92	4929	2700	
23 Na	45	1	462.20	462.20	ppb	0.58	447975	225000	
24 Mg	45	1	10,660.00	10660.00	ppb	1.14	3935506	225000	
27 Al	45	1	19,230.00	19230.00	ppb	0.61	3929138	67500	
39 K	45	1	4,414.00	4414.00	ppb	0.63	1548867	225000	
44 Ca	45	1	20,020.00	20020.00	ppb	1.22	347016	225000	
51 V	45	1	54.14	54.14	ppb	0.40	155806	2700	
52 Cr	45	1	53.63	53.63	ppb	0.30	177947	2700	
55 Mn	45	1	1,076.00	1076.00	ppb	0.53	2608385	2700	
56 Fe	45	1	35,980.00	35980.00	ppb	1.00	106076100	202500	
59 Co	45	1	17.08	17.08	ppb	0.66	92811	2700	
60 Ni	45	1	138.40	138.40	ppb	0.81	200226	2700	
65 Cu	45	1	60.08	60.08	ppb	1.12	116712	2700	
66 Zn	45	1	116.80	116.80	ppb	0.28	83373	2700	
75 As	115	1	27.52	27.52	ppb	1.25	10446	2250	
78 Se	115	1	1.24	1.24	ppb	22.32	182	2700	
83 Kr	115	2	----	--------	ppb	--------	380	2700	
95 Mo	115	2	5.56	5.56	ppb	2.01	18028	2700	
107 Ag	115	2	0.05	0.05	ppb	10.11	539	900	
111 Cd	115	2	0.33	0.33	ppb	4.70	614	2700	
121 Sb	115	2	0.05	0.05	ppb	7.60	537	1125	
137 Ba	159	2	180.20	180.20	ppb	1.40	475587	1350	
205 Tl	165	2	0.36	0.36	ppb	0.91	6380	900	
206 (Pb)	165	2	73.84	73.84	ppb	1.67	384915	2700	
207 (Pb)	165	2	69.74	69.74	ppb	1.48	315613	2700	
208 Pb	165	2	69.30	69.30	ppb	1.49	1490608	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	50258	0.42	44974	111.8	70 - 150	
45 Sc	2	910759	1.45	740888	122.9	70 - 150	
115 In	1	280644	0.28	315469	89.0	70 - 150	
115 In	2	835041	0.64	920005	90.8	70 - 150	
159 Tb	1	742642	0.21	799984	92.8	70 - 150	
159 Tb	2	1176921	0.75	1242164	94.7	70 - 150	
165 Ho	1	736314	0.69	779743	94.4	70 - 150	
165 Ho	2	1126654	1.23	1187929	94.8	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\047SMPL.D\047SMPL.D#
Date Acquired: May 23 2014 10:17 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78793-002
Misc Info: MS_7500 6020 SOIL
Vial Number: 2504
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.57	0.57	ppb	2.53	2374	2700	
23 Na	45	1	113,400.00	113400.00	ppb	0.11	61727680	225000	
24 Mg	45	1	12,720.00	12720.00	ppb	0.95	3993028	225000	
27 Al	45	1	10,940.00	10940.00	ppb	0.76	1904502	67500	
39 K	45	1	1,897.00	1897.00	ppb	0.85	591384	225000	
44 Ca	45	1	273,300.00	273300.00	ppb	1.66	4025613	225000	>LDR
51 V	45	1	82.46	82.46	ppb	1.29	201856	2700	
52 Cr	45	1	159.60	159.60	ppb	1.60	449577	2700	
55 Mn	45	1	672.10	672.10	ppb	1.00	1386101	2700	
56 Fe	45	1	99,640.00	99640.00	ppb	0.92	249952900	202500	
59 Co	45	1	19.39	19.39	ppb	1.27	89619	2700	
60 Ni	45	1	123.20	123.20	ppb	1.17	151739	2700	
65 Cu	45	1	372.30	372.30	ppb	1.22	612524	2700	
66 Zn	45	1	564.10	564.10	ppb	1.32	338084	2700	
75 As	115	1	31.26	31.26	ppb	0.57	11831	2250	
78 Se	115	1	1.57	1.57	ppb	19.70	191	2700	
83 Kr	115	2	----	--------	ppb	--------	310	2700	
95 Mo	115	2	29.91	29.91	ppb	0.41	94619	2700	
107 Ag	115	2	0.62	0.62	ppb	4.68	5096	900	
111 Cd	115	2	1.33	1.33	ppb	1.54	2276	2700	
121 Sb	115	2	7.79	7.79	ppb	0.90	51704	1125	
137 Ba	159	2	78.76	78.76	ppb	1.43	202407	1350	
205 Tl	165	2	0.10	0.10	ppb	4.67	1831	900	
206 (Pb)	165	2	198.00	198.00	ppb	3.56	980853	2700	
207 (Pb)	165	2	192.10	192.10	ppb	2.40	826364	2700	
208 Pb	165	2	195.00	195.00	ppb	2.11	3987464	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	42762	0.38	44974	95.1	70 - 150	
45 Sc	2	720547	0.68	740888	97.3	70 - 150	
115 In	1	279976	1.09	315469	88.7	70 - 150	
115 In	2	818194	0.91	920005	88.9	70 - 150	
159 Tb	1	728605	0.82	799984	91.1	70 - 150	
159 Tb	2	1144758	2.21	1242164	92.2	70 - 150	
165 Ho	1	715620	0.07	779743	91.8	70 - 150	
165 Ho	2	1071527	1.27	1187929	90.2	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\048SMPL.D\048SMPL.D#
Date Acquired: May 23 2014 10:23 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78790-001
Misc Info: MS_7500 6020 SOIL
Vial Number: 2505
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Fail

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.33	1.33	ppb	1.84	9895	2700	
23 Na	45	1	2,100.00	2100.00	ppb	1.58	2140110	225000	
24 Mg	45	1	13,290.00	13290.00	ppb	1.29	7024724	225000	
27 Al	45	1	28,400.00	28400.00	ppb	1.50	8306468	67500	
39 K	45	1	1,160.00	1160.00	ppb	0.47	637626	225000	
44 Ca	45	1	9,643.00	9643.00	ppb	1.36	239873	225000	
51 V	45	1	102.60	102.60	ppb	1.05	422700	2700	
52 Cr	45	1	57.72	57.72	ppb	0.26	274361	2700	
55 Mn	45	1	843.40	843.40	ppb	1.22	2928912	2700	
56 Fe	45	1	56,720.00	56720.00	ppb	1.90	239612500	202500	
59 Co	45	1	25.96	25.96	ppb	0.45	201997	2700	
60 Ni	45	1	48.51	48.51	ppb	0.58	100665	2700	
65 Cu	45	1	108.10	108.10	ppb	1.06	300082	2700	
66 Zn	45	1	76.31	76.31	ppb	1.06	78727	2700	
75 As	115	1	10.19	10.19	ppb	1.61	3960	2250	
78 Se	115	1	5.60	5.60	ppb	7.61	323	2700	
83 Kr	115	2	----	--------	ppb	--------	526	2700	
95 Mo	115	2	1.86	1.86	ppb	3.68	6117	2700	
107 Ag	115	2	21.32	21.32	ppb	0.90	174433	900	
111 Cd	115	2	11.94	11.94	ppb	0.31	20556	2700	
121 Sb	115	2	0.03	0.03	ppb	21.98	419	1125	
137 Ba	159	2	168.80	168.80	ppb	0.67	476672	1350	
205 Tl	165	2	0.17	0.17	ppb	0.93	3323	900	
206 (Pb)	165	2	18.91	18.91	ppb	0.68	106897	2700	
207 (Pb)	165	2	17.42	17.42	ppb	0.57	85513	2700	
208 Pb	165	2	17.54	17.54	ppb	0.57	409358	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	72012	1.55	44974	160.1	70 - 150	ISTD Fail
45 Sc	2	1318588	0.88	740888	178.0	70 - 150	ISTD Fail
115 In	1	286279	1.13	315469	90.7	70 - 150	
115 In	2	838590	0.28	920005	91.2	70 - 150	
159 Tb	1	794564	1.78	799984	99.3	70 - 150	
159 Tb	2	1258969	1.52	1242164	101.4	70 - 150	
165 Ho	1	785456	0.82	779743	100.7	70 - 150	
165 Ho	2	1219192	0.49	1187929	102.6	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
2 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\049SMPL.D\049SMPL.D#
Date Acquired: May 23 2014 10:29 pm
Acq. Method: 6020SOIL.M
Operator: GK
Sample Name: 78790-002
Misc Info: MS_7500 6020 SOIL
Vial Number: 2506
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update: May 23 2014 06:28 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.35	1.35	ppb	2.31	8290	2700	
23 Na	45	1	1,169.00	1169.00	ppb	1.45	1069878	225000	
24 Mg	45	1	9,359.00	9359.00	ppb	0.87	4110345	225000	
27 Al	45	1	34,930.00	34930.00	ppb	1.04	8484207	67500	
39 K	45	1	1,579.00	1579.00	ppb	0.39	698649	225000	
44 Ca	45	1	4,498.00	4498.00	ppb	0.60	93238	225000	
51 V	45	1	83.73	83.73	ppb	0.46	286615	2700	
52 Cr	45	1	49.96	49.96	ppb	0.44	197289	2700	
55 Mn	45	1	617.20	617.20	ppb	0.73	1780167	2700	
56 Fe	45	1	51,220.00	51220.00	ppb	0.67	179656800	202500	
59 Co	45	1	23.14	23.14	ppb	0.44	149505	2700	
60 Ni	45	1	38.97	38.97	ppb	0.75	67180	2700	
65 Cu	45	1	67.43	67.43	ppb	0.43	155738	2700	
66 Zn	45	1	101.30	101.30	ppb	0.78	86230	2700	
75 As	115	1	10.79	10.79	ppb	0.72	4201	2250	
78 Se	115	1	3.53	3.53	ppb	11.40	258	2700	
83 Kr	115	2	----	--------	ppb	--------	378	2700	
95 Mo	115	2	1.12	1.12	ppb	1.93	3721	2700	
107 Ag	115	2	0.85	0.85	ppb	0.94	7058	900	
111 Cd	115	2	0.77	0.77	ppb	4.18	1370	2700	
121 Sb	115	2	0.03	0.03	ppb	21.53	440	1125	
137 Ba	159	2	172.50	172.50	ppb	1.49	467098	1350	
205 Tl	165	2	0.25	0.25	ppb	3.63	4705	900	
206 (Pb)	165	2	39.11	39.11	ppb	1.93	211987	2700	
207 (Pb)	165	2	36.42	36.42	ppb	1.46	171400	2700	
208 Pb	165	2	36.38	36.38	ppb	1.12	813748	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	59793	0.71	44974	133.0	70 - 150	
45 Sc	2	1091442	0.87	740888	147.3	70 - 150	
115 In	1	287012	1.63	315469	91.0	70 - 150	
115 In	2	840309	0.63	920005	91.3	70 - 150	
159 Tb	1	777618	1.29	799984	97.2	70 - 150	
159 Tb	2	1207900	1.28	1242164	97.2	70 - 150	
165 Ho	1	767147	0.99	779743	98.4	70 - 150	
165 Ho	2	1170722	1.12	1187929	98.6	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\S052314B.b\050SMPL.D\050SMPL.D#
Date Acquired:	May 23 2014 10:35 pm
Acq. Method:	6020SOIL.M
Operator:	GK
Sample Name:	RINSE
Misc Info:	MS_7500 6020 SOIL
Vial Number:	3101
Current Method:	C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal. Update:	May 23 2014 06:28 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.26	0.26	ppb	1.28	1090	2700	
23 Na	45	1	825.80	825.80	ppb	1.98	565872	225000	
24 Mg	45	1	326.70	326.70	ppb	3.74	102477	225000	
27 Al	45	1	320.80	320.80	ppb	6.90	60415	67500	
39 K	45	1	114.90	114.90	ppb	1.26	75261	225000	
44 Ca	45	1	959.10	959.10	ppb	4.26	14245	225000	
51 V	45	1	1.37	1.37	ppb	6.55	3354	2700	
52 Cr	45	1	1.76	1.76	ppb	4.38	5375	2700	
55 Mn	45	1	13.04	13.04	ppb	7.22	26690	2700	
56 Fe	45	1	845.00	845.00	ppb	5.50	2089192	202500	
59 Co	45	1	0.74	0.74	ppb	4.14	3439	2700	
60 Ni	45	1	1.58	1.58	ppb	5.04	1987	2700	
65 Cu	45	1	2.82	2.82	ppb	5.64	5055	2700	
66 Zn	45	1	3.17	3.17	ppb	3.16	3001	2700	
75 As	115	1	2.84	2.84	ppb	2.92	1183	2250	
78 Se	115	1	-0.97	-0.97	ppb	31.32	122	2700	
83 Kr	115	2	----	--------	ppb	--------	321	2700	
95 Mo	115	2	0.77	0.77	ppb	2.65	2686	2700	
107 Ag	115	2	0.31	0.31	ppb	2.69	2703	900	
111 Cd	115	2	0.37	0.37	ppb	2.94	710	2700	
121 Sb	115	2	0.30	0.30	ppb	2.51	2296	1125	
137 Ba	159	2	4.26	4.26	ppb	0.21	11766	1350	
205 Tl	165	2	0.33	0.33	ppb	1.51	5933	900	
206 (Pb)	165	2	6.89	6.89	ppb	0.97	36450	2700	
207 (Pb)	165	2	6.67	6.67	ppb	1.26	30642	2700	
208 Pb	165	2	6.50	6.50	ppb	1.49	142061	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	41815	0.78	44974	93.0	70 - 150	
45 Sc	2	684478	0.84	740888	92.4	70 - 150	
115 In	1	302348	0.68	315469	95.8	70 - 150	
115 In	2	863292	0.93	920005	93.8	70 - 150	
159 Tb	1	792124	0.72	799984	99.0	70 - 150	
159 Tb	2	1179286	1.09	1242164	94.9	70 - 150	
165 Ho	1	775166	0.42	779743	99.4	70 - 150	
165 Ho	2	1135369	1.17	1187929	95.6	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\051_CCV.D\051_CCV.D#
Date Acquired: May 23 2014 10:41 pm
Operator: GK
Sample Name: CCV V-187144
Misc Info: MS_7500 6020 SOIL
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	47.47	ppb	0.52	192708	50	94.9	90 - 110	
23 Na	45	1	4845.00	ppb	1.55	2844255	5000	96.9	90 - 110	
24 Mg	45	1	4865.00	ppb	0.72	1574602	5000	97.3	90 - 110	
27 Al	45	1	1443.00	ppb	1.11	264194	1500	96.2	90 - 110	
39 K	45	1	4949.00	ppb	0.34	1516077	5000	99.0	90 - 110	
44 Ca	45	1	4864.00	ppb	0.36	74221	5000	97.3	90 - 110	
51 V	45	1	49.06	ppb	0.98	123708	50	98.1	90 - 110	
52 Cr	45	1	49.17	ppb	0.58	142999	50	98.3	90 - 110	
55 Mn	45	1	48.86	ppb	0.17	104149	50	97.7	90 - 110	
56 Fe	45	1	4999.00	ppb	0.55	12930100	5000	100.0	90 - 110	
59 Co	45	1	49.87	ppb	0.51	237102	50	99.7	90 - 110	
60 Ni	45	1	49.84	ppb	0.78	63246	50	99.7	90 - 110	
65 Cu	45	1	50.50	ppb	1.43	86040	50	101.0	90 - 110	
66 Zn	45	1	48.87	ppb	0.57	31266	50	97.7	90 - 110	
75 As	115	1	48.80	ppb	0.63	20605	50	97.6	90 - 110	
78 Se	115	1	243.90	ppb	0.32	8598	250	97.6	90 - 110	
83 Kr	115	2	--------	ppb	--------	292	50	#VALUE!	##### - #####	
95 Mo	115	2	49.28	ppb	0.58	172939	50	98.6	90 - 110	
107 Ag	115	2	49.42	ppb	1.75	437707	50	98.8	90 - 110	
111 Cd	115	2	48.81	ppb	1.09	90790	50	97.6	90 - 110	
121 Sb	115	2	48.81	ppb	1.55	358463	50	97.6	90 - 110	
137 Ba	159	2	49.99	ppb	0.77	139286	50	100.0	90 - 110	
205 Tl	165	2	46.71	ppb	1.15	820353	50	93.4	90 - 110	
206 (Pb)	165	2	49.19	ppb	0.80	269131	50	98.4	90 - 110	
207 (Pb)	165	2	49.49	ppb	0.27	235091	50	99.0	90 - 110	
208 Pb	165	2	47.81	ppb	0.78	1079214	50	95.6	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	44034	1.44	44974	97.9	80 - 120	
45 Sc	2	732590	0.70	740888	98.9	80 - 120	
115 In	1	312502	1.22	315469	99.1	80 - 120	
115 In	2	908071	1.06	920005	98.7	80 - 120	
159 Tb	1	804132	0.79	799984	100.5	80 - 120	
159 Tb	2	1239209	1.82	1242164	99.8	80 - 120	
165 Ho	1	789168	1.67	779743	101.2	80 - 120	
165 Ho	2	1181959	1.61	1187929	99.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\052_CCV.D\052_CCV.D#
Date Acquired: May 23 2014 10:47 pm
Operator: GK
Sample Name: LLCCV V-187145
Misc Info: MS_7500 6020 SOIL
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: LL-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.93	ppb	3.59	3870	1	93.4	70 - 130	
23 Na	45	1	439.90	ppb	0.10	376823	500	88.0	70 - 130	
24 Mg	45	1	485.80	ppb	0.48	157966	500	97.2	70 - 130	
27 Al	45	1	456.50	ppb	0.85	87124	500	91.3	70 - 130	
39 K	45	1	462.90	ppb	0.42	181167	500	92.6	70 - 130	
44 Ca	45	1	480.00	ppb	0.15	7668	500	96.0	70 - 130	
51 V	45	1	0.99	ppb	1.30	2543	1	99.0	70 - 130	
52 Cr	45	1	1.98	ppb	1.18	6254	2	99.2	70 - 130	
55 Mn	45	1	5.76	ppb	0.48	12522	6	95.9	70 - 130	
56 Fe	45	1	517.50	ppb	0.98	1342533	500	103.5	70 - 130	
59 Co	45	1	1.97	ppb	2.25	9402	2	98.5	70 - 130	
60 Ni	45	1	2.90	ppb	1.08	3743	3	96.8	70 - 130	
65 Cu	45	1	9.79	ppb	0.38	16985	10	97.9	70 - 130	
66 Zn	45	1	18.68	ppb	1.58	12594	20	93.4	70 - 130	
75 As	115	1	0.98	ppb	3.18	436	1	98.0	70 - 130	
78 Se	115	1	8.29	ppb	6.40	443	10	82.9	70 - 130	
83 Kr	115	2	--------	ppb	--------	270	1	#VALUE!	##### - #####	
95 Mo	115	2	0.97	ppb	6.11	3551	1	97.4	70 - 130	
107 Ag	115	2	0.95	ppb	2.40	8611	1	95.1	70 - 130	
111 Cd	115	2	1.83	ppb	1.11	3479	2	91.5	70 - 130	
121 Sb	115	2	3.82	ppb	0.43	28424	4	95.4	70 - 130	
137 Ba	159	2	5.07	ppb	1.39	14622	5	101.4	70 - 130	
205 Tl	165	2	1.79	ppb	1.37	32035	2	89.4	70 - 130	
206 (Pb)	165	2	1.93	ppb	3.30	10961	2	96.6	70 - 130	
207 (Pb)	165	2	1.94	ppb	2.23	9578	2	97.0	70 - 130	
208 Pb	165	2	1.85	ppb	1.75	43473	2	92.6	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	43664	1.04	44974	97.1	80 - 120	
45 Sc	2	721922	1.05	740888	98.2	80 - 120	
115 In	1	310475	1.46	315469	98.4	80 - 120	
115 In	2	914182	0.70	920005	99.4	80 - 120	
159 Tb	1	793382	0.76	799984	99.2	80 - 120	
159 Tb	2	1241021	1.99	1242164	99.9	80 - 120	
165 Ho	1	775270	0.74	779743	99.4	80 - 120	
165 Ho	2	1194230	0.97	1187929	100.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\S052314B.b\053_CCB.D\053_CCB.D#
Date Acquired: May 23 2014 10:53 pm
Operator: GK
Sample Name: CCB V-187141
Misc Info: MS_7500 6020 SOIL
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020SOIL.M
Calibration File: C:\ICPCHEM\1\CALIB\6020SOIL.C
Last Cal Update: May 23 2014 06:28 pm
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	-0.003	ppb	249.45	93	1.00	
23 Na	45	1	-36.660	ppb	4.54	112825	500.00	
24 Mg	45	1	-3.558	ppb	4.81	1158	500.00	
27 Al	45	1	-31.700	ppb	0.90	630	500.00	
39 K	45	1	-12.080	ppb	5.65	41286	500.00	
44 Ca	45	1	-18.250	ppb	8.66	176	500.00	
51 V	45	1	-0.002	ppb	373.24	67	1.00	
52 Cr	45	1	-0.070	ppb	4.39	355	2.00	
55 Mn	45	1	-0.078	ppb	6.48	238	6.00	
56 Fe	45	1	0.441	ppb	34.91	18290	500.00	
59 Co	45	1	-0.007	ppb	47.59	83	2.00	
60 Ni	45	1	-0.028	ppb	43.24	60	3.00	
65 Cu	45	1	-0.196	ppb	10.56	220	10.00	
66 Zn	45	1	-1.647	ppb	3.45	194	20.00	
75 As	115	1	0.003	ppb	681.71	26	1.00	
78 Se	115	1	-1.339	ppb	14.37	112	10.00	
83 Kr	115	2	--------	ppb	--------	268	1.00	
95 Mo	115	2	-0.003	ppb	154.24	99	1.00	
107 Ag	115	2	0.001	ppb	313.64	137	1.00	
111 Cd	115	2	-0.005	ppb	43.36	45	2.00	
121 Sb	115	2	0.002	ppb	72.56	241	4.00	
137 Ba	159	2	-0.145	ppb	7.91	129	5.00	
205 Tl	165	2	-0.002	ppb	204.81	288	2.00	
206 (Pb)	165	2	-0.001	ppb	225.25	283	2.00	
207 (Pb)	165	2	0.002	ppb	47.59	286	2.00	
208 Pb	165	2	-0.003	ppb	49.76	1240	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	43794	0.32	44974	97.4	80 - 120	
45 Sc	2	735429	0.99	740888	99.3	80 - 120	
115 In	1	310293	0.76	315469	98.4	80 - 120	
115 In	2	910776	1.35	920005	99.0	80 - 120	
159 Tb	1	788637	0.43	799984	98.6	80 - 120	
159 Tb	2	1235285	0.33	1242164	99.4	80 - 120	
165 Ho	1	772148	1.31	779743	99.0	80 - 120	
165 Ho	2	1191194	1.31	1187929	100.3	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

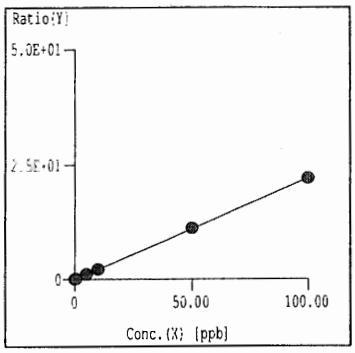
ISTD Ref File : C:\ICPCHEM\1\DATA\S052314B.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

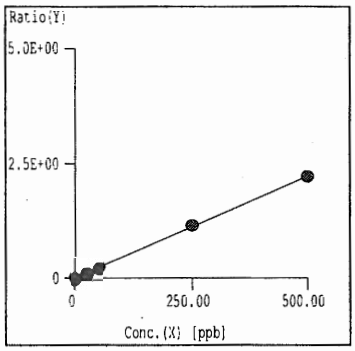
=== Graph Detail ===

Step	Mass	Element	ISTD	Unit
(2)	9	Be	45	ppb



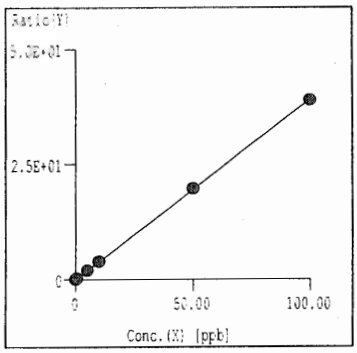
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 2.215E-001*X +5.755E-003
X = 4.514E+000*Y -2.598E-002
DL = 1.438E-02 ppb
BEC = 2.598E-02 ppb

Step	Mass	Element	ISTD	Unit
(1)	78	Se	115	ppb



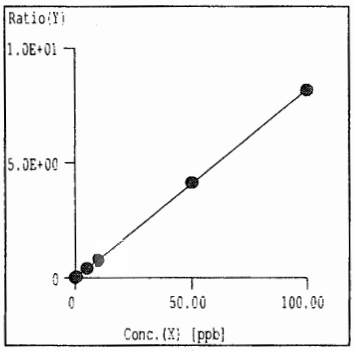
Curve Fit: Y=aX+b
r = 0.9999
Y = 4.429E-003*X +2.038E-002
X = 2.258E+002*Y -4.600E+000
DL = 1.091 ppb
BEC = 4.600 ppb

Step	Mass	Element	ISTD	Unit
(2)	107	Ag	115	ppb



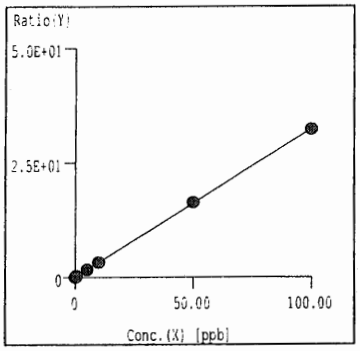
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 3.901E-001*X +5.697E-003
X = 2.564E+000*Y -1.461E-002
DL = 8.206E-03 ppb
BEC = 1.461E-02 ppb

Step	Mass	Element	ISTD	Unit
(2)	111	Cd	115	ppb



Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 8.189E-002*X +2.384E-003
X = 1.221E+001*Y -2.911E-002
DL = 6.407E-03 ppb
BEC = 2.911E-02 ppb

Step	Mass	Element	ISTD	Unit
(2)	121	Sb	115	ppb



Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 3.233E-001*X +9.793E-003
X = 3.093E+000*Y -3.029E-002
DL = 1.721E-02 ppb
BEC = 3.029E-02 ppb

S16379AS

163774052101 1670
SOIL

Acto: 05/23/201

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Method Loaded
Method Name: PE3 7300DV AX-S-LL
IEC File: IEC090313A.iec
Method Description: 200.7/6010C

Method Last Saved: 5/22/2014 11:01:04 AM
MSF File:

==========

Sequence No.: 1
Sample ID: CALBLK V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/22/2014 9:26:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-183928

16379/32817

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	388102.9	6910.67	1.78%	100	%
Y 371.029	162097.1	5044.40	3.11%	100	%
Ag 328.068†	60.8	16.50	27.12%	[0.00]	mg/L
Al 308.215†	3847.2	6.36	0.17%	[0.00]	mg/L
As 188.979†	-0.7	3.04	420.12%	[0.00]	mg/L
Ba 233.527†	-108.8	1.31	1.21%	[0.00]	mg/L
Be 313.107†	-994.1	57.03	5.74%	[0.00]	mg/L
Ca 317.933†	2085.7	78.66	3.77%	[0.00]	mg/L
Cd 228.802†	165.4	0.83	0.50%	[0.00]	mg/L
Co 228.616†	541.7	11.87	2.19%	[0.00]	mg/L
Cr 267.716†	376.7	0.64	0.17%	[0.00]	mg/L
Cu 327.393†	-1655.5	47.91	2.89%	[0.00]	mg/L
Fe 273.955†	-81.0	2.83	3.49%	[0.00]	mg/L
K 404.721†	36366.3	220.56	0.61%	[0.00]	mg/L
Mg 279.077†	-26.0	0.62	2.39%	[0.00]	mg/L
Mn 257.610†	151.4	14.79	9.77%	[0.00]	mg/L
Mo 202.031†	35.4	0.92	2.60%	[0.00]	mg/L
Na 330.237†	-483.9	23.81	4.92%	[0.00]	mg/L
Ni 231.604†	530.9	5.13	0.97%	[0.00]	mg/L
Pb 220.353†	85.6	1.17	1.37%	[0.00]	mg/L
Sb 206.836†	38.9	0.59	1.52%	[0.00]	mg/L
Se 196.026†	-1.1	0.28	24.81%	[0.00]	mg/L
Sn 189.927†	-9.5	5.38	56.41%	[0.00]	mg/L
Ti 334.940†	-251.2	1.82	0.72%	[0.00]	mg/L
Tl 190.801†	-4.6	0.50	10.95%	[0.00]	mg/L
V 290.880†	908.2	8.46	0.93%	[0.00]	mg/L
Zn 206.200†	-149.7	4.41	2.95%	[0.00]	mg/L

All elements reported except earth elements.

Sequence No.: 2
Sample ID: CALST1 V-185363
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 5/22/2014 9:29:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST1 V-185363

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	423343.1	7278.44	1.72%	109	%
Y 371.029	164116.7	2599.37	1.58%	101	%
As 188.979†	3.9	3.11	78.79%	[0.005]	mg/L
Be 313.107†	4051.4	96.00	2.37%	[0.003]	mg/L
Cd 228.802†	46.9	3.32	7.08%	[0.003]	mg/L
Pb 220.353†	4.4	14.44	331.74%	[0.004]	mg/L
Tl 190.801†	6.7	2.24	33.42%	[0.005]	mg/L

Sequence No.: 3
Sample ID: CALST2 V-186224
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 5/22/2014 9:33:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-186224

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	423412.2	3298.31	0.78%	109	%
Y 371.029	164397.4	1310.06	0.80%	101	%
Ag 328.068†	175.0	69.44	39.68%	[0.002]	mg/L
Al 308.215†	822.5	58.00	7.05%	[0.10]	mg/L
As 188.979†	7.0	0.64	9.14%	[0.010]	mg/L
Ba 233.527†	823.9	9.68	1.17%	[0.010]	mg/L
Be 313.107†	12495.4	162.46	1.30%	[0.010]	mg/L
Ca 317.933†	61140.3	1664.25	2.72%	[1.0]	mg/L
Cd 228.802†	182.6	0.81	0.44%	[0.010]	mg/L
Co 228.616†	185.1	2.99	1.62%	[0.010]	mg/L
Cr 267.716†	240.6	23.00	9.56%	[0.010]	mg/L
Cu 327.393†	680.4	127.21	18.69%	[0.010]	mg/L
Fe 273.955†	1495.4	4.10	0.27%	[0.10]	mg/L
K 404.721†	-3297.2	62.20	1.89%	[1.0]	mg/L
Standard intensity and concentration values are not in the same order.					
Mg 279.077†	5580.6	76.36	1.37%	[1.0]	mg/L
Mn 257.610†	2576.1	58.60	2.27%	[0.010]	mg/L
Mo 202.031†	89.5	1.69	1.89%	[0.010]	mg/L
Na 330.237†	244.8	30.92	12.63%	[1.0]	mg/L
Ni 231.604†	246.2	5.81	2.36%	[0.010]	mg/L
Pb 220.353†	29.9	3.37	11.28%	[0.010]	mg/L
Sb 206.836†	11.0	1.87	16.96%	[0.010]	mg/L
Se 196.026†	7.2	0.69	9.57%	[0.010]	mg/L
Sn 189.927†	27.9	0.88	3.14%	[0.010]	mg/L
Ti 334.940†	1397.7	12.81	0.92%	[0.010]	mg/L
Tl 190.801†	13.2	0.70	5.30%	[0.010]	mg/L
V 290.880†	541.9	42.77	7.89%	[0.010]	mg/L
Zn 206.200†	335.5	0.13	0.04%	[0.010]	mg/L

Sequence No.: 4
Sample ID: CALST3 V-185198
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 5/22/2014 9:36:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-185198

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	396472.9	2798.04	0.71%	102	%
Y 371.029	150671.4	996.38	0.66%	93.0	%
Ag 328.068†	8389.4	73.72	0.88%	[0.10]	mg/L
Al 308.215†	55264.5	734.93	1.33%	[5.0]	mg/L
As 188.979†	419.8	8.64	2.06%	[0.50]	mg/L
Ba 233.527†	42110.6	393.77	0.94%	[0.50]	mg/L
Be 313.107†	683819.1	20081.86	2.94%	[0.50]	mg/L
Ca 317.933†	3125080.4	91114.84	2.92%	[50]	mg/L
Cd 228.802†	11316.2	102.57	0.91%	[0.50]	mg/L
Co 228.616†	12360.0	109.73	0.89%	[0.50]	mg/L
Cr 267.716†	14904.9	161.87	1.09%	[0.50]	mg/L
Cu 327.393†	30468.5	448.69	1.47%	[0.50]	mg/L
Fe 273.955†	73921.8	730.59	0.99%	[5.0]	mg/L
K 404.721†	4354.1	52.30	1.20%	[50]	mg/L
Standard intensity and concentration values are not in the same order.					
Mg 279.077†	279910.5	8709.28	3.11%	[50]	mg/L
Mn 257.610†	134218.0	1552.03	1.16%	[0.50]	mg/L
Mo 202.031†	5007.9	96.11	1.92%	[0.50]	mg/L
Na 330.237†	14916.5	138.59	0.93%	[50]	mg/L
Ni 231.604†	13769.6	129.10	0.94%	[0.50]	mg/L
Pb 220.353†	2075.7	42.18	2.03%	[0.50]	mg/L
Sb 206.836†	744.1	14.74	1.98%	[0.50]	mg/L
Se 196.026†	273.6	9.92	3.63%	[0.50]	mg/L
Sn 189.927†	1466.3	43.80	2.99%	[0.50]	mg/L
Ti 334.940†	73388.3	544.80	0.74%	[0.50]	mg/L
Tl 190.801†	552.5	8.85	1.60%	[0.50]	mg/L
V 290.880†	33632.1	414.29	1.23%	[0.50]	mg/L
Zn 206.200†	17533.4	169.92	0.97%	[0.50]	mg/L

Sequence No.: 5
Sample ID: CALST4 V-186713
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/22/2014 9:40:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-186713

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	388795.3	2476.95	0.64%	100	%
Y 371.029	147440.3	1421.21	0.96%	91.0	%
Ag 328.068†	16144.3	99.93	0.62%	[0.20]	mg/L
Al 308.215†	105125.7	1627.43	1.55%	[10]	mg/L
As 188.979†	818.8	19.67	2.40%	[1.0]	mg/L
Ba 233.527†	79902.2	842.28	1.05%	[1.0]	mg/L
Be 313.107†	1317979.6	35925.54	2.73%	[1.0]	mg/L
Ca 317.933†	5962751.5	149991.62	2.52%	[100]	mg/L
Cd 228.802†	21816.6	248.71	1.14%	[1.0]	mg/L
Co 228.616†	23410.8	262.68	1.12%	[1.0]	mg/L
Cr 267.716†	28293.3	299.18	1.06%	[1.0]	mg/L
Cu 327.393†	58039.0	542.31	0.93%	[1.0]	mg/L
Fe 273.955†	139770.7	1835.16	1.31%	[10]	mg/L
K 404.721†	9869.2	452.37	4.58%	[100]	mg/L
Standard intensity and concentration values are not in the same order.					
Mg 279.077†	490346.9	4759.57	0.97%	[100]	mg/L
Mn 257.610†	256552.2	3041.55	1.19%	[1.0]	mg/L
Mo 202.031†	9651.4	183.36	1.90%	[1.0]	mg/L
Na 330.237†	30581.2	389.87	1.27%	[100]	mg/L
Ni 231.604†	25931.6	290.27	1.12%	[1.0]	mg/L
Pb 220.353†	4007.1	85.35	2.13%	[1.0]	mg/L
Sb 206.836†	1442.6	38.92	2.70%	[1.0]	mg/L
Se 196.026†	529.2	16.47	3.11%	[1.0]	mg/L
Sn 189.927†	2816.6	51.19	1.82%	[1.0]	mg/L
Ti 334.940†	147112.5	5167.53	3.51%	[1.0]	mg/L
Tl 190.801†	1066.7	28.61	2.68%	[1.0]	mg/L
V 290.880†	63795.0	637.13	1.00%	[1.0]	mg/L
Zn 206.200†	32330.2	424.97	1.31%	[1.0]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	63.9	80970	0.00000	0.999799	
Al 308.215	3	Lin, Calc Int	387.8	10570	0.00000	0.999634	
As 188.979	4	Lin, Calc Int	0.9	821.9	0.00000	0.999920	
Ba 233.527	3	Lin, Calc Int	404.3	80280	0.00000	0.999615	
Be 313.107	4	Lin, Calc Int	2911.2	1324000	0.00000	0.999832	
Ca 317.933	3	Lin, Calc Int	26841.3	59880	0.00000	0.999693	
Cd 228.802	4	Lin, Calc Int	33.9	21940	0.00000	0.999828	
Co 228.616	3	Lin, Calc Int	96.9	23560	0.00000	0.999570	
Cr 267.716	3	Lin, Calc Int	118.8	28450	0.00000	0.999609	
Cu 327.393	3	Lin, Calc Int	309.2	58250	0.00000	0.999679	
Fe 273.955	3	Lin, Calc Int	779.0	14040	0.00000	0.999563	
K 404.721	3	Lin, Calc Int	-1647.4	116.0	0.00000	0.969343	
Mg 279.077	3	Lin, Calc Int	6629.6	4962	0.00000	0.997413	
Mn 257.610	3	Lin, Calc Int	1086.3	257600	0.00000	0.999716	
Mo 202.031	3	Lin, Calc Int	30.0	9688	0.00000	0.999807	
Na 330.237	3	Lin, Calc Int	-95.8	305.5	0.00000	0.999925	
Ni 231.604	3	Lin, Calc Int	140.3	26080	0.00000	0.999488	
Pb 220.353	4	Lin, Calc Int	2.1	4033	0.00000	0.999829	
Sb 206.836	3	Lin, Calc Int	2.6	1449	0.00000	0.999855	
Se 196.026	3	Lin, Calc Int	2.5	529.8	0.00000	0.999855	
Sn 189.927	3	Lin, Calc Int	10.4	2827	0.00000	0.999775	
Ti 334.940	3	Lin, Calc Int	-63.9	147100	0.00000	0.999999	
Tl 190.801	4	Lin, Calc Int	3.6	1070	0.00000	0.999856	
V 290.880	3	Lin, Calc Int	272.1	64160	0.00000	0.999597	
Zn 206.200	3	Lin, Calc Int	254.6	32570	0.00000	0.999061	

Sequence No.: 6
Sample ID: ICS3 V-185198
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 5/22/2014 9:44:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-185198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	397273.8	102	%	1.5				1.45%
Y 371.029	150982.4	93.1	%	1.27				1.36%
Ag 328.068†	8228.1	0.103003	mg/L	0.0013641	0.103003	mg/L	0.0013641	1.32%
QC value within limits for Ag 328.068 Recovery = 103.00%								
Al 308.215†	54223.5	4.99867	mg/L	0.100989	4.99867	mg/L	0.100989	2.02%
QC value within limits for Al 308.215 Recovery = 99.97%								
As 188.979†	417.4	0.508545	mg/L	0.0063151	0.508545	mg/L	0.0063151	1.24%
QC value within limits for As 188.979 Recovery = 101.71%								
Ba 233.527†	41261.2	0.508766	mg/L	0.0093152	0.508766	mg/L	0.0093152	1.83%
QC value within limits for Ba 233.527 Recovery = 101.75%								
Be 313.107†	672701.6	0.505539	mg/L	0.0163802	0.505539	mg/L	0.0163802	3.24%
QC value within limits for Be 313.107 Recovery = 101.11%								
Ca 317.933†	3075396.8	50.9126	mg/L	1.59228	50.9126	mg/L	1.59228	3.13%
QC value within limits for Ca 317.933 Recovery = 101.83%								
Cd 228.802†	11123.3	0.505478	mg/L	0.0099368	0.505478	mg/L	0.0099368	1.97%
QC value within limits for Cd 228.802 Recovery = 101.10%								
Co 228.616†	12132.8	0.512329	mg/L	0.0092681	0.512329	mg/L	0.0092681	1.81%
QC value within limits for Co 228.616 Recovery = 102.47%								
Cr 267.716†	14564.3	0.512085	mg/L	0.0076841	0.512085	mg/L	0.0076841	1.50%
QC value within limits for Cr 267.716 Recovery = 102.42%								
Cu 327.393†	29823.4	0.506717	mg/L	0.0084708	0.506717	mg/L	0.0084708	1.67%
QC value within limits for Cu 327.393 Recovery = 101.34%								
Fe 273.955†	72360.4	5.08411	mg/L	0.100059	5.08411	mg/L	0.100059	1.97%
QC value within limits for Fe 273.955 Recovery = 101.68%								
K 404.721†	4022.9	48.8824	mg/L	2.98258	48.8824	mg/L	2.98258	6.10%
QC value within limits for K 404.721 Recovery = 97.76%								
Mg 279.077†	275132.6	54.1435	mg/L	1.71021	54.1435	mg/L	1.71021	3.16%
QC value within limits for Mg 279.077 Recovery = 108.29%								
Mn 257.610†	132145.0	0.506872	mg/L	0.0093863	0.506872	mg/L	0.0093863	1.85%
QC value within limits for Mn 257.610 Recovery = 101.37%								
Mo 202.031†	4969.1	0.506325	mg/L	0.0080630	0.506325	mg/L	0.0080630	1.59%
QC value within limits for Mo 202.031 Recovery = 101.26%								
Na 330.237†	14613.3	48.1526	mg/L	0.94037	48.1526	mg/L	0.94037	1.95%
QC value within limits for Na 330.237 Recovery = 96.31%								
Ni 231.604†	13433.2	0.510391	mg/L	0.0092017	0.510391	mg/L	0.0092017	1.80%
QC value within limits for Ni 231.604 Recovery = 102.08%								
Pb 220.353†	2075.7	0.511238	mg/L	0.0059405	0.511238	mg/L	0.0059405	1.16%
QC value within limits for Pb 220.353 Recovery = 102.25%								
Sb 206.836†	741.6	0.509110	mg/L	0.0123493	0.509110	mg/L	0.0123493	2.43%
QC value within limits for Sb 206.836 Recovery = 101.82%								
Se 196.026†	271.3	0.506896	mg/L	0.0059034	0.506896	mg/L	0.0059034	1.16%
QC value within limits for Se 196.026 Recovery = 101.38%								
Sn 189.927†	1460.3	0.514594	mg/L	0.0091125	0.514594	mg/L	0.0091125	1.77%
QC value within limits for Sn 189.927 Recovery = 102.92%								
Ti 334.940†	72772.7	0.494889	mg/L	0.0079259	0.494889	mg/L	0.0079259	1.60%
QC value within limits for Ti 334.940 Recovery = 98.98%								
Tl 190.801†	557.4	0.518244	mg/L	0.0116506	0.518244	mg/L	0.0116506	2.25%
QC value within limits for Tl 190.801 Recovery = 103.65%								
V 290.880†	32993.5	0.504332	mg/L	0.0110091	0.504332	mg/L	0.0110091	2.18%
QC value within limits for V 290.880 Recovery = 100.87%								
Zn 206.200†	17148.0	0.517734	mg/L	0.0076573	0.517734	mg/L	0.0076573	1.48%
QC value within limits for Zn 206.200 Recovery = 103.55%								

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICV (1) V-186533
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/22/2014 9:48:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV (1) V-186533

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	396699.4	102	%	0.6				0.62%
Y 371.029	150777.0	93.0	%	0.65				0.70%
Ag 328.068†	8141.5	0.101869	mg/L	0.0029386	0.101869	mg/L	0.0029386	2.88%
QC value within limits for Ag 328.068 Recovery = 101.87%								
Al 308.215†	53352.2	4.91915	mg/L	0.106289	4.91915	mg/L	0.106289	2.16%
QC value within limits for Al 308.215 Recovery = 98.38%								
As 188.979†	408.4	0.497577	mg/L	0.0020479	0.497577	mg/L	0.0020479	0.41%
QC value within limits for As 188.979 Recovery = 99.52%								
Ba 233.527†	40724.8	0.502089	mg/L	0.0101931	0.502089	mg/L	0.0101931	2.03%
QC value within limits for Ba 233.527 Recovery = 100.42%								
Be 313.107†	653003.5	0.490667	mg/L	0.0142652	0.490667	mg/L	0.0142652	2.91%
QC value within limits for Be 313.107 Recovery = 98.13%								
Ca 317.933†	2982822.8	49.3666	mg/L	1.36935	49.3666	mg/L	1.36935	2.77%
QC value within limits for Ca 317.933 Recovery = 98.73%								
Cd 228.802†	10964.1	0.498221	mg/L	0.0117102	0.498221	mg/L	0.0117102	2.35%
QC value within limits for Cd 228.802 Recovery = 99.64%								
Co 228.616†	11816.7	0.498819	mg/L	0.0123053	0.498819	mg/L	0.0123053	2.47%
QC value within limits for Co 228.616 Recovery = 99.76%								
Cr 267.716†	14500.3	0.509703	mg/L	0.0129737	0.509703	mg/L	0.0129737	2.55%
QC value within limits for Cr 267.716 Recovery = 101.94%								
Cu 327.393†	28993.7	0.492472	mg/L	0.0094233	0.492472	mg/L	0.0094233	1.91%
QC value within limits for Cu 327.393 Recovery = 98.49%								
Fe 273.955†	70337.3	4.94017	mg/L	0.113418	4.94017	mg/L	0.113418	2.30%
QC value within limits for Fe 273.955 Recovery = 98.80%								
K 404.721†	4075.1	49.3329	mg/L	0.30829	49.3329	mg/L	0.30829	0.62%
QC value within limits for K 404.721 Recovery = 98.67%								
Mg 279.077†	272892.0	53.6905	mg/L	1.67669	53.6905	mg/L	1.67669	3.12%
QC value within limits for Mg 279.077 Recovery = 107.38%								
Mn 257.610†	128944.9	0.494466	mg/L	0.0101076	0.494466	mg/L	0.0101076	2.04%
QC value within limits for Mn 257.610 Recovery = 98.89%								
Mo 202.031†	4767.1	0.485564	mg/L	0.0004044	0.485564	mg/L	0.0004044	0.08%
QC value within limits for Mo 202.031 Recovery = 97.11%								
Na 330.237†	14439.8	47.5848	mg/L	0.97933	47.5848	mg/L	0.97933	2.06%
QC value within limits for Na 330.237 Recovery = 95.17%								
Ni 231.604†	13271.4	0.504158	mg/L	0.0104422	0.504158	mg/L	0.0104422	2.07%
QC value within limits for Ni 231.604 Recovery = 100.83%								
Pb 220.353†	2022.6	0.498098	mg/L	0.0002809	0.498098	mg/L	0.0002809	0.06%
QC value within limits for Pb 220.353 Recovery = 99.62%								
Sb 206.836†	714.5	0.490405	mg/L	0.0031835	0.490405	mg/L	0.0031835	0.65%
QC value within limits for Sb 206.836 Recovery = 98.08%								
Se 196.026†	258.6	0.482838	mg/L	0.0134542	0.482838	mg/L	0.0134542	2.79%
QC value within limits for Se 196.026 Recovery = 96.57%								
Sn 189.927†	1427.4	0.502911	mg/L	0.0046403	0.502911	mg/L	0.0046403	0.92%
QC value within limits for Sn 189.927 Recovery = 100.58%								
Ti 334.940†	72084.8	0.490222	mg/L	0.0060056	0.490222	mg/L	0.0060056	1.23%
QC value within limits for Ti 334.940 Recovery = 98.04%								
Tl 190.801†	537.8	0.499943	mg/L	0.0025614	0.499943	mg/L	0.0025614	0.51%
QC value within limits for Tl 190.801 Recovery = 99.99%								
V 290.880†	32213.3	0.492225	mg/L	0.0112082	0.492225	mg/L	0.0112082	2.28%
QC value within limits for V 290.880 Recovery = 98.44%								
Zn 206.200†	16443.8	0.496142	mg/L	0.0124429	0.496142	mg/L	0.0124429	2.51%
QC value within limits for Zn 206.200 Recovery = 99.23%								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: LLICV V-187248
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/22/2014 9:52:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV V-187248

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	416668.2	107	%	1.7				1.62%
Y 371.029	160496.5	99.0	%	1.46				1.47%
Ag 328.068†	1201.0	0.0145932	mg/L	0.00004984	0.0145932	mg/L	0.00004984	0.34%
QC value within limits for Ag 328.068 Recovery = 97.29%								
Al 308.215†	20957.2	1.92873	mg/L	0.065467	1.92873	mg/L	0.065467	3.39%
QC value within limits for Al 308.215 Recovery = 96.44%								
As 188.979†	32.8	0.0391811	mg/L	0.00320821	0.0391811	mg/L	0.00320821	8.19%
QC value within limits for As 188.979 Recovery = 97.95%								
Ba 233.527†	8204.7	0.0970983	mg/L	0.00277100	0.0970983	mg/L	0.00277100	2.85%
QC value within limits for Ba 233.527 Recovery = 97.10%								
Be 313.107†	15847.2	0.0097271	mg/L	0.00023823	0.0097271	mg/L	0.00023823	2.45%
QC value within limits for Be 313.107 Recovery = 81.06%								
Ca 317.933†	617947.8	9.87182	mg/L	0.233140	9.87182	mg/L	0.233140	2.36%
QC value within limits for Ca 317.933 Recovery = 98.72%								
Cd 228.802†	260.4	0.0103270	mg/L	0.00065607	0.0103270	mg/L	0.00065607	6.35%
QC value within limits for Cd 228.802 Recovery = 86.06%								
Co 228.616†	559.4	0.0195236	mg/L	0.00117266	0.0195236	mg/L	0.00117266	6.01%
QC value within limits for Co 228.616 Recovery = 78.09%								
Cr 267.716†	1392.6	0.0450974	mg/L	0.00142038	0.0450974	mg/L	0.00142038	3.15%
QC value within limits for Cr 267.716 Recovery = 90.19%								
Cu 327.393†	2997.3	0.0461514	mg/L	0.00044319	0.0461514	mg/L	0.00044319	0.96%
QC value within limits for Cu 327.393 Recovery = 92.30%								
Fe 273.955†	28333.6	1.96091	mg/L	0.051567	1.96091	mg/L	0.051567	2.63%
QC value within limits for Fe 273.955 Recovery = 98.05%								
K 404.721†	-330.4	11.3535	mg/L	5.83319	11.3535	mg/L	5.83319	51.38%
QC value greater than the upper limit for K 404.721 Recovery = 227.07%								
Mg 279.077†	28703.7	4.44989	mg/L	0.144432	4.44989	mg/L	0.144432	3.25%
QC value within limits for Mg 279.077 Recovery = 89.00%								
Mn 257.610†	26144.7	0.0971170	mg/L	0.00254599	0.0971170	mg/L	0.00254599	2.62%
QC value within limits for Mn 257.610 Recovery = 97.12%								
Mo 202.031†	250.6	0.0220942	mg/L	0.00052286	0.0220942	mg/L	0.00052286	2.37%
QC value within limits for Mo 202.031 Recovery = 88.38%								
Na 330.237†	656.2	2.46167	mg/L	0.274264	2.46167	mg/L	0.274264	11.14%
QC value within limits for Na 330.237 Recovery = 98.47%								
Ni 231.604†	1291.9	0.0441820	mg/L	0.00123995	0.0441820	mg/L	0.00123995	2.81%
QC value within limits for Ni 231.604 Recovery = 88.36%								
Pb 220.353†	205.8	0.0490222	mg/L	0.00083291	0.0490222	mg/L	0.00083291	1.70%
QC value within limits for Pb 220.353 Recovery = 98.04%								
Sb 206.836†	50.7	0.0326988	mg/L	0.00048233	0.0326988	mg/L	0.00048233	1.48%
QC value within limits for Sb 206.836 Recovery = 81.75%								
Se 196.026†	15.6	0.0246097	mg/L	0.00462993	0.0246097	mg/L	0.00462993	18.81%
QC value within limits for Se 196.026 Recovery = 82.03%								
Sn 189.927†	568.0	0.197589	mg/L	0.0032875	0.197589	mg/L	0.0032875	1.66%
QC value within limits for Sn 189.927 Recovery = 98.79%								
Ti 334.940†	14740.6	0.100595	mg/L	0.0028574	0.100595	mg/L	0.0028574	2.84%
QC value within limits for Ti 334.940 Recovery = 100.60%								
Tl 190.801†	19.0	0.0148739	mg/L	0.00089599	0.0148739	mg/L	0.00089599	6.02%
QC value within limits for Tl 190.801 Recovery = 99.16%								
V 290.880†	6305.0	0.0934849	mg/L	0.00256560	0.0934849	mg/L	0.00256560	2.74%
QC value within limits for V 290.880 Recovery = 93.48%								
Zn 206.200†	3167.5	0.0892727	mg/L	0.00186316	0.0892727	mg/L	0.00186316	2.09%
QC value within limits for Zn 206.200 Recovery = 89.27%								

QC Failed. Continue with analysis.

Sequence No.: 9
Sample ID: ICB V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/22/2014 9:55:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-183928

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	391757.9	101	%	0.8				0.80%
Y 371.029	165223.5	102	%	1.0				1.03%
Ag 328.068†	45.7	-0.0002457	mg/L	0.00067415	-0.0002457	mg/L	0.00067415	274.36%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	34.7	-0.0326122	mg/L	0.00339625	-0.0326122	mg/L	0.00339625	10.41%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.0	0.0013401	mg/L	0.00237030	0.0013401	mg/L	0.00237030	176.87%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	4.8	-0.0049742	mg/L	0.00000793	-0.0049742	mg/L	0.00000793	0.16%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	29.1	-0.0021763	mg/L	0.00006947	-0.0021763	mg/L	0.00006947	3.19%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	31.0	-0.447747	mg/L	0.0010475	-0.447747	mg/L	0.0010475	0.23%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	1.3	-0.0014858	mg/L	0.00000476	-0.0014858	mg/L	0.00000476	0.32%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-11.2	-0.0046050	mg/L	0.00006379	-0.0046050	mg/L	0.00006379	1.39%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	13.7	-0.0037467	mg/L	0.00004067	-0.0037467	mg/L	0.00004067	1.09%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	45.9	-0.0045200	mg/L	0.00011306	-0.0045200	mg/L	0.00011306	2.50%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	-11.5	-0.0559731	mg/L	0.00081227	-0.0559731	mg/L	0.00081227	1.45%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	-301.2	11.6055	mg/L	2.01816	11.6055	mg/L	2.01816	17.39%
QC value greater than the upper limit for K 404.721 Recovery = Not calculated								
Mg 279.077†	-8.3	-1.33788	mg/L	0.007141	-1.33788	mg/L	0.007141	0.53%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	7.3	-0.0041422	mg/L	0.00007448	-0.0041422	mg/L	0.00007448	1.80%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-2.5	-0.0033257	mg/L	0.00037829	-0.0033257	mg/L	0.00037829	11.37%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	-6.5	0.292238	mg/L	0.0054218	0.292238	mg/L	0.0054218	1.86%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	2.2	-0.0052995	mg/L	0.00037621	-0.0052995	mg/L	0.00037621	7.10%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-13.6	-0.0038679	mg/L	0.00219824	-0.0038679	mg/L	0.00219824	56.83%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-5.4	-0.0055142	mg/L	0.00021343	-0.0055142	mg/L	0.00021343	3.87%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	3.6	0.0021090	mg/L	0.00509266	0.0021090	mg/L	0.00509266	241.48%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	3.8	-0.0023554	mg/L	0.00060989	-0.0023554	mg/L	0.00060989	25.89%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-12.1	0.0003548	mg/L	0.00011962	0.0003548	mg/L	0.00011962	33.71%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	1.0	-0.0023762	mg/L	0.00001131	-0.0023762	mg/L	0.00001131	0.48%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-8.1	-0.0042304	mg/L	0.00043292	-0.0042304	mg/L	0.00043292	10.23%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-4.9	-0.0079581	mg/L	0.00004479	-0.0079581	mg/L	0.00004479	0.56%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 10
Sample ID: ICSA V-185754
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/22/2014 9:58:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185754

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	350036.8	90.2	%	0.38				0.42%
Y 371.029	134367.9	82.9	%	0.16				0.20%
Ag 328.068†	-3023.5	0.0009376	mg/L	0.00050977	0.0009376	mg/L	0.00050977	54.37%
Al 308.215†	5349089.8	505.137	mg/L	9.6878	505.137	mg/L	9.6878	1.92%
QC value within limits for Al 308.215 Recovery = 101.03%								
As 188.979†	-3.1	0.0172275	mg/L	0.00303438	0.0172275	mg/L	0.00303438	17.61%
Ba 233.527†	670.7	-0.0033175	mg/L	0.00000718	-0.0033175	mg/L	0.00000718	0.22%
Be 313.107†	-594.9	-0.0026474	mg/L	0.00007776	-0.0026474	mg/L	0.00007776	2.94%
Ca 317.933†	28639382.9	477.846	mg/L	6.5281	477.846	mg/L	6.5281	1.37%
QC value within limits for Ca 317.933 Recovery = 95.57%								
Cd 228.802†	32.0	-0.0000862	mg/L	0.00078825	-0.0000862	mg/L	0.00078825	914.48%
Co 228.616†	128.0	0.0013499	mg/L	0.00063570	0.0013499	mg/L	0.00063570	47.09%
Cr 267.716†	-393.1	0.0045224	mg/L	0.00026866	0.0045224	mg/L	0.00026866	5.94%
Cu 327.393†	516.3	0.0035567	mg/L	0.00138446	0.0035567	mg/L	0.00138446	38.93%
Fe 273.955†	2661179.1	189.296	mg/L	3.6273	189.296	mg/L	3.6273	1.92%
QC value within limits for Fe 273.955 Recovery = 94.65%								
K 404.721†	238770.4	2072.62	mg/L	28.337	2072.62	mg/L	28.337	1.37%
Mg 279.077†	2772954.9	557.460	mg/L	10.0997	557.460	mg/L	10.0997	1.81%
QC value within limits for Mg 279.077 Recovery = 111.49%								
Mn 257.610†	6226.5	0.0007552	mg/L	0.00004747	0.0007552	mg/L	0.00004747	6.28%
Mo 202.031†	88.3	-0.0218184	mg/L	0.00119156	-0.0218184	mg/L	0.00119156	5.46%
Na 330.237†	-73.2	0.0739084	mg/L	0.01515131	0.0739084	mg/L	0.01515131	20.50%
Ni 231.604†	189.9	0.0019083	mg/L	0.00044938	0.0019083	mg/L	0.00044938	23.55%
Pb 220.353†	1251.1	-0.0171259	mg/L	0.00139644	-0.0171259	mg/L	0.00139644	8.15%
Sb 206.836†	93.3	-0.0157473	mg/L	0.00952296	-0.0157473	mg/L	0.00952296	60.47%
Se 196.026†	5.1	-0.0077915	mg/L	0.00120487	-0.0077915	mg/L	0.00120487	15.46%
Sn 189.927†	-60.5	-0.0065912	mg/L	0.00102365	-0.0065912	mg/L	0.00102365	15.53%
Ti 334.940†	-10.7	0.0003668	mg/L	0.00000965	0.0003668	mg/L	0.00000965	2.63%
Tl 190.801†	1.0	-0.0005389	mg/L	0.00049898	-0.0005389	mg/L	0.00049898	92.59%
V 290.880†	1894.2	-0.0401094	mg/L	0.00153282	-0.0401094	mg/L	0.00153282	3.82%
Zn 206.200†	-226.9	-0.0130728	mg/L	0.00018688	-0.0130728	mg/L	0.00018688	1.43%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/22/2014 10:02:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	361199.5	93.1	%	0.18				0.19%
Y 371.029	137308.9	84.7	%	0.17				0.20%
Ag 328.068†	85707.6	1.09591	mg/L	0.006123	1.09591	mg/L	0.006123	0.56%
QC value within limits for Ag 328.068 Recovery = 109.59%								
Al 308.215†	5214200.7	492.381	mg/L	8.0894	492.381	mg/L	8.0894	1.64%
QC value within limits for Al 308.215 Recovery = 98.48%								
As 188.979†	821.3	1.01980	mg/L	0.007230	1.01980	mg/L	0.007230	0.71%
QC value within limits for As 188.979 Recovery = 101.98%								
Ba 233.527†	42638.5	0.519614	mg/L	0.0056641	0.519614	mg/L	0.0056641	1.09%
QC value within limits for Ba 233.527 Recovery = 103.92%								
Be 313.107†	661194.3	0.497049	mg/L	0.0083057	0.497049	mg/L	0.0083057	1.67%
QC value within limits for Be 313.107 Recovery = 99.41%								
Ca 317.933†	28015952.5	467.434	mg/L	12.6807	467.434	mg/L	12.6807	2.71%
QC value within limits for Ca 317.933 Recovery = 93.49%								
Cd 228.802†	22519.1	1.02492	mg/L	0.002395	1.02492	mg/L	0.002395	0.23%
QC value within limits for Cd 228.802 Recovery = 102.49%								
Co 228.616†	11273.6	0.474508	mg/L	0.0007443	0.474508	mg/L	0.0007443	0.16%
QC value within limits for Co 228.616 Recovery = 94.90%								
Cr 267.716†	13641.4	0.497247	mg/L	0.0010043	0.497247	mg/L	0.0010043	0.20%
QC value within limits for Cr 267.716 Recovery = 99.45%								
Cu 327.393†	30963.2	0.526286	mg/L	0.0048343	0.526286	mg/L	0.0048343	0.92%
QC value within limits for Cu 327.393 Recovery = 105.26%								
Fe 273.955†	2601204.7	185.029	mg/L	3.0239	185.029	mg/L	3.0239	1.63%
QC value within limits for Fe 273.955 Recovery = 92.51%								
K 404.721†	238173.0	2067.47	mg/L	24.470	2067.47	mg/L	24.470	1.18%
Mg 279.077†	2708279.3	544.426	mg/L	8.7721	544.426	mg/L	8.7721	1.61%
QC value within limits for Mg 279.077 Recovery = 108.89%								
Mn 257.610†	134795.6	0.500275	mg/L	0.0044830	0.500275	mg/L	0.0044830	0.90%
QC value within limits for Mn 257.610 Recovery = 100.06%								
Mo 202.031†	69.6	-0.0231484	mg/L	0.00074664	-0.0231484	mg/L	0.00074664	3.23%
Na 330.237†	416.9	1.67849	mg/L	0.003833	1.67849	mg/L	0.003833	0.23%
Ni 231.604†	24303.1	0.926368	mg/L	0.0025283	0.926368	mg/L	0.0025283	0.27%
QC value within limits for Ni 231.604 Recovery = 92.64%								
Pb 220.353†	5093.2	0.944055	mg/L	0.0050432	0.944055	mg/L	0.0050432	0.53%
QC value within limits for Pb 220.353 Recovery = 94.41%								
Sb 206.836†	1595.8	1.02409	mg/L	0.003557	1.02409	mg/L	0.003557	0.35%
QC value within limits for Sb 206.836 Recovery = 102.41%								
Se 196.026†	516.7	0.957764	mg/L	0.0036571	0.957764	mg/L	0.0036571	0.38%
QC value within limits for Se 196.026 Recovery = 95.78%								
Sn 189.927†	-61.7	-0.0074275	mg/L	0.00144428	-0.0074275	mg/L	0.00144428	19.44%
Ti 334.940†	64.3	0.0005357	mg/L	0.00004539	0.0005357	mg/L	0.00004539	8.47%
Tl 190.801†	1015.5	0.943604	mg/L	0.0028723	0.943604	mg/L	0.0028723	0.30%
QC value within limits for Tl 190.801 Recovery = 94.36%								
V 290.880†	33213.9	0.449567	mg/L	0.0047221	0.449567	mg/L	0.0047221	1.05%
QC value within limits for V 290.880 Recovery = 89.91%								
Zn 206.200†	30602.8	0.933418	mg/L	0.0004199	0.933418	mg/L	0.0004199	0.04%
QC value within limits for Zn 206.200 Recovery = 93.34%								

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: MB 32817 (100)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 5/22/2014 10:06:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 32817 (100)

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	398710.7	103	%	0.3				0.31%
Y 371.029	168245.5	104	%	0.3				0.26%
Ag 328.068†	34.4	-0.0003792	mg/L	0.00014881	-0.0003792	mg/L	0.00014881	39.25%
Al 308.215†	213.8	-0.0158715	mg/L	0.00619752	-0.0158715	mg/L	0.00619752	39.05%
As 188.979†	1.3	0.0005627	mg/L	0.00267134	0.0005627	mg/L	0.00267134	474.76%
Ba 233.527†	14.1	-0.0048594	mg/L	0.00021884	-0.0048594	mg/L	0.00021884	4.50%
Be 313.107†	-29.3	-0.0022204	mg/L	0.00001725	-0.0022204	mg/L	0.00001725	0.78%
Ca 317.933†	7393.4	-0.324791	mg/L	0.0070181	-0.324791	mg/L	0.0070181	2.16%
Cd 228.802†	9.7	-0.0011012	mg/L	0.00019768	-0.0011012	mg/L	0.00019768	17.95%
Co 228.616†	-21.7	-0.0050468	mg/L	0.00005063	-0.0050468	mg/L	0.00005063	1.00%
Cr 267.716†	8.0	-0.0039419	mg/L	0.00020992	-0.0039419	mg/L	0.00020992	5.33%
Cu 327.393†	100.0	-0.0035901	mg/L	0.00022809	-0.0035901	mg/L	0.00022809	6.35%
Fe 273.955†	176.4	-0.0425979	mg/L	0.00334352	-0.0425979	mg/L	0.00334352	7.85%
K 404.721†	-560.1	9.37304	mg/L	1.419936	9.37304	mg/L	1.419936	15.15%
Mg 279.077†	78.1	-1.32040	mg/L	0.002968	-1.32040	mg/L	0.002968	0.22%
Mn 257.610†	142.6	-0.0036174	mg/L	0.00004219	-0.0036174	mg/L	0.00004219	1.17%
Mo 202.031†	7.6	-0.0022856	mg/L	0.00014552	-0.0022856	mg/L	0.00014552	6.37%
Na 330.237†	81.7	0.581249	mg/L	0.0058310	0.581249	mg/L	0.0058310	1.00%
Ni 231.604†	-4.2	-0.0055437	mg/L	0.00059312	-0.0055437	mg/L	0.00059312	10.70%
Pb 220.353†	-12.7	-0.0036546	mg/L	0.00169480	-0.0036546	mg/L	0.00169480	46.37%
Sb 206.836†	-5.7	-0.0057107	mg/L	0.00637805	-0.0057107	mg/L	0.00637805	111.69%
Se 196.026†	1.4	-0.0021476	mg/L	0.00233424	-0.0021476	mg/L	0.00233424	108.69%
Sn 189.927†	31.0	0.0072508	mg/L	0.00091506	0.0072508	mg/L	0.00091506	12.62%
Ti 334.940†	-4.5	0.0004025	mg/L	0.00024361	0.0004025	mg/L	0.00024361	60.53%
Tl 190.801†	2.3	-0.0011686	mg/L	0.00011479	-0.0011686	mg/L	0.00011479	9.82%
V 290.880†	0.1	-0.0041053	mg/L	0.00037627	-0.0041053	mg/L	0.00037627	9.17%
Zn 206.200†	392.4	0.0042381	mg/L	0.00003854	0.0042381	mg/L	0.00003854	0.91%

Sequence No.: 13
Sample ID: LCS 32817
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 5/22/2014 10:10:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS 32817

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	383694.4	98.9	%	0.03				0.03%
Y 371.029	185478.7	114	%	0.5				0.47%
Ag 328.068†	54454.4	0.689926	mg/L	0.0125469	0.689926	mg/L	0.0125469	1.82%
Al 308.215†	757355.5	71.2428	mg/L	1.01053	71.2428	mg/L	1.01053	1.42%
As 188.979†	734.4	0.911723	mg/L	0.0026066	0.911723	mg/L	0.0026066	0.29%
Ba 233.527†	168439.1	2.08894	mg/L	0.037535	2.08894	mg/L	0.037535	1.80%
Be 313.107†	758482.8	0.569964	mg/L	0.0072150	0.569964	mg/L	0.0072150	1.27%
Ca 317.933†	4638945.5	77.0248	mg/L	0.88459	77.0248	mg/L	0.88459	1.15%
Cd 228.802†	30070.8	1.36915	mg/L	0.025612	1.36915	mg/L	0.025612	1.87%
Co 228.616†	48781.8	2.06863	mg/L	0.040334	2.06863	mg/L	0.040334	1.95%
Cr 267.716†	24147.6	0.856336	mg/L	0.0189259	0.856336	mg/L	0.0189259	2.21%
Cu 327.393†	155893.4	2.67116	mg/L	0.051325	2.67116	mg/L	0.051325	1.92%
Fe 273.955†	1696825.4	120.756	mg/L	1.4453	120.756	mg/L	1.4453	1.20%
K 404.721†	138280.1	1206.30	mg/L	11.044	1206.30	mg/L	11.044	0.92%
Mg 279.077†	150252.5	29.0120	mg/L	0.59520	29.0120	mg/L	0.59520	2.05%
Mn 257.610†	1090583.1	4.22814	mg/L	0.047317	4.22814	mg/L	0.047317	1.12%
Mo 202.031†	9639.7	0.985976	mg/L	0.0095785	0.985976	mg/L	0.0095785	0.97%
Na 330.237†	2887.5	9.76628	mg/L	0.395312	9.76628	mg/L	0.395312	4.05%
Ni 231.604†	62218.2	2.38146	mg/L	0.044688	2.38146	mg/L	0.044688	1.88%
Pb 220.353†	4278.1	1.00945	mg/L	0.005097	1.00945	mg/L	0.005097	0.50%
Sb 206.836†	1573.8	1.06363	mg/L	0.018519	1.06363	mg/L	0.018519	1.74%
Se 196.026†	658.2	1.23196	mg/L	0.009685	1.23196	mg/L	0.009685	0.79%
Sn 189.927†	4415.8	1.56520	mg/L	0.016252	1.56520	mg/L	0.016252	1.04%
Ti 334.940†	199201.8	1.35397	mg/L	0.004362	1.35397	mg/L	0.004362	0.32%
Tl 190.801†	1561.3	1.44911	mg/L	0.007499	1.44911	mg/L	0.007499	0.52%
V 290.880†	95485.7	1.47497	mg/L	0.027401	1.47497	mg/L	0.027401	1.86%
Zn 206.200†	41716.6	1.27306	mg/L	0.024211	1.27306	mg/L	0.024211	1.90%

Sequence No.: 14
Sample ID: LCS MR 32817
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 5/22/2014 10:14:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS MR 32817

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	384068.6	99.0	%	0.10				0.10%
Y 371.029	185622.9	115	%	0.6				0.57%
Ag 328.068†	53775.3	0.681434	mg/L	0.0170335	0.681434	mg/L	0.0170335	2.50%
Al 308.215†	747398.8	70.2980	mg/L	2.59557	70.2980	mg/L	2.59557	3.69%
As 188.979†	728.7	0.904589	mg/L	0.0001612	0.904589	mg/L	0.0001612	0.02%
Ba 233.527†	163588.1	2.02856	mg/L	0.054839	2.02856	mg/L	0.054839	2.70%
Be 313.107†	750046.4	0.563600	mg/L	0.0215568	0.563600	mg/L	0.0215568	3.82%
Ca 317.933†	4805523.8	79.8067	mg/L	2.93768	79.8067	mg/L	2.93768	3.68%
Cd 228.802†	29970.7	1.36458	mg/L	0.036297	1.36458	mg/L	0.036297	2.66%
Co 228.616†	48780.8	2.06877	mg/L	0.060534	2.06877	mg/L	0.060534	2.93%
Cr 267.716†	24220.3	0.858989	mg/L	0.0268190	0.858989	mg/L	0.0268190	3.12%
Cu 327.393†	156555.1	2.68252	mg/L	0.070690	2.68252	mg/L	0.070690	2.64%
Fe 273.955†	1676970.4	119.342	mg/L	4.5124	119.342	mg/L	4.5124	3.78%
K 404.721†	138163.8	1205.30	mg/L	28.256	1205.30	mg/L	28.256	2.34%
Mg 279.077†	148636.4	28.6885	mg/L	0.88790	28.6885	mg/L	0.88790	3.09%
Mn 257.610†	1092634.6	4.23612	mg/L	0.159800	4.23612	mg/L	0.159800	3.77%
Mo 202.031†	9937.3	1.01654	mg/L	0.000618	1.01654	mg/L	0.000618	0.06%
Na 330.237†	2856.9	9.66615	mg/L	0.165099	9.66615	mg/L	0.165099	1.71%
Ni 231.604†	62782.1	2.40312	mg/L	0.068966	2.40312	mg/L	0.068966	2.87%
Pb 220.353†	4181.9	0.986300	mg/L	0.0002621	0.986300	mg/L	0.0002621	0.03%
Sb 206.836†	1615.9	1.09300	mg/L	0.000853	1.09300	mg/L	0.000853	0.08%
Se 196.026†	660.2	1.23568	mg/L	0.020450	1.23568	mg/L	0.020450	1.65%
Sn 189.927†	4356.2	1.54415	mg/L	0.004414	1.54415	mg/L	0.004414	0.29%
Ti 334.940†	197103.3	1.33971	mg/L	0.013620	1.33971	mg/L	0.013620	1.02%
Tl 190.801†	1532.8	1.42243	mg/L	0.014455	1.42243	mg/L	0.014455	1.02%
V 290.880†	96247.3	1.48695	mg/L	0.043206	1.48695	mg/L	0.043206	2.91%
Zn 206.200†	41425.4	1.26404	mg/L	0.039340	1.26404	mg/L	0.039340	3.11%

Sequence No.: 15
Sample ID: 78787-015
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 5/22/2014 10:17:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-015

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	408886.4	105	%	2.4				2.25%
Y 371.029	177365.1	109	%	2.2				2.02%
Ag 328.068†	-1264.7	0.0017571	mg/L	0.00102383	0.0017571	mg/L	0.00102383	58.27%
Al 308.215†	583396.7	54.7378	mg/L	0.75261	54.7378	mg/L	0.75261	1.37%
As 188.979†	92.3	0.123790	mg/L	0.0072480	0.123790	mg/L	0.0072480	5.86%
Ba 233.527†	57825.4	0.712165	mg/L	0.0280432	0.712165	mg/L	0.0280432	3.94%
Be 313.107†	4852.8	0.0005816	mg/L	0.00009968	0.0005816	mg/L	0.00009968	17.14%
Ca 317.933†	13105865.2	218.427	mg/L	11.4935	218.427	mg/L	11.4935	5.26%
Cd 228.802†	73.3	0.0017946	mg/L	0.00033637	0.0017946	mg/L	0.00033637	18.74%
Co 228.616†	1163.7	0.0404794	mg/L	0.00204061	0.0404794	mg/L	0.00204061	5.04%
Cr 267.716†	5399.2	0.190806	mg/L	0.0072010	0.190806	mg/L	0.0072010	3.77%
Cu 327.393†	11300.5	0.188706	mg/L	0.0077329	0.188706	mg/L	0.0077329	4.10%
Fe 273.955†	1249628.1	88.9110	mg/L	1.03432	88.9110	mg/L	1.03432	1.16%
K 404.721†	99943.4	875.803	mg/L	4.0402	875.803	mg/L	4.0402	0.46%
Mg 279.077†	215233.6	42.0377	mg/L	0.38480	42.0377	mg/L	0.38480	0.92%
Mn 257.610†	618718.9	2.39604	mg/L	0.026010	2.39604	mg/L	0.026010	1.09%
Mo 202.031†	116.4	-0.0061684	mg/L	0.00061137	-0.0061684	mg/L	0.00061137	9.91%
Na 330.237†	448.4	1.78160	mg/L	0.154295	1.78160	mg/L	0.154295	8.66%
Ni 231.604†	5401.3	0.201712	mg/L	0.0094903	0.201712	mg/L	0.0094903	4.70%
Pb 220.353†	9206.6	2.23605	mg/L	0.084457	2.23605	mg/L	0.084457	3.78%
Sb 206.836†	55.9	0.0155825	mg/L	0.00004362	0.0155825	mg/L	0.00004362	0.28%
Se 196.026†	2.6	-0.0023614	mg/L	0.00554035	-0.0023614	mg/L	0.00554035	234.62%
Sn 189.927†	310.7	0.116175	mg/L	0.0022706	0.116175	mg/L	0.0022706	1.95%
Ti 334.940†	323406.6	2.19845	mg/L	0.069922	2.19845	mg/L	0.069922	3.18%
Tl 190.801†	-10.1	-0.0009262	mg/L	0.00385701	-0.0009262	mg/L	0.00385701	416.42%
V 290.880†	9947.1	0.142065	mg/L	0.0066938	0.142065	mg/L	0.0066938	4.71%
Zn 206.200†	18995.7	0.572124	mg/L	0.0221248	0.572124	mg/L	0.0221248	3.87%

Sequence No.: 16
Sample ID: 78787-015 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 5/22/2014 10:21:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-015 MR

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	407451.8	105	%	1.3				1.23%
Y 371.029	173080.0	107	%	1.2				1.09%
Ag 328.068†	-1650.7	0.0013375	mg/L	0.00048399	0.0013375	mg/L	0.00048399	36.19%
Al 308.215†	607199.2	56.8580	mg/L	0.96123	56.8580	mg/L	0.96123	1.69%
As 188.979†	78.4	0.107969	mg/L	0.0024180	0.107969	mg/L	0.0024180	2.24%
Ba 233.527†	53607.0	0.659356	mg/L	0.0156388	0.659356	mg/L	0.0156388	2.37%
Be 313.107†	4918.6	0.0005510	mg/L	0.00008415	0.0005510	mg/L	0.00008415	15.27%
Ca 317.933†	19935600.5	332.488	mg/L	13.7939	332.488	mg/L	13.7939	4.15%
Cd 228.802†	60.8	0.0012266	mg/L	0.00037691	0.0012266	mg/L	0.00037691	30.73%
Co 228.616†	947.6	0.0308831	mg/L	0.00004498	0.0308831	mg/L	0.00004498	0.15%
Cr 267.716†	4237.2	0.150332	mg/L	0.0035349	0.150332	mg/L	0.0035349	2.35%
Cu 327.393†	10954.0	0.182756	mg/L	0.0044788	0.182756	mg/L	0.0044788	2.45%
Fe 273.955†	1354350.3	96.3675	mg/L	1.50113	96.3675	mg/L	1.50113	1.56%
K 404.721†	109379.8	957.153	mg/L	21.3197	957.153	mg/L	21.3197	2.23%
Mg 279.077†	215131.7	42.0174	mg/L	0.63595	42.0174	mg/L	0.63595	1.51%
Mn 257.610†	556507.5	2.15455	mg/L	0.032284	2.15455	mg/L	0.032284	1.50%
Mo 202.031†	151.3	-0.0094290	mg/L	0.00033937	-0.0094290	mg/L	0.00033937	3.60%
Na 330.237†	270.1	1.19795	mg/L	0.127587	1.19795	mg/L	0.127587	10.65%
Ni 231.604†	4030.3	0.149154	mg/L	0.0049713	0.149154	mg/L	0.0049713	3.33%
Pb 220.353†	7644.8	1.84354	mg/L	0.045163	1.84354	mg/L	0.045163	2.45%
Sb 206.836†	40.6	0.0024615	mg/L	0.00435970	0.0024615	mg/L	0.00435970	177.12%
Se 196.026†	6.8	0.0063493	mg/L	0.00556880	0.0063493	mg/L	0.00556880	87.71%
Sn 189.927†	79.3	0.0375435	mg/L	0.00020156	0.0375435	mg/L	0.00020156	0.54%
Ti 334.940†	352807.3	2.39831	mg/L	0.038017	2.39831	mg/L	0.038017	1.59%
Tl 190.801†	-11.3	-0.0000524	mg/L	0.00125063	-0.0000524	mg/L	0.00125063	>999.9%
V 290.880†	10279.3	0.146865	mg/L	0.0045331	0.146865	mg/L	0.0045331	3.09%
Zn 206.200†	16892.6	0.505223	mg/L	0.0141254	0.505223	mg/L	0.0141254	2.80%

Sequence No.: 17
Sample ID: 78787-015 MS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 5/22/2014 10:25:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-015 MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	399819.3	103	%	0.4				0.38%
Y 371.029	175302.7	108	%	0.0				0.04%
Ag 328.068†	8870.0	0.131993	mg/L	0.0013624	0.131993	mg/L	0.0013624	1.03%
Al 308.215†	738382.2	69.2329	mg/L	0.77199	69.2329	mg/L	0.77199	1.12%
As 188.979†	563.5	0.701156	mg/L	0.0045102	0.701156	mg/L	0.0045102	0.64%
Ba 233.527†	113265.8	1.40199	mg/L	0.014566	1.40199	mg/L	0.014566	1.04%
Be 313.107†	622306.5	0.466574	mg/L	0.0046803	0.466574	mg/L	0.0046803	1.00%
Ca 317.933†	17446121.4	290.912	mg/L	2.9991	290.912	mg/L	2.9991	1.03%
Cd 228.802†	10185.2	0.462717	mg/L	0.0004693	0.462717	mg/L	0.0004693	0.10%
Co 228.616†	12354.7	0.516424	mg/L	0.0054401	0.516424	mg/L	0.0054401	1.05%
Cr 267.716†	17727.1	0.628799	mg/L	0.0042911	0.628799	mg/L	0.0042911	0.68%
Cu 327.393†	42302.2	0.720961	mg/L	0.0096812	0.720961	mg/L	0.0096812	1.34%
Fe 273.955†	1562083.0	111.146	mg/L	1.1035	111.146	mg/L	1.1035	0.99%
K 404.721†	128962.4	1125.97	mg/L	15.759	1125.97	mg/L	15.759	1.40%
Mg 279.077†	472492.9	93.9102	mg/L	0.54918	93.9102	mg/L	0.54918	0.58%
Mn 257.610†	1030719.4	3.99353	mg/L	0.038529	3.99353	mg/L	0.038529	0.96%
Mo 202.031†	4337.5	0.424695	mg/L	0.0012015	0.424695	mg/L	0.0012015	0.28%
Na 330.237†	14781.0	48.7016	mg/L	0.47794	48.7016	mg/L	0.47794	0.98%
Ni 231.604†	17758.5	0.676119	mg/L	0.0062589	0.676119	mg/L	0.0062589	0.93%
Pb 220.353†	17970.3	4.39817	mg/L	0.043782	4.39817	mg/L	0.043782	1.00%
Sb 206.836†	521.0	0.332165	mg/L	0.0048720	0.332165	mg/L	0.0048720	1.47%
Se 196.026†	239.1	0.442566	mg/L	0.0088937	0.442566	mg/L	0.0088937	2.01%
Sn 189.927†	1581.6	0.568630	mg/L	0.0060473	0.568630	mg/L	0.0060473	1.06%
Ti 334.940†	406668.6	2.76410	mg/L	0.008931	2.76410	mg/L	0.008931	0.32%
Tl 190.801†	469.7	0.447036	mg/L	0.0036178	0.447036	mg/L	0.0036178	0.81%
V 290.880†	41395.1	0.625902	mg/L	0.0062280	0.625902	mg/L	0.0062280	1.00%
Zn 206.200†	45250.4	1.37705	mg/L	0.013606	1.37705	mg/L	0.013606	0.99%

Sequence No.: 18
Sample ID: 78787-015 MS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 5/22/2014 10:29:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-015 MS2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	367104.2	94.6	%	0.55				0.58%
Y 371.029	173717.9	107	%	0.6				0.55%
Ag 328.068†	8940.9	0.135117	mg/L	0.0008210	0.135117	mg/L	0.0008210	0.61%
Al 308.215†	799090.6	75.0147	mg/L	0.10875	75.0147	mg/L	0.10875	0.14%
As 188.979†	526.1	0.658334	mg/L	0.0055657	0.658334	mg/L	0.0055657	0.85%
Ba 233.527†	138645.1	1.71752	mg/L	0.012515	1.71752	mg/L	0.012515	0.73%
Be 313.107†	677084.2	0.507708	mg/L	0.0009535	0.507708	mg/L	0.0009535	0.19%
Ca 317.933†	17260328.8	287.809	mg/L	4.0409	287.809	mg/L	4.0409	1.40%
Cd 228.802†	10720.4	0.487114	mg/L	0.0022342	0.487114	mg/L	0.0022342	0.46%
Co 228.616†	13221.1	0.552128	mg/L	0.0039210	0.552128	mg/L	0.0039210	0.71%
Cr 267.716†	19556.3	0.694139	mg/L	0.0008165	0.694139	mg/L	0.0008165	0.12%
Cu 327.393†	43623.6	0.743647	mg/L	0.0078107	0.743647	mg/L	0.0078107	1.05%
Fe 273.955†	1811297.2	128.891	mg/L	0.0628	128.891	mg/L	0.0628	0.05%
K 404.721†	151416.0	1319.54	mg/L	0.053	1319.54	mg/L	0.053	0.00%
Mg 279.077†	478767.3	95.1771	mg/L	0.25706	95.1771	mg/L	0.25706	0.27%
Mn 257.610†	565192.0	2.18643	mg/L	0.005692	2.18643	mg/L	0.005692	0.26%
Mo 202.031†	4679.7	0.459598	mg/L	0.0030107	0.459598	mg/L	0.0030107	0.66%
Na 330.237†	15592.6	51.3584	mg/L	0.42871	51.3584	mg/L	0.42871	0.83%
Ni 231.604†	18942.6	0.721569	mg/L	0.0058241	0.721569	mg/L	0.0058241	0.81%
Pb 220.353†	12235.1	2.97141	mg/L	0.016696	2.97141	mg/L	0.016696	0.56%
Sb 206.836†	520.7	0.328590	mg/L	0.0052274	0.328590	mg/L	0.0052274	1.59%
Se 196.026†	260.5	0.484259	mg/L	0.0081699	0.484259	mg/L	0.0081699	1.69%
Sn 189.927†	1534.5	0.552913	mg/L	0.0027228	0.552913	mg/L	0.0027228	0.49%
Ti 334.940†	489750.4	3.32887	mg/L	0.041772	3.32887	mg/L	0.041772	1.25%
Tl 190.801†	501.3	0.483608	mg/L	0.0036642	0.483608	mg/L	0.0036642	0.76%
V 290.880†	44763.6	0.677374	mg/L	0.0060986	0.677374	mg/L	0.0060986	0.90%
Zn 206.200†	39819.8	1.21051	mg/L	0.010949	1.21051	mg/L	0.010949	0.90%

Sequence No.: 19
Sample ID: 78787-015 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 5/22/2014 10:33:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-015 PS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	412986.5	106	%	0.3				0.27%
Y 371.029	177584.8	110	%	1.0				0.91%
Ag 328.068†	5430.8	0.0859284	mg/L	0.00101310	0.0859284	mg/L	0.00101310	1.18%
Al 308.215†	617618.4	57.9285	mg/L	0.86744	57.9285	mg/L	0.86744	1.50%
As 188.979†	480.7	0.597608	mg/L	0.0101165	0.597608	mg/L	0.0101165	1.69%
Ba 233.527†	93128.2	1.15184	mg/L	0.011409	1.15184	mg/L	0.011409	0.99%
Be 313.107†	623741.6	0.468215	mg/L	0.0063982	0.468215	mg/L	0.0063982	1.37%
Ca 317.933†	15494271.8	258.315	mg/L	1.6850	258.315	mg/L	1.6850	0.65%
Cd 228.802†	10096.8	0.458687	mg/L	0.0014803	0.458687	mg/L	0.0014803	0.32%
Co 228.616†	12067.7	0.507355	mg/L	0.0060134	0.507355	mg/L	0.0060134	1.19%
Cr 267.716†	18413.1	0.651770	mg/L	0.0060384	0.651770	mg/L	0.0060384	0.93%
Cu 327.393†	38038.9	0.647765	mg/L	0.0092870	0.647765	mg/L	0.0092870	1.43%
Fe 273.955†	1282098.0	91.2135	mg/L	1.37909	91.2135	mg/L	1.37909	1.51%
K 404.721†	103401.2	905.612	mg/L	3.3114	905.612	mg/L	3.3114	0.37%
Mg 279.077†	416193.9	82.5659	mg/L	0.12739	82.5659	mg/L	0.12739	0.15%
Mn 257.610†	486337.1	1.88077	mg/L	0.004052	1.88077	mg/L	0.004052	0.22%
Mo 202.031†	4454.0	0.440110	mg/L	0.0023940	0.440110	mg/L	0.0023940	0.54%
Na 330.237†	14468.5	47.6786	mg/L	0.26503	47.6786	mg/L	0.26503	0.56%
Ni 231.604†	17212.0	0.655186	mg/L	0.0073522	0.655186	mg/L	0.0073522	1.12%
Pb 220.353†	10860.4	2.64461	mg/L	0.025652	2.64461	mg/L	0.025652	0.97%
Sb 206.836†	719.6	0.475060	mg/L	0.0111584	0.475060	mg/L	0.0111584	2.35%
Se 196.026†	248.1	0.461456	mg/L	0.0122491	0.461456	mg/L	0.0122491	2.65%
Sn 189.927†	1632.1	0.584105	mg/L	0.0012633	0.584105	mg/L	0.0012633	0.22%
Ti 334.940†	202888.2	1.37911	mg/L	0.000728	1.37911	mg/L	0.000728	0.05%
Tl 190.801†	475.6	0.446311	mg/L	0.0006989	0.446311	mg/L	0.0006989	0.16%
V 290.880†	38838.5	0.588205	mg/L	0.0040060	0.588205	mg/L	0.0040060	0.68%
Zn 206.200†	33579.3	1.01913	mg/L	0.010437	1.01913	mg/L	0.010437	1.02%

Sequence No.: 20
Sample ID: CCV V-185529
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/22/2014 10:36:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185529

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	411912.9	106	%	1.9				1.76%
Y 371.029	156565.5	96.6	%	1.64				1.70%
Ag 328.068†	8151.1	0.102007	mg/L	0.0024268	0.102007	mg/L	0.0024268	2.38%
QC value within limits for Ag 328.068 Recovery = 102.01%								
Al 308.215†	52970.6	4.88225	mg/L	0.139111	4.88225	mg/L	0.139111	2.85%
QC value within limits for Al 308.215 Recovery = 97.64%								
As 188.979†	416.6	0.507590	mg/L	0.0092966	0.507590	mg/L	0.0092966	1.83%
QC value within limits for As 188.979 Recovery = 101.52%								
Ba 233.527†	40616.3	0.500737	mg/L	0.0145956	0.500737	mg/L	0.0145956	2.91%
QC value within limits for Ba 233.527 Recovery = 100.15%								
Be 313.107†	661604.1	0.497166	mg/L	0.0109089	0.497166	mg/L	0.0109089	2.19%
QC value within limits for Be 313.107 Recovery = 99.43%								
Ca 317.933†	3021753.8	50.0167	mg/L	1.06569	50.0167	mg/L	1.06569	2.13%
QC value within limits for Ca 317.933 Recovery = 100.03%								
Cd 228.802†	10960.3	0.498050	mg/L	0.0153459	0.498050	mg/L	0.0153459	3.08%
QC value within limits for Cd 228.802 Recovery = 99.61%								
Co 228.616†	11854.2	0.500458	mg/L	0.0135717	0.500458	mg/L	0.0135717	2.71%
QC value within limits for Co 228.616 Recovery = 100.09%								
Cr 267.716†	14475.7	0.508897	mg/L	0.0151875	0.508897	mg/L	0.0151875	2.98%
QC value within limits for Cr 267.716 Recovery = 101.78%								
Cu 327.393†	28820.0	0.489490	mg/L	0.0143753	0.489490	mg/L	0.0143753	2.94%
QC value within limits for Cu 327.393 Recovery = 97.90%								
Fe 273.955†	70409.6	4.94502	mg/L	0.133336	4.94502	mg/L	0.133336	2.70%
QC value within limits for Fe 273.955 Recovery = 98.90%								
K 404.721†	3405.9	43.5637	mg/L	6.48281	43.5637	mg/L	6.48281	14.88%
QC value less than the lower limit for K 404.721 Recovery = 87.13%								
Mg 279.077†	279106.7	54.9432	mg/L	1.05224	54.9432	mg/L	1.05224	1.92%
QC value within limits for Mg 279.077 Recovery = 109.89%								
Mn 257.610†	128214.1	0.491585	mg/L	0.0125867	0.491585	mg/L	0.0125867	2.56%
QC value within limits for Mn 257.610 Recovery = 98.32%								
Mo 202.031†	4812.4	0.490214	mg/L	0.0085324	0.490214	mg/L	0.0085324	1.74%
QC value within limits for Mo 202.031 Recovery = 98.04%								
Na 330.237†	14426.6	47.5415	mg/L	1.43274	47.5415	mg/L	1.43274	3.01%
QC value within limits for Na 330.237 Recovery = 95.08%								
Ni 231.604†	13291.6	0.504939	mg/L	0.0128062	0.504939	mg/L	0.0128062	2.54%
QC value within limits for Ni 231.604 Recovery = 100.99%								
Pb 220.353†	2056.3	0.506469	mg/L	0.0080797	0.506469	mg/L	0.0080797	1.60%
QC value within limits for Pb 220.353 Recovery = 101.29%								
Sb 206.836†	737.2	0.506070	mg/L	0.0103657	0.506070	mg/L	0.0103657	2.05%
QC value within limits for Sb 206.836 Recovery = 101.21%								
Se 196.026†	267.6	0.499984	mg/L	0.0129179	0.499984	mg/L	0.0129179	2.58%
QC value within limits for Se 196.026 Recovery = 100.00%								
Sn 189.927†	1460.0	0.514442	mg/L	0.0079959	0.514442	mg/L	0.0079959	1.55%
QC value within limits for Sn 189.927 Recovery = 102.89%								
Ti 334.940†	70512.7	0.479534	mg/L	0.0088704	0.479534	mg/L	0.0088704	1.85%
QC value within limits for Ti 334.940 Recovery = 95.91%								
Tl 190.801†	543.3	0.505045	mg/L	0.0157999	0.505045	mg/L	0.0157999	3.13%
QC value within limits for Tl 190.801 Recovery = 101.01%								
V 290.880†	32096.6	0.490280	mg/L	0.0137546	0.490280	mg/L	0.0137546	2.81%
QC value within limits for V 290.880 Recovery = 98.06%								
Zn 206.200†	16653.7	0.502572	mg/L	0.0135135	0.502572	mg/L	0.0135135	2.69%
QC value within limits for Zn 206.200 Recovery = 100.51%								

QC Failed. Continue with analysis.

Sequence No.: 21
Sample ID: LLCCV V-187248
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/22/2014 10:40:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-187248

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	430724.4	111	%	0.5				0.41%
Y 371.029	165736.1	102	%	0.4				0.37%
Ag 328.068†	1231.5	0.0149779	mg/L	0.00167699	0.0149779	mg/L	0.00167699	11.20%
QC value within limits for Ag 328.068 Recovery = 99.85%								
Al 308.215†	20742.6	1.90813	mg/L	0.064340	1.90813	mg/L	0.064340	3.37%
QC value within limits for Al 308.215 Recovery = 95.41%								
As 188.979†	32.4	0.0386312	mg/L	0.00254515	0.0386312	mg/L	0.00254515	6.59%
QC value within limits for As 188.979 Recovery = 96.58%								
Ba 233.527†	8181.2	0.0968050	mg/L	0.00369746	0.0968050	mg/L	0.00369746	3.82%
QC value within limits for Ba 233.527 Recovery = 96.81%								
Be 313.107†	15990.5	0.0098349	mg/L	0.00039388	0.0098349	mg/L	0.00039388	4.00%
QC value within limits for Be 313.107 Recovery = 81.96%								
Ca 317.933†	632363.1	10.1126	mg/L	0.32612	10.1126	mg/L	0.32612	3.22%
QC value within limits for Ca 317.933 Recovery = 101.13%								
Cd 228.802†	267.2	0.0106364	mg/L	0.00027282	0.0106364	mg/L	0.00027282	2.56%
QC value within limits for Cd 228.802 Recovery = 88.64%								
Co 228.616†	575.8	0.0202210	mg/L	0.00021516	0.0202210	mg/L	0.00021516	1.06%
QC value within limits for Co 228.616 Recovery = 80.88%								
Cr 267.716†	1406.4	0.0455868	mg/L	0.00089797	0.0455868	mg/L	0.00089797	1.97%
QC value within limits for Cr 267.716 Recovery = 91.17%								
Cu 327.393†	3039.8	0.0468813	mg/L	0.00306026	0.0468813	mg/L	0.00306026	6.53%
QC value within limits for Cu 327.393 Recovery = 93.76%								
Fe 273.955†	28469.2	1.97055	mg/L	0.065440	1.97055	mg/L	0.065440	3.32%
QC value within limits for Fe 273.955 Recovery = 98.53%								
K 404.721†	-1213.1	3.74407	mg/L	0.063203	3.74407	mg/L	0.063203	1.69%
QC value within limits for K 404.721 Recovery = 74.88%								
Mg 279.077†	28986.9	4.50699	mg/L	0.190450	4.50699	mg/L	0.190450	4.23%
QC value within limits for Mg 279.077 Recovery = 90.14%								
Mn 257.610†	26267.9	0.0975934	mg/L	0.00323642	0.0975934	mg/L	0.00323642	3.32%
QC value within limits for Mn 257.610 Recovery = 97.59%								
Mo 202.031†	256.2	0.0226566	mg/L	0.00029050	0.0226566	mg/L	0.00029050	1.28%
QC value within limits for Mo 202.031 Recovery = 90.63%								
Na 330.237†	666.8	2.49668	mg/L	0.068891	2.49668	mg/L	0.068891	2.76%
QC value within limits for Na 330.237 Recovery = 99.87%								
Ni 231.604†	1302.5	0.0445897	mg/L	0.00136365	0.0445897	mg/L	0.00136365	3.06%
QC value within limits for Ni 231.604 Recovery = 89.18%								
Pb 220.353†	207.4	0.0494352	mg/L	0.00245493	0.0494352	mg/L	0.00245493	4.97%
QC value within limits for Pb 220.353 Recovery = 98.87%								
Sb 206.836†	46.0	0.0294159	mg/L	0.00188836	0.0294159	mg/L	0.00188836	6.42%
QC value within limits for Sb 206.836 Recovery = 73.54%								
Se 196.026†	14.9	0.0233477	mg/L	0.00200491	0.0233477	mg/L	0.00200491	8.59%
QC value within limits for Se 196.026 Recovery = 77.83%								
Sn 189.927†	586.7	0.204200	mg/L	0.0038735	0.204200	mg/L	0.0038735	1.90%
QC value within limits for Sn 189.927 Recovery = 102.10%								
Ti 334.940†	14916.1	0.101787	mg/L	0.0027281	0.101787	mg/L	0.0027281	2.68%
QC value within limits for Ti 334.940 Recovery = 101.79%								
Tl 190.801†	17.8	0.0137853	mg/L	0.00088744	0.0137853	mg/L	0.00088744	6.44%
QC value within limits for Tl 190.801 Recovery = 91.90%								
V 290.880†	6254.4	0.0926902	mg/L	0.00403726	0.0926902	mg/L	0.00403726	4.36%
QC value within limits for V 290.880 Recovery = 92.69%								
Zn 206.200†	3262.4	0.0921830	mg/L	0.00133376	0.0921830	mg/L	0.00133376	1.45%
QC value within limits for Zn 206.200 Recovery = 92.18%								

All analyte(s) passed QC.

Sequence No.: 22
Sample ID: CCB V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/22/2014 10:43:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-183928

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	437405.3	113	%	1.2				1.05%
Y 371.029	170499.5	105	%	1.0				0.94%
Ag 328.068†	40.7	-0.0003069	mg/L	0.00037283	-0.0003069	mg/L	0.00037283	121.47%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-279.9	-0.0623612	mg/L	0.00218801	-0.0623612	mg/L	0.00218801	3.51%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-1.6	-0.0030677	mg/L	0.00043110	-0.0030677	mg/L	0.00043110	14.05%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	19.9	-0.0047863	mg/L	0.00007239	-0.0047863	mg/L	0.00007239	1.51%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	27.0	-0.0021779	mg/L	0.00002004	-0.0021779	mg/L	0.00002004	0.92%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	88.7	-0.446783	mg/L	0.0007160	-0.446783	mg/L	0.0007160	0.16%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-11.0	-0.0020480	mg/L	0.00030415	-0.0020480	mg/L	0.00030415	14.85%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-52.8	-0.0063715	mg/L	0.00011009	-0.0063715	mg/L	0.00011009	1.73%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-32.1	-0.0053571	mg/L	0.00037785	-0.0053571	mg/L	0.00037785	7.05%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	129.8	-0.0030787	mg/L	0.00066679	-0.0030787	mg/L	0.00066679	21.66%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	22.4	-0.0535591	mg/L	0.00000944	-0.0535591	mg/L	0.00000944	0.02%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	-3802.0	-18.5753	mg/L	1.58574	-18.5753	mg/L	1.58574	8.54%
QC value less than the lower limit for K 404.721 Recovery = Not calculated								
Mg 279.077†	22.2	-1.33175	mg/L	0.002255	-1.33175	mg/L	0.002255	0.17%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-11.3	-0.0042147	mg/L	0.00005175	-0.0042147	mg/L	0.00005175	1.23%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-3.9	-0.0034690	mg/L	0.00007560	-0.0034690	mg/L	0.00007560	2.18%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	69.0	0.539439	mg/L	0.2496925	0.539439	mg/L	0.2496925	46.29%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	-51.8	-0.0073703	mg/L	0.00074317	-0.0073703	mg/L	0.00074317	10.08%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-3.9	-0.0014620	mg/L	0.00074712	-0.0014620	mg/L	0.00074712	51.10%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-5.8	-0.0058031	mg/L	0.00186348	-0.0058031	mg/L	0.00186348	32.11%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	2.7	0.0004219	mg/L	0.00839896	0.0004219	mg/L	0.00839896	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	4.9	-0.0019725	mg/L	0.00005509	-0.0019725	mg/L	0.00005509	2.79%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	13.6	0.0005295	mg/L	0.00001122	0.0005295	mg/L	0.00001122	2.12%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	0.5	-0.0028472	mg/L	0.00109615	-0.0028472	mg/L	0.00109615	38.50%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-87.0	-0.0054616	mg/L	0.00015400	-0.0054616	mg/L	0.00015400	2.82%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	17.0	-0.0072858	mg/L	0.00001831	-0.0072858	mg/L	0.00001831	0.25%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 23
Sample ID: 78787-015 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 5/22/2014 10:47:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-015 SD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	431031.9	111	%	0.0				0.01%
Y 371.029	169389.9	104	%	0.3				0.25%
Ag 328.068†	-226.0	0.0001677	mg/L	0.00101739	0.0001677	mg/L	0.00101739	606.54%
Al 308.215†	115367.0	10.7915	mg/L	0.06888	10.7915	mg/L	0.06888	0.64%
As 188.979†	19.8	0.0255826	mg/L	0.00089122	0.0255826	mg/L	0.00089122	3.48%
Ba 233.527†	11601.0	0.138837	mg/L	0.0017864	0.138837	mg/L	0.0017864	1.29%
Be 313.107†	1009.0	-0.0016040	mg/L	0.00002426	-0.0016040	mg/L	0.00002426	1.51%
Ca 317.933†	2763875.0	45.7100	mg/L	1.10751	45.7100	mg/L	1.10751	2.42%
Cd 228.802†	5.3	-0.0013024	mg/L	0.00002690	-0.0013024	mg/L	0.00002690	2.07%
Co 228.616†	192.2	0.0031342	mg/L	0.00033777	0.0031342	mg/L	0.00033777	10.78%
Cr 267.716†	1077.4	0.0347358	mg/L	0.00007703	0.0347358	mg/L	0.00007703	0.22%
Cu 327.393†	2305.1	0.0342680	mg/L	0.00192279	0.0342680	mg/L	0.00192279	5.61%
Fe 273.955†	256459.7	18.2032	mg/L	0.44661	18.2032	mg/L	0.44661	2.45%
K 404.721†	16846.9	159.437	mg/L	0.3069	159.437	mg/L	0.3069	0.19%
Mg 279.077†	44931.9	7.71864	mg/L	0.093271	7.71864	mg/L	0.093271	1.21%
Mn 257.610†	123915.1	0.476523	mg/L	0.0029138	0.476523	mg/L	0.0029138	0.61%
Mo 202.031†	45.3	-0.0015259	mg/L	0.00071132	-0.0015259	mg/L	0.00071132	46.62%
Na 330.237†	86.4	0.596393	mg/L	0.0714801	0.596393	mg/L	0.0714801	11.99%
Ni 231.604†	1065.3	0.0354656	mg/L	0.00032024	0.0354656	mg/L	0.00032024	0.90%
Pb 220.353†	1889.7	0.458760	mg/L	0.0027201	0.458760	mg/L	0.0027201	0.59%
Sb 206.836†	3.9	-0.0033816	mg/L	0.00278391	-0.0033816	mg/L	0.00278391	82.32%
Se 196.026†	3.1	0.0006630	mg/L	0.00489343	0.0006630	mg/L	0.00489343	738.07%
Sn 189.927†	63.3	0.0207484	mg/L	0.00084932	0.0207484	mg/L	0.00084932	4.09%
Ti 334.940†	61276.3	0.416895	mg/L	0.0028440	0.416895	mg/L	0.0028440	0.68%
Tl 190.801†	-0.4	-0.0014742	mg/L	0.00014164	-0.0014742	mg/L	0.00014164	9.61%
V 290.880†	1973.7	0.0248222	mg/L	0.00079465	0.0248222	mg/L	0.00079465	3.20%
Zn 206.200†	3844.2	0.109509	mg/L	0.0000074	0.109509	mg/L	0.0000074	0.01%

Sequence No.: 24
Sample ID: 78787-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 5/22/2014 10:50:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-001

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	426815.0	110	%	0.4				0.34%
Y 371.029	177416.4	109	%	0.6				0.58%
Ag 328.068†	-1990.1	0.0103788	mg/L	0.00124349	0.0103788	mg/L	0.00124349	11.98%
Al 308.215†	307516.8	28.6982	mg/L	0.32362	28.6982	mg/L	0.32362	1.13%
As 188.979†	4417.2	5.41202	mg/L	0.025535	5.41202	mg/L	0.025535	0.47%
Ba 233.527†	417706.3	5.18909	mg/L	0.047889	5.18909	mg/L	0.047889	0.92%
Be 313.107†	6339.3	0.0018055	mg/L	0.00001484	0.0018055	mg/L	0.00001484	0.82%
Ca 317.933†	2744079.2	45.3794	mg/L	0.36974	45.3794	mg/L	0.36974	0.81%
Cd 228.802†	2157.3	0.0967884	mg/L	0.00038188	0.0967884	mg/L	0.00038188	0.39%
Co 228.616†	1838.1	0.0697097	mg/L	0.00094144	0.0697097	mg/L	0.00094144	1.35%
Cr 267.716†	4367.2	0.161782	mg/L	0.0007151	0.161782	mg/L	0.0007151	0.44%
Cu 327.393†	258808.8	4.43807	mg/L	0.055144	4.43807	mg/L	0.055144	1.24%
Fe 273.955†	3665938.5	260.966	mg/L	2.5480	260.966	mg/L	2.5480	0.98%
K 404.721†	307014.8	2660.94	mg/L	1.791	2660.94	mg/L	1.791	0.07%
Mg 279.077†	50546.0	8.85112	mg/L	0.108315	8.85112	mg/L	0.108315	1.22%
Mn 257.610†	591468.9	2.29140	mg/L	0.023327	2.29140	mg/L	0.023327	1.02%
Mo 202.031†	202.9	0.0131078	mg/L	0.00064818	0.0131078	mg/L	0.00064818	4.95%
Na 330.237†	2248.3	7.67373	mg/L	0.073033	7.67373	mg/L	0.073033	0.95%
Ni 231.604†	12487.9	0.473413	mg/L	0.0010310	0.473413	mg/L	0.0010310	0.22%
Pb 220.353†	40067.8	9.89502	mg/L	0.102584	9.89502	mg/L	0.102584	1.04%
Sb 206.836†	77.1	0.0147851	mg/L	0.00117326	0.0147851	mg/L	0.00117326	7.94%
Se 196.026†	15.4	0.0216033	mg/L	0.00760130	0.0216033	mg/L	0.00760130	35.19%
Sn 189.927†	924.1	0.334669	mg/L	0.0024986	0.334669	mg/L	0.0024986	0.75%
Ti 334.940†	286340.7	1.94492	mg/L	0.002625	1.94492	mg/L	0.002625	0.13%
Tl 190.801†	-9.2	-0.0001407	mg/L	0.00019179	-0.0001407	mg/L	0.00019179	136.30%
V 290.880†	9519.3	0.129954	mg/L	0.0003439	0.129954	mg/L	0.0003439	0.26%
Zn 206.200†	162686.8	4.98689	mg/L	0.050639	4.98689	mg/L	0.050639	1.02%

Sequence No.: 25
Sample ID: 78787-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 5/22/2014 10:54:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-002

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	380632.1	98.1	%	0.22				0.22%
Y 371.029	170429.0	105	%	0.4				0.39%
Ag 328.068†	-2225.2	0.0016773	mg/L	0.00054617	0.0016773	mg/L	0.00054617	32.56%
Al 308.215†	513932.5	47.7489	mg/L	0.76113	47.7489	mg/L	0.76113	1.59%
As 188.979†	330.3	0.416224	mg/L	0.0055841	0.416224	mg/L	0.0055841	1.34%
Ba 233.527†	199606.8	2.47764	mg/L	0.024479	2.47764	mg/L	0.024479	0.99%
Be 313.107†	4214.2	0.0004172	mg/L	0.00006591	0.0004172	mg/L	0.00006591	15.80%
Ca 317.933†	32009783.2	534.133	mg/L	9.5408	534.133	mg/L	9.5408	1.79%
Cd 228.802†	202.7	0.0076931	mg/L	0.00022356	0.0076931	mg/L	0.00022356	2.91%
Co 228.616†	1125.1	0.0405888	mg/L	0.00071515	0.0405888	mg/L	0.00071515	1.76%
Cr 267.716†	3471.3	0.124538	mg/L	0.0010879	0.124538	mg/L	0.0010879	0.87%
Cu 327.393†	24025.8	0.407180	mg/L	0.0069282	0.407180	mg/L	0.0069282	1.70%
Fe 273.955†	1512999.3	107.658	mg/L	1.5935	107.658	mg/L	1.5935	1.48%
K 404.721†	126569.0	1105.34	mg/L	1.928	1105.34	mg/L	1.928	0.17%
Mg 279.077†	339204.2	67.0199	mg/L	0.64849	67.0199	mg/L	0.64849	0.97%
Mn 257.610†	960675.9	3.72256	mg/L	0.053481	3.72256	mg/L	0.053481	1.44%
Mo 202.031†	128.1	-0.0225131	mg/L	0.00076642	-0.0225131	mg/L	0.00076642	3.40%
Na 330.237†	696.3	2.59305	mg/L	0.289694	2.59305	mg/L	0.289694	11.17%
Ni 231.604†	3796.6	0.140192	mg/L	0.0001499	0.140192	mg/L	0.0001499	0.11%
Pb 220.353†	23342.1	5.73460	mg/L	0.054340	5.73460	mg/L	0.054340	0.95%
Sb 206.836†	33.8	-0.0033051	mg/L	0.00041573	-0.0033051	mg/L	0.00041573	12.58%
Se 196.026†	2.6	-0.0013191	mg/L	0.00837249	-0.0013191	mg/L	0.00837249	634.69%
Sn 189.927†	504.5	0.192730	mg/L	0.0021427	0.192730	mg/L	0.0021427	1.11%
Ti 334.940†	207194.1	1.40802	mg/L	0.012338	1.40802	mg/L	0.012338	0.88%
Tl 190.801†	-8.7	-0.0071575	mg/L	0.00407087	-0.0071575	mg/L	0.00407087	56.88%
V 290.880†	13069.5	0.187278	mg/L	0.0034891	0.187278	mg/L	0.0034891	1.86%
Zn 206.200†	65745.7	2.00075	mg/L	0.020516	2.00075	mg/L	0.020516	1.03%

Sequence No.: 26
Sample ID: 78787-007
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 5/22/2014 10:58:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-007

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	443912.4	114	%	0.0				0.02%
Y 371.029	182863.3	113	%	0.1				0.10%
Ag 328.068†	-832.8	0.0050074	mg/L	0.00115350	0.0050074	mg/L	0.00115350	23.04%
Al 308.215†	283711.6	26.6234	mg/L	0.11338	26.6234	mg/L	0.11338	0.43%
As 188.979†	3252.5	3.97297	mg/L	0.006834	3.97297	mg/L	0.006834	0.17%
Ba 233.527†	380274.6	4.72797	mg/L	0.029675	4.72797	mg/L	0.029675	0.63%
Be 313.107†	6716.7	0.0024302	mg/L	0.00003153	0.0024302	mg/L	0.00003153	1.30%
Ca 317.933†	2282947.2	37.6783	mg/L	0.91390	37.6783	mg/L	0.91390	2.43%
Cd 228.802†	1455.5	0.0648011	mg/L	0.00003879	0.0648011	mg/L	0.00003879	0.06%
Co 228.616†	1949.4	0.0763450	mg/L	0.00032530	0.0763450	mg/L	0.00032530	0.43%
Cr 267.716†	6272.9	0.221840	mg/L	0.0005570	0.221840	mg/L	0.0005570	0.25%
Cu 327.393†	591761.8	10.1544	mg/L	0.28683	10.1544	mg/L	0.28683	2.82%
Fe 273.955†	1595509.5	113.547	mg/L	2.9053	113.547	mg/L	2.9053	2.56%
K 404.721†	126739.9	1106.81	mg/L	21.425	1106.81	mg/L	21.425	1.94%
Mg 279.077†	29211.6	4.55254	mg/L	0.024421	4.55254	mg/L	0.024421	0.54%
Mn 257.610†	250520.5	0.968081	mg/L	0.0032275	0.968081	mg/L	0.0032275	0.33%
Mo 202.031†	292.4	0.0237063	mg/L	0.00022685	0.0237063	mg/L	0.00022685	0.96%
Na 330.237†	784.8	2.88272	mg/L	0.136483	2.88272	mg/L	0.136483	4.73%
Ni 231.604†	4061.9	0.150388	mg/L	0.0000288	0.150388	mg/L	0.0000288	0.02%
Pb 220.353†	27182.5	6.71323	mg/L	0.038228	6.71323	mg/L	0.038228	0.57%
Sb 206.836†	39.0	0.0072928	mg/L	0.00131067	0.0072928	mg/L	0.00131067	17.97%
Se 196.026†	12.4	0.0172027	mg/L	0.00104448	0.0172027	mg/L	0.00104448	6.07%
Sn 189.927†	1424.1	0.505632	mg/L	0.0002424	0.505632	mg/L	0.0002424	0.05%
Ti 334.940†	162063.8	1.10139	mg/L	0.002181	1.10139	mg/L	0.002181	0.20%
Tl 190.801†	-8.3	-0.0044368	mg/L	0.00139447	-0.0044368	mg/L	0.00139447	31.43%
V 290.880†	8583.5	0.123305	mg/L	0.0010089	0.123305	mg/L	0.0010089	0.82%
Zn 206.200†	54631.8	1.66938	mg/L	0.011541	1.66938	mg/L	0.011541	0.69%

Sequence No.: 27
Sample ID: 78787-008
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 5/22/2014 11:01:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-008

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	436040.6	112	%	0.6				0.56%
Y 371.029	183185.8	113	%	0.3				0.23%
Ag 328.068†	-1073.3	0.0005478	mg/L	0.00045198	0.0005478	mg/L	0.00045198	82.50%
Al 308.215†	503929.7	47.4358	mg/L	1.33598	47.4358	mg/L	1.33598	2.82%
As 188.979†	40.6	0.0632920	mg/L	0.00394401	0.0632920	mg/L	0.00394401	6.23%
Ba 233.527†	35262.5	0.430567	mg/L	0.0042292	0.430567	mg/L	0.0042292	0.98%
Be 313.107†	6182.4	0.0010502	mg/L	0.00000413	0.0010502	mg/L	0.00000413	0.39%
Ca 317.933†	1739716.0	28.6060	mg/L	0.73021	28.6060	mg/L	0.73021	2.55%
Cd 228.802†	22.1	-0.0005361	mg/L	0.00038860	-0.0005361	mg/L	0.00038860	72.49%
Co 228.616†	1753.6	0.0625412	mg/L	0.00161592	0.0625412	mg/L	0.00161592	2.58%
Cr 267.716†	4322.5	0.153294	mg/L	0.0022813	0.153294	mg/L	0.0022813	1.49%
Cu 327.393†	9500.4	0.157801	mg/L	0.0006356	0.157801	mg/L	0.0006356	0.40%
Fe 273.955†	1465261.5	104.268	mg/L	2.6831	104.268	mg/L	2.6831	2.57%
K 404.721†	116004.6	1014.26	mg/L	26.452	1014.26	mg/L	26.452	2.61%
Mg 279.077†	147137.5	28.3146	mg/L	0.37131	28.3146	mg/L	0.37131	1.31%
Mn 257.610†	548949.3	2.12568	mg/L	0.056461	2.12568	mg/L	0.056461	2.66%
Mo 202.031†	32.0	-0.0052594	mg/L	0.00045824	-0.0052594	mg/L	0.00045824	8.71%
Na 330.237†	-700.8	-1.98057	mg/L	0.070213	-1.98057	mg/L	0.070213	3.55%
Ni 231.604†	9908.2	0.374486	mg/L	0.0029904	0.374486	mg/L	0.0029904	0.80%
Pb 220.353†	1072.5	0.227655	mg/L	0.0033791	0.227655	mg/L	0.0033791	1.48%
Sb 206.836†	30.2	-0.0031055	mg/L	0.00354646	-0.0031055	mg/L	0.00354646	114.20%
Se 196.026†	3.4	-0.0014027	mg/L	0.00242057	-0.0014027	mg/L	0.00242057	172.57%
Sn 189.927†	126.1	0.0475744	mg/L	0.00036859	0.0475744	mg/L	0.00036859	0.77%
Ti 334.940†	519218.7	3.52948	mg/L	0.122061	3.52948	mg/L	0.122061	3.46%
Tl 190.801†	-23.8	-0.0039937	mg/L	0.00063346	-0.0039937	mg/L	0.00063346	15.86%
V 290.880†	12589.6	0.183841	mg/L	0.0010237	0.183841	mg/L	0.0010237	0.56%
Zn 206.200†	12040.2	0.362359	mg/L	0.0036928	0.362359	mg/L	0.0036928	1.02%

Sequence No.: 28
Sample ID: 78787-014
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 5/22/2014 11:05:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-014

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	426489.7	110	%	0.5				0.47%
Y 371.029	184859.2	114	%	0.3				0.23%
Ag 328.068†	-1222.5	0.0014009	mg/L	0.00014075	0.0014009	mg/L	0.00014075	10.05%
Al 308.215†	523730.9	49.2127	mg/L	0.90942	49.2127	mg/L	0.90942	1.85%
As 188.979†	137.4	0.180937	mg/L	0.0024094	0.180937	mg/L	0.0024094	1.33%
Ba 233.527†	65266.2	0.804343	mg/L	0.0029121	0.804343	mg/L	0.0029121	0.36%
Be 313.107†	5711.5	0.0012380	mg/L	0.00002185	0.0012380	mg/L	0.00002185	1.76%
Ca 317.933†	7421818.7	123.500	mg/L	2.4869	123.500	mg/L	2.4869	2.01%
Cd 228.802†	81.4	0.0021667	mg/L	0.00029717	0.0021667	mg/L	0.00029717	13.72%
Co 228.616†	1326.0	0.0474045	mg/L	0.00068816	0.0474045	mg/L	0.00068816	1.45%
Cr 267.716†	3047.3	0.108605	mg/L	0.0000738	0.108605	mg/L	0.0000738	0.07%
Cu 327.393†	18525.3	0.312745	mg/L	0.0006534	0.312745	mg/L	0.0006534	0.21%
Fe 273.955†	1454344.4	103.489	mg/L	1.8719	103.489	mg/L	1.8719	1.81%
K 404.721†	116188.8	1015.85	mg/L	14.602	1015.85	mg/L	14.602	1.44%
Mg 279.077†	172913.5	33.5094	mg/L	0.59862	33.5094	mg/L	0.59862	1.79%
Mn 257.610†	434588.9	1.68159	mg/L	0.030274	1.68159	mg/L	0.030274	1.80%
Mo 202.031†	99.2	-0.0023896	mg/L	0.00038267	-0.0023896	mg/L	0.00038267	16.01%
Na 330.237†	191.8	0.941429	mg/L	0.0207810	0.941429	mg/L	0.0207810	2.21%
Ni 231.604†	5608.2	0.209641	mg/L	0.0015858	0.209641	mg/L	0.0015858	0.76%
Pb 220.353†	6161.2	1.48576	mg/L	0.014501	1.48576	mg/L	0.014501	0.98%
Sb 206.836†	31.9	-0.0011290	mg/L	0.00434823	-0.0011290	mg/L	0.00434823	385.14%
Se 196.026†	4.0	0.0006132	mg/L	0.00656302	0.0006132	mg/L	0.00656302	>999.9%
Sn 189.927†	323.9	0.118962	mg/L	0.0005029	0.118962	mg/L	0.0005029	0.42%
Ti 334.940†	320493.8	2.17862	mg/L	0.053424	2.17862	mg/L	0.053424	2.45%
Tl 190.801†	-15.9	-0.0051043	mg/L	0.00239135	-0.0051043	mg/L	0.00239135	46.85%
V 290.880†	11042.9	0.159254	mg/L	0.0015038	0.159254	mg/L	0.0015038	0.94%
Zn 206.200†	21448.7	0.649288	mg/L	0.0061371	0.649288	mg/L	0.0061371	0.95%

Sequence No.: 29
Sample ID: ICSA V-185754
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/22/2014 11:08:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185754

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	360269.2	92.8	%	0.04				0.05%
Y 371.029	140186.2	86.5	%	0.39				0.45%
Ag 328.068†	-3065.2	0.0013802	mg/L	0.00057389	0.0013802	mg/L	0.00057389	41.58%
Al 308.215†	5452872.1	514.938	mg/L	11.8927	514.938	mg/L	11.8927	2.31%
QC value within limits for Al 308.215 Recovery = 102.99%								
As 188.979†	-8.4	0.0115289	mg/L	0.00091435	0.0115289	mg/L	0.00091435	7.93%
Ba 233.527†	698.6	-0.0031604	mg/L	0.00009779	-0.0031604	mg/L	0.00009779	3.09%
Be 313.107†	-593.2	-0.0026464	mg/L	0.00001042	-0.0026464	mg/L	0.00001042	0.39%
Ca 317.933†	29134028.6	486.107	mg/L	11.6223	486.107	mg/L	11.6223	2.39%
QC value within limits for Ca 317.933 Recovery = 97.22%								
Cd 228.802†	58.5	0.0011220	mg/L	0.00023237	0.0011220	mg/L	0.00023237	20.71%
Co 228.616†	120.7	0.0010399	mg/L	0.00057923	0.0010399	mg/L	0.00057923	55.70%
Cr 267.716†	-371.5	0.0059966	mg/L	0.00042916	0.0059966	mg/L	0.00042916	7.16%
Cu 327.393†	492.3	0.0031449	mg/L	0.00010573	0.0031449	mg/L	0.00010573	3.36%
Fe 273.955†	2737182.8	194.703	mg/L	5.1056	194.703	mg/L	5.1056	2.62%
QC value within limits for Fe 273.955 Recovery = 97.35%								
K 404.721†	241734.8	2098.17	mg/L	36.832	2098.17	mg/L	36.832	1.76%
Mg 279.077†	2866461.3	576.303	mg/L	15.6136	576.303	mg/L	15.6136	2.71%
QC value within limits for Mg 279.077 Recovery = 115.26%								
Mn 257.610†	6454.4	0.0009908	mg/L	0.00005998	0.0009908	mg/L	0.00005998	6.05%
Mo 202.031†	93.1	-0.0218076	mg/L	0.00003915	-0.0218076	mg/L	0.00003915	0.18%
Na 330.237†	-75.8	0.0656005	mg/L	0.06586767	0.0656005	mg/L	0.06586767	100.41%
Ni 231.604†	179.7	0.0015170	mg/L	0.00074703	0.0015170	mg/L	0.00074703	49.24%
Pb 220.353†	1286.7	-0.0147654	mg/L	0.00616186	-0.0147654	mg/L	0.00616186	41.73%
Sb 206.836†	103.1	-0.0107003	mg/L	0.00565300	-0.0107003	mg/L	0.00565300	52.83%
Se 196.026†	0.2	-0.0172425	mg/L	0.00069874	-0.0172425	mg/L	0.00069874	4.05%
Sn 189.927†	-56.6	-0.0048193	mg/L	0.00087823	-0.0048193	mg/L	0.00087823	18.22%
Ti 334.940†	70.4	0.0009177	mg/L	0.00005132	0.0009177	mg/L	0.00005132	5.59%
Tl 190.801†	1.1	-0.0003846	mg/L	0.00134939	-0.0003846	mg/L	0.00134939	350.81%
V 290.880†	1838.7	-0.0431343	mg/L	0.00143026	-0.0431343	mg/L	0.00143026	3.32%
Zn 206.200†	-179.7	-0.0115668	mg/L	0.00009770	-0.0115668	mg/L	0.00009770	0.84%

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/22/2014 11:12:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	366011.1	94.3	%	0.50				0.53%
Y 371.029	139036.8	85.8	%	0.31				0.36%
Ag 328.068†	86329.6	1.10501	mg/L	0.005443	1.10501	mg/L	0.005443	0.49%
QC value within limits for Ag 328.068 Recovery = 110.50%								
Al 308.215†	5403023.2	510.219	mg/L	10.4095	510.219	mg/L	10.4095	2.04%
QC value within limits for Al 308.215 Recovery = 102.04%								
As 188.979†	855.2	1.06207	mg/L	0.005524	1.06207	mg/L	0.005524	0.52%
QC value within limits for As 188.979 Recovery = 106.21%								
Ba 233.527†	43121.0	0.525337	mg/L	0.0058905	0.525337	mg/L	0.0058905	1.12%
QC value within limits for Ba 233.527 Recovery = 105.07%								
Be 313.107†	691438.5	0.519885	mg/L	0.0110952	0.519885	mg/L	0.0110952	2.13%
QC value within limits for Be 313.107 Recovery = 103.98%								
Ca 317.933†	28689128.8	478.677	mg/L	12.0372	478.677	mg/L	12.0372	2.51%
QC value within limits for Ca 317.933 Recovery = 95.74%								
Cd 228.802†	23199.0	1.05592	mg/L	0.007947	1.05592	mg/L	0.007947	0.75%
QC value within limits for Cd 228.802 Recovery = 105.59%								
Co 228.616†	11622.3	0.489316	mg/L	0.0041549	0.489316	mg/L	0.0041549	0.85%
QC value within limits for Co 228.616 Recovery = 97.86%								
Cr 267.716†	14002.0	0.510975	mg/L	0.0043941	0.510975	mg/L	0.0043941	0.86%
QC value within limits for Cr 267.716 Recovery = 102.20%								
Cu 327.393†	31312.6	0.532284	mg/L	0.0034652	0.532284	mg/L	0.0034652	0.65%
QC value within limits for Cu 327.393 Recovery = 106.46%								
Fe 273.955†	2716422.5	193.226	mg/L	4.0622	193.226	mg/L	4.0622	2.10%
QC value within limits for Fe 273.955 Recovery = 96.61%								
K 404.721†	239339.1	2077.52	mg/L	13.529	2077.52	mg/L	13.529	0.65%
Mg 279.077†	2843458.3	571.667	mg/L	12.1599	571.667	mg/L	12.1599	2.13%
QC value within limits for Mg 279.077 Recovery = 114.33%								
Mn 257.610†	136304.9	0.505196	mg/L	0.0041557	0.505196	mg/L	0.0041557	0.82%
QC value within limits for Mn 257.610 Recovery = 101.04%								
Mo 202.031†	78.7	-0.0228625	mg/L	0.00038266	-0.0228625	mg/L	0.00038266	1.67%
Na 330.237†	449.6	1.78536	mg/L	0.078724	1.78536	mg/L	0.078724	4.41%
Ni 231.604†	25077.8	0.956075	mg/L	0.0056418	0.956075	mg/L	0.0056418	0.59%
QC value within limits for Ni 231.604 Recovery = 95.61%								
Pb 220.353†	5271.9	0.976878	mg/L	0.0000271	0.976878	mg/L	0.0000271	0.00%
QC value within limits for Pb 220.353 Recovery = 97.69%								
Sb 206.836†	1641.1	1.05248	mg/L	0.002187	1.05248	mg/L	0.002187	0.21%
QC value within limits for Sb 206.836 Recovery = 105.25%								
Se 196.026†	555.1	1.02974	mg/L	0.007746	1.02974	mg/L	0.007746	0.75%
QC value within limits for Se 196.026 Recovery = 102.97%								
Sn 189.927†	-69.4	-0.0095741	mg/L	0.00004654	-0.0095741	mg/L	0.00004654	0.49%
Ti 334.940†	75.0	0.0005959	mg/L	0.00000745	0.0005959	mg/L	0.00000745	1.25%
Tl 190.801†	1042.9	0.969183	mg/L	0.0143201	0.969183	mg/L	0.0143201	1.48%
QC value within limits for Tl 190.801 Recovery = 96.92%								
V 290.880†	33424.3	0.449703	mg/L	0.0031183	0.449703	mg/L	0.0031183	0.69%
QC value within limits for V 290.880 Recovery = 89.94%								
Zn 206.200†	31707.5	0.967511	mg/L	0.0069602	0.967511	mg/L	0.0069602	0.72%
QC value within limits for Zn 206.200 Recovery = 96.75%								

All analyte(s) passed QC.

Sequence No.: 31
Sample ID: CCV V-185529
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/22/2014 11:17:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185529

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	414247.8	107	%	1.1				1.06%
Y 371.029	157404.8	97.1	%	0.91				0.94%
Ag 328.068†	8123.3	0.101665	mg/L	0.0014965	0.101665	mg/L	0.0014965	1.47%
QC value within limits for Ag 328.068 Recovery = 101.67%								
Al 308.215†	52691.1	4.85592	mg/L	0.103519	4.85592	mg/L	0.103519	2.13%
QC value within limits for Al 308.215 Recovery = 97.12%								
As 188.979†	408.5	0.497669	mg/L	0.0047602	0.497669	mg/L	0.0047602	0.96%
QC value within limits for As 188.979 Recovery = 99.53%								
Ba 233.527†	40403.8	0.498091	mg/L	0.0113568	0.498091	mg/L	0.0113568	2.28%
QC value within limits for Ba 233.527 Recovery = 99.62%								
Be 313.107†	665007.5	0.499736	mg/L	0.0161160	0.499736	mg/L	0.0161160	3.22%
QC value within limits for Be 313.107 Recovery = 99.95%								
Ca 317.933†	3032899.2	50.2029	mg/L	1.61207	50.2029	mg/L	1.61207	3.21%
QC value within limits for Ca 317.933 Recovery = 100.41%								
Cd 228.802†	10884.6	0.494599	mg/L	0.0110824	0.494599	mg/L	0.0110824	2.24%
QC value within limits for Cd 228.802 Recovery = 98.92%								
Co 228.616†	11755.1	0.496221	mg/L	0.0109424	0.496221	mg/L	0.0109424	2.21%
QC value within limits for Co 228.616 Recovery = 99.24%								
Cr 267.716†	14345.2	0.504278	mg/L	0.0100107	0.504278	mg/L	0.0100107	1.99%
QC value within limits for Cr 267.716 Recovery = 100.86%								
Cu 327.393†	28661.3	0.486766	mg/L	0.0102642	0.486766	mg/L	0.0102642	2.11%
QC value within limits for Cu 327.393 Recovery = 97.35%								
Fe 273.955†	70006.3	4.91625	mg/L	0.113438	4.91625	mg/L	0.113438	2.31%
QC value within limits for Fe 273.955 Recovery = 98.32%								
K 404.721†	2945.9	39.5983	mg/L	4.80334	39.5983	mg/L	4.80334	12.13%
QC value less than the lower limit for K 404.721 Recovery = 79.20%								
Mg 279.077†	280336.7	55.1906	mg/L	1.80434	55.1906	mg/L	1.80434	3.27%
QC value greater than the upper limit for Mg 279.077 Recovery = 110.38%								
Mn 257.610†	127249.6	0.487833	mg/L	0.0093760	0.487833	mg/L	0.0093760	1.92%
QC value within limits for Mn 257.610 Recovery = 97.57%								
Mo 202.031†	4749.5	0.483715	mg/L	0.0074939	0.483715	mg/L	0.0074939	1.55%
QC value within limits for Mo 202.031 Recovery = 96.74%								
Na 330.237†	14317.2	47.1835	mg/L	1.02134	47.1835	mg/L	1.02134	2.16%
QC value within limits for Na 330.237 Recovery = 94.37%								
Ni 231.604†	13115.3	0.498169	mg/L	0.0114817	0.498169	mg/L	0.0114817	2.30%
QC value within limits for Ni 231.604 Recovery = 99.63%								
Pb 220.353†	2024.2	0.498508	mg/L	0.0057102	0.498508	mg/L	0.0057102	1.15%
QC value within limits for Pb 220.353 Recovery = 99.70%								
Sb 206.836†	723.8	0.496843	mg/L	0.0059960	0.496843	mg/L	0.0059960	1.21%
QC value within limits for Sb 206.836 Recovery = 99.37%								
Se 196.026†	261.5	0.488474	mg/L	0.0056940	0.488474	mg/L	0.0056940	1.17%
QC value within limits for Se 196.026 Recovery = 97.69%								
Sn 189.927†	1426.9	0.502746	mg/L	0.0091723	0.502746	mg/L	0.0091723	1.82%
QC value within limits for Sn 189.927 Recovery = 100.55%								
Ti 334.940†	70348.7	0.478421	mg/L	0.0061664	0.478421	mg/L	0.0061664	1.29%
QC value within limits for Ti 334.940 Recovery = 95.68%								
Tl 190.801†	535.3	0.497560	mg/L	0.0058341	0.497560	mg/L	0.0058341	1.17%
QC value within limits for Tl 190.801 Recovery = 99.51%								
V 290.880†	31941.9	0.487845	mg/L	0.0123652	0.487845	mg/L	0.0123652	2.53%
QC value within limits for V 290.880 Recovery = 97.57%								
Zn 206.200†	16437.7	0.495938	mg/L	0.0118327	0.495938	mg/L	0.0118327	2.39%
QC value within limits for Zn 206.200 Recovery = 99.19%								

QC Failed. Continue with analysis.

Sequence No.: 32
Sample ID: LLCCV V-187248
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/22/2014 11:20:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-187248

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	428560.5	110	%	1.8				1.67%
Y 371.029	165103.0	102	%	1.5				1.50%
Ag 328.068†	1190.4	0.0144672	mg/L	0.00096993	0.0144672	mg/L	0.00096993	6.70%
QC value within limits for Ag 328.068 Recovery = 96.45%								
Al 308.215†	20745.4	1.90853	mg/L	0.055576	1.90853	mg/L	0.055576	2.91%
QC value within limits for Al 308.215 Recovery = 95.43%								
As 188.979†	31.3	0.0373224	mg/L	0.00208530	0.0373224	mg/L	0.00208530	5.59%
QC value within limits for As 188.979 Recovery = 93.31%								
Ba 233.527†	8159.7	0.0965384	mg/L	0.00309448	0.0965384	mg/L	0.00309448	3.21%
QC value within limits for Ba 233.527 Recovery = 96.54%								
Be 313.107†	15826.8	0.0097122	mg/L	0.00033697	0.0097122	mg/L	0.00033697	3.47%
QC value within limits for Be 313.107 Recovery = 80.94%								
Ca 317.933†	628464.7	10.0475	mg/L	0.29984	10.0475	mg/L	0.29984	2.98%
QC value within limits for Ca 317.933 Recovery = 100.47%								
Cd 228.802†	260.2	0.0103163	mg/L	0.00064382	0.0103163	mg/L	0.00064382	6.24%
QC value within limits for Cd 228.802 Recovery = 85.97%								
Co 228.616†	572.2	0.0200684	mg/L	0.00028196	0.0200684	mg/L	0.00028196	1.40%
QC value within limits for Co 228.616 Recovery = 80.27%								
Cr 267.716†	1416.2	0.0459239	mg/L	0.00107216	0.0459239	mg/L	0.00107216	2.33%
QC value within limits for Cr 267.716 Recovery = 91.85%								
Cu 327.393†	2979.8	0.0458508	mg/L	0.00100541	0.0458508	mg/L	0.00100541	2.19%
QC value within limits for Cu 327.393 Recovery = 91.70%								
Fe 273.955†	28306.9	1.95901	mg/L	0.057552	1.95901	mg/L	0.057552	2.94%
QC value within limits for Fe 273.955 Recovery = 97.95%								
K 404.721†	-1062.4	5.04326	mg/L	5.454748	5.04326	mg/L	5.454748	108.16%
QC value within limits for K 404.721 Recovery = 100.87%								
Mg 279.077†	28731.1	4.45538	mg/L	0.160227	4.45538	mg/L	0.160227	3.60%
QC value within limits for Mg 279.077 Recovery = 89.11%								
Mn 257.610†	26069.8	0.0968262	mg/L	0.00285833	0.0968262	mg/L	0.00285833	2.95%
QC value within limits for Mn 257.610 Recovery = 96.83%								
Mo 202.031†	247.0	0.0217065	mg/L	0.00058067	0.0217065	mg/L	0.00058067	2.68%
QC value within limits for Mo 202.031 Recovery = 86.83%								
Na 330.237†	714.1	2.65134	mg/L	0.053517	2.65134	mg/L	0.053517	2.02%
QC value within limits for Na 330.237 Recovery = 106.05%								
Ni 231.604†	1315.4	0.0450818	mg/L	0.00095110	0.0450818	mg/L	0.00095110	2.11%
QC value within limits for Ni 231.604 Recovery = 90.16%								
Pb 220.353†	217.1	0.0518217	mg/L	0.00546768	0.0518217	mg/L	0.00546768	10.55%
QC value within limits for Pb 220.353 Recovery = 103.64%								
Sb 206.836†	46.2	0.0295455	mg/L	0.00502467	0.0295455	mg/L	0.00502467	17.01%
QC value within limits for Sb 206.836 Recovery = 73.86%								
Se 196.026†	17.3	0.0278416	mg/L	0.00401104	0.0278416	mg/L	0.00401104	14.41%
QC value within limits for Se 196.026 Recovery = 92.81%								
Sn 189.927†	587.2	0.204392	mg/L	0.0014728	0.204392	mg/L	0.0014728	0.72%
QC value within limits for Sn 189.927 Recovery = 102.20%								
Ti 334.940†	14569.6	0.0994313	mg/L	0.00284753	0.0994313	mg/L	0.00284753	2.86%
QC value within limits for Ti 334.940 Recovery = 99.43%								
Tl 190.801†	20.3	0.0161013	mg/L	0.00056123	0.0161013	mg/L	0.00056123	3.49%
QC value within limits for Tl 190.801 Recovery = 107.34%								
V 290.880†	6204.0	0.0919100	mg/L	0.00168469	0.0919100	mg/L	0.00168469	1.83%
QC value within limits for V 290.880 Recovery = 91.91%								
Zn 206.200†	3284.8	0.0928712	mg/L	0.00137069	0.0928712	mg/L	0.00137069	1.48%
QC value within limits for Zn 206.200 Recovery = 92.87%								

All analyte(s) passed QC.

Sequence No.: 33
Sample ID: CCB V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/22/2014 11:24:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-183928

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	435444.2	112	%	0.5				0.43%
Y 371.029	169803.8	105	%	0.3				0.26%
Ag 328.068†	-13.0	-0.0009702	mg/L	0.00020344	-0.0009702	mg/L	0.00020344	20.97%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-222.9	-0.0569801	mg/L	0.00313965	-0.0569801	mg/L	0.00313965	5.51%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.3	-0.0006766	mg/L	0.00026075	-0.0006766	mg/L	0.00026075	38.54%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	14.4	-0.0048550	mg/L	0.00009975	-0.0048550	mg/L	0.00009975	2.05%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	49.8	-0.0021608	mg/L	0.00001518	-0.0021608	mg/L	0.00001518	0.70%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	177.2	-0.445306	mg/L	0.0003028	-0.445306	mg/L	0.0003028	0.07%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-7.5	-0.0018868	mg/L	0.00024486	-0.0018868	mg/L	0.00024486	12.98%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-63.6	-0.0068278	mg/L	0.00005236	-0.0068278	mg/L	0.00005236	0.77%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-26.1	-0.0051439	mg/L	0.00046828	-0.0051439	mg/L	0.00046828	9.10%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	142.7	-0.0028575	mg/L	0.00038540	-0.0028575	mg/L	0.00038540	13.49%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	21.0	-0.0536591	mg/L	0.00222052	-0.0536591	mg/L	0.00222052	4.14%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	-3753.0	-18.1521	mg/L	2.12807	-18.1521	mg/L	2.12807	11.72%
QC value less than the lower limit for K 404.721 Recovery = Not calculated								
Mg 279.077†	21.9	-1.33179	mg/L	0.000113	-1.33179	mg/L	0.000113	0.01%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-4.0	-0.0041862	mg/L	0.00000808	-0.0041862	mg/L	0.00000808	0.19%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-1.1	-0.0031799	mg/L	0.00047495	-0.0031799	mg/L	0.00047495	14.94%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	23.8	0.391431	mg/L	0.0884732	0.391431	mg/L	0.0884732	22.60%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	-38.0	-0.0068412	mg/L	0.00061692	-0.0068412	mg/L	0.00061692	9.02%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-6.0	-0.0019900	mg/L	0.00184112	-0.0019900	mg/L	0.00184112	92.52%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-4.7	-0.0050452	mg/L	0.00313536	-0.0050452	mg/L	0.00313536	62.15%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	5.5	0.0055620	mg/L	0.00480374	0.0055620	mg/L	0.00480374	86.37%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	0.2	-0.0036179	mg/L	0.00082799	-0.0036179	mg/L	0.00082799	22.89%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	40.0	0.0007091	mg/L	0.00018964	0.0007091	mg/L	0.00018964	26.74%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	2.6	-0.0008664	mg/L	0.00104691	-0.0008664	mg/L	0.00104691	120.83%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-34.3	-0.0046398	mg/L	0.00010763	-0.0046398	mg/L	0.00010763	2.32%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	13.6	-0.0073903	mg/L	0.00017172	-0.0073903	mg/L	0.00017172	2.32%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 34
Sample ID: 78787-018
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 5/22/2014 11:27:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-018

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	427576.7	110	%	1.8				1.65%
Y 371.029	183778.0	113	%	0.6				0.57%
Ag 328.068†	-1156.2	0.0008642	mg/L	0.00033011	0.0008642	mg/L	0.00033011	38.20%
Al 308.215†	310102.3	29.0914	mg/L	0.85102	29.0914	mg/L	0.85102	2.93%
As 188.979†	457.9	0.571998	mg/L	0.0116297	0.571998	mg/L	0.0116297	2.03%
Ba 233.527†	23640.5	0.285615	mg/L	0.0119274	0.285615	mg/L	0.0119274	4.18%
Be 313.107†	4116.5	0.0003745	mg/L	0.00006068	0.0003745	mg/L	0.00006068	16.20%
Ca 317.933†	3085338.2	51.0786	mg/L	1.60216	51.0786	mg/L	1.60216	3.14%
Cd 228.802†	199.1	0.0075287	mg/L	0.00076998	0.0075287	mg/L	0.00076998	10.23%
Co 228.616†	2195.1	0.0861545	mg/L	0.00276351	0.0861545	mg/L	0.00276351	3.21%
Cr 267.716†	5224.0	0.186821	mg/L	0.0040164	0.186821	mg/L	0.0040164	2.15%
Cu 327.393†	8464.1	0.140009	mg/L	0.0031119	0.140009	mg/L	0.0031119	2.22%
Fe 273.955†	1537538.9	109.399	mg/L	3.3120	109.399	mg/L	3.3120	3.03%
K 404.721†	124082.9	1083.91	mg/L	34.081	1083.91	mg/L	34.081	3.14%
Mg 279.077†	468061.5	92.9862	mg/L	2.50042	92.9862	mg/L	2.50042	2.69%
Mn 257.610†	397119.5	1.53409	mg/L	0.033925	1.53409	mg/L	0.033925	2.21%
Mo 202.031†	64.9	-0.0008047	mg/L	0.00059338	-0.0008047	mg/L	0.00059338	73.74%
Na 330.237†	-178.6	-0.271166	mg/L	0.0842657	-0.271166	mg/L	0.0842657	31.08%
Ni 231.604†	35201.0	1.34418	mg/L	0.054778	1.34418	mg/L	0.054778	4.08%
Pb 220.353†	1061.6	0.234656	mg/L	0.0034020	0.234656	mg/L	0.0034020	1.45%
Sb 206.836†	23.2	-0.0037943	mg/L	0.00418222	-0.0037943	mg/L	0.00418222	110.22%
Se 196.026†	5.7	0.0040932	mg/L	0.00832842	0.0040932	mg/L	0.00832842	203.47%
Sn 189.927†	74.6	0.0286323	mg/L	0.00108144	0.0286323	mg/L	0.00108144	3.78%
Ti 334.940†	195817.9	1.33125	mg/L	0.027525	1.33125	mg/L	0.027525	2.07%
Tl 190.801†	-16.4	-0.0114614	mg/L	0.00147830	-0.0114614	mg/L	0.00147830	12.90%
V 290.880†	11339.2	0.157623	mg/L	0.0058436	0.157623	mg/L	0.0058436	3.71%
Zn 206.200†	15756.3	0.475561	mg/L	0.0193435	0.475561	mg/L	0.0193435	4.07%

Sequence No.: 35
Sample ID: 78787-019
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 5/22/2014 11:31:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-019

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	433592.3	112	%	0.3				0.24%
Y 371.029	190363.2	117	%	0.5				0.40%
Ag 328.068†	-1110.0	0.0011466	mg/L	0.00063597	0.0011466	mg/L	0.00063597	55.46%
Al 308.215†	652024.2	61.4111	mg/L	1.13590	61.4111	mg/L	1.13590	1.85%
As 188.979†	725.6	0.896454	mg/L	0.0088647	0.896454	mg/L	0.0088647	0.99%
Ba 233.527†	46406.5	0.569410	mg/L	0.0047479	0.569410	mg/L	0.0047479	0.83%
Be 313.107†	7058.3	0.0017491	mg/L	0.00001354	0.0017491	mg/L	0.00001354	0.77%
Ca 317.933†	4068359.2	67.4957	mg/L	1.13026	67.4957	mg/L	1.13026	1.67%
Cd 228.802†	307.4	0.0124662	mg/L	0.00037018	0.0124662	mg/L	0.00037018	2.97%
Co 228.616†	1469.9	0.0507282	mg/L	0.00044970	0.0507282	mg/L	0.00044970	0.89%
Cr 267.716†	4133.4	0.146724	mg/L	0.0005402	0.146724	mg/L	0.0005402	0.37%
Cu 327.393†	35396.3	0.602396	mg/L	0.0052145	0.602396	mg/L	0.0052145	0.87%
Fe 273.955†	1455192.2	103.550	mg/L	1.7592	103.550	mg/L	1.7592	1.70%
K 404.721†	116741.5	1020.62	mg/L	7.699	1020.62	mg/L	7.699	0.75%
Mg 279.077†	163783.0	31.6693	mg/L	0.26070	31.6693	mg/L	0.26070	0.82%
Mn 257.610†	430080.5	1.66415	mg/L	0.008957	1.66415	mg/L	0.008957	0.54%
Mo 202.031†	76.7	-0.0028115	mg/L	0.00016313	-0.0028115	mg/L	0.00016313	5.80%
Na 330.237†	-534.6	-1.43646	mg/L	0.020936	-1.43646	mg/L	0.020936	1.46%
Ni 231.604†	10679.3	0.404054	mg/L	0.0003183	0.404054	mg/L	0.0003183	0.08%
Pb 220.353†	1599.3	0.349090	mg/L	0.0013969	0.349090	mg/L	0.0013969	0.40%
Sb 206.836†	42.2	0.0035499	mg/L	0.00244061	0.0035499	mg/L	0.00244061	68.75%
Se 196.026†	1.5	-0.0047954	mg/L	0.00557839	-0.0047954	mg/L	0.00557839	116.33%
Sn 189.927†	142.4	0.0542062	mg/L	0.00034165	0.0542062	mg/L	0.00034165	0.63%
Ti 334.940†	505505.5	3.43622	mg/L	0.046109	3.43622	mg/L	0.046109	1.34%
Tl 190.801†	-22.5	-0.0025502	mg/L	0.00105931	-0.0025502	mg/L	0.00105931	41.54%
V 290.880†	12019.5	0.174658	mg/L	0.0025657	0.174658	mg/L	0.0025657	1.47%
Zn 206.200†	16207.4	0.489815	mg/L	0.0027087	0.489815	mg/L	0.0027087	0.55%

Sequence No.: 36
Sample ID: 78787-020
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 5/22/2014 11:34:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-020

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	436752.9	113	%	0.6				0.57%
Y 371.029	193726.2	120	%	0.7				0.58%
Ag 328.068†	-1222.0	0.0009507	mg/L	0.00093459	0.0009507	mg/L	0.00093459	98.31%
Al 308.215†	654388.6	61.5903	mg/L	1.85624	61.5903	mg/L	1.85624	3.01%
As 188.979†	68.0	0.0979711	mg/L	0.00613624	0.0979711	mg/L	0.00613624	6.26%
Ba 233.527†	42357.1	0.518569	mg/L	0.0069603	0.518569	mg/L	0.0069603	1.34%
Be 313.107†	7416.2	0.0020668	mg/L	0.00002005	0.0020668	mg/L	0.00002005	0.97%
Ca 317.933†	3436749.5	56.9474	mg/L	1.61875	56.9474	mg/L	1.61875	2.84%
Cd 228.802†	34.9	0.0000444	mg/L	0.00016527	0.0000444	mg/L	0.00016527	371.91%
Co 228.616†	2794.8	0.107242	mg/L	0.0012732	0.107242	mg/L	0.0012732	1.19%
Cr 267.716†	5695.5	0.202290	mg/L	0.0040756	0.202290	mg/L	0.0040756	2.01%
Cu 327.393†	17667.4	0.298017	mg/L	0.0042980	0.298017	mg/L	0.0042980	1.44%
Fe 273.955†	1614867.0	114.918	mg/L	3.3865	114.918	mg/L	3.3865	2.95%
K 404.721†	128357.8	1120.76	mg/L	31.482	1120.76	mg/L	31.482	2.81%
Mg 279.077†	189242.3	36.7999	mg/L	0.55473	36.7999	mg/L	0.55473	1.51%
Mn 257.610†	837739.1	3.24640	mg/L	0.089636	3.24640	mg/L	0.089636	2.76%
Mo 202.031†	95.9	-0.0000820	mg/L	0.00047899	-0.0000820	mg/L	0.00047899	583.94%
Na 330.237†	-550.6	-1.48895	mg/L	0.065548	-1.48895	mg/L	0.065548	4.40%
Ni 231.604†	11981.8	0.453996	mg/L	0.0066740	0.453996	mg/L	0.0066740	1.47%
Pb 220.353†	574.8	0.0941829	mg/L	0.00179343	0.0941829	mg/L	0.00179343	1.90%
Sb 206.836†	32.9	-0.0038952	mg/L	0.00286654	-0.0038952	mg/L	0.00286654	73.59%
Se 196.026†	0.5	-0.0081456	mg/L	0.00796592	-0.0081456	mg/L	0.00796592	97.79%
Sn 189.927†	76.8	0.0310777	mg/L	0.00269437	0.0310777	mg/L	0.00269437	8.67%
Ti 334.940†	488150.0	3.31831	mg/L	0.099117	3.31831	mg/L	0.099117	2.99%
Tl 190.801†	-20.6	-0.0044998	mg/L	0.00074145	-0.0044998	mg/L	0.00074145	16.48%
V 290.880†	13150.2	0.191189	mg/L	0.0034643	0.191189	mg/L	0.0034643	1.81%
Zn 206.200†	10688.9	0.320605	mg/L	0.0048726	0.320605	mg/L	0.0048726	1.52%

Sequence No.: 37
Sample ID: 78787-021
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 5/22/2014 11:38:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-021

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	426646.0	110	%	0.2				0.14%
Y 371.029	187446.9	116	%	0.3				0.28%
Ag 328.068†	-1546.8	0.0033767	mg/L	0.00090852	0.0033767	mg/L	0.00090852	26.91%
Al 308.215†	685406.3	64.3628	mg/L	0.95894	64.3628	mg/L	0.95894	1.49%
As 188.979†	258.6	0.333034	mg/L	0.0041868	0.333034	mg/L	0.0041868	1.26%
Ba 233.527†	95279.7	1.17709	mg/L	0.008701	1.17709	mg/L	0.008701	0.74%
Be 313.107†	6664.8	0.0011405	mg/L	0.00000805	0.0011405	mg/L	0.00000805	0.71%
Ca 317.933†	10962048.9	182.624	mg/L	2.8311	182.624	mg/L	2.8311	1.55%
Cd 228.802†	441.9	0.0185960	mg/L	0.00017390	0.0185960	mg/L	0.00017390	0.94%
Co 228.616†	1736.4	0.0603488	mg/L	0.00045779	0.0603488	mg/L	0.00045779	0.76%
Cr 267.716†	142406.7	5.00834	mg/L	0.055910	5.00834	mg/L	0.055910	1.12%
Cu 327.393†	25278.8	0.428693	mg/L	0.0030094	0.428693	mg/L	0.0030094	0.70%
Fe 273.955†	1905702.9	135.624	mg/L	1.9413	135.624	mg/L	1.9413	1.43%
K 404.721†	156801.9	1365.97	mg/L	30.860	1365.97	mg/L	30.860	2.26%
Mg 279.077†	235283.9	46.0781	mg/L	0.38059	46.0781	mg/L	0.38059	0.83%
Mn 257.610†	820359.9	3.17862	mg/L	0.046377	3.17862	mg/L	0.046377	1.46%
Mo 202.031†	112.5	-0.0066536	mg/L	0.00152966	-0.0066536	mg/L	0.00152966	22.99%
Na 330.237†	651.8	2.44751	mg/L	0.121079	2.44751	mg/L	0.121079	4.95%
Ni 231.604†	10224.5	0.386624	mg/L	0.0035638	0.386624	mg/L	0.0035638	0.92%
Pb 220.353†	13320.9	3.24853	mg/L	0.028321	3.24853	mg/L	0.028321	0.87%
Sb 206.836†	238.4	0.132660	mg/L	0.0064004	0.132660	mg/L	0.0064004	4.82%
Se 196.026†	13.9	0.0177496	mg/L	0.00096321	0.0177496	mg/L	0.00096321	5.43%
Sn 189.927†	795.6	0.289734	mg/L	0.0015680	0.289734	mg/L	0.0015680	0.54%
Ti 334.940†	619434.6	4.20971	mg/L	0.007782	4.20971	mg/L	0.007782	0.18%
Tl 190.801†	-24.4	-0.0033807	mg/L	0.00174452	-0.0033807	mg/L	0.00174452	51.60%
V 290.880†	14645.3	0.212509	mg/L	0.0028904	0.212509	mg/L	0.0028904	1.36%
Zn 206.200†	96912.0	2.96536	mg/L	0.025382	2.96536	mg/L	0.025382	0.86%

Sequence No.: 38
Sample ID: 78787-022
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 5/22/2014 11:41:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-022

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	425072.4	110	%	0.6				0.56%
Y 371.029	191507.2	118	%	0.3				0.24%
Ag 328.068†	-1285.5	0.0006157	mg/L	0.00026227	0.0006157	mg/L	0.00026227	42.59%
Al 308.215†	588098.3	55.3135	mg/L	1.68595	55.3135	mg/L	1.68595	3.05%
As 188.979†	29.5	0.0500268	mg/L	0.00420552	0.0500268	mg/L	0.00420552	8.41%
Ba 233.527†	31623.7	0.385145	mg/L	0.0092962	0.385145	mg/L	0.0092962	2.41%
Be 313.107†	5677.2	0.0003260	mg/L	0.00003503	0.0003260	mg/L	0.00003503	10.75%
Ca 317.933†	6476216.0	107.708	mg/L	2.8572	107.708	mg/L	2.8572	2.65%
Cd 228.802†	60.0	0.0011925	mg/L	0.00022258	0.0011925	mg/L	0.00022258	18.67%
Co 228.616†	1587.4	0.0536231	mg/L	0.00003114	0.0536231	mg/L	0.00003114	0.06%
Cr 267.716†	13845.5	0.489491	mg/L	0.0110995	0.489491	mg/L	0.0110995	2.27%
Cu 327.393†	11784.8	0.197021	mg/L	0.0045607	0.197021	mg/L	0.0045607	2.31%
Fe 273.955†	1503198.1	106.956	mg/L	2.9897	106.956	mg/L	2.9897	2.80%
K 404.721†	120593.1	1053.82	mg/L	33.847	1053.82	mg/L	33.847	3.21%
Mg 279.077†	421433.1	83.5899	mg/L	0.75493	83.5899	mg/L	0.75493	0.90%
Mn 257.610†	452171.0	1.74811	mg/L	0.014749	1.74811	mg/L	0.014749	0.84%
Mo 202.031†	68.4	-0.0070261	mg/L	0.00026922	-0.0070261	mg/L	0.00026922	3.83%
Na 330.237†	-715.8	-2.02968	mg/L	0.080293	-2.02968	mg/L	0.080293	3.96%
Ni 231.604†	9947.4	0.375996	mg/L	0.0084264	0.375996	mg/L	0.0084264	2.24%
Pb 220.353†	3058.7	0.713165	mg/L	0.0072081	0.713165	mg/L	0.0072081	1.01%
Sb 206.836†	51.3	0.0082394	mg/L	0.00298720	0.0082394	mg/L	0.00298720	36.26%
Se 196.026†	-0.6	-0.0085582	mg/L	0.00266446	-0.0085582	mg/L	0.00266446	31.13%
Sn 189.927†	97.9	0.0402068	mg/L	0.00149332	0.0402068	mg/L	0.00149332	3.71%
Ti 334.940†	644591.9	4.38149	mg/L	0.162250	4.38149	mg/L	0.162250	3.70%
Tl 190.801†	-27.6	-0.0009651	mg/L	0.00248237	-0.0009651	mg/L	0.00248237	257.21%
V 290.880†	12088.2	0.170361	mg/L	0.0028238	0.170361	mg/L	0.0028238	1.66%
Zn 206.200†	26552.9	0.806473	mg/L	0.0174993	0.806473	mg/L	0.0174993	2.17%

Sequence No.: 39
Sample ID: 78787-023
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 5/22/2014 11:45:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-023

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	427838.7	110	%	0.5				0.41%
Y 371.029	195491.5	121	%	0.7				0.59%
Ag 328.068†	-1160.8	-0.0008164	mg/L	0.00040004	-0.0008164	mg/L	0.00040004	49.00%
Al 308.215†	473901.4	44.4824	mg/L	0.56015	44.4824	mg/L	0.56015	1.26%
As 188.979†	135.1	0.174114	mg/L	0.0007203	0.174114	mg/L	0.0007203	0.41%
Ba 233.527†	32379.7	0.395647	mg/L	0.0005891	0.395647	mg/L	0.0005891	0.15%
Be 313.107†	5082.4	0.0005085	mg/L	0.00004111	0.0005085	mg/L	0.00004111	8.09%
Ca 317.933†	8735561.1	145.441	mg/L	1.2746	145.441	mg/L	1.2746	0.88%
Cd 228.802†	64.5	0.0013972	mg/L	0.00011729	0.0013972	mg/L	0.00011729	8.39%
Co 228.616†	1129.9	0.0376774	mg/L	0.00059102	0.0376774	mg/L	0.00059102	1.57%
Cr 267.716†	2908.9	0.102587	mg/L	0.0006114	0.102587	mg/L	0.0006114	0.60%
Cu 327.393†	9537.9	0.158445	mg/L	0.0010133	0.158445	mg/L	0.0010133	0.64%
Fe 273.955†	1068129.6	75.9887	mg/L	0.57303	75.9887	mg/L	0.57303	0.75%
K 404.721†	85056.9	747.468	mg/L	7.4677	747.468	mg/L	7.4677	1.00%
Mg 279.077†	199982.2	38.9641	mg/L	0.37734	38.9641	mg/L	0.37734	0.97%
Mn 257.610†	578441.0	2.23980	mg/L	0.026305	2.23980	mg/L	0.026305	1.17%
Mo 202.031†	85.9	-0.0057238	mg/L	0.00084141	-0.0057238	mg/L	0.00084141	14.70%
Na 330.237†	-218.4	-0.401348	mg/L	0.0349334	-0.401348	mg/L	0.0349334	8.70%
Ni 231.604†	6046.9	0.226457	mg/L	0.0007553	0.226457	mg/L	0.0007553	0.33%
Pb 220.353†	1541.0	0.344569	mg/L	0.0001582	0.344569	mg/L	0.0001582	0.05%
Sb 206.836†	24.4	-0.0037763	mg/L	0.00407391	-0.0037763	mg/L	0.00407391	107.88%
Se 196.026†	3.9	0.0001320	mg/L	0.01224846	0.0001320	mg/L	0.01224846	>999.9%
Sn 189.927†	31.6	0.0155716	mg/L	0.00073135	0.0155716	mg/L	0.00073135	4.70%
Ti 334.940†	413607.8	2.81167	mg/L	0.034288	2.81167	mg/L	0.034288	1.22%
Tl 190.801†	-16.1	-0.0020859	mg/L	0.00031425	-0.0020859	mg/L	0.00031425	15.07%
V 290.880†	9648.7	0.138379	mg/L	0.0003480	0.138379	mg/L	0.0003480	0.25%
Zn 206.200†	8367.9	0.247103	mg/L	0.0010365	0.247103	mg/L	0.0010365	0.42%

Sequence No.: 40
Sample ID: 78787-024
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 5/22/2014 11:48:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-024

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	428792.7	110	%	0.8				0.75%
Y 371.029	186971.3	115	%	1.0				0.90%
Ag 328.068†	-1314.4	0.0009361	mg/L	0.00062007	0.0009361	mg/L	0.00062007	66.24%
Al 308.215†	602195.4	56.6053	mg/L	0.59244	56.6053	mg/L	0.59244	1.05%
As 188.979†	28.7	0.0490620	mg/L	0.00193558	0.0490620	mg/L	0.00193558	3.95%
Ba 233.527†	40330.1	0.493606	mg/L	0.0004205	0.493606	mg/L	0.0004205	0.09%
Be 313.107†	6348.2	0.0001944	mg/L	0.00000168	0.0001944	mg/L	0.00000168	0.86%
Ca 317.933†	7908608.3	131.630	mg/L	0.9008	131.630	mg/L	0.9008	0.68%
Cd 228.802†	11.1	-0.0010384	mg/L	0.00007999	-0.0010384	mg/L	0.00007999	7.70%
Co 228.616†	1469.3	0.0451397	mg/L	0.00057601	0.0451397	mg/L	0.00057601	1.28%
Cr 267.716†	3865.6	0.137737	mg/L	0.0003260	0.137737	mg/L	0.0003260	0.24%
Cu 327.393†	10242.5	0.170541	mg/L	0.0001023	0.170541	mg/L	0.0001023	0.06%
Fe 273.955†	1500174.6	106.751	mg/L	1.1017	106.751	mg/L	1.1017	1.03%
K 404.721†	120873.5	1056.24	mg/L	6.484	1056.24	mg/L	6.484	0.61%
Mg 279.077†	212847.1	41.5570	mg/L	0.43580	41.5570	mg/L	0.43580	1.05%
Mn 257.610†	572610.7	2.21708	mg/L	0.021107	2.21708	mg/L	0.021107	0.95%
Mo 202.031†	138.5	-0.0028932	mg/L	0.00082736	-0.0028932	mg/L	0.00082736	28.60%
Na 330.237†	-1051.3	-3.12811	mg/L	0.255463	-3.12811	mg/L	0.255463	8.17%
Ni 231.604†	7641.0	0.287582	mg/L	0.0017047	0.287582	mg/L	0.0017047	0.59%
Pb 220.353†	520.3	0.0821351	mg/L	0.00219059	0.0821351	mg/L	0.00219059	2.67%
Sb 206.836†	36.6	-0.0045054	mg/L	0.00022071	-0.0045054	mg/L	0.00022071	4.90%
Se 196.026†	1.9	-0.0040010	mg/L	0.00142016	-0.0040010	mg/L	0.00142016	35.50%
Sn 189.927†	105.4	0.0444712	mg/L	0.00002887	0.0444712	mg/L	0.00002887	0.06%
Ti 334.940†	878049.9	5.96850	mg/L	0.079579	5.96850	mg/L	0.079579	1.33%
Tl 190.801†	-37.1	0.0006202	mg/L	0.00178993	0.0006202	mg/L	0.00178993	288.61%
V 290.880†	12186.4	0.176107	mg/L	0.0002928	0.176107	mg/L	0.0002928	0.17%
Zn 206.200†	10857.1	0.324096	mg/L	0.0008769	0.324096	mg/L	0.0008769	0.27%

Sequence No.: 41
Sample ID: ICSA V-185754
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/22/2014 11:52:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185754

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	360005.3	92.8	%	0.24				0.26%
Y 371.029	140226.3	86.5	%	0.27				0.32%
Ag 328.068†	-3115.6	0.0006930	mg/L	0.00011108	0.0006930	mg/L	0.00011108	16.03%
Al 308.215†	5458157.8	515.440	mg/L	3.9113	515.440	mg/L	3.9113	0.76%
QC value within limits for Al 308.215 Recovery = 103.09%								
As 188.979†	-3.2	0.0177824	mg/L	0.00166979	0.0177824	mg/L	0.00166979	9.39%
Ba 233.527†	687.3	-0.0032988	mg/L	0.00023718	-0.0032988	mg/L	0.00023718	7.19%
Be 313.107†	-632.6	-0.0026763	mg/L	0.00001998	-0.0026763	mg/L	0.00001998	0.75%
Ca 317.933†	29016210.6	484.139	mg/L	5.3354	484.139	mg/L	5.3354	1.10%
QC value within limits for Ca 317.933 Recovery = 96.83%								
Cd 228.802†	39.1	0.0002385	mg/L	0.00011970	0.0002385	mg/L	0.00011970	50.19%
Co 228.616†	116.4	0.0008570	mg/L	0.00040798	0.0008570	mg/L	0.00040798	47.61%
Cr 267.716†	-392.2	0.0052721	mg/L	0.00016188	0.0052721	mg/L	0.00016188	3.07%
Cu 327.393†	458.4	0.0025624	mg/L	0.00021834	0.0025624	mg/L	0.00021834	8.52%
Fe 273.955†	2736477.1	194.653	mg/L	1.4234	194.653	mg/L	1.4234	0.73%
QC value within limits for Fe 273.955 Recovery = 97.33%								
K 404.721†	246312.6	2137.64	mg/L	11.020	2137.64	mg/L	11.020	0.52%
Mg 279.077†	2867955.7	576.604	mg/L	4.2236	576.604	mg/L	4.2236	0.73%
QC value within limits for Mg 279.077 Recovery = 115.32%								
Mn 257.610†	6423.2	0.0008595	mg/L	0.00010815	0.0008595	mg/L	0.00010815	12.58%
Mo 202.031†	87.7	-0.0222528	mg/L	0.00046469	-0.0222528	mg/L	0.00046469	2.09%
Na 330.237†	-50.1	0.149531	mg/L	0.1301788	0.149531	mg/L	0.1301788	87.06%
Ni 231.604†	185.4	0.0017360	mg/L	0.00002296	0.0017360	mg/L	0.00002296	1.32%
Pb 220.353†	1277.2	-0.0173562	mg/L	0.00286001	-0.0173562	mg/L	0.00286001	16.48%
Sb 206.836†	91.7	-0.0185982	mg/L	0.00596596	-0.0185982	mg/L	0.00596596	32.08%
Se 196.026†	0.2	-0.0174379	mg/L	0.00431972	-0.0174379	mg/L	0.00431972	24.77%
Sn 189.927†	-59.1	-0.0057633	mg/L	0.00388221	-0.0057633	mg/L	0.00388221	67.36%
Ti 334.940†	101.7	0.0011307	mg/L	0.00035191	0.0011307	mg/L	0.00035191	31.12%
Tl 190.801†	-2.8	-0.0040312	mg/L	0.00168863	-0.0040312	mg/L	0.00168863	41.89%
V 290.880†	1873.7	-0.0426161	mg/L	0.00034861	-0.0426161	mg/L	0.00034861	0.82%
Zn 206.200†	-190.8	-0.0118572	mg/L	0.00014412	-0.0118572	mg/L	0.00014412	1.22%

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/22/2014 11:56:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	367435.0	94.7	%	0.56				0.59%
Y 371.029	139567.1	86.1	%	0.50				0.58%
Ag 328.068†	85917.2	1.09986	mg/L	0.004059	1.09986	mg/L	0.004059	0.37%
QC value within limits for Ag 328.068 Recovery = 109.99%								
Al 308.215†	5405939.6	510.497	mg/L	7.1403	510.497	mg/L	7.1403	1.40%
QC value within limits for Al 308.215 Recovery = 102.10%								
As 188.979†	854.8	1.06160	mg/L	0.014854	1.06160	mg/L	0.014854	1.40%
QC value within limits for As 188.979 Recovery = 106.16%								
Ba 233.527†	42991.8	0.523725	mg/L	0.0030749	0.523725	mg/L	0.0030749	0.59%
QC value within limits for Ba 233.527 Recovery = 104.74%								
Be 313.107†	691323.7	0.519799	mg/L	0.0071139	0.519799	mg/L	0.0071139	1.37%
QC value within limits for Be 313.107 Recovery = 103.96%								
Ca 317.933†	28549213.8	476.340	mg/L	11.7209	476.340	mg/L	11.7209	2.46%
QC value within limits for Ca 317.933 Recovery = 95.27%								
Cd 228.802†	23136.0	1.05304	mg/L	0.019774	1.05304	mg/L	0.019774	1.88%
QC value within limits for Cd 228.802 Recovery = 105.30%								
Co 228.616†	11573.3	0.487236	mg/L	0.0094362	0.487236	mg/L	0.0094362	1.94%
QC value within limits for Co 228.616 Recovery = 97.45%								
Cr 267.716†	13895.8	0.507225	mg/L	0.0088587	0.507225	mg/L	0.0088587	1.75%
QC value within limits for Cr 267.716 Recovery = 101.45%								
Cu 327.393†	31112.7	0.528853	mg/L	0.0033742	0.528853	mg/L	0.0033742	0.64%
QC value within limits for Cu 327.393 Recovery = 105.77%								
Fe 273.955†	2717596.5	193.310	mg/L	2.6700	193.310	mg/L	2.6700	1.38%
QC value within limits for Fe 273.955 Recovery = 96.66%								
K 404.721†	242133.4	2101.61	mg/L	1.173	2101.61	mg/L	1.173	0.06%
Mg 279.077†	2839205.8	570.810	mg/L	7.7127	570.810	mg/L	7.7127	1.35%
QC value within limits for Mg 279.077 Recovery = 114.16%								
Mn 257.610†	135817.2	0.503332	mg/L	0.0026345	0.503332	mg/L	0.0026345	0.52%
QC value within limits for Mn 257.610 Recovery = 100.67%								
Mo 202.031†	74.3	-0.0231799	mg/L	0.00024415	-0.0231799	mg/L	0.00024415	1.05%
Na 330.237†	439.0	1.75085	mg/L	0.132245	1.75085	mg/L	0.132245	7.55%
Ni 231.604†	24941.1	0.950832	mg/L	0.0152193	0.950832	mg/L	0.0152193	1.60%
QC value within limits for Ni 231.604 Recovery = 95.08%								
Pb 220.353†	5233.2	0.967191	mg/L	0.0105209	0.967191	mg/L	0.0105209	1.09%
QC value within limits for Pb 220.353 Recovery = 96.72%								
Sb 206.836†	1653.5	1.06099	mg/L	0.026483	1.06099	mg/L	0.026483	2.50%
QC value within limits for Sb 206.836 Recovery = 106.10%								
Se 196.026†	549.1	1.01840	mg/L	0.010644	1.01840	mg/L	0.010644	1.05%
QC value within limits for Se 196.026 Recovery = 101.84%								
Sn 189.927†	-53.2	-0.0038988	mg/L	0.00071295	-0.0038988	mg/L	0.00071295	18.29%
Ti 334.940†	80.0	0.0006319	mg/L	0.00008075	0.0006319	mg/L	0.00008075	12.78%
Tl 190.801†	1039.6	0.966099	mg/L	0.0208656	0.966099	mg/L	0.0208656	2.16%
QC value within limits for Tl 190.801 Recovery = 96.61%								
V 290.880†	33331.9	0.448345	mg/L	0.0016554	0.448345	mg/L	0.0016554	0.37%
QC value within limits for V 290.880 Recovery = 89.67%								
Zn 206.200†	31536.9	0.962329	mg/L	0.0172355	0.962329	mg/L	0.0172355	1.79%
QC value within limits for Zn 206.200 Recovery = 96.23%								

All analyte(s) passed QC.

Sequence No.: 43
Sample ID: CCV V-185529
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/23/2014 12:00:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185529

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	416352.9	107	%	2.7				2.50%
Y 371.029	157935.9	97.4	%	2.46				2.52%
Ag 328.068†	8057.7	0.100849	mg/L	0.0036315	0.100849	mg/L	0.0036315	3.60%
QC value within limits for Ag 328.068 Recovery = 100.85%								
Al 308.215†	52711.5	4.85813	mg/L	0.203805	4.85813	mg/L	0.203805	4.20%
QC value within limits for Al 308.215 Recovery = 97.16%								
As 188.979†	405.4	0.493899	mg/L	0.0185229	0.493899	mg/L	0.0185229	3.75%
QC value within limits for As 188.979 Recovery = 98.78%								
Ba 233.527†	40343.3	0.497337	mg/L	0.0195741	0.497337	mg/L	0.0195741	3.94%
QC value within limits for Ba 233.527 Recovery = 99.47%								
Be 313.107†	661856.5	0.497359	mg/L	0.0138074	0.497359	mg/L	0.0138074	2.78%
QC value within limits for Be 313.107 Recovery = 99.47%								
Ca 317.933†	3019842.9	49.9848	mg/L	1.37217	49.9848	mg/L	1.37217	2.75%
QC value within limits for Ca 317.933 Recovery = 99.97%								
Cd 228.802†	10902.2	0.495400	mg/L	0.0198271	0.495400	mg/L	0.0198271	4.00%
QC value within limits for Cd 228.802 Recovery = 99.08%								
Co 228.616†	11769.9	0.496853	mg/L	0.0218311	0.496853	mg/L	0.0218311	4.39%
QC value within limits for Co 228.616 Recovery = 99.37%								
Cr 267.716†	14289.6	0.502312	mg/L	0.0176807	0.502312	mg/L	0.0176807	3.52%
QC value within limits for Cr 267.716 Recovery = 100.46%								
Cu 327.393†	28512.7	0.484215	mg/L	0.0186145	0.484215	mg/L	0.0186145	3.84%
QC value within limits for Cu 327.393 Recovery = 96.84%								
Fe 273.955†	70047.5	4.91921	mg/L	0.199469	4.91921	mg/L	0.199469	4.05%
QC value within limits for Fe 273.955 Recovery = 98.38%								
K 404.721†	3135.1	41.2291	mg/L	9.02885	41.2291	mg/L	9.02885	21.90%
QC value less than the lower limit for K 404.721 Recovery = 82.46%								
Mg 279.077†	279696.9	55.0616	mg/L	1.39505	55.0616	mg/L	1.39505	2.53%
QC value greater than the upper limit for Mg 279.077 Recovery = 110.12%								
Mn 257.610†	127389.2	0.488380	mg/L	0.0174945	0.488380	mg/L	0.0174945	3.58%
QC value within limits for Mn 257.610 Recovery = 97.68%								
Mo 202.031†	4734.2	0.482151	mg/L	0.0168539	0.482151	mg/L	0.0168539	3.50%
QC value within limits for Mo 202.031 Recovery = 96.43%								
Na 330.237†	14331.2	47.2291	mg/L	2.10758	47.2291	mg/L	2.10758	4.46%
QC value within limits for Na 330.237 Recovery = 94.46%								
Ni 231.604†	13149.8	0.499489	mg/L	0.0204412	0.499489	mg/L	0.0204412	4.09%
QC value within limits for Ni 231.604 Recovery = 99.90%								
Pb 220.353†	2015.5	0.496339	mg/L	0.0184825	0.496339	mg/L	0.0184825	3.72%
QC value within limits for Pb 220.353 Recovery = 99.27%								
Sb 206.836†	725.9	0.498249	mg/L	0.0185952	0.498249	mg/L	0.0185952	3.73%
QC value within limits for Sb 206.836 Recovery = 99.65%								
Se 196.026†	265.9	0.496619	mg/L	0.0024208	0.496619	mg/L	0.0024208	0.49%
QC value within limits for Se 196.026 Recovery = 99.32%								
Sn 189.927†	1438.7	0.506901	mg/L	0.0164894	0.506901	mg/L	0.0164894	3.25%
QC value within limits for Sn 189.927 Recovery = 101.38%								
Ti 334.940†	69668.3	0.473796	mg/L	0.0161149	0.473796	mg/L	0.0161149	3.40%
QC value within limits for Ti 334.940 Recovery = 94.76%								
Tl 190.801†	531.3	0.493741	mg/L	0.0215217	0.493741	mg/L	0.0215217	4.36%
QC value within limits for Tl 190.801 Recovery = 98.75%								
V 290.880†	31841.0	0.486286	mg/L	0.0193467	0.486286	mg/L	0.0193467	3.98%
QC value within limits for V 290.880 Recovery = 97.26%								
Zn 206.200†	16477.0	0.497148	mg/L	0.0197037	0.497148	mg/L	0.0197037	3.96%
QC value within limits for Zn 206.200 Recovery = 99.43%								

QC Failed. Continue with analysis.

Sequence No.: 44
Sample ID: LLCCV V-187248
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/23/2014 12:04:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-187248

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	438152.3	113	%	1.3				1.11%
Y 371.029	168121.3	104	%	0.9				0.89%
Ag 328.068†	1216.0	0.0147799	mg/L	0.00056496	0.0147799	mg/L	0.00056496	3.82%
QC value within limits for Ag 328.068 Recovery = 98.53%								
Al 308.215†	20655.2	1.90012	mg/L	0.062745	1.90012	mg/L	0.062745	3.30%
QC value within limits for Al 308.215 Recovery = 95.01%								
As 188.979†	32.1	0.0383590	mg/L	0.00382173	0.0383590	mg/L	0.00382173	9.96%
QC value within limits for As 188.979 Recovery = 95.90%								
Ba 233.527†	8147.8	0.0963905	mg/L	0.00288696	0.0963905	mg/L	0.00288696	3.00%
QC value within limits for Ba 233.527 Recovery = 96.39%								
Be 313.107†	15811.1	0.0097008	mg/L	0.00035431	0.0097008	mg/L	0.00035431	3.65%
QC value within limits for Be 313.107 Recovery = 80.84%								
Ca 317.933†	621638.8	9.93346	mg/L	0.396734	9.93346	mg/L	0.396734	3.99%
QC value within limits for Ca 317.933 Recovery = 99.33%								
Cd 228.802†	257.8	0.0102084	mg/L	0.00004295	0.0102084	mg/L	0.00004295	0.42%
QC value within limits for Cd 228.802 Recovery = 85.07%								
Co 228.616†	556.0	0.0193852	mg/L	0.00064062	0.0193852	mg/L	0.00064062	3.30%
QC value within limits for Co 228.616 Recovery = 77.54%								
Cr 267.716†	1367.6	0.0442156	mg/L	0.00077954	0.0442156	mg/L	0.00077954	1.76%
QC value within limits for Cr 267.716 Recovery = 88.43%								
Cu 327.393†	2892.5	0.0443519	mg/L	0.00037138	0.0443519	mg/L	0.00037138	0.84%
QC value within limits for Cu 327.393 Recovery = 88.70%								
Fe 273.955†	28322.1	1.96009	mg/L	0.061337	1.96009	mg/L	0.061337	3.13%
QC value within limits for Fe 273.955 Recovery = 98.00%								
K 404.721†	-1532.8	0.987555	mg/L	2.8994475	0.987555	mg/L	2.8994475	293.60%
QC value less than the lower limit for K 404.721 Recovery = 19.75%								
Mg 279.077†	28716.5	4.45245	mg/L	0.172546	4.45245	mg/L	0.172546	3.88%
QC value within limits for Mg 279.077 Recovery = 89.05%								
Mn 257.610†	26006.4	0.0965801	mg/L	0.00322396	0.0965801	mg/L	0.00322396	3.34%
QC value within limits for Mn 257.610 Recovery = 96.58%								
Mo 202.031†	249.8	0.0220084	mg/L	0.00054573	0.0220084	mg/L	0.00054573	2.48%
QC value within limits for Mo 202.031 Recovery = 88.03%								
Na 330.237†	638.4	2.40343	mg/L	0.053765	2.40343	mg/L	0.053765	2.24%
QC value within limits for Na 330.237 Recovery = 96.14%								
Ni 231.604†	1273.5	0.0434771	mg/L	0.00125741	0.0434771	mg/L	0.00125741	2.89%
QC value within limits for Ni 231.604 Recovery = 86.95%								
Pb 220.353†	207.2	0.0493898	mg/L	0.00410672	0.0493898	mg/L	0.00410672	8.31%
QC value within limits for Pb 220.353 Recovery = 98.78%								
Sb 206.836†	46.7	0.0299487	mg/L	0.00169659	0.0299487	mg/L	0.00169659	5.66%
QC value within limits for Sb 206.836 Recovery = 74.87%								
Se 196.026†	14.6	0.0226390	mg/L	0.00077516	0.0226390	mg/L	0.00077516	3.42%
QC value within limits for Se 196.026 Recovery = 75.46%								
Sn 189.927†	573.2	0.199448	mg/L	0.0031142	0.199448	mg/L	0.0031142	1.56%
QC value within limits for Sn 189.927 Recovery = 99.72%								
Ti 334.940†	14395.3	0.0982475	mg/L	0.00096883	0.0982475	mg/L	0.00096883	0.99%
QC value within limits for Ti 334.940 Recovery = 98.25%								
Tl 190.801†	21.0	0.0167521	mg/L	0.00306914	0.0167521	mg/L	0.00306914	18.32%
QC value within limits for Tl 190.801 Recovery = 111.68%								
V 290.880†	6157.8	0.0911910	mg/L	0.00289946	0.0911910	mg/L	0.00289946	3.18%
QC value within limits for V 290.880 Recovery = 91.19%								
Zn 206.200†	3211.2	0.0906149	mg/L	0.00168305	0.0906149	mg/L	0.00168305	1.86%
QC value within limits for Zn 206.200 Recovery = 90.61%								

QC Failed. Continue with analysis.

Sequence No.: 45
Sample ID: CCB V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/23/2014 12:07:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-183928

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	440000.5	113	%	0.5				0.48%
Y 371.029	171194.6	106	%	0.4				0.43%
Ag 328.068†	15.2	-0.0006209	mg/L	0.00087919	-0.0006209	mg/L	0.00087919	141.60%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-301.6	-0.0644150	mg/L	0.00077875	-0.0644150	mg/L	0.00077875	1.21%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.8	-0.0001085	mg/L	0.00541959	-0.0001085	mg/L	0.00541959	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	16.8	-0.0048258	mg/L	0.00017627	-0.0048258	mg/L	0.00017627	3.65%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	123.4	-0.0021052	mg/L	0.00001338	-0.0021052	mg/L	0.00001338	0.64%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	139.3	-0.445939	mg/L	0.0004673	-0.445939	mg/L	0.0004673	0.10%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-10.2	-0.0020110	mg/L	0.00047070	-0.0020110	mg/L	0.00047070	23.41%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-62.3	-0.0067762	mg/L	0.00071893	-0.0067762	mg/L	0.00071893	10.61%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-26.9	-0.0051744	mg/L	0.00041325	-0.0051744	mg/L	0.00041325	7.99%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	160.6	-0.0025507	mg/L	0.00133009	-0.0025507	mg/L	0.00133009	52.15%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	40.5	-0.0522716	mg/L	0.00285824	-0.0522716	mg/L	0.00285824	5.47%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	-4091.5	-21.0703	mg/L	1.50744	-21.0703	mg/L	1.50744	7.15%
QC value less than the lower limit for K 404.721 Recovery = Not calculated								
Mg 279.077†	25.4	-1.33112	mg/L	0.002368	-1.33112	mg/L	0.002368	0.18%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-0.6	-0.0041729	mg/L	0.00002682	-0.0041729	mg/L	0.00002682	0.64%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-5.0	-0.0035866	mg/L	0.00045478	-0.0035866	mg/L	0.00045478	12.68%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	84.8	0.591395	mg/L	0.2337124	0.591395	mg/L	0.2337124	39.52%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	-36.8	-0.0067975	mg/L	0.00017475	-0.0067975	mg/L	0.00017475	2.57%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-15.6	-0.0043467	mg/L	0.00009170	-0.0043467	mg/L	0.00009170	2.11%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-3.8	-0.0043926	mg/L	0.00205022	-0.0043926	mg/L	0.00205022	46.67%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	0.6	-0.0036565	mg/L	0.00307888	-0.0036565	mg/L	0.00307888	84.20%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	2.8	-0.0027193	mg/L	0.00048241	-0.0027193	mg/L	0.00048241	17.74%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	38.5	0.0006988	mg/L	0.00006980	0.0006988	mg/L	0.00006980	9.99%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	2.0	-0.0014705	mg/L	0.00035559	-0.0014705	mg/L	0.00035559	24.18%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-67.9	-0.0051630	mg/L	0.00025151	-0.0051630	mg/L	0.00025151	4.87%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	10.1	-0.0074992	mg/L	0.00015698	-0.0074992	mg/L	0.00015698	2.09%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 46
Sample ID: 78787-025
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 5/23/2014 12:11:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-025

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	425067.0	110	%	0.8				0.77%
Y 371.029	184802.4	114	%	0.4				0.33%
Ag 328.068†	-1525.0	0.0006748	mg/L	0.00043560	0.0006748	mg/L	0.00043560	64.55%
Al 308.215†	642620.4	60.3377	mg/L	1.01715	60.3377	mg/L	1.01715	1.69%
As 188.979†	269.2	0.342515	mg/L	0.0026608	0.342515	mg/L	0.0026608	0.78%
Ba 233.527†	49965.3	0.613411	mg/L	0.0055634	0.613411	mg/L	0.0055634	0.91%
Be 313.107†	6851.9	0.0015819	mg/L	0.00003357	0.0015819	mg/L	0.00003357	2.12%
Ca 317.933†	10990948.8	183.107	mg/L	4.9019	183.107	mg/L	4.9019	2.68%
Cd 228.802†	131.8	0.0044640	mg/L	0.00085063	0.0044640	mg/L	0.00085063	19.06%
Co 228.616†	1447.2	0.0497087	mg/L	0.00068756	0.0497087	mg/L	0.00068756	1.38%
Cr 267.716†	3686.5	0.131848	mg/L	0.0010944	0.131848	mg/L	0.0010944	0.83%
Cu 327.393†	16331.2	0.275076	mg/L	0.0019688	0.275076	mg/L	0.0019688	0.72%
Fe 273.955†	1587699.9	112.981	mg/L	1.5532	112.981	mg/L	1.5532	1.37%
K 404.721†	129864.7	1133.75	mg/L	16.425	1133.75	mg/L	16.425	1.45%
Mg 279.077†	241014.7	47.2329	mg/L	0.33641	47.2329	mg/L	0.33641	0.71%
Mn 257.610†	801787.9	3.10649	mg/L	0.043162	3.10649	mg/L	0.043162	1.39%
Mo 202.031†	96.2	-0.0075597	mg/L	0.00032813	-0.0075597	mg/L	0.00032813	4.34%
Na 330.237†	-242.0	-0.478732	mg/L	0.0196117	-0.478732	mg/L	0.0196117	4.10%
Ni 231.604†	7764.4	0.292306	mg/L	0.0031085	0.292306	mg/L	0.0031085	1.06%
Pb 220.353†	3126.5	0.724056	mg/L	0.0065456	0.724056	mg/L	0.0065456	0.90%
Sb 206.836†	38.0	-0.0015427	mg/L	0.00360992	-0.0015427	mg/L	0.00360992	234.01%
Se 196.026†	1.1	-0.0060891	mg/L	0.00213636	-0.0060891	mg/L	0.00213636	35.08%
Sn 189.927†	55.6	0.0267298	mg/L	0.00013987	0.0267298	mg/L	0.00013987	0.52%
Ti 334.940†	509653.2	3.46445	mg/L	0.042789	3.46445	mg/L	0.042789	1.24%
Tl 190.801†	-21.0	-0.0032643	mg/L	0.00065723	-0.0032643	mg/L	0.00065723	20.13%
V 290.880†	13589.2	0.197086	mg/L	0.0027465	0.197086	mg/L	0.0027465	1.39%
Zn 206.200†	12929.8	0.386747	mg/L	0.0037994	0.386747	mg/L	0.0037994	0.98%

Sequence No.: 47
Sample ID: 78787-026
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 48
Date Collected: 5/23/2014 12:15:01 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-026

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	432553.2	111	%	0.1				0.07%
Y 371.029	187549.5	116	%	1.0				0.87%
Ag 328.068†	-1208.0	0.0006369	mg/L	0.00036148	0.0006369	mg/L	0.00036148	56.76%
Al 308.215†	583826.4	54.9622	mg/L	1.47601	54.9622	mg/L	1.47601	2.69%
As 188.979†	71.1	0.101146	mg/L	0.0026348	0.101146	mg/L	0.0026348	2.60%
Ba 233.527†	32705.0	0.398504	mg/L	0.0008089	0.398504	mg/L	0.0008089	0.20%
Be 313.107†	6143.1	0.0009031	mg/L	0.00002591	0.0009031	mg/L	0.00002591	2.87%
Ca 317.933†	3736684.7	61.9565	mg/L	1.61071	61.9565	mg/L	1.61071	2.60%
Cd 228.802†	44.7	0.0004920	mg/L	0.00018816	0.0004920	mg/L	0.00018816	38.24%
Co 228.616†	1349.6	0.0448052	mg/L	0.00065320	0.0448052	mg/L	0.00065320	1.46%
Cr 267.716†	4763.9	0.169379	mg/L	0.0006574	0.169379	mg/L	0.0006574	0.39%
Cu 327.393†	10530.1	0.175478	mg/L	0.0008268	0.175478	mg/L	0.0008268	0.47%
Fe 273.955†	1547203.6	110.100	mg/L	2.8582	110.100	mg/L	2.8582	2.60%
K 404.721†	124950.7	1091.39	mg/L	29.569	1091.39	mg/L	29.569	2.71%
Mg 279.077†	194177.5	37.7948	mg/L	0.06520	37.7948	mg/L	0.06520	0.17%
Mn 257.610†	425596.1	1.64653	mg/L	0.003611	1.64653	mg/L	0.003611	0.22%
Mo 202.031†	149.9	0.0046532	mg/L	0.00066818	0.0046532	mg/L	0.00066818	14.36%
Na 330.237†	-499.8	-1.32270	mg/L	0.004916	-1.32270	mg/L	0.004916	0.37%
Ni 231.604†	10929.1	0.413643	mg/L	0.0004196	0.413643	mg/L	0.0004196	0.10%
Pb 220.353†	1041.1	0.214012	mg/L	0.0015459	0.214012	mg/L	0.0015459	0.72%
Sb 206.836†	37.4	-0.0003380	mg/L	0.00070655	-0.0003380	mg/L	0.00070655	209.06%
Se 196.026†	1.7	-0.0042220	mg/L	0.00517943	-0.0042220	mg/L	0.00517943	122.68%
Sn 189.927†	85.7	0.0344838	mg/L	0.00286788	0.0344838	mg/L	0.00286788	8.32%
Ti 334.940†	562176.3	3.82147	mg/L	0.139656	3.82147	mg/L	0.139656	3.65%
Tl 190.801†	-26.8	-0.0037145	mg/L	0.00206635	-0.0037145	mg/L	0.00206635	55.63%
V 290.880†	13389.8	0.195069	mg/L	0.0012762	0.195069	mg/L	0.0012762	0.65%
Zn 206.200†	11549.9	0.346783	mg/L	0.0014039	0.346783	mg/L	0.0014039	0.40%

Sequence No.: 48
Sample ID: 78793-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 5/23/2014 12:18:33 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-002

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	390370.5	101	%	0.3				0.26%
Y 371.029	163085.4	101	%	0.1				0.06%
Ag 328.068†	-2891.7	0.0020492	mg/L	0.00119366	0.0020492	mg/L	0.00119366	58.25%
Al 308.215†	377821.9	34.7440	mg/L	0.28226	34.7440	mg/L	0.28226	0.81%
As 188.979†	48.7	0.0787113	mg/L	0.00366841	0.0787113	mg/L	0.00366841	4.66%
Ba 233.527†	19776.5	0.236386	mg/L	0.0001052	0.236386	mg/L	0.0001052	0.04%
Be 313.107†	3175.7	-0.0009244	mg/L	0.00006089	-0.0009244	mg/L	0.00006089	6.59%
Ca 317.933†	40639672.5	678.257	mg/L	13.3433	678.257	mg/L	13.3433	1.97%
Cd 228.802†	120.7	0.0039586	mg/L	0.00021340	0.0039586	mg/L	0.00021340	5.39%
Co 228.616†	1078.9	0.0356376	mg/L	0.00064942	0.0356376	mg/L	0.00064942	1.82%
Cr 267.716†	6496.0	0.231688	mg/L	0.0031805	0.231688	mg/L	0.0031805	1.37%
Cu 327.393†	38908.4	0.662694	mg/L	0.0007201	0.662694	mg/L	0.0007201	0.11%
Fe 273.955†	1976574.8	140.673	mg/L	1.1165	140.673	mg/L	1.1165	0.79%
K 404.721†	166239.8	1447.34	mg/L	11.312	1447.34	mg/L	11.312	0.78%
Mg 279.077†	183074.5	35.5582	mg/L	0.25247	35.5582	mg/L	0.25247	0.71%
Mn 257.610†	407573.2	1.57665	mg/L	0.010917	1.57665	mg/L	0.010917	0.69%
Mo 202.031†	263.1	-0.0184626	mg/L	0.00014744	-0.0184626	mg/L	0.00014744	0.80%
Na 330.237†	80824.8	264.907	mg/L	0.6996	264.907	mg/L	0.6996	0.26%
Ni 231.604†	4098.6	0.151791	mg/L	0.0001762	0.151791	mg/L	0.0001762	0.12%
Pb 220.353†	2546.9	0.579195	mg/L	0.0052014	0.579195	mg/L	0.0052014	0.90%
Sb 206.836†	89.0	0.0287976	mg/L	0.00318779	0.0287976	mg/L	0.00318779	11.07%
Se 196.026†	7.5	0.0110387	mg/L	0.00659051	0.0110387	mg/L	0.00659051	59.70%
Sn 189.927†	342.2	0.140968	mg/L	0.0033394	0.140968	mg/L	0.0033394	2.37%
Ti 334.940†	411087.8	2.79387	mg/L	0.038036	2.79387	mg/L	0.038036	1.36%
Tl 190.801†	-18.1	-0.0023271	mg/L	0.00174960	-0.0023271	mg/L	0.00174960	75.18%
V 290.880†	14421.3	0.209813	mg/L	0.0011734	0.209813	mg/L	0.0011734	0.56%
Zn 206.200†	69438.5	2.11082	mg/L	0.001749	2.11082	mg/L	0.001749	0.08%

Sequence No.: 49
Sample ID: 78790-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 5/23/2014 12:22:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78790-001

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	439081.9	113	%	1.5				1.31%
Y 371.029	228463.0	141	%	0.5				0.37%
Ag 328.068†	-1166.4	0.0103362	mg/L	0.00212065	0.0103362	mg/L	0.00212065	20.52%
Al 308.215†	1031988.7	97.2807	mg/L	2.70899	97.2807	mg/L	2.70899	2.78%
As 188.979†	10.1	0.0374218	mg/L	0.00865477	0.0374218	mg/L	0.00865477	23.13%
Ba 233.527†	27887.1	0.335890	mg/L	0.0100020	0.335890	mg/L	0.0100020	2.98%
Be 313.107†	9259.1	0.0016698	mg/L	0.00009089	0.0016698	mg/L	0.00009089	5.44%
Ca 317.933†	2524130.0	41.7061	mg/L	1.10370	41.7061	mg/L	1.10370	2.65%
Cd 228.802†	101.2	0.0030688	mg/L	0.00018467	0.0030688	mg/L	0.00018467	6.02%
Co 228.616†	2543.9	0.0867526	mg/L	0.00251153	0.0867526	mg/L	0.00251153	2.90%
Cr 267.716†	3045.8	0.112724	mg/L	0.0043713	0.112724	mg/L	0.0043713	3.88%
Cu 327.393†	26701.8	0.453125	mg/L	0.0139232	0.453125	mg/L	0.0139232	3.07%
Fe 273.955†	2589369.5	184.302	mg/L	3.7106	184.302	mg/L	3.7106	2.01%
K 404.721†	221929.6	1927.43	mg/L	68.893	1927.43	mg/L	68.893	3.57%
Mg 279.077†	260562.4	51.1717	mg/L	1.44109	51.1717	mg/L	1.44109	2.82%
Mn 257.610†	646669.6	2.50422	mg/L	0.066164	2.50422	mg/L	0.066164	2.64%
Mo 202.031†	54.0	-0.0083042	mg/L	0.00144364	-0.0083042	mg/L	0.00144364	17.38%
Na 330.237†	-43.3	0.171901	mg/L	0.2148073	0.171901	mg/L	0.2148073	124.96%
Ni 231.604†	4697.9	0.174736	mg/L	0.0049873	0.174736	mg/L	0.0049873	2.85%
Pb 220.353†	506.2	0.0505561	mg/L	0.00023593	0.0505561	mg/L	0.00023593	0.47%
Sb 206.836†	61.1	-0.0023043	mg/L	0.00264287	-0.0023043	mg/L	0.00264287	114.69%
Se 196.026†	3.6	-0.0029159	mg/L	0.00368872	-0.0029159	mg/L	0.00368872	126.50%
Sn 189.927†	24.1	0.0173477	mg/L	0.00104855	0.0173477	mg/L	0.00104855	6.04%
Ti 334.940†	1142307.2	7.76470	mg/L	0.210619	7.76470	mg/L	0.210619	2.71%
Tl 190.801†	-56.3	-0.0047097	mg/L	0.00293509	-0.0047097	mg/L	0.00293509	62.32%
V 290.880†	20642.7	0.302997	mg/L	0.0100233	0.302997	mg/L	0.0100233	3.31%
Zn 206.200†	8888.7	0.266476	mg/L	0.0097335	0.266476	mg/L	0.0097335	3.65%

Sequence No.: 50
Sample ID: 78790-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 5/23/2014 12:26:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78790-002

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	454151.5	117	%	0.6				0.48%
Y 371.029	217467.3	134	%	0.1				0.08%
Ag 328.068†	-1593.5	0.0031712	mg/L	0.00067988	0.0031712	mg/L	0.00067988	21.44%
Al 308.215†	1113773.1	105.075	mg/L	2.7329	105.075	mg/L	2.7329	2.60%
As 188.979†	26.1	0.0555758	mg/L	0.00220092	0.0555758	mg/L	0.00220092	3.96%
Ba 233.527†	31771.1	0.384553	mg/L	0.0039567	0.384553	mg/L	0.0039567	1.03%
Be 313.107†	9092.6	0.0028520	mg/L	0.00000600	0.0028520	mg/L	0.00000600	0.21%
Ca 317.933†	839506.8	13.5720	mg/L	0.35367	13.5720	mg/L	0.35367	2.61%
Cd 228.802†	36.0	0.0000965	mg/L	0.00044161	0.0000965	mg/L	0.00044161	457.80%
Co 228.616†	2010.4	0.0712694	mg/L	0.00074991	0.0712694	mg/L	0.00074991	1.05%
Cr 267.716†	4097.7	0.148799	mg/L	0.0008133	0.148799	mg/L	0.0008133	0.55%
Cu 327.393†	11627.0	0.194311	mg/L	0.0032446	0.194311	mg/L	0.0032446	1.67%
Fe 273.955†	2476361.6	176.260	mg/L	3.7800	176.260	mg/L	3.7800	2.14%
K 404.721†	207734.9	1805.06	mg/L	31.584	1805.06	mg/L	31.584	1.75%
Mg 279.077†	158697.9	30.6442	mg/L	0.16077	30.6442	mg/L	0.16077	0.52%
Mn 257.610†	472310.4	1.82811	mg/L	0.046962	1.82811	mg/L	0.046962	2.57%
Mo 202.031†	23.4	-0.0063257	mg/L	0.00002734	-0.0063257	mg/L	0.00002734	0.43%
Na 330.237†	-252.2	-0.511999	mg/L	0.0213969	-0.511999	mg/L	0.0213969	4.18%
Ni 231.604†	3047.8	0.111465	mg/L	0.0016544	0.111465	mg/L	0.0016544	1.48%
Pb 220.353†	613.8	0.0742207	mg/L	0.00083762	0.0742207	mg/L	0.00083762	1.13%
Sb 206.836†	55.5	-0.0010624	mg/L	0.00557890	-0.0010624	mg/L	0.00557890	525.13%
Se 196.026†	4.5	-0.0009377	mg/L	0.00076816	-0.0009377	mg/L	0.00076816	81.92%
Sn 189.927†	41.1	0.0202601	mg/L	0.00049124	0.0202601	mg/L	0.00049124	2.42%
Ti 334.940†	663948.1	4.51323	mg/L	0.161204	4.51323	mg/L	0.161204	3.57%
Tl 190.801†	-34.7	-0.0060911	mg/L	0.00166648	-0.0060911	mg/L	0.00166648	27.36%
V 290.880†	20748.4	0.307107	mg/L	0.0048989	0.307107	mg/L	0.0048989	1.60%
Zn 206.200†	10519.5	0.317315	mg/L	0.0031203	0.317315	mg/L	0.0031203	0.98%

Sequence No.: 51
Sample ID: ICSA V-185754
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/23/2014 12:30:03 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185754

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	360422.6	92.9	%	0.13				0.14%
Y 371.029	139776.5	86.2	%	0.45				0.52%
Ag 328.068†	-3049.7	0.0018944	mg/L	0.00058749	0.0018944	mg/L	0.00058749	31.01%
Al 308.215†	5496843.8	519.093	mg/L	6.2766	519.093	mg/L	6.2766	1.21%
QC value within limits for Al 308.215 Recovery = 103.82%								
As 188.979†	-5.7	0.0149962	mg/L	0.00775726	0.0149962	mg/L	0.00775726	51.73%
Ba 233.527†	689.1	-0.0033466	mg/L	0.00010735	-0.0033466	mg/L	0.00010735	3.21%
Be 313.107†	-636.1	-0.0026788	mg/L	0.00000373	-0.0026788	mg/L	0.00000373	0.14%
Ca 317.933†	29264883.8	488.292	mg/L	6.5225	488.292	mg/L	6.5225	1.34%
QC value within limits for Ca 317.933 Recovery = 97.66%								
Cd 228.802†	36.5	0.0001197	mg/L	0.00016516	0.0001197	mg/L	0.00016516	137.92%
Co 228.616†	135.0	0.0016438	mg/L	0.00076757	0.0016438	mg/L	0.00076757	46.69%
Cr 267.716†	-384.0	0.0057950	mg/L	0.00008833	0.0057950	mg/L	0.00008833	1.52%
Cu 327.393†	460.1	0.0025913	mg/L	0.00041047	0.0025913	mg/L	0.00041047	15.84%
Fe 273.955†	2764729.9	196.663	mg/L	2.5131	196.663	mg/L	2.5131	1.28%
QC value within limits for Fe 273.955 Recovery = 98.33%								
K 404.721†	247138.5	2144.76	mg/L	27.064	2144.76	mg/L	27.064	1.26%
Mg 279.077†	2897333.8	582.524	mg/L	5.8628	582.524	mg/L	5.8628	1.01%
QC value within limits for Mg 279.077 Recovery = 116.50%								
Mn 257.610†	6468.9	0.0008330	mg/L	0.00016218	0.0008330	mg/L	0.00016218	19.47%
Mo 202.031†	80.5	-0.0232326	mg/L	0.00210778	-0.0232326	mg/L	0.00210778	9.07%
Na 330.237†	-73.5	0.0731230	mg/L	0.11085437	0.0731230	mg/L	0.11085437	151.60%
Ni 231.604†	181.3	0.0015779	mg/L	0.00019665	0.0015779	mg/L	0.00019665	12.46%
Pb 220.353†	1297.5	-0.0147670	mg/L	0.00616683	-0.0147670	mg/L	0.00616683	41.76%
Sb 206.836†	103.8	-0.0109100	mg/L	0.00252368	-0.0109100	mg/L	0.00252368	23.13%
Se 196.026†	1.8	-0.0143254	mg/L	0.00993372	-0.0143254	mg/L	0.00993372	69.34%
Sn 189.927†	-63.9	-0.0072781	mg/L	0.00288237	-0.0072781	mg/L	0.00288237	39.60%
Ti 334.940†	84.5	0.0010136	mg/L	0.00001921	0.0010136	mg/L	0.00001921	1.90%
Tl 190.801†	0.6	-0.0008511	mg/L	0.00390367	-0.0008511	mg/L	0.00390367	458.66%
V 290.880†	1920.4	-0.0425824	mg/L	0.00158062	-0.0425824	mg/L	0.00158062	3.71%
Zn 206.200†	-199.2	-0.0121172	mg/L	0.00001314	-0.0121172	mg/L	0.00001314	0.11%

All analyte(s) passed QC.

Sequence No.: 52 **Autosampler Location: 8**
Sample ID: ICSAB V-185755 **Date Collected: 5/23/2014 12:34:07 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	368538.5	95.0	%	0.34				0.35%
Y 371.029	139576.9	86.1	%	0.43				0.50%
Ag 328.068†	85937.0	1.09995	mg/L	0.013955	1.09995	mg/L	0.013955	1.27%
QC value within limits for Ag 328.068 Recovery = 110.00%								
Al 308.215†	5346958.2	504.915	mg/L	0.2771	504.915	mg/L	0.2771	0.05%
QC value within limits for Al 308.215 Recovery = 100.98%								
As 188.979†	863.4	1.07179	mg/L	0.009500	1.07179	mg/L	0.009500	0.89%
QC value within limits for As 188.979 Recovery = 107.18%								
Ba 233.527†	43181.9	0.526172	mg/L	0.0053141	0.526172	mg/L	0.0053141	1.01%
QC value within limits for Ba 233.527 Recovery = 105.23%								
Be 313.107†	682096.6	0.512832	mg/L	0.0008256	0.512832	mg/L	0.0008256	0.16%
QC value within limits for Be 313.107 Recovery = 102.57%								
Ca 317.933†	28850452.7	481.371	mg/L	8.1840	481.371	mg/L	8.1840	1.70%
QC value within limits for Ca 317.933 Recovery = 96.27%								
Cd 228.802†	23086.3	1.05078	mg/L	0.001175	1.05078	mg/L	0.001175	0.11%
QC value within limits for Cd 228.802 Recovery = 105.08%								
Co 228.616†	11592.9	0.488067	mg/L	0.0004751	0.488067	mg/L	0.0004751	0.10%
QC value within limits for Co 228.616 Recovery = 97.61%								
Cr 267.716†	13878.7	0.506353	mg/L	0.0012421	0.506353	mg/L	0.0012421	0.25%
QC value within limits for Cr 267.716 Recovery = 101.27%								
Cu 327.393†	31229.4	0.530856	mg/L	0.0055692	0.530856	mg/L	0.0055692	1.05%
QC value within limits for Cu 327.393 Recovery = 106.17%								
Fe 273.955†	2686115.2	191.070	mg/L	0.3619	191.070	mg/L	0.3619	0.19%
QC value within limits for Fe 273.955 Recovery = 95.54%								
K 404.721†	240768.7	2089.84	mg/L	14.152	2089.84	mg/L	14.152	0.68%
Mg 279.077†	2805582.0	564.035	mg/L	0.7191	564.035	mg/L	0.7191	0.13%
QC value within limits for Mg 279.077 Recovery = 112.81%								
Mn 257.610†	136607.7	0.506634	mg/L	0.0052295	0.506634	mg/L	0.0052295	1.03%
QC value within limits for Mn 257.610 Recovery = 101.33%								
Mo 202.031†	76.2	-0.0232781	mg/L	0.00152479	-0.0232781	mg/L	0.00152479	6.55%
Na 330.237†	454.6	1.80183	mg/L	0.096556	1.80183	mg/L	0.096556	5.36%
Ni 231.604†	24964.9	0.951745	mg/L	0.0003937	0.951745	mg/L	0.0003937	0.04%
QC value within limits for Ni 231.604 Recovery = 95.17%								
Pb 220.353†	5234.8	0.970906	mg/L	0.0007432	0.970906	mg/L	0.0007432	0.08%
QC value within limits for Pb 220.353 Recovery = 97.09%								
Sb 206.836†	1645.0	1.05596	mg/L	0.004198	1.05596	mg/L	0.004198	0.40%
QC value within limits for Sb 206.836 Recovery = 105.60%								
Se 196.026†	550.8	1.02178	mg/L	0.022485	1.02178	mg/L	0.022485	2.20%
QC value within limits for Se 196.026 Recovery = 102.18%								
Sn 189.927†	-58.7	-0.0057909	mg/L	0.00086857	-0.0057909	mg/L	0.00086857	15.00%
Ti 334.940†	78.4	0.0006207	mg/L	0.00008103	0.0006207	mg/L	0.00008103	13.06%
Tl 190.801†	1029.5	0.956683	mg/L	0.0061385	0.956683	mg/L	0.0061385	0.64%
QC value within limits for Tl 190.801 Recovery = 95.67%								
V 290.880†	33386.0	0.449980	mg/L	0.0064471	0.449980	mg/L	0.0064471	1.43%
QC value within limits for V 290.880 Recovery = 90.00%								
Zn 206.200†	31599.0	0.964002	mg/L	0.0016796	0.964002	mg/L	0.0016796	0.17%
QC value within limits for Zn 206.200 Recovery = 96.40%								

All analyte(s) passed QC.

Sequence No.: 53
Sample ID: CCV V-185529
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/23/2014 12:38:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185529

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	414920.8	107	%	2.4				2.25%
Y 371.029	157307.7	97.0	%	2.12				2.18%
Ag 328.068†	8071.6	0.101019	mg/L	0.0034640	0.101019	mg/L	0.0034640	3.43%
QC value within limits for Ag 328.068 Recovery = 101.02%								
Al 308.215†	53003.5	4.88568	mg/L	0.151510	4.88568	mg/L	0.151510	3.10%
QC value within limits for Al 308.215 Recovery = 97.71%								
As 188.979†	419.0	0.510454	mg/L	0.0168310	0.510454	mg/L	0.0168310	3.30%
QC value within limits for As 188.979 Recovery = 102.09%								
Ba 233.527†	40562.0	0.500061	mg/L	0.0147046	0.500061	mg/L	0.0147046	2.94%
QC value within limits for Ba 233.527 Recovery = 100.01%								
Be 313.107†	658558.6	0.494870	mg/L	0.0169117	0.494870	mg/L	0.0169117	3.42%
QC value within limits for Be 313.107 Recovery = 98.97%								
Ca 317.933†	3008644.4	49.7978	mg/L	1.69502	49.7978	mg/L	1.69502	3.40%
QC value within limits for Ca 317.933 Recovery = 99.60%								
Cd 228.802†	10961.6	0.498111	mg/L	0.0165655	0.498111	mg/L	0.0165655	3.33%
QC value within limits for Cd 228.802 Recovery = 99.62%								
Co 228.616†	11863.6	0.500861	mg/L	0.0164741	0.500861	mg/L	0.0164741	3.29%
QC value within limits for Co 228.616 Recovery = 100.17%								
Cr 267.716†	14313.3	0.503172	mg/L	0.0151623	0.503172	mg/L	0.0151623	3.01%
QC value within limits for Cr 267.716 Recovery = 100.63%								
Cu 327.393†	28646.2	0.486506	mg/L	0.0156997	0.486506	mg/L	0.0156997	3.23%
QC value within limits for Cu 327.393 Recovery = 97.30%								
Fe 273.955†	70417.3	4.94559	mg/L	0.145161	4.94559	mg/L	0.145161	2.94%
QC value within limits for Fe 273.955 Recovery = 98.91%								
K 404.721†	3135.9	41.2359	mg/L	6.85181	41.2359	mg/L	6.85181	16.62%
QC value less than the lower limit for K 404.721 Recovery = 82.47%								
Mg 279.077†	278724.2	54.8660	mg/L	1.77199	54.8660	mg/L	1.77199	3.23%
QC value within limits for Mg 279.077 Recovery = 109.73%								
Mn 257.610†	128333.3	0.492051	mg/L	0.0147199	0.492051	mg/L	0.0147199	2.99%
QC value within limits for Mn 257.610 Recovery = 98.41%								
Mo 202.031†	4787.5	0.487667	mg/L	0.0137182	0.487667	mg/L	0.0137182	2.81%
QC value within limits for Mo 202.031 Recovery = 97.53%								
Na 330.237†	14419.5	47.5181	mg/L	1.33164	47.5181	mg/L	1.33164	2.80%
QC value within limits for Na 330.237 Recovery = 95.04%								
Ni 231.604†	13250.7	0.503366	mg/L	0.0156765	0.503366	mg/L	0.0156765	3.11%
QC value within limits for Ni 231.604 Recovery = 100.67%								
Pb 220.353†	2049.9	0.504880	mg/L	0.0178780	0.504880	mg/L	0.0178780	3.54%
QC value within limits for Pb 220.353 Recovery = 100.98%								
Sb 206.836†	727.9	0.499661	mg/L	0.0118884	0.499661	mg/L	0.0118884	2.38%
QC value within limits for Sb 206.836 Recovery = 99.93%								
Se 196.026†	267.8	0.500257	mg/L	0.0106781	0.500257	mg/L	0.0106781	2.13%
QC value within limits for Se 196.026 Recovery = 100.05%								
Sn 189.927†	1463.6	0.515693	mg/L	0.0179697	0.515693	mg/L	0.0179697	3.48%
QC value within limits for Sn 189.927 Recovery = 103.14%								
Ti 334.940†	69308.2	0.471347	mg/L	0.0102763	0.471347	mg/L	0.0102763	2.18%
QC value within limits for Ti 334.940 Recovery = 94.27%								
Tl 190.801†	543.9	0.505516	mg/L	0.0257133	0.505516	mg/L	0.0257133	5.09%
QC value within limits for Tl 190.801 Recovery = 101.10%								
V 290.880†	31944.8	0.487921	mg/L	0.0152850	0.487921	mg/L	0.0152850	3.13%
QC value within limits for V 290.880 Recovery = 97.58%								
Zn 206.200†	16644.2	0.502285	mg/L	0.0164934	0.502285	mg/L	0.0164934	3.28%
QC value within limits for Zn 206.200 Recovery = 100.46%								

QC Failed. Continue with analysis.

Sequence No.: 54
Sample ID: LLCCV V-187248
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/23/2014 12:42:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-187248

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	430995.8	111	%	0.1				0.10%
Y 371.029	165706.0	102	%	0.0				0.04%
Ag 328.068†	1167.3	0.0141868	mg/L	0.00060785	0.0141868	mg/L	0.00060785	4.28%
QC value within limits for Ag 328.068 Recovery = 94.58%								
Al 308.215†	20886.3	1.92172	mg/L	0.031660	1.92172	mg/L	0.031660	1.65%
QC value within limits for Al 308.215 Recovery = 96.09%								
As 188.979†	33.6	0.0401453	mg/L	0.00127855	0.0401453	mg/L	0.00127855	3.18%
QC value within limits for As 188.979 Recovery = 100.36%								
Ba 233.527†	8227.9	0.0973876	mg/L	0.00150315	0.0973876	mg/L	0.00150315	1.54%
QC value within limits for Ba 233.527 Recovery = 97.39%								
Be 313.107†	15950.9	0.0098067	mg/L	0.00018655	0.0098067	mg/L	0.00018655	1.90%
QC value within limits for Be 313.107 Recovery = 81.72%								
Ca 317.933†	632985.9	10.1230	mg/L	0.17567	10.1230	mg/L	0.17567	1.74%
QC value within limits for Ca 317.933 Recovery = 101.23%								
Cd 228.802†	248.2	0.0097674	mg/L	0.00032369	0.0097674	mg/L	0.00032369	3.31%
QC value within limits for Cd 228.802 Recovery = 81.39%								
Co 228.616†	585.3	0.0206271	mg/L	0.00001797	0.0206271	mg/L	0.00001797	0.09%
QC value within limits for Co 228.616 Recovery = 82.51%								
Cr 267.716†	1402.0	0.0454272	mg/L	0.00065830	0.0454272	mg/L	0.00065830	1.45%
QC value within limits for Cr 267.716 Recovery = 90.85%								
Cu 327.393†	3029.1	0.0466972	mg/L	0.00051059	0.0466972	mg/L	0.00051059	1.09%
QC value within limits for Cu 327.393 Recovery = 93.39%								
Fe 273.955†	28562.7	1.97720	mg/L	0.037627	1.97720	mg/L	0.037627	1.90%
QC value within limits for Fe 273.955 Recovery = 98.86%								
K 404.721†	-1000.6	5.57532	mg/L	0.717809	5.57532	mg/L	0.717809	12.87%
QC value within limits for K 404.721 Recovery = 111.51%								
Mg 279.077†	29127.9	4.53535	mg/L	0.073824	4.53535	mg/L	0.073824	1.63%
QC value within limits for Mg 279.077 Recovery = 90.71%								
Mn 257.610†	26305.0	0.0977363	mg/L	0.00182539	0.0977363	mg/L	0.00182539	1.87%
QC value within limits for Mn 257.610 Recovery = 97.74%								
Mo 202.031†	248.4	0.0218553	mg/L	0.00104248	0.0218553	mg/L	0.00104248	4.77%
QC value within limits for Mo 202.031 Recovery = 87.42%								
Na 330.237†	654.5	2.45616	mg/L	0.130481	2.45616	mg/L	0.130481	5.31%
QC value within limits for Na 330.237 Recovery = 98.25%								
Ni 231.604†	1311.8	0.0449455	mg/L	0.00073121	0.0449455	mg/L	0.00073121	1.63%
QC value within limits for Ni 231.604 Recovery = 89.89%								
Pb 220.353†	214.8	0.0512497	mg/L	0.00273958	0.0512497	mg/L	0.00273958	5.35%
QC value within limits for Pb 220.353 Recovery = 102.50%								
Sb 206.836†	48.1	0.0308980	mg/L	0.00433597	0.0308980	mg/L	0.00433597	14.03%
QC value within limits for Sb 206.836 Recovery = 77.24%								
Se 196.026†	15.3	0.0240867	mg/L	0.00334054	0.0240867	mg/L	0.00334054	13.87%
QC value within limits for Se 196.026 Recovery = 80.29%								
Sn 189.927†	597.0	0.207851	mg/L	0.0023535	0.207851	mg/L	0.0023535	1.13%
QC value within limits for Sn 189.927 Recovery = 103.93%								
Ti 334.940†	14273.0	0.0974158	mg/L	0.00130531	0.0974158	mg/L	0.00130531	1.34%
QC value within limits for Ti 334.940 Recovery = 97.42%								
Tl 190.801†	19.8	0.0155647	mg/L	0.00160174	0.0155647	mg/L	0.00160174	10.29%
QC value within limits for Tl 190.801 Recovery = 103.76%								
V 290.880†	6251.7	0.0926450	mg/L	0.00154997	0.0926450	mg/L	0.00154997	1.67%
QC value within limits for V 290.880 Recovery = 92.65%								
Zn 206.200†	3270.4	0.0924284	mg/L	0.00051481	0.0924284	mg/L	0.00051481	0.56%
QC value within limits for Zn 206.200 Recovery = 92.43%								

All analyte(s) passed QC.

Sequence No.: 55
Sample ID: CCB V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/23/2014 12:45:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-183928

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	443210.9	114	%	0.1				0.06%
Y 371.029	172384.8	106	%	0.0				0.02%
Ag 328.068†	-0.6	-0.0008163	mg/L	0.00061727	-0.0008163	mg/L	0.00061727	75.62%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-328.0	-0.0669096	mg/L	0.00640964	-0.0669096	mg/L	0.00640964	9.58%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-1.6	-0.0030201	mg/L	0.00145633	-0.0030201	mg/L	0.00145633	48.22%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	7.3	-0.0049443	mg/L	0.00015310	-0.0049443	mg/L	0.00015310	3.10%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	46.1	-0.0021636	mg/L	0.00000549	-0.0021636	mg/L	0.00000549	0.25%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	195.3	-0.445005	mg/L	0.0000285	-0.445005	mg/L	0.0000285	0.01%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-23.9	-0.0026320	mg/L	0.00037042	-0.0026320	mg/L	0.00037042	14.07%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-65.1	-0.0068934	mg/L	0.00033308	-0.0068934	mg/L	0.00033308	4.83%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-34.2	-0.0054327	mg/L	0.00033022	-0.0054327	mg/L	0.00033022	6.08%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	6.1	-0.0052025	mg/L	0.00110725	-0.0052025	mg/L	0.00110725	21.28%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	19.7	-0.0537572	mg/L	0.00049093	-0.0537572	mg/L	0.00049093	0.91%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	-4177.1	-21.8089	mg/L	0.40863	-21.8089	mg/L	0.40863	1.87%
QC value less than the lower limit for K 404.721 Recovery = Not calculated								
Mg 279.077†	40.3	-1.32809	mg/L	0.001055	-1.32809	mg/L	0.001055	0.08%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-26.7	-0.0042746	mg/L	0.00002475	-0.0042746	mg/L	0.00002475	0.58%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-4.2	-0.0035045	mg/L	0.00031185	-0.0035045	mg/L	0.00031185	8.90%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	82.8	0.584819	mg/L	0.0463803	0.584819	mg/L	0.0463803	7.93%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	-55.5	-0.0075117	mg/L	0.00024221	-0.0075117	mg/L	0.00024221	3.22%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-6.3	-0.0020484	mg/L	0.00261155	-0.0020484	mg/L	0.00261155	127.49%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-2.2	-0.0033080	mg/L	0.00091361	-0.0033080	mg/L	0.00091361	27.62%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	3.3	0.0014494	mg/L	0.00017449	0.0014494	mg/L	0.00017449	12.04%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	0.5	-0.0035205	mg/L	0.00018266	-0.0035205	mg/L	0.00018266	5.19%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	28.2	0.0006288	mg/L	0.00011644	0.0006288	mg/L	0.00011644	18.52%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	2.7	-0.0008184	mg/L	0.00351620	-0.0008184	mg/L	0.00351620	429.62%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-41.7	-0.0047546	mg/L	0.00031382	-0.0047546	mg/L	0.00031382	6.60%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	6.8	-0.0076003	mg/L	0.00004404	-0.0076003	mg/L	0.00004404	0.58%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

S16S1 ICP

16379/32817 4052101 1725
SOIL

Reviewed: 05/23/2014

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Method Loaded
Method Name: PE3 7300DV RAD-S LL
IEC File:
Method Description: 200.7/6010C

Method Last Saved: 5/21/2014 7:28:41 PM
MSF File:

8/23/14

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Sequence No.: 1
Sample ID: CALBLK V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/23/2014 12:48:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-183928

16379/32817

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3078.4	22.28	0.72%	100.000	%
Sc 361.383	8293.6	30.58	0.37%	100	%
Al 308.215†	199.4	3.71	1.86%	[0.00]	mg/L
Ca 315.887†	54.7	2.58	4.72%	[0.00]	mg/L
Fe 273.955†	-18.4	0.55	2.99%	[0.00]	mg/L
Mg 279.077†	-4.3	0.52	12.14%	[0.00]	mg/L
Mn 257.610†	17.2	6.89	39.97%	[0.00]	mg/L
K 766.490†	486.0	41.67	8.57%	[0.00]	mg/L
Na 589.592†	196.1	5.99	3.06%	[0.00]	mg/L
Ti 334.940†	-89.3	4.31	4.83%	[0.00]	mg/L

Earth elements reported

Sequence No.: 2
Sample ID: CALST2 V-186224
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 5/23/2014 12:52:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-186224

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3036.0	13.94	0.46%	98.6235	%
Sc 361.383	8221.9	68.56	0.83%	99.1	%
Al 308.215†	17.0	5.07	29.82%	[0.1]	mg/L
Ca 315.887†	1233.6	0.60	0.05%	[1]	mg/L
Fe 273.955†	37.6	6.56	17.44%	[0.1]	mg/L
Mg 279.077†	157.8	0.58	0.37%	[1]	mg/L
Mn 257.610†	69.1	5.08	7.36%	[0.01]	mg/L
K 766.490†	975.8	42.47	4.35%	[1]	mg/L
Na 589.592†	2255.0	14.91	0.66%	[1]	mg/L
Ti 334.940†	57.1	4.56	7.99%	[0.01]	mg/L

Sequence No.: 3
Sample ID: CALST3 V-185198
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 5/23/2014 12:55:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-185198

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2907.6	17.64	0.61%	94.4516	%
Sc 361.383	7956.6	48.20	0.61%	95.9	%
Al 308.215†	876.5	0.43	0.05%	[5]	mg/L
Ca 315.887†	62920.4	359.19	0.57%	[50]	mg/L
Fe 273.955†	1695.8	2.02	0.12%	[5]	mg/L
Mg 279.077†	7819.2	19.73	0.25%	[50]	mg/L
Mn 257.610†	3196.4	13.69	0.43%	[0.5]	mg/L
K 766.490†	50138.4	451.70	0.90%	[50]	mg/L
Na 589.592†	112230.2	690.15	0.61%	[50]	mg/L
Ti 334.940†	3267.4	1.66	0.05%	[0.5]	mg/L

Sequence No.: 4
Sample ID: CALST4 V-186713
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/23/2014 12:58:56 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-186713

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2832.1	26.72	0.94%	92.0011	%
Sc 361.383	7790.8	43.33	0.56%	93.9	%
Al 308.215†	1671.7	3.74	0.22%	[10]	mg/L
Ca 315.887†	123916.8	1521.46	1.23%	[100]	mg/L
Fe 273.955†	3278.7	3.20	0.10%	[10]	mg/L
Mg 279.077†	15130.7	33.82	0.22%	[100]	mg/L
Mn 257.610†	6173.7	0.03	0.00%	[1.0]	mg/L
K 766.490†	100298.8	1286.64	1.28%	[100]	mg/L
Na 589.592†	221807.8	2362.52	1.07%	[100]	mg/L
Ti 334.940†	6360.0	4.99	0.08%	[1.0]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Al 308.215	3	Lin, Calc Int	7.5	167.9	0.00000	0.999688	
Ca 315.887	3	Lin, Calc Int	172.6	1241	0.00000	0.999968	
Fe 273.955	3	Lin, Calc Int	12.5	328.6	0.00000	0.999848	
Mg 279.077	3	Lin, Calc Int	49.1	151.7	0.00000	0.999852	
Mn 257.610	3	Lin, Calc Int	23.3	6189	0.00000	0.999837	
K 766.490	3	Lin, Calc Int	-14.4	1003	0.00000	1.000000	
Na 589.592	3	Lin, Calc Int	258.2	2220	0.00000	0.999981	
Ti 334.940	3	Lin, Calc Int	13.0	6379	0.00000	0.999895	

Sequence No.: 5
Sample ID: ICS3 V-185198
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 5/23/2014 1:02:05 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-185198

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2907.4	94.4444	%	0.57630				0.61%
Sc 361.383	7965.3	96.0	%	0.35				0.36%
Al 308.215†	859.5	5.07462	mg/L	0.033797	5.07462	mg/L	0.033797	0.67%
QC value within limits for Al 308.215 Recovery = 101.49%								
Ca 315.887†	63461.4	51.0011	mg/L	0.41816	51.0011	mg/L	0.41816	0.82%
QC value within limits for Ca 315.887 Recovery = 102.00%								
Fe 273.955†	1702.3	5.14201	mg/L	0.003925	5.14201	mg/L	0.003925	0.08%
QC value within limits for Fe 273.955 Recovery = 102.84%								
Mg 279.077†	7850.1	51.4134	mg/L	0.00346	51.4134	mg/L	0.00346	0.01%
QC value within limits for Mg 279.077 Recovery = 102.83%								
Mn 257.610†	3201.7	0.513517	mg/L	0.0012673	0.513517	mg/L	0.0012673	0.25%
QC value within limits for Mn 257.610 Recovery = 102.70%								
K 766.490†	50679.5	50.5364	mg/L	0.02004	50.5364	mg/L	0.02004	0.04%
QC value within limits for K 766.490 Recovery = 101.07%								
Na 589.592†	113403.5	50.9602	mg/L	0.37910	50.9602	mg/L	0.37910	0.74%
QC value within limits for Na 589.592 Recovery = 101.92%								
Ti 334.940†	3264.3	0.509673	mg/L	0.0006537	0.509673	mg/L	0.0006537	0.13%
QC value within limits for Ti 334.940 Recovery = 101.93%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICV (1) V-186533
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/23/2014 1:05:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV (1) V-186533

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2895.8	94.0673	%	0.11825				0.13%
Sc 361.383	7916.5	95.5	%	0.28				0.30%
Al 308.215†	844.0	4.98224	mg/L	0.025096	4.98224	mg/L	0.025096	0.50%
QC value within limits for Al 308.215 Recovery = 99.64%								
Ca 315.887†	61626.0	49.5220	mg/L	0.45282	49.5220	mg/L	0.45282	0.91%
QC value within limits for Ca 315.887 Recovery = 99.04%								
Fe 273.955†	1630.9	4.92496	mg/L	0.016118	4.92496	mg/L	0.016118	0.33%
QC value within limits for Fe 273.955 Recovery = 98.50%								
Mg 279.077†	7713.7	50.5150	mg/L	0.01629	50.5150	mg/L	0.01629	0.03%
QC value within limits for Mg 279.077 Recovery = 101.03%								
Mn 257.610†	3069.7	0.492193	mg/L	0.0011198	0.492193	mg/L	0.0011198	0.23%
QC value within limits for Mn 257.610 Recovery = 98.44%								
K 766.490†	49990.2	49.8493	mg/L	0.32558	49.8493	mg/L	0.32558	0.65%
QC value within limits for K 766.490 Recovery = 99.70%								
Na 589.592†	111262.4	49.9959	mg/L	0.37700	49.9959	mg/L	0.37700	0.75%
QC value within limits for Na 589.592 Recovery = 99.99%								
Ti 334.940†	3168.2	0.494616	mg/L	0.0005940	0.494616	mg/L	0.0005940	0.12%
QC value within limits for Ti 334.940 Recovery = 98.92%								

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: LLICV V-187248
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/23/2014 1:08:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV V-187248

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2999.2	97.4276	%	0.03294				0.03%
Sc 361.383	8131.6	98.0	%	0.16				0.16%
Al 308.215†	341.6	1.98999	mg/L	0.029345	1.98999	mg/L	0.029345	1.47%
QC value within limits for Al 308.215 Recovery = 99.50%								
Ca 315.887†	12714.1	10.1065	mg/L	0.02088	10.1065	mg/L	0.02088	0.21%
QC value within limits for Ca 315.887 Recovery = 101.07%								
Fe 273.955†	661.3	1.97440	mg/L	0.012173	1.97440	mg/L	0.012173	0.62%
QC value within limits for Fe 273.955 Recovery = 98.72%								
Mg 279.077†	796.6	4.92604	mg/L	0.048993	4.92604	mg/L	0.048993	0.99%
QC value within limits for Mg 279.077 Recovery = 98.52%								
Mn 257.610†	627.6	0.0976313	mg/L	0.00062150	0.0976313	mg/L	0.00062150	0.64%
QC value within limits for Mn 257.610 Recovery = 97.63%								
K 766.490†	5067.2	5.06573	mg/L	0.006269	5.06573	mg/L	0.006269	0.12%
QC value within limits for K 766.490 Recovery = 101.31%								
Na 589.592†	5788.0	2.49062	mg/L	0.008599	2.49062	mg/L	0.008599	0.35%
QC value within limits for Na 589.592 Recovery = 99.62%								
Ti 334.940†	627.9	0.0963986	mg/L	0.00100403	0.0963986	mg/L	0.00100403	1.04%
QC value within limits for Ti 334.940 Recovery = 96.40%								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/23/2014 1:12:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-183928

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3073.5	99.8420	%	0.81274				0.81%
Sc 361.383	8263.5	99.6	%	1.02				1.02%
Al 308.215†	4.2	-0.0200159	mg/L	0.05411629	-0.0200159	mg/L	0.05411629	270.37%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	4.7	-0.135275	mg/L	0.0029484	-0.135275	mg/L	0.0029484	2.18%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	7.9	-0.0139137	mg/L	0.00356608	-0.0139137	mg/L	0.00356608	25.63%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-1.5	-0.334027	mg/L	0.0683914	-0.334027	mg/L	0.0683914	20.47%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	4.2	-0.0030804	mg/L	0.00037580	-0.0030804	mg/L	0.00037580	12.20%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	35.4	0.0496232	mg/L	0.00256340	0.0496232	mg/L	0.00256340	5.17%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	57.1	-0.0905618	mg/L	0.01366759	-0.0905618	mg/L	0.01366759	15.09%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-2.7	-0.0024578	mg/L	0.00196306	-0.0024578	mg/L	0.00196306	79.87%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSA V-185754
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/23/2014 1:15:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185754

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2735.5	88.8631	%	0.65013				0.73%
Sc 361.383	7501.5	90.4	%	0.28				0.31%
Al 308.215†	83340.4	496.357	mg/L	2.7619	496.357	mg/L	2.7619	0.56%
QC value within limits for Al 308.215 Recovery = 99.27%								
Ca 315.887†	602569.6	485.439	mg/L	2.8801	485.439	mg/L	2.8801	0.59%
QC value within limits for Ca 315.887 Recovery = 97.09%								
Fe 273.955†	62483.7	190.099	mg/L	1.0035	190.099	mg/L	1.0035	0.53%
QC value within limits for Fe 273.955 Recovery = 95.05%								
Mg 279.077†	75190.6	495.234	mg/L	2.4468	495.234	mg/L	2.4468	0.49%
QC value within limits for Mg 279.077 Recovery = 99.05%								
Mn 257.610†	155.7	0.0213950	mg/L	0.00103987	0.0213950	mg/L	0.00103987	4.86%
QC value within limits for Mn 257.610 Recovery = 2.14%								
K 766.490†	130.3	0.144220	mg/L	0.0142803	0.144220	mg/L	0.0142803	9.90%
QC value within limits for K 766.490 Recovery = 14.42%								
Na 589.592†	411.2	0.0689091	mg/L	0.00049865	0.0689091	mg/L	0.00049865	0.72%
QC value within limits for Na 589.592 Recovery = 6.89%								
Ti 334.940†	-230.6	-0.0381868	mg/L	0.00053369	-0.0381868	mg/L	0.00053369	1.40%
QC value within limits for Ti 334.940 Recovery = -3.82%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/23/2014 1:19:05 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2698.2	87.6500	%	0.29026				0.33%
Sc 361.383	7460.5	90.0	%	0.13				0.14%
Al 308.215†	85385.2	508.536	mg/L	1.0245	508.536	mg/L	1.0245	0.20%
QC value within limits for Al 308.215 Recovery = 101.71%								
Ca 315.887†	616930.6	497.012	mg/L	1.0821	497.012	mg/L	1.0821	0.22%
QC value within limits for Ca 315.887 Recovery = 99.40%								
Fe 273.955†	64098.5	195.013	mg/L	0.3039	195.013	mg/L	0.3039	0.16%
QC value within limits for Fe 273.955 Recovery = 97.51%								
Mg 279.077†	77018.1	507.278	mg/L	1.7802	507.278	mg/L	1.7802	0.35%
QC value within limits for Mg 279.077 Recovery = 101.46%								
Mn 257.610†	3182.8	0.510464	mg/L	0.0034506	0.510464	mg/L	0.0034506	0.68%
QC value within limits for Mn 257.610 Recovery = 102.09%								
K 766.490†	98.2	0.112230	mg/L	0.0458472	0.112230	mg/L	0.0458472	40.85%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	394.7	0.0614987	mg/L	0.01252971	0.0614987	mg/L	0.01252971	20.37%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-230.3	-0.0381272	mg/L	0.00236829	-0.0381272	mg/L	0.00236829	6.21%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: MB 32817 (100)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 5/23/2014 1:22:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 32817 (100)

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3099.6	100.689	%	0.7307				0.73%
Sc 361.383	8464.3	102	%	0.6				0.62%
Al 308.215†	-3.2	-0.0641038	mg/L	0.02169436	-0.0641038	mg/L	0.02169436	33.84%
Ca 315.887†	130.1	-0.0342484	mg/L	0.00152761	-0.0342484	mg/L	0.00152761	4.46%
Fe 273.955†	8.8	-0.0110354	mg/L	0.01005674	-0.0110354	mg/L	0.01005674	91.13%
Mg 279.077†	6.2	-0.282816	mg/L	0.0355713	-0.282816	mg/L	0.0355713	12.58%
Mn 257.610†	8.5	-0.0023833	mg/L	0.00016694	-0.0023833	mg/L	0.00016694	7.00%
K 766.490†	40.5	0.0546950	mg/L	0.00913076	0.0546950	mg/L	0.00913076	16.69%
Na 589.592†	478.9	0.0994251	mg/L	0.00348616	0.0994251	mg/L	0.00348616	3.51%
Ti 334.940†	-0.1	-0.0020525	mg/L	0.00069059	-0.0020525	mg/L	0.00069059	33.65%

Sequence No.: 12
Sample ID: LCS 32817
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 5/23/2014 1:26:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS 32817

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3656.7	118.786	%	0.2466				0.21%
Sc 361.383	8363.7	101	%	0.5				0.50%
Al 308.215†	11203.7	66.6878	mg/L	0.08839	66.6878	mg/L	0.08839	0.13%
Ca 315.887†	88119.6	70.8718	mg/L	1.19495	70.8718	mg/L	1.19495	1.69%
Fe 273.955†	37471.4	113.987	mg/L	1.9590	113.987	mg/L	1.9590	1.72%
Mg 279.077†	3923.4	25.5343	mg/L	0.01694	25.5343	mg/L	0.01694	0.07%
Mn 257.610†	24073.5	3.88566	mg/L	0.008408	3.88566	mg/L	0.008408	0.22%
K 766.490†	22121.7	22.0673	mg/L	0.22448	22.0673	mg/L	0.22448	1.02%
Na 589.592†	22493.6	10.0148	mg/L	0.18938	10.0148	mg/L	0.18938	1.89%
Ti 334.940†	10472.2	1.63957	mg/L	0.000076	1.63957	mg/L	0.000076	0.00%

Sequence No.: 13
Sample ID: LCS MR 32817
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 5/23/2014 1:29:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS MR 32817

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3658.8	118.854	%	0.0364				0.03%
Sc 361.383	8350.6	101	%	0.1				0.11%
Al 308.215†	11062.8	65.8489	mg/L	0.16037	65.8489	mg/L	0.16037	0.24%
Ca 315.887†	90388.9	72.7005	mg/L	0.49388	72.7005	mg/L	0.49388	0.68%
Fe 273.955†	36595.1	111.320	mg/L	0.8454	111.320	mg/L	0.8454	0.76%
Mg 279.077†	3858.4	25.1059	mg/L	0.02942	25.1059	mg/L	0.02942	0.12%
Mn 257.610†	24086.4	3.88775	mg/L	0.007359	3.88775	mg/L	0.007359	0.19%
K 766.490†	21479.2	21.4268	mg/L	0.15857	21.4268	mg/L	0.15857	0.74%
Na 589.592†	22288.2	9.92224	mg/L	0.055198	9.92224	mg/L	0.055198	0.56%
Ti 334.940†	10378.2	1.62484	mg/L	0.004282	1.62484	mg/L	0.004282	0.26%

Sequence No.: 14
Sample ID: 78787-015
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 5/23/2014 1:32:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-015

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3441.4	111.793	%	0.4276				0.38%
Sc 361.383	8250.3	99.5	%	0.88				0.89%
Al 308.215†	9148.5	54.4466	mg/L	0.06199	54.4466	mg/L	0.06199	0.11%
Ca 315.887†	272086.6	219.121	mg/L	0.3015	219.121	mg/L	0.3015	0.14%
Fe 273.955†	28952.8	88.0651	mg/L	0.05833	88.0651	mg/L	0.05833	0.07%
Mg 279.077†	5931.5	38.7690	mg/L	0.04395	38.7690	mg/L	0.04395	0.11%
Mn 257.610†	14543.9	2.34602	mg/L	0.007598	2.34602	mg/L	0.007598	0.32%
K 766.490†	7368.0	7.35944	mg/L	0.005524	7.35944	mg/L	0.005524	0.08%
Na 589.592†	7823.7	3.40749	mg/L	0.007445	3.40749	mg/L	0.007445	0.22%
Ti 334.940†	13500.4	2.11427	mg/L	0.000782	2.11427	mg/L	0.000782	0.04%

Sequence No.: 15
Sample ID: 78787-015 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 5/23/2014 1:35:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-015 MR

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3362.0	109.214	%	0.0322				0.03%
Sc 361.383	8137.2	98.1	%	1.10				1.13%
Al 308.215†	9604.2	57.1609	mg/L	0.20695	57.1609	mg/L	0.20695	0.36%
Ca 315.887†	417697.1	336.461	mg/L	3.9995	336.461	mg/L	3.9995	1.19%
Fe 273.955†	31588.2	96.0845	mg/L	0.11541	96.0845	mg/L	0.11541	0.12%
Mg 279.077†	5937.3	38.8072	mg/L	0.16833	38.8072	mg/L	0.16833	0.43%
Mn 257.610†	13158.1	2.12213	mg/L	0.000640	2.12213	mg/L	0.000640	0.03%
K 766.490†	6476.7	6.47090	mg/L	0.062902	6.47090	mg/L	0.062902	0.97%
Na 589.592†	6526.0	2.82303	mg/L	0.006806	2.82303	mg/L	0.006806	0.24%
Ti 334.940†	14669.3	2.29750	mg/L	0.001751	2.29750	mg/L	0.001751	0.08%

Sequence No.: 16
Sample ID: 78787-015 MS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 5/23/2014 1:37:44 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-015 MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3435.8	111.612	%	1.0048				0.90%
Sc 361.383	8160.4	98.4	%	0.88				0.89%
Al 308.215†	11663.6	69.4273	mg/L	0.22042	69.4273	mg/L	0.22042	0.32%
Ca 315.887†	358725.8	288.939	mg/L	2.4424	288.939	mg/L	2.4424	0.85%
Fe 273.955†	36870.8	112.159	mg/L	0.2373	112.159	mg/L	0.2373	0.21%
Mg 279.077†	14301.9	93.9353	mg/L	0.10355	93.9353	mg/L	0.10355	0.11%
Mn 257.610†	24608.9	3.97216	mg/L	0.001799	3.97216	mg/L	0.001799	0.05%
K 766.490†	55437.1	55.2792	mg/L	0.53375	55.2792	mg/L	0.53375	0.97%
Na 589.592†	111350.0	50.0354	mg/L	0.41386	50.0354	mg/L	0.41386	0.83%
Ti 334.940†	17313.2	2.71195	mg/L	0.000021	2.71195	mg/L	0.000021	0.00%

Sequence No.: 17
Sample ID: 78787-015 MS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 5/23/2014 1:40:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-015 MS2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3321.3	107.892	%	0.2143				0.20%
Sc 361.383	8026.7	96.8	%	0.54				0.56%
Al 308.215†	11258.4	67.0137	mg/L	0.02865	67.0137	mg/L	0.02865	0.04%
Ca 315.887†	324360.8	261.246	mg/L	2.9488	261.246	mg/L	2.9488	1.13%
Fe 273.955†	37925.4	115.368	mg/L	0.1721	115.368	mg/L	0.1721	0.15%
Mg 279.077†	13810.6	90.6974	mg/L	0.12304	90.6974	mg/L	0.12304	0.14%
Mn 257.610†	19442.5	3.13745	mg/L	0.010315	3.13745	mg/L	0.010315	0.33%
K 766.490†	55138.1	54.9812	mg/L	0.72402	54.9812	mg/L	0.72402	1.32%
Na 589.592†	109570.5	49.2339	mg/L	0.44577	49.2339	mg/L	0.44577	0.91%
Ti 334.940†	18444.5	2.88929	mg/L	0.008578	2.88929	mg/L	0.008578	0.30%

Sequence No.: 18
Sample ID: 78787-015 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 5/23/2014 1:43:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-015 PS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3365.7	109.333	%	1.3157				1.20%
Sc 361.383	8040.0	96.9	%	0.75				0.78%
Al 308.215†	9776.7	58.1884	mg/L	0.08635	58.1884	mg/L	0.08635	0.15%
Ca 315.887†	325140.7	261.874	mg/L	0.8852	261.874	mg/L	0.8852	0.34%
Fe 273.955†	30010.0	91.2821	mg/L	0.14107	91.2821	mg/L	0.14107	0.15%
Mg 279.077†	12811.0	84.1092	mg/L	0.29002	84.1092	mg/L	0.29002	0.34%
Mn 257.610†	17154.9	2.76786	mg/L	0.008474	2.76786	mg/L	0.008474	0.31%
K 766.490†	54741.9	54.5862	mg/L	0.05521	54.5862	mg/L	0.05521	0.10%
Na 589.592†	112460.4	50.5355	mg/L	0.17251	50.5355	mg/L	0.17251	0.34%
Ti 334.940†	16288.3	2.55129	mg/L	0.003791	2.55129	mg/L	0.003791	0.15%

Sequence No.: 19
Sample ID: CCV V-186533
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/23/2014 1:45:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-186533

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2911.3	94.5734	%	0.03386				0.04%
Sc 361.383	8017.5	96.7	%	0.13				0.13%
Al 308.215†	839.9	4.95775	mg/L	0.031791	4.95775	mg/L	0.031791	0.64%
QC value within limits for Al 308.215 Recovery = 99.15%								
Ca 315.887†	61373.6	49.3187	mg/L	0.34473	49.3187	mg/L	0.34473	0.70%
QC value within limits for Ca 315.887 Recovery = 98.64%								
Fe 273.955†	1630.1	4.92235	mg/L	0.001374	4.92235	mg/L	0.001374	0.03%
QC value within limits for Fe 273.955 Recovery = 98.45%								
Mg 279.077†	7724.5	50.5862	mg/L	0.06153	50.5862	mg/L	0.06153	0.12%
QC value within limits for Mg 279.077 Recovery = 101.17%								
Mn 257.610†	3064.4	0.491336	mg/L	0.0012695	0.491336	mg/L	0.0012695	0.26%
QC value within limits for Mn 257.610 Recovery = 98.27%								
K 766.490†	49669.0	49.5291	mg/L	0.64300	49.5291	mg/L	0.64300	1.30%
QC value within limits for K 766.490 Recovery = 99.06%								
Na 589.592†	110678.7	49.7330	mg/L	0.31973	49.7330	mg/L	0.31973	0.64%
QC value within limits for Na 589.592 Recovery = 99.47%								
Ti 334.940†	3147.9	0.491430	mg/L	0.0005995	0.491430	mg/L	0.0005995	0.12%
QC value within limits for Ti 334.940 Recovery = 98.29%								

All analyte(s) passed QC.

Sequence No.: 20
Sample ID: LLCCV V-187248
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/23/2014 1:48:45 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-187248

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3024.0	98.2339	%	0.00765				0.01%
Sc 361.383	8204.8	98.9	%	0.13				0.13%
Al 308.215†	340.4	1.98279	mg/L	0.014028	1.98279	mg/L	0.014028	0.71%
QC value within limits for Al 308.215 Recovery = 99.14%								
Ca 315.887†	12631.4	10.0399	mg/L	0.00210	10.0399	mg/L	0.00210	0.02%
QC value within limits for Ca 315.887 Recovery = 100.40%								
Fe 273.955†	660.7	1.97243	mg/L	0.001597	1.97243	mg/L	0.001597	0.08%
QC value within limits for Fe 273.955 Recovery = 98.62%								
Mg 279.077†	796.9	4.92801	mg/L	0.052760	4.92801	mg/L	0.052760	1.07%
QC value within limits for Mg 279.077 Recovery = 98.56%								
Mn 257.610†	622.9	0.0968840	mg/L	0.00043965	0.0968840	mg/L	0.00043965	0.45%
QC value within limits for Mn 257.610 Recovery = 96.88%								
K 766.490†	5047.0	5.04564	mg/L	0.019780	5.04564	mg/L	0.019780	0.39%
QC value within limits for K 766.490 Recovery = 100.91%								
Na 589.592†	5727.7	2.46345	mg/L	0.003848	2.46345	mg/L	0.003848	0.16%
QC value within limits for Na 589.592 Recovery = 98.54%								
Ti 334.940†	627.1	0.0962729	mg/L	0.00007943	0.0962729	mg/L	0.00007943	0.08%
QC value within limits for Ti 334.940 Recovery = 96.27%								

All analyte(s) passed QC.

Sequence No.: 21
Sample ID: CCB V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/23/2014 1:52:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-183928

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3052.0	99.1434	%	0.07258				0.07%
Sc 361.383	8245.1	99.4	%	0.22				0.22%
Al 308.215†	3.2	-0.0257461	mg/L	0.01449023	-0.0257461	mg/L	0.01449023	56.28%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	6.3	-0.133964	mg/L	0.0032456	-0.133964	mg/L	0.0032456	2.42%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-0.5	-0.0393885	mg/L	0.00318890	-0.0393885	mg/L	0.00318890	8.10%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	0.4	-0.321322	mg/L	0.0189565	-0.321322	mg/L	0.0189565	5.90%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	1.3	-0.0035468	mg/L	0.00013228	-0.0035468	mg/L	0.00013228	3.73%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	74.3	0.0884307	mg/L	0.01058460	0.0884307	mg/L	0.01058460	11.97%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	47.5	-0.0948876	mg/L	0.00531148	-0.0948876	mg/L	0.00531148	5.60%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-4.7	-0.0027616	mg/L	0.00023300	-0.0027616	mg/L	0.00023300	8.44%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 22
Sample ID: 78787-015 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 5/23/2014 1:56:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-015 SD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3103.2	100.806	%	0.3023				0.30%
Sc 361.383	8203.8	98.9	%	0.39				0.40%
Al 308.215†	1868.7	11.0861	mg/L	0.01027	11.0861	mg/L	0.01027	0.09%
Ca 315.887†	55607.8	44.6723	mg/L	0.02486	44.6723	mg/L	0.02486	0.06%
Fe 273.955†	5919.9	17.9762	mg/L	0.02027	17.9762	mg/L	0.02027	0.11%
Mg 279.077†	1230.0	7.78277	mg/L	0.007852	7.78277	mg/L	0.007852	0.10%
Mn 257.610†	2989.2	0.479184	mg/L	0.0014561	0.479184	mg/L	0.0014561	0.30%
K 766.490†	1490.8	1.50049	mg/L	0.007716	1.50049	mg/L	0.007716	0.51%
Na 589.592†	1633.1	0.619284	mg/L	0.0007393	0.619284	mg/L	0.0007393	0.12%
Ti 334.940†	2709.1	0.422646	mg/L	0.0010213	0.422646	mg/L	0.0010213	0.24%

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Sequence No.: 23
Sample ID: 78787-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 5/23/2014 1:59:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-001

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3300.1	107.201	%	0.2707				0.25%
Sc 361.383	8281.9	99.9	%	0.05				0.05%
Al 308.215†	4856.0	28.8791	mg/L	0.04063	28.8791	mg/L	0.04063	0.14%
Ca 315.887†	55551.6	44.6270	mg/L	0.14720	44.6270	mg/L	0.14720	0.33%
Fe 273.955†	88073.6	267.968	mg/L	0.7943	267.968	mg/L	0.7943	0.30%
Mg 279.077†	1419.3	9.03058	mg/L	0.011484	9.03058	mg/L	0.011484	0.13%
Mn 257.610†	14045.9	2.26555	mg/L	0.001678	2.26555	mg/L	0.001678	0.07%
K 766.490†	5646.8	5.64359	mg/L	0.042510	5.64359	mg/L	0.042510	0.75%
Na 589.592†	3665.7	1.53475	mg/L	0.004461	1.53475	mg/L	0.004461	0.29%
Ti 334.940†	12123.4	1.89841	mg/L	0.006509	1.89841	mg/L	0.006509	0.34%

Sequence No.: 24
Sample ID: 78787-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 5/23/2014 2:02:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-002

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3250.6	105.594	%	1.4982				1.42%
Sc 361.383	7999.9	96.5	%	1.02				1.06%
Al 308.215†	7621.1	45.3492	mg/L	0.09154	45.3492	mg/L	0.09154	0.20%
Ca 315.887†	664611.8	535.436	mg/L	5.2119	535.436	mg/L	5.2119	0.97%
Fe 273.955†	33000.7	100.383	mg/L	0.1859	100.383	mg/L	0.1859	0.19%
Mg 279.077†	8761.8	57.4227	mg/L	0.55034	57.4227	mg/L	0.55034	0.96%
Mn 257.610†	21323.5	3.44136	mg/L	0.008304	3.44136	mg/L	0.008304	0.24%
K 766.490†	8313.3	8.30183	mg/L	0.020525	8.30183	mg/L	0.020525	0.25%
Na 589.592†	3729.7	1.56359	mg/L	0.015612	1.56359	mg/L	0.015612	1.00%
Ti 334.940†	12113.0	1.89678	mg/L	0.003228	1.89678	mg/L	0.003228	0.17%

Sequence No.: 25
Sample ID: 78787-007
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 5/23/2014 2:05:21 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-007

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3398.8	110.408	%	0.8943				0.81%
Sc 361.383	8402.9	101	%	0.3				0.31%
Al 308.215†	4835.6	28.7576	mg/L	0.00552	28.7576	mg/L	0.00552	0.02%
Ca 315.887†	46006.2	36.9349	mg/L	0.29922	36.9349	mg/L	0.29922	0.81%
Fe 273.955†	37361.8	113.653	mg/L	0.9326	113.653	mg/L	0.9326	0.82%
Mg 279.077†	810.8	5.02003	mg/L	0.029226	5.02003	mg/L	0.029226	0.58%
Mn 257.610†	5980.6	0.962495	mg/L	0.0009373	0.962495	mg/L	0.0009373	0.10%
K 766.490†	4059.8	4.06155	mg/L	0.026625	4.06155	mg/L	0.026625	0.66%
Na 589.592†	3295.0	1.36780	mg/L	0.019062	1.36780	mg/L	0.019062	1.39%
Ti 334.940†	8275.7	1.29525	mg/L	0.001573	1.29525	mg/L	0.001573	0.12%

Sequence No.: 26
Sample ID: 78787-008
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 5/23/2014 2:08:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-008

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3407.5	110.690	%	0.2383				0.22%
Sc 361.383	8413.0	101	%	0.1				0.05%
Al 308.215†	7972.6	47.4425	mg/L	0.07955	47.4425	mg/L	0.07955	0.17%
Ca 315.887†	34705.6	27.8283	mg/L	0.01024	27.8283	mg/L	0.01024	0.04%
Fe 273.955†	34077.7	103.660	mg/L	0.1746	103.660	mg/L	0.1746	0.17%
Mg 279.077†	4005.9	26.0778	mg/L	0.00019	26.0778	mg/L	0.00019	0.00%
Mn 257.610†	12979.9	2.09334	mg/L	0.004554	2.09334	mg/L	0.004554	0.22%
K 766.490†	8884.6	8.87132	mg/L	0.070821	8.87132	mg/L	0.070821	0.80%
Na 589.592†	2179.0	0.865157	mg/L	0.0098046	0.865157	mg/L	0.0098046	1.13%
Ti 334.940†	22324.4	3.49750	mg/L	0.000155	3.49750	mg/L	0.000155	0.00%

Sequence No.: 27
Sample ID: 78787-014
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 5/23/2014 2:11:39 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-014

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3446.1	111.945	%	0.4166				0.37%
Sc 361.383	8216.3	99.1	%	0.77				0.78%
Al 308.215†	8248.5	49.0861	mg/L	0.08782	49.0861	mg/L	0.08782	0.18%
Ca 315.887†	149860.3	120.625	mg/L	1.4672	120.625	mg/L	1.4672	1.22%
Fe 273.955†	33701.9	102.516	mg/L	0.1645	102.516	mg/L	0.1645	0.16%
Mg 279.077†	4730.4	30.8524	mg/L	0.07868	30.8524	mg/L	0.07868	0.26%
Mn 257.610†	10244.9	1.65146	mg/L	0.009338	1.65146	mg/L	0.009338	0.57%
K 766.490†	10295.5	10.2778	mg/L	0.04057	10.2778	mg/L	0.04057	0.39%
Na 589.592†	5420.5	2.32512	mg/L	0.010717	2.32512	mg/L	0.010717	0.46%
Ti 334.940†	13673.2	2.14136	mg/L	0.000389	2.14136	mg/L	0.000389	0.02%

Sequence No.: 28
Sample ID: ICSA V-185754
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/23/2014 2:14:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185754

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2716.7	88.2496	%	0.62795				0.71%
Sc 361.383	7412.5	89.4	%	0.40				0.45%
Al 308.215†	83935.3	499.900	mg/L	2.0515	499.900	mg/L	2.0515	0.41%
QC value within limits for Al 308.215 Recovery = 99.98%								
Ca 315.887†	542411.1	436.961	mg/L	2.3850	436.961	mg/L	2.3850	0.55%
QC value within limits for Ca 315.887 Recovery = 87.39%								
Fe 273.955†	62619.1	190.511	mg/L	0.6118	190.511	mg/L	0.6118	0.32%
QC value within limits for Fe 273.955 Recovery = 95.26%								
Mg 279.077†	74813.5	492.748	mg/L	2.5419	492.748	mg/L	2.5419	0.52%
QC value within limits for Mg 279.077 Recovery = 98.55%								
Mn 257.610†	157.1	0.0216181	mg/L	0.00012098	0.0216181	mg/L	0.00012098	0.56%
QC value within limits for Mn 257.610 Recovery = 2.16%								
K 766.490†	169.2	0.182981	mg/L	0.0851783	0.182981	mg/L	0.0851783	46.55%
QC value within limits for K 766.490 Recovery = 18.30%								
Na 589.592†	487.8	0.103443	mg/L	0.0010496	0.103443	mg/L	0.0010496	1.01%
QC value within limits for Na 589.592 Recovery = 10.34%								
Ti 334.940†	-221.3	-0.0367170	mg/L	0.00077649	-0.0367170	mg/L	0.00077649	2.11%
QC value within limits for Ti 334.940 Recovery = -3.67%								

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/23/2014 2:17:44 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2685.6	87.2409	%	0.27941				0.32%
Sc 361.383	7383.2	89.0	%	0.35				0.39%
Al 308.215†	85862.9	511.382	mg/L	6.4540	511.382	mg/L	6.4540	1.26%
QC value within limits for Al 308.215 Recovery = 102.28%								
Ca 315.887†	552469.8	445.067	mg/L	4.4332	445.067	mg/L	4.4332	1.00%
QC value within limits for Ca 315.887 Recovery = 89.01%								
Fe 273.955†	64308.7	195.652	mg/L	2.4652	195.652	mg/L	2.4652	1.26%
QC value within limits for Fe 273.955 Recovery = 97.83%								
Mg 279.077†	76995.0	507.126	mg/L	6.7686	507.126	mg/L	6.7686	1.33%
QC value within limits for Mg 279.077 Recovery = 101.43%								
Mn 257.610†	3183.5	0.510584	mg/L	0.0003689	0.510584	mg/L	0.0003689	0.07%
QC value within limits for Mn 257.610 Recovery = 102.12%								
K 766.490†	64.5	0.0786278	mg/L	0.00805349	0.0786278	mg/L	0.00805349	10.24%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	301.4	0.0194868	mg/L	0.00885769	0.0194868	mg/L	0.00885769	45.45%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-223.4	-0.0370542	mg/L	0.00057402	-0.0370542	mg/L	0.00057402	1.55%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: CCV V-186533
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/23/2014 2:21:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-186533

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2914.1	94.6617	%	0.22485				0.24%
Sc 361.383	7938.7	95.7	%	0.16				0.17%
Al 308.215†	845.1	4.98912	mg/L	0.037392	4.98912	mg/L	0.037392	0.75%
QC value within limits for Al 308.215 Recovery = 99.78%								
Ca 315.887†	60646.8	48.7329	mg/L	0.36309	48.7329	mg/L	0.36309	0.75%
QC value within limits for Ca 315.887 Recovery = 97.47%								
Fe 273.955†	1640.0	4.95240	mg/L	0.013294	4.95240	mg/L	0.013294	0.27%
QC value within limits for Fe 273.955 Recovery = 99.05%								
Mg 279.077†	7737.8	50.6736	mg/L	0.01675	50.6736	mg/L	0.01675	0.03%
QC value within limits for Mg 279.077 Recovery = 101.35%								
Mn 257.610†	3073.0	0.492721	mg/L	0.0001483	0.492721	mg/L	0.0001483	0.03%
QC value within limits for Mn 257.610 Recovery = 98.54%								
K 766.490†	49202.6	49.0641	mg/L	0.42461	49.0641	mg/L	0.42461	0.87%
QC value within limits for K 766.490 Recovery = 98.13%								
Na 589.592†	109614.5	49.2537	mg/L	0.37140	49.2537	mg/L	0.37140	0.75%
QC value within limits for Na 589.592 Recovery = 98.51%								
Ti 334.940†	3168.3	0.494626	mg/L	0.0000595	0.494626	mg/L	0.0000595	0.01%
QC value within limits for Ti 334.940 Recovery = 98.93%								

All analyte(s) passed QC.

Sequence No.: 31
Sample ID: LLCCV V-187248
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/23/2014 2:24:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-187248

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2957.0	96.0556	%	0.58463				0.61%
Sc 361.383	8060.4	97.2	%	0.61				0.62%
Al 308.215†	344.7	2.00846	mg/L	0.029333	2.00846	mg/L	0.029333	1.46%
QC value within limits for Al 308.215 Recovery = 100.42%								
Ca 315.887†	12674.3	10.0745	mg/L	0.00531	10.0745	mg/L	0.00531	0.05%
QC value within limits for Ca 315.887 Recovery = 100.75%								
Fe 273.955†	661.6	1.97536	mg/L	0.020735	1.97536	mg/L	0.020735	1.05%
QC value within limits for Fe 273.955 Recovery = 98.77%								
Mg 279.077†	789.6	4.87997	mg/L	0.038100	4.87997	mg/L	0.038100	0.78%
QC value within limits for Mg 279.077 Recovery = 97.60%								
Mn 257.610†	627.2	0.0975793	mg/L	0.00020945	0.0975793	mg/L	0.00020945	0.21%
QC value within limits for Mn 257.610 Recovery = 97.58%								
K 766.490†	5128.1	5.12651	mg/L	0.033741	5.12651	mg/L	0.033741	0.66%
QC value within limits for K 766.490 Recovery = 102.53%								
Na 589.592†	5798.1	2.49518	mg/L	0.025730	2.49518	mg/L	0.025730	1.03%
QC value within limits for Na 589.592 Recovery = 99.81%								
Ti 334.940†	627.5	0.0963342	mg/L	0.00094075	0.0963342	mg/L	0.00094075	0.98%
QC value within limits for Ti 334.940 Recovery = 96.33%								

All analyte(s) passed QC.

Sequence No.: 32
Sample ID: CCB V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/23/2014 2:27:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-183928

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3031.1	98.4651	%	0.04854				0.05%
Sc 361.383	8190.0	98.8	%	0.29				0.29%
Al 308.215†	1.4	-0.0365422	mg/L	0.00680397	-0.0365422	mg/L	0.00680397	18.62%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	3.5	-0.136220	mg/L	0.0024516	-0.136220	mg/L	0.0024516	1.80%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	1.8	-0.0325413	mg/L	0.00413890	-0.0325413	mg/L	0.00413890	12.72%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	4.0	-0.297800	mg/L	0.0205674	-0.297800	mg/L	0.0205674	6.91%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	4.3	-0.0030578	mg/L	0.00010494	-0.0030578	mg/L	0.00010494	3.43%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	8.7	0.0230075	mg/L	0.03605504	0.0230075	mg/L	0.03605504	156.71%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	-39.3	-0.133993	mg/L	0.0093431	-0.133993	mg/L	0.0093431	6.97%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	4.2	-0.0013767	mg/L	0.00112428	-0.0013767	mg/L	0.00112428	81.67%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 33
Sample ID: 78787-018
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 5/23/2014 2:31:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-018

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3440.2	111.753	%	0.2919				0.26%
Sc 361.383	8235.7	99.3	%	0.04				0.04%
Al 308.215†	5463.0	32.4943	mg/L	0.09400	32.4943	mg/L	0.09400	0.29%
Ca 315.887†	62732.6	50.4138	mg/L	0.03320	50.4138	mg/L	0.03320	0.07%
Fe 273.955†	36350.5	110.576	mg/L	0.0682	110.576	mg/L	0.0682	0.06%
Mg 279.077†	15813.9	103.901	mg/L	0.1567	103.901	mg/L	0.1567	0.15%
Mn 257.610†	12063.5	1.94527	mg/L	0.001287	1.94527	mg/L	0.001287	0.07%
K 766.490†	10105.6	10.0885	mg/L	0.00009	10.0885	mg/L	0.00009	0.00%
Na 589.592†	3138.8	1.29742	mg/L	0.004759	1.29742	mg/L	0.004759	0.37%
Ti 334.940†	15044.3	2.35629	mg/L	0.000944	2.35629	mg/L	0.000944	0.04%

Sequence No.: 34
Sample ID: 78787-019
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 5/23/2014 2:33:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-019

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3554.6	115.470	%	1.9718				1.71%
Sc 361.383	8375.4	101	%	1.4				1.40%
Al 308.215†	10321.3	61.4319	mg/L	0.13037	61.4319	mg/L	0.13037	0.21%
Ca 315.887†	83515.4	67.1615	mg/L	1.57688	67.1615	mg/L	1.57688	2.35%
Fe 273.955†	33981.6	103.368	mg/L	0.0617	103.368	mg/L	0.0617	0.06%
Mg 279.077†	4504.1	29.3612	mg/L	0.16044	29.3612	mg/L	0.16044	0.55%
Mn 257.610†	12683.0	2.04535	mg/L	0.002803	2.04535	mg/L	0.002803	0.14%
K 766.490†	11108.4	11.0882	mg/L	0.04268	11.0882	mg/L	0.04268	0.38%
Na 589.592†	3137.5	1.29685	mg/L	0.036876	1.29685	mg/L	0.036876	2.84%
Ti 334.940†	22107.2	3.46346	mg/L	0.007084	3.46346	mg/L	0.007084	0.20%

Sequence No.: 35
Sample ID: 78787-020
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 5/23/2014 2:36:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-020

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3652.6	118.652	%	1.5612				1.32%
Sc 361.383	8480.5	102	%	0.1				0.13%
Al 308.215†	10459.5	62.2555	mg/L	0.23531	62.2555	mg/L	0.23531	0.38%
Ca 315.887†	70135.4	56.3793	mg/L	0.17448	56.3793	mg/L	0.17448	0.31%
Fe 273.955†	38174.1	116.125	mg/L	0.3995	116.125	mg/L	0.3995	0.34%
Mg 279.077†	5322.8	34.7569	mg/L	0.01073	34.7569	mg/L	0.01073	0.03%
Mn 257.610†	20234.7	3.26545	mg/L	0.008060	3.26545	mg/L	0.008060	0.25%
K 766.490†	10639.9	10.6212	mg/L	0.03297	10.6212	mg/L	0.03297	0.31%
Na 589.592†	3079.0	1.27048	mg/L	0.012692	1.27048	mg/L	0.012692	1.00%
Ti 334.940†	21405.9	3.35351	mg/L	0.010816	3.35351	mg/L	0.010816	0.32%

Sequence No.: 36
Sample ID: 78787-021
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 5/23/2014 2:38:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-021

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3569.8	115.963	%	0.5465				0.47%
Sc 361.383	8371.9	101	%	0.6				0.59%
Al 308.215†	10886.4	64.7980	mg/L	0.00564	64.7980	mg/L	0.00564	0.01%
Ca 315.887†	225973.7	181.961	mg/L	0.6298	181.961	mg/L	0.6298	0.35%
Fe 273.955†	45198.3	137.500	mg/L	0.2084	137.500	mg/L	0.2084	0.15%
Mg 279.077†	6553.4	42.8679	mg/L	0.15521	42.8679	mg/L	0.15521	0.36%
Mn 257.610†	19687.2	3.17700	mg/L	0.005214	3.17700	mg/L	0.005214	0.16%
K 766.490†	17062.2	17.0235	mg/L	0.08959	17.0235	mg/L	0.08959	0.53%
Na 589.592†	5433.8	2.33109	mg/L	0.040399	2.33109	mg/L	0.040399	1.73%
Ti 334.940†	26913.7	4.21691	mg/L	0.013843	4.21691	mg/L	0.013843	0.33%

Sequence No.: 37
Sample ID: 78787-022
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 5/23/2014 2:41:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-022

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3666.7	119.113	%	3.5568				2.99%
Sc 361.383	8283.2	99.9	%	2.18				2.19%
Al 308.215†	9272.3	55.1837	mg/L	0.18301	55.1837	mg/L	0.18301	0.33%
Ca 315.887†	131956.6	106.198	mg/L	2.5042	106.198	mg/L	2.5042	2.36%
Fe 273.955†	35187.9	107.038	mg/L	0.0186	107.038	mg/L	0.0186	0.02%
Mg 279.077†	13902.6	91.3040	mg/L	0.13582	91.3040	mg/L	0.13582	0.15%
Mn 257.610†	14559.8	2.34859	mg/L	0.001257	2.34859	mg/L	0.001257	0.05%
K 766.490†	18640.2	18.5967	mg/L	0.08828	18.5967	mg/L	0.08828	0.47%
Na 589.592†	2663.3	1.08327	mg/L	0.038944	1.08327	mg/L	0.038944	3.60%
Ti 334.940†	27702.7	4.34059	mg/L	0.000966	4.34059	mg/L	0.000966	0.02%

Sequence No.: 38
Sample ID: 78787-023
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 5/23/2014 2:43:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-023

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3678.2	119.486	%	1.2485				1.04%
Sc 361.383	8343.1	101	%	0.4				0.41%
Al 308.215†	7511.7	44.6971	mg/L	0.03468	44.6971	mg/L	0.03468	0.08%
Ca 315.887†	177869.5	143.196	mg/L	1.5117	143.196	mg/L	1.5117	1.06%
Fe 273.955†	25473.9	77.4788	mg/L	0.01139	77.4788	mg/L	0.01139	0.01%
Mg 279.077†	5567.5	36.3696	mg/L	0.07952	36.3696	mg/L	0.07952	0.22%
Mn 257.610†	13829.9	2.23065	mg/L	0.001500	2.23065	mg/L	0.001500	0.07%
K 766.490†	11840.0	11.8176	mg/L	0.07544	11.8176	mg/L	0.07544	0.64%
Na 589.592†	5238.6	2.24319	mg/L	0.014185	2.24319	mg/L	0.014185	0.63%
Ti 334.940†	17790.7	2.78680	mg/L	0.003825	2.78680	mg/L	0.003825	0.14%

Sequence No.: 39
Sample ID: 78787-024
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 5/23/2014 2:46:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-024

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3566.1	115.843	%	2.1988				1.90%
Sc 361.383	8474.4	102	%	0.9				0.86%
Al 308.215†	9345.8	55.6221	mg/L	0.61921	55.6221	mg/L	0.61921	1.11%
Ca 315.887†	158136.9	127.295	mg/L	0.5542	127.295	mg/L	0.5542	0.44%
Fe 273.955†	34694.7	105.537	mg/L	1.4540	105.537	mg/L	1.4540	1.38%
Mg 279.077†	5804.9	37.9345	mg/L	0.54426	37.9345	mg/L	0.54426	1.43%
Mn 257.610†	13442.3	2.16804	mg/L	0.027464	2.16804	mg/L	0.027464	1.27%
K 766.490†	18014.0	17.9723	mg/L	0.12290	17.9723	mg/L	0.12290	0.68%
Na 589.592†	5606.3	2.40880	mg/L	0.024639	2.40880	mg/L	0.024639	1.02%
Ti 334.940†	37095.6	5.81301	mg/L	0.077149	5.81301	mg/L	0.077149	1.33%

Sequence No.: 40
Sample ID: ICSA V-185754
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/23/2014 2:49:15 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185754

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2737.6	88.9283	%	0.46112				0.52%
Sc 361.383	7510.3	90.6	%	0.40				0.44%
Al 308.215†	84249.4	501.771	mg/L	7.6684	501.771	mg/L	7.6684	1.53%
QC value within limits for Al 308.215 Recovery = 100.35%								
Ca 315.887†	607208.8	489.178	mg/L	8.5276	489.178	mg/L	8.5276	1.74%
QC value within limits for Ca 315.887 Recovery = 97.84%								
Fe 273.955†	63074.5	191.897	mg/L	3.5468	191.897	mg/L	3.5468	1.85%
QC value within limits for Fe 273.955 Recovery = 95.95%								
Mg 279.077†	75584.7	497.831	mg/L	8.8982	497.831	mg/L	8.8982	1.79%
QC value within limits for Mg 279.077 Recovery = 99.57%								
Mn 257.610†	156.0	0.0214375	mg/L	0.00031570	0.0214375	mg/L	0.00031570	1.47%
QC value within limits for Mn 257.610 Recovery = 2.14%								
K 766.490†	89.7	0.103733	mg/L	0.0176923	0.103733	mg/L	0.0176923	17.06%
QC value within limits for K 766.490 Recovery = 10.37%								
Na 589.592†	251.4	-0.0030662	mg/L	0.01356913	-0.0030662	mg/L	0.01356913	442.54%
QC value within limits for Na 589.592 Recovery = -0.31%								
Ti 334.940†	-233.1	-0.0385656	mg/L	0.00151251	-0.0385656	mg/L	0.00151251	3.92%
QC value within limits for Ti 334.940 Recovery = -3.86%								

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/23/2014 2:52:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2713.7	88.1549	%	0.00351				0.00%
Sc 361.383	7516.8	90.6	%	0.27				0.30%
Al 308.215†	85114.6	506.924	mg/L	3.4971	506.924	mg/L	3.4971	0.69%
QC value within limits for Al 308.215 Recovery = 101.38%								
Ca 315.887†	544519.3	438.660	mg/L	1.0938	438.660	mg/L	1.0938	0.25%
QC value within limits for Ca 315.887 Recovery = 87.73%								
Fe 273.955†	63780.5	194.045	mg/L	1.3092	194.045	mg/L	1.3092	0.67%
QC value within limits for Fe 273.955 Recovery = 97.02%								
Mg 279.077†	76350.4	502.878	mg/L	3.8693	502.878	mg/L	3.8693	0.77%
QC value within limits for Mg 279.077 Recovery = 100.58%								
Mn 257.610†	3188.6	0.511408	mg/L	0.0018743	0.511408	mg/L	0.0018743	0.37%
QC value within limits for Mn 257.610 Recovery = 102.28%								
K 766.490†	63.2	0.0773320	mg/L	0.02423551	0.0773320	mg/L	0.02423551	31.34%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	302.3	0.0198794	mg/L	0.00230226	0.0198794	mg/L	0.00230226	11.58%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-232.5	-0.0384786	mg/L	0.00095773	-0.0384786	mg/L	0.00095773	2.49%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: CCV V-186533
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/23/2014 2:56:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-186533

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2885.5	93.7358	%	0.78990				0.84%
Sc 361.383	7929.5	95.6	%	0.26				0.27%
Al 308.215†	847.6	5.00396	mg/L	0.082902	5.00396	mg/L	0.082902	1.66%
QC value within limits for Al 308.215 Recovery = 100.08%								
Ca 315.887†	61804.6	49.6659	mg/L	0.41715	49.6659	mg/L	0.41715	0.84%
QC value within limits for Ca 315.887 Recovery = 99.33%								
Fe 273.955†	1638.6	4.94826	mg/L	0.006133	4.94826	mg/L	0.006133	0.12%
QC value within limits for Fe 273.955 Recovery = 98.97%								
Mg 279.077†	7739.4	50.6839	mg/L	0.03982	50.6839	mg/L	0.03982	0.08%
QC value within limits for Mg 279.077 Recovery = 101.37%								
Mn 257.610†	3086.3	0.494884	mg/L	0.0021530	0.494884	mg/L	0.0021530	0.44%
QC value within limits for Mn 257.610 Recovery = 98.98%								
K 766.490†	50024.5	49.8835	mg/L	0.31175	49.8835	mg/L	0.31175	0.62%
QC value within limits for K 766.490 Recovery = 99.77%								
Na 589.592†	111849.7	50.2604	mg/L	0.33797	50.2604	mg/L	0.33797	0.67%
QC value within limits for Na 589.592 Recovery = 100.52%								
Ti 334.940†	3180.7	0.496563	mg/L	0.0031614	0.496563	mg/L	0.0031614	0.64%
QC value within limits for Ti 334.940 Recovery = 99.31%								

All analyte(s) passed QC.

Sequence No.: 43
Sample ID: LLCCV V-187248
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/23/2014 2:59:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-187248

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2997.5	97.3714	%	0.03948				0.04%
Sc 361.383	8177.9	98.6	%	0.24				0.25%
Al 308.215†	336.7	1.96095	mg/L	0.033105	1.96095	mg/L	0.033105	1.69%
QC value within limits for Al 308.215 Recovery = 98.05%								
Ca 315.887†	12598.8	10.0136	mg/L	0.00883	10.0136	mg/L	0.00883	0.09%
QC value within limits for Ca 315.887 Recovery = 100.14%								
Fe 273.955†	658.3	1.96511	mg/L	0.019374	1.96511	mg/L	0.019374	0.99%
QC value within limits for Fe 273.955 Recovery = 98.26%								
Mg 279.077†	789.0	4.87601	mg/L	0.025047	4.87601	mg/L	0.025047	0.51%
QC value within limits for Mg 279.077 Recovery = 97.52%								
Mn 257.610†	630.2	0.0980632	mg/L	0.00009409	0.0980632	mg/L	0.00009409	0.10%
QC value within limits for Mn 257.610 Recovery = 98.06%								
K 766.490†	4975.1	4.97395	mg/L	0.014767	4.97395	mg/L	0.014767	0.30%
QC value within limits for K 766.490 Recovery = 99.48%								
Na 589.592†	5611.6	2.41119	mg/L	0.005046	2.41119	mg/L	0.005046	0.21%
QC value within limits for Na 589.592 Recovery = 96.45%								
Ti 334.940†	630.5	0.0968009	mg/L	0.00085290	0.0968009	mg/L	0.00085290	0.88%
QC value within limits for Ti 334.940 Recovery = 96.80%								

All analyte(s) passed QC.

Sequence No.: 44 **Autosampler Location: 2**
Sample ID: CCB V-183928 **Date Collected: 5/23/2014 3:02:57 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB V-183928

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3077.9	99.9828	%	0.54854				0.55%
Sc 361.383	8334.8	100	%	0.8				0.75%
Al 308.215†	1.9	-0.0335320	mg/L	0.00007765	-0.0335320	mg/L	0.00007765	0.23%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	11.2	-0.130063	mg/L	0.0036635	-0.130063	mg/L	0.0036635	2.82%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	2.5	-0.0302765	mg/L	0.01112532	-0.0302765	mg/L	0.01112532	36.75%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	2.2	-0.309253	mg/L	0.0473834	-0.309253	mg/L	0.0473834	15.32%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	2.4	-0.0033683	mg/L	0.00049016	-0.0033683	mg/L	0.00049016	14.55%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	8.3	0.0226322	mg/L	0.00045789	0.0226322	mg/L	0.00045789	2.02%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	-11.8	-0.121592	mg/L	0.0056055	-0.121592	mg/L	0.0056055	4.61%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	2.7	-0.0016130	mg/L	0.00026819	-0.0016130	mg/L	0.00026819	16.63%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 45
Sample ID: 78787-025
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 5/23/2014 3:06:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-025

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3508.4	113.967	%	1.5650				1.37%
Sc 361.383	8308.4	100	%	0.6				0.62%
Al 308.215†	10142.7	60.3682	mg/L	0.05550	60.3682	mg/L	0.05550	0.09%
Ca 315.887†	228319.8	183.852	mg/L	2.4259	183.852	mg/L	2.4259	1.32%
Fe 273.955†	37188.4	113.126	mg/L	0.3934	113.126	mg/L	0.3934	0.35%
Mg 279.077†	6652.7	43.5218	mg/L	0.25721	43.5218	mg/L	0.25721	0.59%
Mn 257.610†	19111.9	3.08405	mg/L	0.008678	3.08405	mg/L	0.008678	0.28%
K 766.490†	15928.6	15.8934	mg/L	0.05085	15.8934	mg/L	0.05085	0.32%
Na 589.592†	6033.4	2.60113	mg/L	0.005596	2.60113	mg/L	0.005596	0.22%
Ti 334.940†	22031.1	3.45152	mg/L	0.012295	3.45152	mg/L	0.012295	0.36%

Sequence No.: 46
Sample ID: 78787-026
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 48
Date Collected: 5/23/2014 3:09:15 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-026

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3481.9	113.108	%	1.2005				1.06%
Sc 361.383	8319.0	100	%	0.6				0.60%
Al 308.215†	9220.8	54.8773	mg/L	0.04516	54.8773	mg/L	0.04516	0.08%
Ca 315.887†	74928.3	60.2416	mg/L	0.06171	60.2416	mg/L	0.06171	0.10%
Fe 273.955†	35991.3	109.483	mg/L	0.1231	109.483	mg/L	0.1231	0.11%
Mg 279.077†	5347.2	34.9179	mg/L	0.06734	34.9179	mg/L	0.06734	0.19%
Mn 257.610†	12221.5	1.97080	mg/L	0.004437	1.97080	mg/L	0.004437	0.23%
K 766.490†	15240.1	15.2071	mg/L	0.00393	15.2071	mg/L	0.00393	0.03%
Na 589.592†	4618.4	1.96381	mg/L	0.039917	1.96381	mg/L	0.039917	2.03%
Ti 334.940†	24784.8	3.88319	mg/L	0.005229	3.88319	mg/L	0.005229	0.13%

Sequence No.: 47
Sample ID: 78793-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 5/23/2014 3:11:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-002

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3168.5	102.927	%	0.4888				0.47%
Sc 361.383	7898.4	95.2	%	0.46				0.49%
Al 308.215†	5907.5	35.1420	mg/L	0.01073	35.1420	mg/L	0.01073	0.03%
Ca 315.887†	901241.7	726.123	mg/L	0.0890	726.123	mg/L	0.0890	0.01%
Fe 273.955†	45827.0	139.413	mg/L	0.2773	139.413	mg/L	0.2773	0.20%
Mg 279.077†	4967.9	32.4182	mg/L	0.07284	32.4182	mg/L	0.07284	0.22%
Mn 257.610†	9520.7	1.53445	mg/L	0.002215	1.53445	mg/L	0.002215	0.14%
K 766.490†	5792.6	5.78895	mg/L	0.018272	5.78895	mg/L	0.018272	0.32%
Na 589.592†	527692.3	237.554	mg/L	0.0219	237.554	mg/L	0.0219	0.01%
Ti 334.940†	17485.2	2.73892	mg/L	0.007849	2.73892	mg/L	0.007849	0.29%

Sequence No.: 48
Sample ID: 78790-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 5/23/2014 3:14:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78790-001

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4311.9	140.069	%	0.2976				0.21%
Sc 361.383	8487.3	102	%	0.3				0.28%
Al 308.215†	16252.5	96.7604	mg/L	0.03687	96.7604	mg/L	0.03687	0.04%
Ca 315.887†	50761.0	40.7665	mg/L	0.03604	40.7665	mg/L	0.03604	0.09%
Fe 273.955†	62403.6	189.855	mg/L	2.1431	189.855	mg/L	2.1431	1.13%
Mg 279.077†	7228.9	47.3195	mg/L	0.03058	47.3195	mg/L	0.03058	0.06%
Mn 257.610†	15420.8	2.48770	mg/L	0.010076	2.48770	mg/L	0.010076	0.41%
K 766.490†	4759.5	4.75902	mg/L	0.022830	4.75902	mg/L	0.022830	0.48%
Na 589.592†	19038.7	8.45868	mg/L	0.029702	8.45868	mg/L	0.029702	0.35%
Ti 334.940†	51072.2	8.00395	mg/L	0.008928	8.00395	mg/L	0.008928	0.11%

Sequence No.: 49
Sample ID: 78790-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 5/23/2014 3:17:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78790-002

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4045.1	131.404	%	1.6691				1.27%
Sc 361.383	8661.1	104	%	1.5				1.40%
Al 308.215†	17671.2	105.210	mg/L	0.2343	105.210	mg/L	0.2343	0.22%
Ca 315.887†	16844.3	13.4349	mg/L	0.01409	13.4349	mg/L	0.01409	0.10%
Fe 273.955†	59023.9	179.571	mg/L	2.8376	179.571	mg/L	2.8376	1.58%
Mg 279.077†	4533.3	29.5535	mg/L	0.17554	29.5535	mg/L	0.17554	0.59%
Mn 257.610†	11237.9	1.81189	mg/L	0.002926	1.81189	mg/L	0.002926	0.16%
K 766.490†	5777.3	5.77370	mg/L	0.046313	5.77370	mg/L	0.046313	0.80%
Na 589.592†	7461.6	3.24440	mg/L	0.018790	3.24440	mg/L	0.018790	0.58%
Ti 334.940†	29289.7	4.58936	mg/L	0.005184	4.58936	mg/L	0.005184	0.11%

Sequence No.: 50
Sample ID: ICSA V-185754
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/23/2014 3:19:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185754

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2709.1	88.0035	%	0.62122				0.71%
Sc 361.383	7422.7	89.5	%	0.18				0.20%
Al 308.215†	84298.2	502.062	mg/L	4.2733	502.062	mg/L	4.2733	0.85%
QC value within limits for Al 308.215 Recovery = 100.41%								
Ca 315.887†	606207.1	488.371	mg/L	6.1965	488.371	mg/L	6.1965	1.27%
QC value within limits for Ca 315.887 Recovery = 97.67%								
Fe 273.955†	63041.0	191.795	mg/L	2.3059	191.795	mg/L	2.3059	1.20%
QC value within limits for Fe 273.955 Recovery = 95.90%								
Mg 279.077†	75392.0	496.561	mg/L	7.2906	496.561	mg/L	7.2906	1.47%
QC value within limits for Mg 279.077 Recovery = 99.31%								
Mn 257.610†	155.3	0.0213401	mg/L	0.00037002	0.0213401	mg/L	0.00037002	1.73%
QC value within limits for Mn 257.610 Recovery = 2.13%								
K 766.490†	75.7	0.0897481	mg/L	0.03874154	0.0897481	mg/L	0.03874154	43.17%
QC value within limits for K 766.490 Recovery = 8.97%								
Na 589.592†	379.1	0.0544836	mg/L	0.00379966	0.0544836	mg/L	0.00379966	6.97%
QC value within limits for Na 589.592 Recovery = 5.45%								
Ti 334.940†	-223.6	-0.0370776	mg/L	0.00012424	-0.0370776	mg/L	0.00012424	0.34%
QC value within limits for Ti 334.940 Recovery = -3.71%								

All analyte(s) passed QC.

Sequence No.: 51
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/23/2014 3:23:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2710.5	88.0508	%	0.07261				0.08%
Sc 361.383	7441.5	89.7	%	0.04				0.05%
Al 308.215†	85213.6	507.514	mg/L	0.7598	507.514	mg/L	0.7598	0.15%
QC value within limits for Al 308.215 Recovery = 101.50%								
Ca 315.887†	546025.9	439.874	mg/L	0.8467	439.874	mg/L	0.8467	0.19%
QC value within limits for Ca 315.887 Recovery = 87.97%								
Fe 273.955†	63748.7	193.948	mg/L	0.7724	193.948	mg/L	0.7724	0.40%
QC value within limits for Fe 273.955 Recovery = 96.97%								
Mg 279.077†	76110.0	501.293	mg/L	1.2334	501.293	mg/L	1.2334	0.25%
QC value within limits for Mg 279.077 Recovery = 100.26%								
Mn 257.610†	3190.8	0.511755	mg/L	0.0018492	0.511755	mg/L	0.0018492	0.36%
QC value within limits for Mn 257.610 Recovery = 102.35%								
K 766.490†	54.2	0.0683273	mg/L	0.00782638	0.0683273	mg/L	0.00782638	11.45%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	336.0	0.0350572	mg/L	0.00448664	0.0350572	mg/L	0.00448664	12.80%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-224.9	-0.0372867	mg/L	0.00014248	-0.0372867	mg/L	0.00014248	0.38%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 52
Sample ID: CCV V-186533
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/23/2014 3:26:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-186533

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2902.8	94.2973	%	0.45603				0.48%
Sc 361.383	7929.3	95.6	%	0.66				0.69%
Al 308.215†	845.2	4.98951	mg/L	0.026215	4.98951	mg/L	0.026215	0.53%
QC value within limits for Al 308.215 Recovery = 99.79%								
Ca 315.887†	60541.1	48.6478	mg/L	1.05053	48.6478	mg/L	1.05053	2.16%
QC value within limits for Ca 315.887 Recovery = 97.30%								
Fe 273.955†	1631.5	4.92661	mg/L	0.000464	4.92661	mg/L	0.000464	0.01%
QC value within limits for Fe 273.955 Recovery = 98.53%								
Mg 279.077†	7699.6	50.4218	mg/L	0.14466	50.4218	mg/L	0.14466	0.29%
QC value within limits for Mg 279.077 Recovery = 100.84%								
Mn 257.610†	3067.1	0.491773	mg/L	0.0028366	0.491773	mg/L	0.0028366	0.58%
QC value within limits for Mn 257.610 Recovery = 98.35%								
K 766.490†	49282.7	49.1439	mg/L	1.02556	49.1439	mg/L	1.02556	2.09%
QC value within limits for K 766.490 Recovery = 98.29%								
Na 589.592†	110262.7	49.5456	mg/L	1.02238	49.5456	mg/L	1.02238	2.06%
QC value within limits for Na 589.592 Recovery = 99.09%								
Ti 334.940†	3168.1	0.494588	mg/L	0.0012552	0.494588	mg/L	0.0012552	0.25%
QC value within limits for Ti 334.940 Recovery = 98.92%								

All analyte(s) passed QC.

Sequence No.: 53
Sample ID: LLCCV V-187248
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/23/2014 3:29:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-187248

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2980.8	96.8287	%	0.10983				0.11%
Sc 361.383	8141.5	98.2	%	0.04				0.04%
Al 308.215†	334.5	1.94742	mg/L	0.000303	1.94742	mg/L	0.000303	0.02%
QC value within limits for Al 308.215 Recovery = 97.37%								
Ca 315.887†	12603.5	10.0174	mg/L	0.01390	10.0174	mg/L	0.01390	0.14%
QC value within limits for Ca 315.887 Recovery = 100.17%								
Fe 273.955†	664.6	1.98434	mg/L	0.007450	1.98434	mg/L	0.007450	0.38%
QC value within limits for Fe 273.955 Recovery = 99.22%								
Mg 279.077†	790.7	4.88710	mg/L	0.004242	4.88710	mg/L	0.004242	0.09%
QC value within limits for Mg 279.077 Recovery = 97.74%								
Mn 257.610†	627.7	0.0976480	mg/L	0.00049835	0.0976480	mg/L	0.00049835	0.51%
QC value within limits for Mn 257.610 Recovery = 97.65%								
K 766.490†	5006.0	5.00477	mg/L	0.032771	5.00477	mg/L	0.032771	0.65%
QC value within limits for K 766.490 Recovery = 100.10%								
Na 589.592†	5718.9	2.45950	mg/L	0.034951	2.45950	mg/L	0.034951	1.42%
QC value within limits for Na 589.592 Recovery = 98.38%								
Ti 334.940†	630.7	0.0968336	mg/L	0.00021281	0.0968336	mg/L	0.00021281	0.22%
QC value within limits for Ti 334.940 Recovery = 96.83%								

All analyte(s) passed QC.

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Sequence No.: 54
Sample ID: CCB V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/23/2014 3:33:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-183928

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3038.4	98.7008	%	1.25624				1.27%
Sc 361.383	8210.2	99.0	%	0.93				0.94%
Al 308.215†	-3.3	-0.0646875	mg/L	0.05055200	-0.0646875	mg/L	0.05055200	78.15%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	15.3	-0.126743	mg/L	0.0027566	-0.126743	mg/L	0.0027566	2.17%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	7.1	-0.0164203	mg/L	0.01125427	-0.0164203	mg/L	0.01125427	68.54%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	7.9	-0.271704	mg/L	0.0066944	-0.271704	mg/L	0.0066944	2.46%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	2.2	-0.0034009	mg/L	0.00023453	-0.0034009	mg/L	0.00023453	6.90%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	27.8	0.0419950	mg/L	0.02781388	0.0419950	mg/L	0.02781388	66.23%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	14.3	-0.109816	mg/L	0.0086337	-0.109816	mg/L	0.0086337	7.86%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	3.4	-0.0014912	mg/L	0.00012082	-0.0014912	mg/L	0.00012082	8.10%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

H16379Sb

4052101 1779

1st Review OA 06/02/2014 V-187834

Analysis Begun

Logged In Analyst: usermet
Technique: AA FIMS-MHS
Spectrometer Model: FIMS-100, S/N B050-9550
Autosampler Model: AS-90

6/3/14

Sample Information File: C:\data-AA\johns\Sample Information\H16379S.sif
Batch ID: H16379S
Results Data Set: H16379Sb
Results Library: C:\data-AA\johns\Results\Results.mdb

Method Loaded
Method Name: HGCV2 Soil (7471B)
Method Last Saved: 4/15/2014 2:16:12 PM
Method Description: HgCV2 Soil (7471B)

Sequence No.: 1
Autosampler Location: 1
Sample ID: Calibration Blank
Date Collected: 6/2/2014 4:29:21 PM
Analyst:
Data Type: Original

Replicate Data: Calibration Blank

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0002	0.0002	0.0002	16:30:08	Yes
2		[0.00]	0.0001	0.0007	0.0001	16:30:40	Yes
Mean:		[0.00]	0.0002				
SD:		0.00	0.0000				
%RSD:		0.00	21.83				

Auto-zero performed.

Sequence No.: 2
Autosampler Location: 2
Sample ID: .2 PPB
Date Collected: 6/2/2014 4:30:41 PM
Analyst:
Data Type: Original

Replicate Data: .2 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0011	0.0050	0.0012	16:31:27	Yes
2		[0.2]	0.0011	0.0054	0.0012	16:31:59	Yes
Mean:		[0.2]	0.0011				
SD:		0.0	0.0000				
%RSD:		0.0	1.32				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00534 Intercept: 0.00000

Sequence No.: 3
Autosampler Location: 3
Sample ID: .5 PPB
Date Collected: 6/2/2014 4:32:00 PM
Analyst:
Data Type: Original

Replicate Data: .5 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0028	0.0119	0.0029	16:32:46	Yes
2		[0.5]	0.0027	0.0115	0.0029	16:33:18	Yes
Mean:		[0.5]	0.0028				
SD:		0.0	0.0000				
%RSD:		0.0	0.55				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999901 Slope: 0.00552 Intercept: -0.00001

Sequence No.: 4
Autosampler Location: 4
Sample ID: 1 PPB
Date Collected: 6/2/2014 4:33:19 PM
Analyst:
Data Type: Original

Replicate Data: 1 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	[1]	0.0062	0.0259	0.0063	16:34:05	Yes
2	[1]	0.0061	0.0253	0.0063	16:34:37	Yes
Mean:	[1]	0.0061				
SD:	0	0.0001				
%RSD:	0	0.84				

Standard number 3 applied. [1]
Correlation Coef.: 0.998432 Slope: 0.00616 Intercept: -0.00013

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Sequence No.: 5 **Autosampler Location: 5**
Sample ID: 2 PPB **Date Collected: 6/2/2014 4:34:38 PM**
Analyst: **Data Type: Original**

Replicate Data: 2 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2]	0.0113	0.0458	0.0114	16:35:24	Yes
2		[2]	0.0112	0.0457	0.0114	16:35:56	Yes
Mean:		[2]	0.0112				
SD:		0	0.0001				
%RSD:		0	0.52				

Standard number 4 applied. [2]
Correlation Coef.: 0.998613 Slope: 0.00569 Intercept: 0.00003

==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: 5 PPB **Date Collected: 6/2/2014 4:35:57 PM**
Analyst: **Data Type: Original**

Replicate Data: 5 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0395	0.1615	0.0396	16:36:43	Yes
2		[5]	0.0315	0.1280	0.0317	16:37:15	Yes
Mean:		[5]	0.0355				
SD:		0	0.0056				
%RSD:		0	15.80				

Standard number 5 applied. [5]
Correlation Coef.: 0.996569 Slope: 0.00710 Intercept: -0.00084

==========

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: 10 PPB **Date Collected: 6/2/2014 4:37:16 PM**
Analyst: **Data Type: Original**

Replicate Data: 10 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.0748	0.3091	0.0749	16:38:02	Yes
2		[10]	0.0601	0.2468	0.0602	16:38:34	Yes
Mean:		[10]	0.0674				
SD:		0	0.0104				
%RSD:		0	15.44				

Standard number 6 applied. [10]
Correlation Coef.: 0.999004 Slope: 0.00685 Intercept: -0.00057

==========

Sequence No.: 8 **Autosampler Location: 8**
Sample ID: 25 PPB **Date Collected: 6/2/2014 4:38:35 PM**
Analyst: **Data Type: Original**

Replicate Data: 25 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[25]	0.1746	0.7316	0.1748	16:39:21	Yes
2		[25]	0.1612	0.6703	0.1614	16:39:53	Yes
Mean:		[25]	0.1679				
SD:		0	0.0095				
%RSD:		0	5.65				

Standard number 7 applied. [25]
Correlation Coef.: 0.999818 Slope: 0.00675 Intercept: -0.00034

Calibration data for Hg 253.7 **Equation: Linear, Calculated Intercept**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calibration Blank	0.0000	0	0.051	0.00	21.8
.2 PPB	0.0011	0.2	0.209	0.00	1.3
.5 PPB	0.0028	0.5	0.459	0.00	0.5
1 PPB	0.0061	1.0	0.961	0.00	0.8
2 PPB	0.0112	2.0	1.717	0.00	0.5
5 PPB	0.0355	5.0	5.312	0.01	15.8
10 PPB	0.0674	10.0	10.047	0.01	15.4
25 PPB	0.1679	25.0	24.944	0.01	5.6

Correlation Coef.: 0.999818 Slope: 0.00675 Intercept: -0.00034

Sequence No.: 9 **Autosampler Location: 10**
Sample ID: ICV (2) **Date Collected: 6/2/2014 4:39:54 PM**
Analyst: **Data Type: Original**

Replicate Data: ICV (2)

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	22.74	22.74	0.1531	0.6356	0.1532	16:40:43	Yes
2	19.47	19.47	0.1310	0.5401	0.1311	16:41:15	Yes
Mean:	21.11	21.11	0.1420				
SD:	2.314	2.314	0.0156				
%RSD:	10.96	10.96	10.99				

QC value within limits for Hg 253.7 Recovery = 105.53%
All analyte(s) passed QC.

Sequence No.: 10 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 6/2/2014 4:41:16 PM**
Analyst: **Data Type: Original**

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.027	0.027	-0.0002	-0.0014	-0.0000	16:42:03	Yes
2	0.044	0.044	-0.0000	0.0001	0.0001	16:42:35	Yes
Mean:	0.035	0.035	-0.0001				
SD:	0.012	0.012	0.0001				
%RSD:	34.56	34.56	79.68				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 11 **Autosampler Location: 11**
Sample ID: MB 32817 (167) **Date Collected: 6/2/2014 4:42:36 PM**
Analyst: **Data Type: Original**

Replicate Data: MB 32817 (167)

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.043	0.043	-0.0001	-0.0004	0.0001	16:43:22	Yes
2	0.062	0.062	0.0001	0.0013	0.0002	16:43:55	Yes
Mean:	0.052	0.052	0.0000				
SD:	0.014	0.014	0.0001				
%RSD:	26.13	26.13	836.35				

Sequence No.: 12 **Autosampler Location: 12**
Sample ID: LCS 32817 **Date Collected: 6/2/2014 4:43:56 PM**
Analyst: **Data Type: Original**

Replicate Data: LCS 32817

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	48.30	48.30	0.3254	1.3788	0.3256	16:44:41	Yes
	Sample concentration is greater than that of the highest standard.						
2	45.73	45.73	0.3081	1.3099	0.3082	16:45:14	Yes

Sample concentration is greater than that of the highest standard.

Mean:	47.01	47.01	0.3168
SD:	1.819	1.819	0.0123
%RSD:	3.868	3.868	3.87

Sample concentration is greater than that of the highest standard.

Sequence No.: 13 **Autosampler Location: 13**
Sample ID: LCS MR 32817 **Date Collected: 6/2/2014 4:45:15 PM**
Analyst: **Data Type: Original**

Replicate Data: LCS MR 32817

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	50.98	50.98	0.3435	1.4739	0.3437	16:46:00	Yes
	Sample concentration is greater than that of the highest standard.						
2	48.25	48.25	0.3251	1.3941	0.3252	16:46:33	Yes
	Sample concentration is greater than that of the highest standard.						
Mean:	49.61	49.61	0.3343				
SD:	1.932	1.932	0.0130				
%RSD:	3.893	3.893	3.90				

Sample concentration is greater than that of the highest standard.

Sequence No.: 14 **Autosampler Location: 14**
Sample ID: LCS 5D **Date Collected: 6/2/2014 4:46:34 PM**
Analyst: **Data Type: Original**

Replicate Data: LCS 5D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.15	10.15	0.0681	0.2831	0.0683	16:47:19	Yes
2	10.05	10.05	0.0674	0.2795	0.0676	16:47:51	Yes
Mean:	10.10	10.10	0.0678				
SD:	0.073	0.073	0.0005				
%RSD:	0.720	0.720	0.72				

Sequence No.: 15 **Autosampler Location: 15**
Sample ID: ~~LCSD 5D~~ LCS MR 5D 06/02/14 **Date Collected: 6/2/2014 4:47:53 PM**
Analyst: **Data Type: Original**

Replicate Data: ~~LCSD 5D~~ LCS MR 5D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.37	10.37	0.0696	0.2889	0.0698	16:48:38	Yes
2	10.28	10.28	0.0690	0.2848	0.0692	16:49:10	Yes
Mean:	10.33	10.33	0.0693				
SD:	0.066	0.066	0.0004				
%RSD:	0.638	0.638	0.64				

Sequence No.: 16 **Autosampler Location: 37**
Sample ID: 78787-015 2D **Date Collected: 6/2/2014 4:49:11 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-015 2D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	13.55	13.55	0.0911	0.3781	0.0912	16:50:00	Yes
2	13.66	13.66	0.0918	0.3815	0.0919	16:50:32	Yes
Mean:	13.60	13.60	0.0914				
SD:	0.073	0.073	0.0005				
%RSD:	0.533	0.533	0.54				

Sequence No.: 17 **Autosampler Location: 38**
Sample ID: 78787-015 MR 2D **Date Collected: 6/2/2014 4:50:33 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-015 MR 2D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	13.12	13.12	0.0881	0.3663	0.0883	16:51:19	Yes
2	13.14	13.14	0.0883	0.3598	0.0885	16:51:51	Yes
Mean:	13.13	13.13	0.0882				
SD:	0.018	0.018	0.0001				
%RSD:	0.136	0.136	0.14				

==========

Sequence No.: 18 Autosampler Location: 39
Sample ID: 78787-015 MS1 2D Date Collected: 6/2/2014 4:51:52 PM
Analyst: Data Type: Original

Replicate Data: 78787-015 MS1 2D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	17.28	17.28	0.1162	0.4832	0.1164	16:52:38	Yes
2	17.05	17.05	0.1147	0.4744	0.1148	16:53:10	Yes
Mean:	17.17	17.17	0.1154				
SD:	0.162	0.162	0.0011				
%RSD:	0.945	0.945	0.95				

==========

Sequence No.: 19 Autosampler Location: 40
Sample ID: 78787015 MS2 2D Date Collected: 6/2/2014 4:53:11 PM
Analyst: Data Type: Original

Replicate Data: 78787015 MS2 2D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	14.02	14.02	0.0942	0.3919	0.0944	16:53:56	Yes
2	14.03	14.03	0.0943	0.3904	0.0944	16:54:29	Yes
Mean:	14.02	14.02	0.0943				
SD:	0.001	0.001	0.0000				
%RSD:	0.006	0.006	0.01				

==========

Sequence No.: 20 Autosampler Location: 41
Sample ID: 78787-001 20D Date Collected: 6/2/2014 4:54:30 PM
Analyst: Data Type: Original

Replicate Data: 78787-001 20D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	39.17	39.17	0.2639	1.1224	0.2640	16:55:15	Yes
Sample concentration is greater than that of the highest standard.							
2	39.40	39.40	0.2654	1.1206	0.2655	16:55:48	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	39.28	39.28	0.2646				
SD:	0.160	0.160	0.0011				
%RSD:	0.407	0.407	0.41				
Sample concentration is greater than that of the highest standard.							

==========

Sequence No.: 21 Autosampler Location: 9
Sample ID: CCV Date Collected: 6/2/2014 4:55:49 PM
Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.648	9.648	0.0647	0.2660	0.0649	16:56:37	Yes
2	8.629	8.629	0.0579	0.2361	0.0580	16:57:10	Yes
Mean:	9.138	9.138	0.0613				
SD:	0.720	0.720	0.0049				
%RSD:	7.880	7.880	7.92				

QC value within limits for Hg 253.7 Recovery = 91.38%
All analyte(s) passed QC.

==========

Sequence No.: 22 Autosampler Location: 1
Sample ID: CCB Date Collected: 6/2/2014 4:57:11 PM

Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.054	0.054	0.0000	0.0000	0.0002	16:57:57	Yes
2	0.061	0.061	0.0001	0.0005	0.0002	16:58:29	Yes
Mean:	0.058	0.058	0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	7.631	7.631	65.64				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 23 Autosampler Location: 21
Sample ID: 78787-002 Date Collected: 6/2/2014 4:58:30 PM
Analyst: Data Type: Original

Replicate Data: 78787-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	19.81	19.81	0.1333	0.5577	0.1334	16:59:17	Yes
2	19.79	19.79	0.1331	0.5555	0.1333	16:59:50	Yes
Mean:	19.80	19.80	0.1332				
SD:	0.012	0.012	0.0001				
%RSD:	0.060	0.060	0.06				

Sequence No.: 24 Autosampler Location: 41
Sample ID: 78787-001 40D Date Collected: 6/2/2014 4:59:51 PM
Analyst: Data Type: Original

Replicate Data: 78787-001 40D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	20.81	20.81	0.1400	0.5890	0.1402	17:00:37	Yes
2	20.92	20.92	0.1408	0.5866	0.1409	17:01:10	Yes
Mean:	20.87	20.87	0.1404				
SD:	0.080	0.080	0.0005				
%RSD:	0.384	0.384	0.39				

Sequence No.: 25 Autosampler Location: 42
Sample ID: 78787-007 20D Date Collected: 6/2/2014 5:01:11 PM
Analyst: Data Type: Original

Replicate Data: 78787-007 20D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	21.72	21.72	0.1462	0.6145	0.1463	17:01:56	Yes
2	21.70	21.70	0.1460	0.6105	0.1462	17:02:29	Yes
Mean:	21.71	21.71	0.1461				
SD:	0.017	0.017	0.0001				
%RSD:	0.077	0.077	0.08				

Sequence No.: 26 Autosampler Location: 23
Sample ID: 78787-008 Date Collected: 6/2/2014 5:02:30 PM
Analyst: Data Type: Original

Replicate Data: 78787-008

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.985	4.985	0.0333	0.1377	0.0334	17:03:17	Yes
2	4.981	4.981	0.0333	0.1358	0.0334	17:03:49	Yes
Mean:	4.983	4.983	0.0333				
SD:	0.003	0.003	0.0000				
%RSD:	0.060	0.060	0.06				

Sequence No.: 27 Autosampler Location: 43

Sample ID: 78787-014 2D
Analyst:
Date Collected: 6/2/2014 5:03:50 PM
Data Type: Original

Replicate Data: 78787-014 2D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	18.50	18.50	0.1244	0.5195	0.1246	17:04:38	Yes
2	18.59	18.59	0.1250	0.5190	0.1252	17:05:10	Yes
Mean:	18.54	18.54	0.1247				
SD:	0.061	0.061	0.0004				
%RSD:	0.330	0.330	0.33				

Sequence No.: 28
Autosampler Location: 25
Sample ID: 78787-018
Date Collected: 6/2/2014 5:05:11 PM
Analyst:
Data Type: Original

Replicate Data: 78787-018

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.372	0.372	0.0022	0.0081	0.0023	17:05:58	Yes
2	0.374	0.374	0.0022	0.0098	0.0023	17:06:30	Yes
Mean:	0.373	0.373	0.0022				
SD:	0.001	0.001	0.0000				
%RSD:	0.234	0.234	0.27				

Sequence No.: 29
Autosampler Location: 26
Sample ID: 78787-019
Date Collected: 6/2/2014 5:06:31 PM
Analyst:
Data Type: Original

Replicate Data: 78787-019

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.982	0.982	0.0063	0.0261	0.0064	17:07:17	Yes
2	0.968	0.968	0.0062	0.0256	0.0063	17:07:49	Yes
Mean:	0.975	0.975	0.0062				
SD:	0.010	0.010	0.0001				
%RSD:	1.039	1.039	1.10				

Sequence No.: 30
Autosampler Location: 27
Sample ID: 78787-020
Date Collected: 6/2/2014 5:07:50 PM
Analyst:
Data Type: Original

Replicate Data: 78787-020

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.557	0.557	0.0034	0.0145	0.0036	17:08:35	Yes
2	0.544	0.544	0.0033	0.0145	0.0035	17:09:08	Yes
Mean:	0.551	0.551	0.0034				
SD:	0.009	0.009	0.0001				
%RSD:	1.586	1.586	1.75				

Sequence No.: 31
Autosampler Location: 44
Sample ID: 78787-021 2D
Date Collected: 6/2/2014 5:09:09 PM
Analyst:
Data Type: Original

Replicate Data: 78787-021 2D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.479	9.479	0.0636	0.2636	0.0638	17:09:55	Yes
2	9.418	9.418	0.0632	0.2615	0.0633	17:10:27	Yes
Mean:	9.449	9.449	0.0634				
SD:	0.043	0.043	0.0003				
%RSD:	0.459	0.459	0.46				

Sequence No.: 32
Autosampler Location: 29
Sample ID: 78787-022
Date Collected: 6/2/2014 5:10:28 PM

Analyst: Data Type: Original

Replicate Data: 78787-022

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.882	5.882	0.0393	0.1633	0.0395	17:11:17	Yes
2	5.812	5.812	0.0389	0.1602	0.0390	17:11:49	Yes
Mean:	5.847	5.847	0.0391				
SD:	0.050	0.050	0.0003				
%RSD:	0.847	0.847	0.85				

==========

Sequence No.: 33 Autosampler Location: 9
Sample ID: CCV Date Collected: 6/2/2014 5:11:50 PM
Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	8.651	8.651	0.0580	0.2414	0.0582	17:12:37	Yes
2	8.472	8.472	0.0568	0.2341	0.0570	17:13:09	Yes
Mean:	8.561	8.561	0.0574				
SD:	0.126	0.126	0.0009				
%RSD:	1.477	1.477	1.49				

QC value less than the lower limit for Hg 253.7 Recovery = 85.61%
QC Failed. Continue with analysis.

==========

Sequence No.: 34 Autosampler Location: 1
Sample ID: CCB Date Collected: 6/2/2014 5:13:15 PM
Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.062	0.062	0.0001	0.0005	0.0002	17:14:01	Yes

User canceled analysis.

H163170C

4052101 1787

1st Review at 06/02/2014 V-187834

Analysis Begun

Logged In Analyst: usermet
Spectrometer Model: FIMS-100, S/N B050-9550

Technique: AA FIMS-MHS
Autosampler Model: AS-90

6/3/14

Sample Information File: C:\data-AA\johns\Sample Information\H16379Sc.sif
Batch ID: H16379S
Results Data Set: H16379Sc
Results Library: C:\data-AA\johns\Results\Results.mdb

Method Loaded
Method Name: HGCV2 Soil (7471B)
Method Last Saved: 4/15/2014 2:16:12 PM
Method Description: HgCV2 Soil (7471B)

Sequence No.: 1
Sample ID: Calibration Blank
Analyst:

Autosampler Location: 1
Date Collected: 6/2/2014 6:09:07 PM
Data Type: Original

Replicate Data: Calibration Blank

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0004	0.0018	0.0004	18:09:54	Yes
2		[0.00]	0.0003	0.0012	0.0003	18:10:26	Yes
Mean:		[0.00]	0.0003				
SD:		0.00	0.0000				
%RSD:		0.00	14.67				

Auto-zero performed.

Sequence No.: 2
Sample ID: .2 PPB
Analyst:

Autosampler Location: 2
Date Collected: 6/2/2014 6:10:28 PM
Data Type: Original

Replicate Data: .2 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0010	0.0066	0.0013	18:11:13	Yes
2		[0.2]	0.0009	0.0053	0.0012	18:11:45	Yes
Mean:		[0.2]	0.0009				
SD:		0.0	0.0001				
%RSD:		0.0	6.47				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00464 Intercept: 0.00000

Sequence No.: 3
Sample ID: .5 PPB
Analyst:

Autosampler Location: 3
Date Collected: 6/2/2014 6:11:47 PM
Data Type: Original

Replicate Data: .5 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0032	0.0173	0.0035	18:12:32	Yes
2		[0.5]	0.0031	0.0162	0.0034	18:13:04	Yes
Mean:		[0.5]	0.0031				
SD:		0.0	0.0001				
%RSD:		0.0	2.31				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.993162 Slope: 0.00637 Intercept: -0.00013

Sequence No.: 4
Sample ID: 1 PPB
Analyst:

Autosampler Location: 4
Date Collected: 6/2/2014 6:13:05 PM
Data Type: Original

Replicate Data: 1 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	[1]	0.0062	0.0304	0.0065	18:13:51	Yes
2	[1]	0.0062	0.0301	0.0065	18:14:23	Yes
Mean:	[1]	0.0062				
SD:	0	0.0000				
%RSD:	0	0.04				

Standard number 3 applied. [1]
Correlation Coef.: 0.998433 Slope: 0.00633 Intercept: -0.00012

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: 2 PPB **Date Collected: 6/2/2014 6:14:25 PM**
Analyst: **Data Type: Original**

Replicate Data: 2 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2]	0.0133	0.0621	0.0136	18:15:10	Yes
2		[2]	0.0132	0.0617	0.0135	18:15:43	Yes
Mean:		[2]	0.0132				
SD:		0	0.0000				
%RSD:		0	0.32				

Standard number 4 applied. [2]
Correlation Coef.: 0.999304 Slope: 0.00667 Intercept: -0.00024

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: 5 PPB **Date Collected: 6/2/2014 6:15:44 PM**
Analyst: **Data Type: Original**

Replicate Data: 5 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0332	0.1565	0.0336	18:16:29	Yes
2		[5]	0.0326	0.1537	0.0330	18:17:02	Yes
Mean:		[5]	0.0329				
SD:		0	0.0004				
%RSD:		0	1.31				

Standard number 5 applied. [5]
Correlation Coef.: 0.999896 Slope: 0.00664 Intercept: -0.00022

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: 10 PPB **Date Collected: 6/2/2014 6:17:03 PM**
Analyst: **Data Type: Original**

Replicate Data: 10 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.0659	0.3068	0.0662	18:17:48	Yes
2		[10]	0.0639	0.2980	0.0643	18:18:20	Yes
Mean:		[10]	0.0649				
SD:		0	0.0014				
%RSD:		0	2.09				

Standard number 6 applied. [10]
Correlation Coef.: 0.999933 Slope: 0.00652 Intercept: -0.00009

Sequence No.: 8 **Autosampler Location: 8**
Sample ID: 25 PPB **Date Collected: 6/2/2014 6:18:22 PM**
Analyst: **Data Type: Original**

Replicate Data: 25 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[25]	0.1583	0.7465	0.1587	18:19:07	Yes
2		[25]	0.1558	0.7356	0.1562	18:19:39	Yes
Mean:		[25]	0.1571				
SD:		0	0.0018				
%RSD:		0	1.13				

Standard number 7 applied. [25]
Correlation Coef.: 0.999874 Slope: 0.00630 Intercept: 0.00039

Calibration data for Hg 253.7 Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calibration Blank	0.0000	0	-0.062	0.00	14.7
.2 PPB	0.0009	0.2	0.086	0.00	6.5
.5 PPB	0.0031	0.5	0.437	0.00	2.3
1 PPB	0.0062	1.0	0.922	0.00	0.0
2 PPB	0.0132	2.0	2.038	0.00	0.3
5 PPB	0.0329	5.0	5.167	0.00	1.3
10 PPB	0.0649	10.0	10.239	0.00	2.1
25 PPB	0.1571	25.0	24.873	0.00	1.1

Correlation Coef.: 0.999874 Slope: 0.00630 Intercept: 0.00039

Sequence No.: 9 Autosampler Location: 10
Sample ID: ICV (2) Date Collected: 6/2/2014 6:19:41 PM
Analyst: Data Type: Original

Replicate Data: ICV (2)

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	20.58	20.58	0.1300	0.6128	0.1304	18:20:29	Yes
2	20.39	20.39	0.1288	0.6003	0.1292	18:21:02	Yes
Mean:	20.48	20.48	0.1294				
SD:	0.134	0.134	0.0008				
%RSD:	0.653	0.653	0.65				

QC value within limits for Hg 253.7 Recovery = 102.42%
All analyte(s) passed QC.

Sequence No.: 10 Autosampler Location: 1
Sample ID: ICB Date Collected: 6/2/2014 6:21:03 PM
Analyst: Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.097	-0.097	-0.0002	-0.0008	0.0001	18:21:49	Yes
2	-0.088	-0.088	-0.0002	0.0009	0.0002	18:22:21	Yes
Mean:	-0.092	-0.092	-0.0002				
SD:	0.007	0.007	0.0000				
%RSD:	7.164	7.164	21.68				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 11 Autosampler Location: 41
Sample ID: 78787-001 40D Date Collected: 6/2/2014 6:22:23 PM
Analyst: Data Type: Original

Replicate Data: 78787-001 40D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	21.65	21.65	0.1368	0.6456	0.1371	18:23:12	Yes
2	21.17	21.17	0.1338	0.6285	0.1341	18:23:44	Yes
Mean:	21.41	21.41	0.1353				
SD:	0.336	0.336	0.0021				
%RSD:	1.568	1.568	1.56				

Sequence No.: 12 Autosampler Location: 21
Sample ID: 78787-002 Date Collected: 6/2/2014 6:23:45 PM
Analyst: Data Type: Original

Replicate Data: 78787-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	20.72	20.72	0.1309	0.6172	0.1312	18:24:32	Yes
2	20.52	20.52	0.1296	0.6031	0.1300	18:25:05	Yes
Mean:	20.62	20.62	0.1303				

SD:	0.140	0.140	0.0009
%RSD:	0.677	0.677	0.68

==========

Sequence No.: 13 **Autosampler Location: 42**
Sample ID: 78787-007 20D **Date Collected: 6/2/2014 6:25:06 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-007 20D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	22.29	22.29	0.1408	0.6614	0.1411	18:25:54	Yes
2	22.44	22.44	0.1418	0.6586	0.1421	18:26:26	Yes
Mean:	22.36	22.36	0.1413				
SD:	0.112	0.112	0.0007				
%RSD:	0.502	0.502	0.50				

==========

Sequence No.: 14 **Autosampler Location: 23**
Sample ID: 78787-008 **Date Collected: 6/2/2014 6:26:27 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-008

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.140	5.140	0.0328	0.1513	0.0331	18:27:14	Yes
2	5.126	5.126	0.0327	0.1500	0.0330	18:27:46	Yes
Mean:	5.133	5.133	0.0327				
SD:	0.010	0.010	0.0001				
%RSD:	0.198	0.198	0.20				

==========

Sequence No.: 15 **Autosampler Location: 43**
Sample ID: 78787-014 2D **Date Collected: 6/2/2014 6:27:47 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-014 2D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	19.02	19.02	0.1202	0.5637	0.1206	18:28:34	Yes
2	19.51	19.51	0.1233	0.5752	0.1237	18:29:07	Yes
Mean:	19.27	19.27	0.1218				
SD:	0.348	0.348	0.0022				
%RSD:	1.805	1.805	1.80				

==========

Sequence No.: 16 **Autosampler Location: 25**
Sample ID: 78787-018 **Date Collected: 6/2/2014 6:29:08 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-018

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.238	0.238	0.0019	0.0104	0.0022	18:29:54	Yes
2	0.261	0.261	0.0020	0.0114	0.0024	18:30:27	Yes
Mean:	0.250	0.250	0.0020				
SD:	0.016	0.016	0.0001				
%RSD:	6.261	6.261	5.02				

==========

Sequence No.: 17 **Autosampler Location: 26**
Sample ID: 78787-019 **Date Collected: 6/2/2014 6:30:28 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-019

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.909	0.909	0.0061	0.0299	0.0064	18:31:13	Yes
2	0.890	0.890	0.0060	0.0294	0.0063	18:31:46	Yes
Mean:	0.899	0.899	0.0061				
SD:	0.013	0.013	0.0001				

%RSD: 1.482 1.482 1.39

Sequence No.: 18
Sample ID: 78787-020
Analyst:
Autosampler Location: 27
Date Collected: 6/2/2014 6:31:47 PM
Data Type: Original

Replicate Data: 78787-020

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.430	0.430	0.0031	0.0159	0.0034	18:32:32	Yes
2	0.425	0.425	0.0031	0.0156	0.0034	18:33:05	Yes
Mean:	0.428	0.428	0.0031				
SD:	0.003	0.003	0.0000				
%RSD:	0.809	0.809	0.71				

Sequence No.: 19
Sample ID: 78787-021 2D
Analyst:
Autosampler Location: 44
Date Collected: 6/2/2014 6:33:06 PM
Data Type: Original

Replicate Data: 78787-021 2D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.644	9.644	0.0611	0.2884	0.0615	18:33:52	Yes
2	9.635	9.635	0.0611	0.2823	0.0614	18:34:24	Yes
Mean:	9.639	9.639	0.0611				
SD:	0.006	0.006	0.0000				
%RSD:	0.063	0.063	0.06				

Sequence No.: 20
Sample ID: 78787-022
Analyst:
Autosampler Location: 29
Date Collected: 6/2/2014 6:34:25 PM
Data Type: Original

Replicate Data: 78787-022

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.040	6.040	0.0384	0.1795	0.0388	18:35:13	Yes
2	5.956	5.956	0.0379	0.1758	0.0382	18:35:46	Yes
Mean:	5.998	5.998	0.0382				
SD:	0.060	0.060	0.0004				
%RSD:	0.998	0.998	0.99				

Sequence No.: 21
Sample ID: CCV
Analyst:
Autosampler Location: 9
Date Collected: 6/2/2014 6:35:47 PM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.56	10.56	0.0669	0.3099	0.0672	18:36:33	Yes
2	10.59	10.59	0.0671	0.3101	0.0674	18:37:06	Yes
Mean:	10.57	10.57	0.0670				
SD:	0.021	0.021	0.0001				
%RSD:	0.201	0.201	0.20				

QC value within limits for Hg 253.7 Recovery = 105.71%
All analyte(s) passed QC.

Sequence No.: 22
Sample ID: CCB
Analyst:
Autosampler Location: 1
Date Collected: 6/2/2014 6:37:07 PM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.090	-0.090	-0.0002	0.0004	0.0001	18:37:52	Yes
2	-0.103	-0.103	-0.0003	-0.0001	0.0001	18:38:25	Yes
Mean:	-0.097	-0.097	-0.0002				

SD:	0.009	0.009	0.0001
%RSD:	9.329	9.329	25.79

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 23 **Autosampler Location: 28**
Sample ID: 78787-021 **Date Collected: 6/2/2014 6:38:26 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-021

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	19.79	19.79	0.1251	0.5840	0.1254	18:39:13	Yes
2	19.21	19.21	0.1214	0.5656	0.1218	18:39:45	Yes
Mean:	19.50	19.50	0.1233				
SD:	0.408	0.408	0.0026				
%RSD:	2.092	2.092	2.09				

==========

Sequence No.: 24 **Autosampler Location: 30**
Sample ID: 78787-023 **Date Collected: 6/2/2014 6:39:46 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-023

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.518	0.518	0.0037	0.0178	0.0040	18:40:32	Yes
2	0.495	0.495	0.0035	0.0178	0.0038	18:41:05	Yes
Mean:	0.507	0.507	0.0036				
SD:	0.017	0.017	0.0001				
%RSD:	3.258	3.258	2.90				

==========

Sequence No.: 25 **Autosampler Location: 31**
Sample ID: 78787-024 **Date Collected: 6/2/2014 6:41:06 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-024

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.217	0.217	0.0018	0.0094	0.0021	18:41:51	Yes
2	0.203	0.203	0.0017	0.0084	0.0020	18:42:24	Yes
Mean:	0.210	0.210	0.0017				
SD:	0.010	0.010	0.0001				
%RSD:	4.744	4.744	3.66				

==========

Sequence No.: 26 **Autosampler Location: 32**
Sample ID: 78787-025 **Date Collected: 6/2/2014 6:42:25 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-025

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.888	0.888	0.0060	0.0291	0.0063	18:43:10	Yes
2	0.857	0.857	0.0058	0.0281	0.0061	18:43:42	Yes
Mean:	0.872	0.872	0.0059				
SD:	0.022	0.022	0.0001				
%RSD:	2.551	2.551	2.38				

==========

Sequence No.: 27 **Autosampler Location: 33**
Sample ID: 78787-026 **Date Collected: 6/2/2014 6:43:44 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-026

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.170	0.170	0.0015	0.0085	0.0018	18:44:29	Yes
2	0.148	0.148	0.0013	0.0073	0.0017	18:45:01	Yes

Mean:	0.159	0.159	0.0014
SD:	0.015	0.015	0.0001
%RSD:	9.647	9.647	6.94

==========

Sequence No.: 28 **Autosampler Location: 34**
Sample ID: 78793-002 **Date Collected: 6/2/2014 6:45:03 PM**
Analyst: **Data Type: Original**

Replicate Data: 78793-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.050	0.050	0.0007	0.0038	0.0010	18:45:48	Yes
2	0.048	0.048	0.0007	0.0043	0.0010	18:46:20	Yes
Mean:	0.049	0.049	0.0007				
SD:	0.001	0.001	0.0000				
%RSD:	2.653	2.653	1.17				

==========

Sequence No.: 29 **Autosampler Location: 35**
Sample ID: 78790-001 **Date Collected: 6/2/2014 6:46:21 PM**
Analyst: **Data Type: Original**

Replicate Data: 78790-001

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.055	-0.055	0.0000	0.0018	0.0004	18:47:07	Yes
2	-0.055	-0.055	0.0000	0.0016	0.0004	18:47:39	Yes
Mean:	-0.055	-0.055	0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	0.267	0.267	2.27				

==========

Sequence No.: 30 **Autosampler Location: 36**
Sample ID: 78790-002 **Date Collected: 6/2/2014 6:47:40 PM**
Analyst: **Data Type: Original**

Replicate Data: 78790-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.015	0.015	0.0005	0.0043	0.0008	18:48:26	Yes
2	-0.001	-0.001	0.0004	0.0029	0.0007	18:48:58	Yes
Mean:	0.007	0.007	0.0004				
SD:	0.011	0.011	0.0001				
%RSD:	159.5	159.5	16.53				

==========

Sequence No.: 31 **Autosampler Location: 9**
Sample ID: CCV **Date Collected: 6/2/2014 6:48:59 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.58	10.58	0.0670	0.3112	0.0673	18:49:49	Yes
2	10.62	10.62	0.0673	0.3108	0.0676	18:50:21	Yes
Mean:	10.60	10.60	0.0672				
SD:	0.032	0.032	0.0002				
%RSD:	0.301	0.301	0.30				

QC value within limits for Hg 253.7 Recovery = 105.99%
All analyte(s) passed QC.

==========

Sequence No.: 32 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/2/2014 6:50:22 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.106	-0.106	-0.0003	-0.0009	0.0001	18:51:08	Yes

2	-0.099	-0.099	-0.0002	0.0002	0.0001	18:51:40	Yes
Mean:	-0.102	-0.102	-0.0003				
SD:	0.005	0.005	0.0000				
%RSD:	4.990	4.990	12.60				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

H16379S Reason for dilution 4052101 1795

Method: HGCV2 Soil (7471B) Page 1 Date: 6/2/2014 3:24:57 PM

1st Review OK 06/02/2014 Y-187834

Analysis Begun

Logged In Analyst: usermet
Technique: AA FIMS-MHS
Spectrometer Model: FIMS-100, S/N B050-9550
Autosampler Model: AS-90

Sample Information File: C:\data-AA\johns\Sample Information\H16379S.sif
Batch ID: H16379S
Results Data Set: H16379S
Results Library: C:\data-AA\johns\Results\Results.mdb

Method Loaded
Method Name: HGCV2 Soil (7471B)
Method Last Saved: 4/15/2014 2:16:12 PM
Method Description: HgCV2 Soil (7471B)

Sequence No.: 1
Autosampler Location: 1
Sample ID: Calibration Blank
Date Collected: 6/2/2014 3:20:12 PM
Analyst:
Data Type: Original

Replicate Data: Calibration Blank

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0001	-0.0003	0.0001	15:20:59	Yes
2		[0.00]	0.0000	-0.0005	0.0000	15:21:31	Yes
Mean:		[0.00]	0.0000				
SD:		0.00	0.0000				
%RSD:		0.00	62.25				

Auto-zero performed.

Sequence No.: 2
Autosampler Location: 2
Sample ID: .2 PPB
Date Collected: 6/2/2014 3:21:32 PM
Analyst:
Data Type: Original

Replicate Data: .2 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0016	0.0069	0.0016	15:22:18	Yes
2		[0.2]	0.0016	0.0068	0.0016	15:22:50	Yes
Mean:		[0.2]	0.0016				
SD:		0.0	0.0000				
%RSD:		0.0	2.40				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00789 Intercept: 0.00000

Sequence No.: 3
Autosampler Location: 3
Sample ID: .5 PPB
Date Collected: 6/2/2014 3:22:51 PM
Analyst:
Data Type: Original

Replicate Data: .5 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0034	0.0144	0.0034	15:23:37	Yes
2		[0.5]	0.0032	0.0127	0.0033	15:24:09	Yes
Mean:		[0.5]	0.0033				
SD:		0.0	0.0001				
%RSD:		0.0	3.84				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.995962 Slope: 0.00653 Intercept: 0.00010

Sequence No.: 4
Autosampler Location: 4
Sample ID: 1 PPB
Date Collected: 6/2/2014 3:24:10 PM
Analyst:
Data Type: Original

Replicate Data: 1 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	[1]	0.0068	0.0279	0.0069	15:24:56	Yes
2	[1]	0.0070	0.0292	0.0071	15:25:28	Yes
Mean:	[1]	0.0069				
SD:	0	0.0001				
%RSD:	0	1.86				

Standard number 3 applied. [1]
Correlation Coef.: 0.998909 Slope: 0.00682 Intercept: 0.00005

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: 2 PPB **Date Collected: 6/2/2014 3:25:29 PM**
Analyst: **Data Type: Original**

Replicate Data: 2 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2]	0.0115	0.0477	0.0116	15:26:15	Yes
2		[2]	0.0113	0.0461	0.0114	15:26:47	Yes
Mean:		[2]	0.0114				
SD:		0	0.0002				
%RSD:		0	1.44				

Standard number 4 applied. [2]
Correlation Coef.: 0.994196 Slope: 0.00570 Intercept: 0.00043

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: 5 PPB **Date Collected: 6/2/2014 3:26:48 PM**
Analyst: **Data Type: Original**

Replicate Data: 5 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0287	0.1178	0.0288	15:27:34	Yes
2		[5]	0.0277	0.1141	0.0278	15:28:06	Yes
Mean:		[5]	0.0282				
SD:		0	0.0007				
%RSD:		0	2.48				

Standard number 5 applied. [5]
Correlation Coef.: 0.999056 Slope: 0.00556 Intercept: 0.00051

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: 10 PPB **Date Collected: 6/2/2014 3:28:07 PM**
Analyst: **Data Type: Original**

Replicate Data: 10 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.0572	0.2337	0.0573	15:28:53	Yes
2		[10]	0.0547	0.2225	0.0547	15:29:25	Yes
Mean:		[10]	0.0560				
SD:		0	0.0018				
%RSD:		0	3.24				

Standard number 6 applied. [10]
Correlation Coef.: 0.999790 Slope: 0.00555 Intercept: 0.00053

Sequence No.: 8 **Autosampler Location: 8**
Sample ID: 25 PPB **Date Collected: 6/2/2014 3:29:26 PM**
Analyst: **Data Type: Original**

Replicate Data: 25 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[25]	0.1501	0.6153	0.1501	15:30:11	Yes
2		[25]	0.1483	0.6096	0.1484	15:30:44	Yes
Mean:		[25]	0.1492				
SD:		0	0.0012				
%RSD:		0	0.83				

Standard number 7 applied. [25]
Correlation Coef.: 0.999594 Slope: 0.00592 Intercept: -0.00029

Calibration data for Hg 253.7 Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calibration Blank	0.0000	0	0.048	0.00	62.3
.2 PPB	0.0016	0.2	0.315	0.00	2.4
.5 PPB	0.0033	0.5	0.606	0.00	3.8
1 PPB	0.0069	1.0	1.217	0.00	1.9
2 PPB	0.0114	2.0	1.978	0.00	1.4
5 PPB	0.0282	5.0	4.814	0.00	2.5
10 PPB	0.0560	10.0	9.492	0.00	3.2
25 PPB	0.1492	25.0	25.230	0.00	0.8

Correlation Coef.: 0.999594 Slope: 0.00592 Intercept: -0.00029

Sequence No.: 9 Autosampler Location: 10
Sample ID: ICV (2) Date Collected: 6/2/2014 3:30:45 PM
Analyst: Data Type: Original

Replicate Data: ICV (2)

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	19.72	19.72	0.1165	0.4815	0.1166	15:31:34	Yes
2	19.46	19.46	0.1150	0.4769	0.1151	15:32:06	Yes
Mean:	19.59	19.59	0.1158				
SD:	0.178	0.178	0.0011				
%RSD:	0.906	0.906	0.91				

QC value within limits for Hg 253.7 Recovery = 97.95%
All analyte(s) passed QC.

Sequence No.: 10 Autosampler Location: 1
Sample ID: ICB Date Collected: 6/2/2014 3:32:07 PM
Analyst: Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.053	0.053	0.0000	-0.0008	0.0001	15:32:53	Yes
2	0.074	0.074	0.0002	0.0011	0.0002	15:33:25	Yes
Mean:	0.064	0.064	0.0001				
SD:	0.015	0.015	0.0001				
%RSD:	23.71	23.71	99.38				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 11 Autosampler Location: 11
Sample ID: MB 32817 (167) Date Collected: 6/2/2014 3:33:26 PM
Analyst: Data Type: Original

Replicate Data: MB 32817 (167)

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.066	0.066	0.0001	0.0006	0.0001	15:34:13	Yes
2	0.065	0.065	0.0001	0.0000	0.0001	15:34:45	Yes
Mean:	0.065	0.065	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	0.914	0.914	3.57				

Sequence No.: 12 Autosampler Location: 12
Sample ID: LCS 32817 Date Collected: 6/2/2014 3:34:46 PM
Analyst: Data Type: Original

Replicate Data: LCS 32817

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	50.77	50.77	0.3005	1.2743	0.3006	15:35:32	Yes
	Sample concentration is greater than that of the highest standard.						
2	50.75	50.75	0.3004	1.2713	0.3005	15:36:04	Yes

Sample concentration is greater than that of the highest standard.

Mean:	50.76	50.76	0.3005
SD:	0.015	0.015	0.0001
%RSD:	0.029	0.029	0.03

Sample concentration is greater than that of the highest standard.

Sequence No.: 13 **Autosampler Location: 13**
Sample ID: LCS MR 32817 **Date Collected: 6/2/2014 3:36:28 PM**
Analyst: **Data Type: Original**

Replicate Data: LCS MR 32817

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	55.82	55.82	0.3305	1.4094	0.3305	15:37:15	Yes
	Sample concentration is greater than that of the highest standard.						
2	54.50	54.50	0.3226	1.3749	0.3227	15:37:48	Yes
	Sample concentration is greater than that of the highest standard.						
Mean:	55.16	55.16	0.3265				
SD:	0.935	0.935	0.0055				
%RSD:	1.694	1.694	1.70				

Sample concentration is greater than that of the highest standard.

Sequence No.: 14 **Autosampler Location: 14**
Sample ID: LCS 5D **Date Collected: 6/2/2014 3:38:11 PM**
Analyst: **Data Type: Original**

Replicate Data: LCS 5D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	11.69	11.69	0.0690	0.2879	0.0690	15:39:00	Yes
2	11.68	11.68	0.0689	0.2858	0.0689	15:39:32	Yes
Mean:	11.68	11.68	0.0689				
SD:	0.009	0.009	0.0001				
%RSD:	0.080	0.080	0.08				

Sequence No.: 15 **Autosampler Location: 15**
Sample ID: LCSD 5D **Date Collected: 6/2/2014 3:39:33 PM**
Analyst: **Data Type: Original**

Replicate Data: LCSD 5D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	11.79	11.79	0.0696	0.2905	0.0696	15:40:18	Yes
2	11.78	11.78	0.0695	0.2868	0.0696	15:40:51	Yes
Mean:	11.79	11.79	0.0696				
SD:	0.010	0.010	0.0001				
%RSD:	0.082	0.082	0.08				

Sequence No.: 16 **Autosampler Location: 16**
Sample ID: 78787-015 **Date Collected: 6/2/2014 3:40:52 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-015

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	26.47	26.47	0.1565	0.6580	0.1566	15:41:37	Yes
2	26.38	26.38	0.1560	0.6502	0.1561	15:42:09	Yes
Mean:	26.43	26.43	0.1563				
SD:	0.060	0.060	0.0004				
%RSD:	0.228	0.228	0.23				

Sequence No.: 17 **Autosampler Location: 17**
Sample ID: 78787-015 MR **Date Collected: 6/2/2014 3:42:11 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-015 MR

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	23.14	23.14	0.1368	0.5727	0.1368	15:42:56	Yes
2	23.04	23.04	0.1362	0.5712	0.1363	15:43:29	Yes
Mean:	23.09	23.09	0.1365				
SD:	0.070	0.070	0.0004				
%RSD:	0.305	0.305	0.31				

==========

Sequence No.: 18 **Autosampler Location: 18**
Sample ID: 78787-015 MS1 **Date Collected: 6/2/2014 3:43:30 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-015 MS1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	27.94	27.94	0.1652	0.6962	0.1653	15:44:15	Yes
Sample concentration is greater than that of the highest standard.							
2	27.75	27.75	0.1641	0.6864	0.1642	15:44:48	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	27.84	27.84	0.1647				
SD:	0.135	0.135	0.0008				
%RSD:	0.485	0.485	0.49				
Sample concentration is greater than that of the highest standard.							

==========

Sequence No.: 19 **Autosampler Location: 19**
Sample ID: 78787015 MS2 **Date Collected: 6/2/2014 3:44:49 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787015 MS2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	27.34	27.34	0.1617	0.6874	0.1617	15:45:38	Yes
2	26.84	26.84	0.1588	0.6710	0.1588	15:46:10	Yes
Mean:	27.09	27.09	0.1602				
SD:	0.348	0.348	0.0021				
%RSD:	1.286	1.286	1.29				

==========

Sequence No.: 20 **Autosampler Location: 20**
Sample ID: 78787-001 **Date Collected: 6/2/2014 3:46:11 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-001

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	196.6	196.6	1.1646	8.1024	1.1647	15:46:56	Yes
Sample concentration is greater than that of the highest standard.							
2	192.8	192.8	1.1420	7.8703	1.1421	15:47:28	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	194.7	194.7	1.1533				
SD:	2.694	2.694	0.0160				
%RSD:	1.384	1.384	1.38				
Sample concentration is greater than that of the highest standard.							

==========

Sequence No.: 21 **Autosampler Location: 9**
Sample ID: CCV **Date Collected: 6/2/2014 3:47:51 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	20.28	20.28	0.1198	0.4964	0.1199	15:48:37	Yes
2	12.98	12.98	0.0766	0.3163	0.0766	15:49:09	Yes
Mean:	16.63	16.63	0.0982				
SD:	5.163	5.163	0.0306				
%RSD:	31.05	31.05	31.14				

QC value greater than the upper limit for Hg 253.7 Recovery = 166.26%
QC Failed. Continue with analysis.

Sequence No.: 22
Sample ID: CCB
Analyst:
Autosampler Location: 1
Date Collected: 6/2/2014 3:49:15 PM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.050	0.050	0.0000	-0.0017	0.0001	15:50:01	Yes
2	0.064	0.064	0.0001	-0.0006	0.0001	15:50:34	Yes
Mean:	0.057	0.057	0.0001				
SD:	0.009	0.009	0.0001				
%RSD:	16.47	16.47	110.90				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 23
Sample ID: 78787-002
Analyst:
Autosampler Location: 21
Date Collected: 6/2/2014 3:50:35 PM
Data Type: Original

Replicate Data: 78787-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	23.17	23.17	0.1370	0.5720	0.1371	15:51:22	Yes
2	22.93	22.93	0.1356	0.5659	0.1356	15:51:54	Yes
Mean:	23.05	23.05	0.1363				
SD:	0.172	0.172	0.0010				
%RSD:	0.747	0.747	0.75				

Sequence No.: 24
Sample ID: 78787-007
Analyst:
Autosampler Location: 22
Date Collected: 6/2/2014 3:51:55 PM
Data Type: Original

Replicate Data: 78787-007

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	176.0	176.0	1.0424	6.1590	1.0425	15:52:41	Yes
	Sample concentration is greater than that of the highest standard.						
2	174.2	174.2	1.0320	6.0363	1.0320	15:53:13	Yes
	Sample concentration is greater than that of the highest standard.						
Mean:	175.1	175.1	1.0372				
SD:	1.242	1.242	0.0074				
%RSD:	0.709	0.709	0.71				

Sample concentration is greater than that of the highest standard.

Sequence No.: 25
Sample ID: 78787-008
Analyst:
Autosampler Location: 23
Date Collected: 6/2/2014 3:53:36 PM
Data Type: Original

Replicate Data: 78787-008

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.746	5.746	0.0338	0.1372	0.0338	15:54:24	Yes
2	5.708	5.708	0.0335	0.1378	0.0336	15:54:56	Yes
Mean:	5.727	5.727	0.0336				
SD:	0.027	0.027	0.0002				
%RSD:	0.470	0.470	0.47				

Sequence No.: 26
Sample ID: 78787-014
Analyst:
Autosampler Location: 24
Date Collected: 6/2/2014 3:54:57 PM
Data Type: Original

Replicate Data: 78787-014

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	37.66	37.66	0.2228	0.9514	0.2229	15:55:42	Yes

Sample concentration is greater than that of the highest standard.

2	37.40	37.40	0.2213	0.9284	0.2213	15:56:15	Yes

Sample concentration is greater than that of the highest standard.

Mean:	37.53	37.53	0.2221
SD:	0.185	0.185	0.0011
%RSD:	0.493	0.493	0.49

Sample concentration is greater than that of the highest standard.

Sequence No.: 27 **Autosampler Location: 25**
Sample ID: 78787-018 **Date Collected: 6/2/2014 3:56:16 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-018

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.447	0.447	0.0024	0.0081	0.0024	15:57:01	Yes
2	0.474	0.474	0.0025	0.0105	0.0026	15:57:34	Yes
Mean:	0.460	0.460	0.0024				
SD:	0.019	0.019	0.0001				
%RSD:	4.087	4.087	4.57				

Sequence No.: 28 **Autosampler Location: 26**
Sample ID: 78787-019 **Date Collected: 6/2/2014 3:57:35 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-019

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.256	1.256	0.0072	0.0291	0.0072	15:58:20	Yes
2	1.253	1.253	0.0071	0.0296	0.0072	15:58:53	Yes
Mean:	1.255	1.255	0.0071				
SD:	0.002	0.002	0.0000				
%RSD:	0.190	0.190	0.20				

Sequence No.: 29 **Autosampler Location: 27**
Sample ID: 78787-020 **Date Collected: 6/2/2014 3:58:54 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-020

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.647	0.647	0.0035	0.0139	0.0036	15:59:39	Yes
2	0.657	0.657	0.0036	0.0152	0.0036	16:00:11	Yes
Mean:	0.652	0.652	0.0036				
SD:	0.007	0.007	0.0000				
%RSD:	1.023	1.023	1.10				

Sequence No.: 30 **Autosampler Location: 28**
Sample ID: 78787-021 **Date Collected: 6/2/2014 4:00:12 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-021

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	23.83	23.83	0.1409	0.5919	0.1410	16:01:01	Yes
2	22.79	22.79	0.1347	0.5665	0.1348	16:01:33	Yes
Mean:	23.31	23.31	0.1378				
SD:	0.738	0.738	0.0044				
%RSD:	3.166	3.166	3.17				

Sequence No.: 31 **Autosampler Location: 29**
Sample ID: 78787-022 **Date Collected: 6/2/2014 4:01:34 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-022

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	6.482	6.482	0.0381	0.1585	0.0382	16:02:20	Yes
2	6.437	6.437	0.0379	0.1551	0.0379	16:02:52	Yes
Mean:	6.459	6.459	0.0380				
SD:	0.032	0.032	0.0002				
%RSD:	0.489	0.489	0.49				

==========

Sequence No.: 32 **Autosampler Location: 30**
Sample ID: 78787-023 **Date Collected: 6/2/2014 4:02:53 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-023

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.880	0.880	0.0049	0.0205	0.0050	16:03:39	Yes
2	0.867	0.867	0.0049	0.0199	0.0049	16:04:11	Yes
Mean:	0.874	0.874	0.0049				
SD:	0.009	0.009	0.0001				
%RSD:	1.012	1.012	1.07				

==========

Sequence No.: 33 **Autosampler Location: 9**
Sample ID: CCV **Date Collected: 6/2/2014 4:04:12 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.70	10.70	0.0631	0.2634	0.0631	16:05:00	Yes
2	10.68	10.68	0.0630	0.2631	0.0630	16:05:32	Yes
Mean:	10.69	10.69	0.0630				
SD:	0.014	0.014	0.0001				
%RSD:	0.128	0.128	0.13				

QC value within limits for Hg 253.7 Recovery = 106.88%
All analyte(s) passed QC.

==========

Sequence No.: 34 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/2/2014 4:05:33 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.053	0.053	0.0000	-0.0010	0.0001	16:06:19	Yes
2	0.051	0.051	0.0000	-0.0006	0.0001	16:06:51	Yes
Mean:	0.052	0.052	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	2.595	2.595	34.41				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 35 **Autosampler Location: 31**
Sample ID: 78787-024 **Date Collected: 6/2/2014 4:06:52 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-024

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.391	0.391	0.0020	0.0089	0.0021	16:07:40	Yes
2	0.377	0.377	0.0019	0.0075	0.0020	16:08:13	Yes
Mean:	0.384	0.384	0.0020				
SD:	0.010	0.010	0.0001				
%RSD:	2.520	2.520	2.88				

==========

Sequence No.: 36 **Autosampler Location: 32**
Sample ID: 78787-025 **Date Collected: 6/2/2014 4:08:14 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-025

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.141	1.141	0.0065	0.0269	0.0065	16:09:00	Yes
2	1.123	1.123	0.0064	0.0259	0.0064	16:09:32	Yes
Mean:	1.132	1.132	0.0064				
SD:	0.012	0.012	0.0001				
%RSD:	1.093	1.093	1.14				

Sequence No.: 37
Sample ID: 78787-026
Analyst:
Autosampler Location: 33
Date Collected: 6/2/2014 4:09:33 PM
Data Type: Original

Replicate Data: 78787-026

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.338	0.338	0.0017	0.0077	0.0018	16:10:19	Yes
2	0.306	0.306	0.0015	0.0059	0.0016	16:10:51	Yes
Mean:	0.322	0.322	0.0016				
SD:	0.022	0.022	0.0001				
%RSD:	6.887	6.887	8.11				

Sequence No.: 38
Sample ID: 78793-002
Analyst:
Autosampler Location: 34
Date Collected: 6/2/2014 4:10:52 PM
Data Type: Original

Replicate Data: 78793-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.224	0.224	0.0010	0.0042	0.0011	16:11:37	Yes
2	0.243	0.243	0.0012	0.0055	0.0012	16:12:10	Yes
Mean:	0.234	0.234	0.0011				
SD:	0.013	0.013	0.0001				
%RSD:	5.631	5.631	7.10				

Sequence No.: 39
Sample ID: 78790-001
Analyst:
Autosampler Location: 35
Date Collected: 6/2/2014 4:12:11 PM
Data Type: Original

Replicate Data: 78790-001

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.105	0.105	0.0003	0.0018	0.0004	16:12:57	Yes
2	0.108	0.108	0.0004	0.0017	0.0004	16:13:29	Yes
Mean:	0.107	0.107	0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	1.868	1.868	3.42				

Sequence No.: 40
Sample ID: 78790-002
Analyst:
Autosampler Location: 36
Date Collected: 6/2/2014 4:13:30 PM
Data Type: Original

Replicate Data: 78790-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.173	0.173	0.0007	0.0034	0.0008	16:14:15	Yes
2	0.182	0.182	0.0008	0.0034	0.0008	16:14:48	Yes
Mean:	0.177	0.177	0.0008				
SD:	0.007	0.007	0.0000				
%RSD:	3.745	3.745	5.15				

Sequence No.: 41
Sample ID: CCV
Analyst:
Autosampler Location: 9
Date Collected: 6/2/2014 4:14:49 PM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.62	10.62	0.0627	0.2615	0.0627	16:15:38	Yes
2	10.55	10.55	0.0622	0.2572	0.0622	16:16:11	Yes
Mean:	10.59	10.59	0.0624				
SD:	0.056	0.056	0.0003				
%RSD:	0.525	0.525	0.53				

QC value within limits for Hg 253.7 Recovery = 105.86%
All analyte(s) passed QC.

==========

Sequence No.: 42 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/2/2014 4:16:12 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.069	0.069	0.0001	0.0005	0.0002	16:16:58	Yes
2	0.054	0.054	0.0000	-0.0003	0.0001	16:17:30	Yes
Mean:	0.062	0.062	0.0001				
SD:	0.010	0.010	0.0001				
%RSD:	16.75	16.75	78.23				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

File S4052101 1805

B- 16381
QC- 32819

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\001CALB.D\001CALB.D#
Date Acquired:	May 28 2014 08:12 pm
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	Rinse
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	May 28 2014 08:16 pm
Sample Type:	CalBlk

Run OK

Report All. Not QC- only for recovery
78753-001 + MR, MS1, MS2 PS, S
SX All
78787-003 SX Be, Co, As
78787-011 SX Be Co, As,
78787-016 10X Be Co, As

Paul
5/29/14

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	131	14.46
23	Na	45	1	118632	1.45
24	Mg	45	1	686	3.00
27	Al	45	1	2569	1.33
39	K	45	1	36612	3.15
44	Ca	45	1	118	13.07
51	V	45	1	71	11.27
52	Cr	45	1	343	9.22
55	Mn	45	1	348	6.73
56	Fe	45	1	8556	1.91
59	Co	45	1	167	12.70
60	Ni	45	1	53	8.00
65	Cu	45	1	286	2.43
66	Zn	45	1	201	6.34
75	As	115	1	31	18.61
78	Se	115	1	81	11.22
83	Kr	115	2	267	11.25
95	Mo	115	2	114	18.95
107	Ag	115	2	101	16.26
111	Cd	115	2	57	27.66
121	Sb	115	2	176	10.46
137	Ba	159	2	144	19.63
205	Tl	165	2	466	4.77
206	(Pb)	165	2	231	25.86
207	(Pb)	165	2	182	5.59
208	Pb	165	2	978	1.88

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
45	Sc	1	30392	2.03
45	Sc	2	493693	1.57
115	In	1	210266	2.52
115	In	2	630132	1.50
159	Tb	1	552389	0.12
159	Tb	2	860336	1.70
165	Ho	1	544810	1.17
165	Ho	2	840210	1.80

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\noqas.u
Tune File#	3	C:\ICPCHEM\1\7500\

SK 5/29/14

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#
Date Acquired:	May 28 2014 08:18 pm
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	CalBlk V-187463
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	May 28 2014 08:16 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	123	18.92
23	Na	45	1	124288	0.51
24	Mg	45	1	731	0.53
27	Al	45	1	2738	3.33
39	K	45	1	38994	1.14
44	Ca	45	1	133	12.98
51	V	45	1	65	8.41
52	Cr	45	1	380	4.26
55	Mn	45	1	312	3.16
56	Fe	45	1	9191	2.54
59	Co	45	1	155	7.59
60	Ni	45	1	56	6.03
65	Cu	45	1	264	7.60
66	Zn	45	1	221	9.31
75	As	115	1	33	6.12
78	Se	115	1	85	13.69
83	Kr	115	2	282	6.51
95	Mo	115	2	93	14.29
107	Ag	115	2	110	23.67
111	Cd	115	2	51	12.65
121	Sb	115	2	191	15.83
137	Ba	159	2	149	5.63
205	Tl	165	2	404	15.21
206	(Pb)	165	2	231	12.27
207	(Pb)	165	2	192	16.11
208	Pb	165	2	939	14.16

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
45	Sc	1	30792	0.96
45	Sc	2	494812	1.28
115	In	1	218521	2.11
115	In	2	628885	0.67
159	Tb	1	559235	1.37
159	Tb	2	858008	0.98
165	Ho	1	552431	1.36
165	Ho	2	837411	1.30

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\noqas.u
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\003CALI.D\003CALI.D#
Date Acquired:	May 28 2014 08:24 pm
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	CalStd1 V-187464
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	May 28 2014 08:22 pm
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	1488	6.12
23	Na	45	1	143982	1.33
24	Mg	45	1	13958	0.99
27	Al	45	1	3613	2.74
39	K	45	1	50641	0.36
44	Ca	45	1	639	1.09
51	V	45	1	904	5.53
52	Cr	45	1	1479	4.86
55	Mn	45	1	1065	4.27
56	Fe	45	1	121939	1.31
59	Co	45	1	1782	2.77
60	Ni	45	1	504	8.50
65	Cu	45	1	871	4.63
66	Zn	45	1	647	3.43
75	As	115	1	172	1.78
78	Se	115	1	150	2.52
83	Kr	115	2	288	4.07
95	Mo	115	2	1227	6.79
107	Ag	115	2	2918	4.06
111	Cd	115	2	657	4.09
121	Sb	115	2	2510	1.92
137	Ba	159	2	1410	2.13
205	Tl	165	2	6234	2.57
206	(Pb)	165	2	2170	1.71
207	(Pb)	165	2	1860	5.23
208	Pb	165	2	8493	3.49

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	31503	1.53	30792	102.3	80 - 120	
45	Sc	2	497030	1.93	494812	100.4	80 - 120	
115	In	1	221186	1.53	218521	101.2	80 - 120	
115	In	2	629094	2.10	628885	100.0	80 - 120	
159	Tb	1	562303	0.42	559235	100.5	80 - 120	
159	Tb	2	857291	2.43	858008	99.9	80 - 120	
165	Ho	1	555453	0.77	552431	100.5	80 - 120	
165	Ho	2	833135	2.45	837411	99.5	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\004CALI.D\004CALI.D#
Date Acquired:	May 28 2014 08:30 pm
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	CalStd2 V-187465
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	May 28 2014 08:28 pm
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	13784	2.13
23	Na	45	1	313730	0.86
24	Mg	45	1	112748	0.54
27	Al	45	1	19422	0.63
39	K	45	1	140271	0.48
44	Ca	45	1	5369	1.92
51	V	45	1	8634	1.26
52	Cr	45	1	10373	1.58
55	Mn	45	1	7502	1.39
56	Fe	45	1	971093	1.06
59	Co	45	1	16442	0.59
60	Ni	45	1	4377	1.51
65	Cu	45	1	6124	2.81
66	Zn	45	1	2664	2.22
75	As	115	1	1422	2.19
78	Se	115	1	711	4.18
83	Kr	115	2	271	14.25
95	Mo	115	2	11544	2.40
107	Ag	115	2	29179	1.67
111	Cd	115	2	6221	2.27
121	Sb	115	2	24206	0.97
137	Ba	159	2	9467	1.97
205	Tl	165	2	59390	0.70
206	(Pb)	165	2	19813	1.43
207	(Pb)	165	2	17216	1.98
208	Pb	165	2	79340	1.12

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	30532	0.33	30792	99.2	80 - 120	
45	Sc	2	485409	1.37	494812	98.1	80 - 120	
115	In	1	214979	0.46	218521	98.4	80 - 120	
115	In	2	613108	0.93	628885	97.5	80 - 120	
159	Tb	1	544338	0.42	559235	97.3	80 - 120	
159	Tb	2	827343	0.63	858008	96.4	80 - 120	
165	Ho	1	542653	0.65	552431	98.2	80 - 120	
165	Ho	2	808274	1.12	837411	96.5	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\005CALI.D\005CALI.D#
Date Acquired:	May 28 2014 08:36 pm
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	CalStd3 V-187466
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1104
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	May 28 2014 08:34 pm
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	27738	0.57
23	Na	45	1	501623	1.54
24	Mg	45	1	227146	0.82
27	Al	45	1	44698	1.28
39	K	45	1	242666	0.94
44	Ca	45	1	10766	1.00
51	V	45	1	17383	1.34
52	Cr	45	1	20688	1.21
55	Mn	45	1	14989	1.45
56	Fe	45	1	1947999	1.35
59	Co	45	1	32734	2.15
60	Ni	45	1	8868	1.55
65	Cu	45	1	12434	1.58
66	Zn	45	1	5014	3.80
75	As	115	1	2833	2.75
78	Se	115	1	1245	3.14
83	Kr	115	2	268	5.03
95	Mo	115	2	22899	2.31
107	Ag	115	2	58248	1.77
111	Cd	115	2	12494	0.78
121	Sb	115	2	49418	0.22
137	Ba	159	2	19235	0.23
205	Tl	165	2	119401	1.73
206	(Pb)	165	2	40180	1.90
207	(Pb)	165	2	34657	1.62
208	Pb	165	2	159647	1.12

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	30539	1.72	30792	99.2	80 - 120	
45	Sc	2	490463	0.87	494812	99.1	80 - 120	
115	In	1	215541	1.51	218521	98.6	80 - 120	
115	In	2	615274	1.40	628885	97.8	80 - 120	
159	Tb	1	547728	1.63	559235	97.9	80 - 120	
159	Tb	2	844434	1.45	858008	98.4	80 - 120	
165	Ho	1	543308	1.36	552431	98.3	80 - 120	
165	Ho	2	815999	2.24	837411	97.4	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\noqas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\006CALI.D\006CALI.D#
Date Acquired:	May 28 2014 08:42 pm
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	CalStd4 V-187467
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	May 28 2014 08:40 pm
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	137931	1.05
23	Na	45	1	2091150	2.35
24	Mg	45	1	1114985	2.06
27	Al	45	1	189944	0.74
39	K	45	1	1108298	0.91
44	Ca	45	1	52479	0.79
51	V	45	1	86728	0.70
52	Cr	45	1	99439	0.91
55	Mn	45	1	73430	1.16
56	Fe	45	1	9359612	1.90
59	Co	45	1	162411	0.72
60	Ni	45	1	43829	1.88
65	Cu	45	1	57809	1.49
66	Zn	45	1	21661	0.39
75	As	115	1	14006	1.98
78	Se	115	1	6073	1.88
83	Kr	115	2	267	14.74
95	Mo	115	2	115274	0.96
107	Ag	115	2	289800	0.91
111	Cd	115	2	61270	1.06
121	Sb	115	2	242140	1.06
137	Ba	159	2	93546	0.86
205	Tl	165	2	598787	0.41
206	(Pb)	165	2	196630	0.53
207	(Pb)	165	2	170206	0.75
208	Pb	165	2	783605	0.65

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	31914	1.59	30792	103.6	80 - 120	
45	Sc	2	513685	0.71	494812	103.8	80 - 120	
115	In	1	225365	2.06	218521	103.1	80 - 120	
115	In	2	647740	1.29	628885	103.0	80 - 120	
159	Tb	1	572861	1.59	559235	102.4	80 - 120	
159	Tb	2	880744	0.76	858008	102.6	80 - 120	
165	Ho	1	568929	1.92	552431	103.0	80 - 120	
165	Ho	2	856097	0.31	837411	102.2	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\007CALI.D\007CALI.D#
Date Acquired:	May 28 2014 08:48 pm
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	CalStd5 V-187468
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1106
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	May 28 2014 08:46 pm
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	286762	0.90
23	Na	45	1	4093319	0.97
24	Mg	45	1	2271198	0.29
27	Al	45	1	389474	0.94
39	K	45	1	2191710	0.58
44	Ca	45	1	107770	0.50
51	V	45	1	178338	0.89
52	Cr	45	1	203088	0.57
55	Mn	45	1	149446	0.38
56	Fe	45	1	18908210	0.48
59	Co	45	1	330929	0.40
60	Ni	45	1	89374	0.39
65	Cu	45	1	118118	0.84
66	Zn	45	1	43701	0.37
75	As	115	1	28698	1.00
78	Se	115	1	12249	1.30
83	Kr	115	2	289	5.92
95	Mo	115	2	238487	1.41
107	Ag	115	2	593955	0.71
111	Cd	115	2	126106	1.30
121	Sb	115	2	501252	1.00
137	Ba	159	2	194286	0.85
205	Tl	165	2	1344153	1.21
206	(Pb)	165	2	406213	0.86
207	(Pb)	165	2	353529	0.51
208	Pb	165	2	1620390	0.82

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	31818	0.23	30792	103.3	80 - 120	
45	Sc	2	510365	0.56	494812	103.1	80 - 120	
115	In	1	223013	1.05	218521	102.1	80 - 120	
115	In	2	643240	0.98	628885	102.3	80 - 120	
159	Tb	1	572833	0.46	559235	102.4	80 - 120	
159	Tb	2	879785	0.33	858008	102.5	80 - 120	
165	Ho	1	568602	0.43	552431	102.9	80 - 120	
165	Ho	2	851996	0.09	837411	101.7	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\008_ICV.D\008_ICV.D#
Date Acquired: May 28 2014 08:54 pm
Operator: GK
Sample Name: ICV V-187469
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1109
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: 6-ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	51.37	ppb	0.83	143421	50	102.7	90 - 110	
23 Na	45	1	5250.00	ppb	1.20	2180730	5000	105.0	90 - 110	
24 Mg	45	1	5149.00	ppb	0.64	1152873	5000	103.0	90 - 110	
27 Al	45	1	4896.00	ppb	1.00	623240	5000	97.9	90 - 110	
39 K	45	1	5204.00	ppb	1.11	1145294	5000	104.1	90 - 110	
44 Ca	45	1	5067.00	ppb	1.29	53773	5000	101.3	90 - 110	
51 V	45	1	52.04	ppb	0.77	91303	50	104.1	90 - 110	
52 Cr	45	1	50.85	ppb	0.59	101868	50	101.7	90 - 110	
55 Mn	45	1	50.89	ppb	1.21	75079	50	101.8	90 - 110	
56 Fe	45	1	4951.00	ppb	0.93	9247761	5000	99.0	90 - 110	
59 Co	45	1	50.76	ppb	1.26	165558	50	101.5	90 - 110	
60 Ni	45	1	51.05	ppb	0.53	44971	50	102.1	90 - 110	
65 Cu	45	1	52.21	ppb	0.46	60900	50	104.4	90 - 110	
66 Zn	45	1	52.11	ppb	1.40	22595	50	104.2	90 - 110	
75 As	115	1	50.99	ppb	0.47	14530	50	102.0	90 - 110	
78 Se	115	1	52.56	ppb	3.12	1363	50	105.1	90 - 110	
83 Kr	115	2	--------	ppb	-------	274	50	#VALUE!	##### - #####	
95 Mo	115	2	50.60	ppb	1.12	117814	50	101.2	90 - 110	
107 Ag	115	2	10.60	ppb	1.03	61663	10	106.0	90 - 110	
111 Cd	115	2	51.57	ppb	1.33	63578	50	103.1	90 - 110	
121 Sb	115	2	48.01	ppb	1.32	234998	50	96.0	90 - 110	
137 Ba	159	2	51.13	ppb	0.59	96545	50	102.3	90 - 110	
205 Tl	165	2	46.23	ppb	0.49	598529	50	92.5	90 - 110	
206 (Pb)	165	2	51.81	ppb	0.43	206094	50	103.6	90 - 110	
207 (Pb)	165	2	51.69	ppb	1.16	178734	50	103.4	90 - 110	
208 Pb	165	2	51.79	ppb	0.96	821606	50	103.6	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	31477	1.36	30792	102.2	80 - 120	
45 Sc	2	501127	0.60	494812	101.3	80 - 120	
115 In	1	222680	1.23	218521	101.9	80 - 120	
115 In	2	632821	1.40	628885	100.6	80 - 120	
159 Tb	1	566362	1.06	559235	101.3	80 - 120	
159 Tb	2	860738	0.68	858008	100.3	80 - 120	
165 Ho	1	561916	0.74	552431	101.7	80 - 120	
165 Ho	2	839816	1.00	837411	100.3	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\009_CCV.D\009_CCV.D#
Date Acquired: May 28 2014 08:59 pm
Operator: GK
Sample Name: LLICV V-187475
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: LL-ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.51	ppb	5.24	1601	1	102.6	70 - 130	
23 Na	45	1	225.10	ppb	3.43	219972	250	90.0	70 - 130	
24 Mg	45	1	246.90	ppb	1.73	57245	250	98.8	70 - 130	
27 Al	45	1	80.09	ppb	2.34	13238	100	80.1	70 - 130	
39 K	45	1	232.30	ppb	2.61	91198	250	92.9	70 - 130	
44 Ca	45	1	247.70	ppb	1.44	2821	250	99.1	70 - 130	
51 V	45	1	0.96	ppb	4.60	1788	1	95.9	70 - 130	
52 Cr	45	1	0.96	ppb	0.56	2361	1	96.2	70 - 130	
55 Mn	45	1	2.77	ppb	1.73	4483	3	92.2	70 - 130	
56 Fe	45	1	149.00	ppb	1.14	293947	150	99.3	70 - 130	
59 Co	45	1	0.96	ppb	3.10	3345	1	95.5	70 - 130	
60 Ni	45	1	1.44	ppb	5.21	1350	2	95.7	70 - 130	
65 Cu	45	1	4.74	ppb	2.43	6019	5	94.9	70 - 130	
66 Zn	45	1	10.26	ppb	1.12	4737	10	102.6	70 - 130	
75 As	115	1	0.89	ppb	3.05	291	1	88.6	70 - 130	
78 Se	115	1	4.81	ppb	10.34	214	5	96.2	70 - 130	
83 Kr	115	2	--------	ppb	--------	302	1	#VALUE!	##### - #####	
95 Mo	115	2	0.96	ppb	6.15	2377	1	95.5	70 - 130	
107 Ag	115	2	0.49	ppb	1.23	3006	1	97.1	70 - 130	
111 Cd	115	2	0.97	ppb	1.45	1273	1	96.5	70 - 130	
121 Sb	115	2	1.18	ppb	0.94	6118	1	118.0	70 - 130	
137 Ba	159	2	2.38	ppb	3.20	4718	3	95.2	70 - 130	
205 Tl	165	2	0.88	ppb	2.03	11982	1	88.0	70 - 130	
206 (Pb)	165	2	1.43	ppb	1.97	6024	2	95.5	70 - 130	
207 (Pb)	165	2	1.46	ppb	0.47	5315	2	97.1	70 - 130	
208 Pb	165	2	1.41	ppb	0.42	23744	2	94.3	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	32187	1.27	30792	104.5	80 - 120	
45 Sc	2	515529	2.99	494812	104.2	80 - 120	
115 In	1	227257	1.03	218521	104.0	80 - 120	
115 In	2	649396	2.40	628885	103.3	80 - 120	
159 Tb	1	573593	0.58	559235	102.6	80 - 120	
159 Tb	2	875768	2.15	858008	102.1	80 - 120	
165 Ho	1	567584	0.31	552431	102.7	80 - 120	
165 Ho	2	853948	2.39	837411	102.0	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\010_ICB.D\010_ICB.D#
Date Acquired: May 28 2014 09:05 pm
Operator: GK
Sample Name: ICB V-187470
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: 6-ICB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.01	ppb	90.76	168	0.50	
23 Na	45	1	-21.46	ppb	26.22	126700	250.00	
24 Mg	45	1	1.25	ppb	11.14	1097	250.00	
27 Al	45	1	-10.13	ppb	2.94	1616	100.00	
39 K	45	1	-6.53	ppb	57.86	41080	250.00	
44 Ca	45	1	1.40	ppb	22.15	161	250.00	
51 V	45	1	0.01	ppb	49.76	84	1.00	
52 Cr	45	1	-0.03	ppb	37.56	341	1.00	
55 Mn	45	1	-0.03	ppb	33.67	296	3.00	
56 Fe	45	1	2.99	ppb	5.08	15982	150.00	
59 Co	45	1	0.00	ppb	65.18	160	1.00	
60 Ni	45	1	0.01	ppb	95.12	69	1.50	
65 Cu	45	1	-0.14	ppb	22.69	240	5.00	
66 Zn	45	1	-0.18	ppb	22.62	157	10.00	
75 As	115	1	-0.01	ppb	18.63	33	1.00	
78 Se	115	1	0.13	ppb	193.65	102	5.00	
83 Kr	115	2	--------	ppb	--------	292	1.00	
95 Mo	115	2	0.03	ppb	30.30	187	1.00	
107 Ag	115	2	0.01	ppb	22.52	199	0.50	
111 Cd	115	2	0.02	ppb	28.43	83	1.00	
121 Sb	115	2	0.08	ppb	16.43	603	1.00	
137 Ba	159	2	0.00	ppb	5724.00	160	2.50	
205 Tl	165	2	0.02	ppb	2.63	693	1.00	
206 (Pb)	165	2	0.01	ppb	82.92	276	1.50	
207 (Pb)	165	2	0.01	ppb	111.82	239	1.50	
208 Pb	165	2	0.01	ppb	109.80	1099	1.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	33615	1.69	30792	109.2	80 - 120	
45 Sc	2	540044	0.76	494812	109.1	80 - 120	
115 In	1	236223	2.17	218521	108.1	80 - 120	
115 In	2	677679	1.42	628885	107.8	80 - 120	
159 Tb	1	597824	1.84	559235	106.9	80 - 120	
159 Tb	2	921298	2.02	858008	107.4	80 - 120	
165 Ho	1	591377	1.66	552431	107.0	80 - 120	
165 Ho	2	897792	1.52	837411	107.2	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\011ICSA.D\011ICSA.D#
Date Acquired:	May 28 2014 09:11 pm
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	ICSA V-187471
Misc Info:	MS_7500 6020 AQUEOUS
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	May 28 2014 08:52 pm
Sample Type:	6-ICSA
Dilution Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
9	Be	45	2	0.02 ppb	95.47	0.50	
23	Na	45	1	120900.00 ppb	1.88	250.00	
24	Mg	45	1	47460.00 ppb	1.64	250.00	
27	Al	45	1	48140.00 ppb	1.21	100.00	
39	K	45	1	46950.00 ppb	1.68	250.00	
44	Ca	45	1	154700.00 ppb	2.05	250.00	
51	V	45	1	0.03 ppb	35.17	1.00	
52	Cr	45	1	0.73 ppb	4.22	1.00	
55	Mn	45	1	4.26 ppb	1.34	3.00	**
56	Fe	45	1	119100.00 ppb	1.51	150.00	
59	Co	45	1	1.81 ppb	2.70	1.00	**
60	Ni	45	1	3.20 ppb	3.77	1.50	**
65	Cu	45	1	1.34 ppb	6.03	5.00	
66	Zn	45	1	2.56 ppb	4.36	10.00	
75	As	115	1	0.25 ppb	24.85	1.00	
78	Se	115	1	0.04 ppb	975.01	5.00	
83	Kr	115	2	-------- ppb	--------	1.00	
95	Mo	115	2	1037.00 ppb	0.86	1.00	
107	Ag	115	2	0.03 ppb	7.46	0.50	
111	Cd	115	2	0.92 ppb	5.22	1.00	
121	Sb	115	2	0.32 ppb	4.12	1.00	
137	Ba	159	2	0.93 ppb	1.97	2.50	
205	Tl	165	2	0.01 ppb	32.42	1.00	
206	(Pb)	165	2	0.20 ppb	3.27	1.50	
207	(Pb)	165	2	0.21 ppb	6.82	1.50	
208	Pb	165	2	0.20 ppb	3.95	1.50	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	30135	1.70	30792	97.9	70 - 150	
45	Sc	2	482722	0.24	494812	97.6	70 - 150	
115	In	1	207063	0.79	218521	94.8	70 - 150	
115	In	2	584330	0.84	628885	92.9	70 - 150	
159	Tb	1	553114	1.10	559235	98.9	70 - 150	
159	Tb	2	833002	0.62	858008	97.1	70 - 150	
165	Ho	1	549043	0.72	552431	99.4	70 - 150	
165	Ho	2	814716	0.88	837411	97.3	70 - 150	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\noqas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

3 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\012ICSB.D\012ICSB.D#
Date Acquired: May 28 2014 09:17 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: ICSAB V-187472
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1108
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: 6-ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9 Be	45	2	-0.01	107.02	---		-	
23 Na	45	1	120600.00	1.21	---		-	
24 Mg	45	1	46790.00	1.36	---		-	
27 Al	45	1	47790.00	1.23	---		-	
39 K	45	1	46800.00	1.92	---		-	
44 Ca	45	1	154300.00	0.54	---		-	
51 V	45	1	195.20	0.72	200	97.6	80 - 120	
52 Cr	45	1	189.70	0.66	200	94.9	80 - 120	
55 Mn	45	1	192.40	1.55	200	96.2	80 - 120	
56 Fe	45	1	119400.00	1.16	---		-	
59 Co	45	1	188.60	0.91	200	94.3	80 - 120	
60 Ni	45	1	184.00	0.62	200	92.0	80 - 120	
65 Cu	45	1	186.40	0.84	---		-	
66 Zn	45	1	94.27	0.72	100	94.3	80 - 120	
75 As	115	1	101.10	0.43	100	101.1	80 - 120	
78 Se	115	1	99.11	1.14	100	99.1	80 - 120	
83 Kr	115	2	----------	----------	---		-	
95 Mo	115	2	1056.00	4.21	---		-	
107 Ag	115	2	49.32	4.03	50	98.6	80 - 120	
111 Cd	115	2	99.85	4.73	100	99.9	80 - 120	
121 Sb	115	2	0.30	7.88	---		-	
137 Ba	159	2	1.09	4.51	---		-	
205 Tl	165	2	0.01	31.10	---		-	
206 (Pb)	165	2	0.22	10.19	---		-	
207 (Pb)	165	2	0.22	13.16	---		-	
208 Pb	165	2	0.21	9.36	---		-	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	30359	0.28	30792	98.6	70 - 150	
45 Sc	2	475712	3.41	494812	96.1	70 - 150	
115 In	1	209457	0.34	218521	95.9	70 - 150	
115 In	2	577489	3.25	628885	91.8	70 - 150	
159 Tb	1	562819	0.86	559235	100.6	70 - 150	
159 Tb	2	819334	2.56	858008	95.5	70 - 150	
165 Ho	1	559843	1.10	552431	101.3	70 - 150	
165 Ho	2	799216	3.62	837411	95.4	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\013_CCV.D\013_CCV.D#
Date Acquired:	May 28 2014 09:23 pm
Operator:	GK
Sample Name:	CCV V-187473
Misc Info:	MS_7500 6020 AQUEOUS
Vial Number:	3103
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update:	May 28 2014 08:52 pm
Sample Type:	6-CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	50.85	ppb	1.42	144060	50	101.7	90 - 110	
23 Na	45	1	5266.00	ppb	1.48	2206316	5000	105.3	90 - 110	
24 Mg	45	1	5179.00	ppb	0.67	1169848	5000	103.6	90 - 110	
27 Al	45	1	1520.00	ppb	0.34	197083	1500	101.3	90 - 110	
39 K	45	1	5127.00	ppb	0.60	1138778	5000	102.5	90 - 110	
44 Ca	45	1	5113.00	ppb	0.68	54742	5000	102.3	90 - 110	
51 V	45	1	50.44	ppb	0.62	89279	50	100.9	90 - 110	
52 Cr	45	1	50.56	ppb	0.33	102196	50	101.1	90 - 110	
55 Mn	45	1	50.25	ppb	0.55	74792	50	100.5	90 - 110	
56 Fe	45	1	5166.00	ppb	0.11	9733989	5000	103.3	90 - 110	
59 Co	45	1	50.80	ppb	0.57	167174	50	101.6	90 - 110	
60 Ni	45	1	50.83	ppb	1.11	45175	50	101.7	90 - 110	
65 Cu	45	1	50.90	ppb	0.98	59903	50	101.8	90 - 110	
66 Zn	45	1	51.18	ppb	0.60	22393	50	102.4	90 - 110	
75 As	115	1	49.88	ppb	1.30	14497	50	99.8	90 - 110	
78 Se	115	1	247.10	ppb	1.15	6182	250	98.8	90 - 110	
83 Kr	115	2	--------	ppb	--------	303	50	#VALUE!	##### - #####	
95 Mo	115	2	51.96	ppb	0.36	122269	50	103.9	90 - 110	
107 Ag	115	2	51.44	ppb	1.68	302001	50	102.9	90 - 110	
111 Cd	115	2	51.02	ppb	1.25	63559	50	102.0	90 - 110	
121 Sb	115	2	51.08	ppb	1.11	252657	50	102.2	90 - 110	
137 Ba	159	2	51.13	ppb	0.86	97782	50	102.3	90 - 110	
205 Tl	165	2	47.45	ppb	1.27	617623	50	94.9	90 - 110	
206 (Pb)	165	2	51.03	ppb	1.20	204097	50	102.1	90 - 110	
207 (Pb)	165	2	50.92	ppb	1.17	177055	50	101.8	90 - 110	
208 Pb	165	2	50.91	ppb	1.01	812137	50	101.8	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	31755	0.77	30792	103.1	80 - 120	
45 Sc	2	508461	0.20	494812	102.8	80 - 120	
115 In	1	227128	0.53	218521	103.9	80 - 120	
115 In	2	639502	0.66	628885	101.7	80 - 120	
159 Tb	1	580846	1.25	559235	103.9	80 - 120	
159 Tb	2	871754	0.18	858008	101.6	80 - 120	
165 Ho	1	573612	0.91	552431	103.8	80 - 120	
165 Ho	2	844451	0.81	837411	100.8	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0	:Element Failures	0	:Max. Number of Failures Allowed
0	:ISTD Failures	0	:Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\014_CCV.D\014_CCV.D#
Date Acquired: May 28 2014 09:29 pm
Operator: GK
Sample Name: LLCCV V-187475
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: LL-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.49	ppb	6.21	1567	1	98.2	70 - 130	
23 Na	45	1	276.40	ppb	2.80	236007	250	110.6	70 - 130	
24 Mg	45	1	264.50	ppb	1.02	60128	250	105.8	70 - 130	
27 Al	45	1	89.26	ppb	3.21	14158	100	89.3	70 - 130	
39 K	45	1	249.90	ppb	2.25	93253	250	100.0	70 - 130	
44 Ca	45	1	274.90	ppb	2.09	3057	250	110.0	70 - 130	
51 V	45	1	1.01	ppb	3.58	1847	1	101.2	70 - 130	
52 Cr	45	1	1.02	ppb	3.16	2435	1	102.1	70 - 130	
55 Mn	45	1	2.93	ppb	3.14	4636	3	97.6	70 - 130	
56 Fe	45	1	176.10	ppb	1.22	339100	150	117.4	70 - 130	
59 Co	45	1	1.05	ppb	2.48	3588	1	104.9	70 - 130	
60 Ni	45	1	1.59	ppb	6.39	1465	2	106.3	70 - 130	
65 Cu	45	1	5.01	ppb	6.28	6218	5	100.3	70 - 130	
66 Zn	45	1	10.74	ppb	1.50	4852	10	107.4	70 - 130	
75 As	115	1	0.97	ppb	3.91	313	1	96.7	70 - 130	
78 Se	115	1	4.41	ppb	10.95	203	5	88.2	70 - 130	
83 Kr	115	2	--------	ppb	--------	267	1	#VALUE!	##### - #####	
95 Mo	115	2	1.15	ppb	1.39	2916	1	114.5	70 - 130	
107 Ag	115	2	0.49	ppb	4.10	3148	1	98.7	70 - 130	
111 Cd	115	2	0.95	ppb	1.72	1293	1	95.1	70 - 130	
121 Sb	115	2	1.00	ppb	0.08	5389	1	100.2	70 - 130	
137 Ba	159	2	2.32	ppb	5.19	4729	3	92.7	70 - 130	
205 Tl	165	2	0.88	ppb	2.56	12260	1	87.7	70 - 130	
206 (Pb)	165	2	1.42	ppb	1.39	6136	2	94.8	70 - 130	
207 (Pb)	165	2	1.41	ppb	1.39	5275	2	93.9	70 - 130	
208 Pb	165	2	1.44	ppb	2.46	24711	2	95.7	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	31589	1.46	30792	102.6	80 - 120	
45 Sc	2	525517	1.49	494812	106.2	80 - 120	
115 In	1	226333	0.25	218521	103.6	80 - 120	
115 In	2	669258	1.31	628885	106.4	80 - 120	
159 Tb	1	576554	1.16	559235	103.1	80 - 120	
159 Tb	2	901047	1.39	858008	105.0	80 - 120	
165 Ho	1	571116	1.30	552431	103.4	80 - 120	
165 Ho	2	876420	1.17	837411	104.7	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\015_CCB.D\015_CCB.D#
Date Acquired: May 28 2014 09:35 pm
Operator: GK
Sample Name: CCB V-187470
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.000	ppb	3865.20	131	0.50	
23 Na	45	1	15.880	ppb	9.38	137973	250.00	
24 Mg	45	1	6.936	ppb	6.67	2380	250.00	
27 Al	45	1	-5.250	ppb	9.55	2208	100.00	
39 K	45	1	2.541	ppb	59.43	41828	250.00	
44 Ca	45	1	13.140	ppb	5.19	285	250.00	
51 V	45	1	0.021	ppb	16.91	107	1.00	
52 Cr	45	1	-0.003	ppb	341.85	396	1.00	
55 Mn	45	1	-0.021	ppb	102.71	298	3.00	
56 Fe	45	1	15.090	ppb	2.82	38872	150.00	
59 Co	45	1	0.008	ppb	48.15	191	1.00	
60 Ni	45	1	0.028	ppb	29.23	85	1.50	
65 Cu	45	1	-0.105	ppb	24.24	277	5.00	
66 Zn	45	1	-0.035	ppb	520.02	218	10.00	
75 As	115	1	-0.009	ppb	264.10	32	1.00	
78 Se	115	1	-0.177	ppb	217.10	93	5.00	
83 Kr	115	2	--------	ppb	--------	253	1.00	
95 Mo	115	2	0.166	ppb	5.87	501	1.00	
107 Ag	115	2	0.011	ppb	26.16	180	0.50	
111 Cd	115	2	0.009	ppb	49.55	66	1.00	
121 Sb	115	2	0.012	ppb	39.76	261	1.00	
137 Ba	159	2	-0.014	ppb	62.21	129	2.50	
205 Tl	165	2	0.002	ppb	81.80	448	1.00	
206 (Pb)	165	2	-0.003	ppb	21.75	228	1.50	
207 (Pb)	165	2	-0.006	ppb	101.11	179	1.50	
208 Pb	165	2	-0.005	ppb	107.82	903	1.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	32586	0.34	30792	105.8	80 - 120	
45 Sc	2	529609	1.42	494812	107.0	80 - 120	
115 In	1	232625	1.55	218521	106.5	80 - 120	
115 In	2	662173	1.13	628885	105.3	80 - 120	
159 Tb	1	594353	0.68	559235	106.3	80 - 120	
159 Tb	2	900305	1.02	858008	104.9	80 - 120	
165 Ho	1	587810	0.50	552431	106.4	80 - 120	
165 Ho	2	873556	1.06	837411	104.3	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\016SMPL.D\016SMPL.D#
Date Acquired: May 28 2014 09:41 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: MB 32819
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	-0.02	-0.02	ppb	44.80	63	2700	
23 Na	45	1	90.82	90.82	ppb	0.79	151890	225000	
24 Mg	45	1	2.28	2.28	ppb	23.99	1175	225000	
27 Al	45	1	-4.26	-4.26	ppb	12.75	2110	67500	
39 K	45	1	33.58	33.58	ppb	1.57	43901	225000	
44 Ca	45	1	13.59	13.59	ppb	11.82	261	225000	
51 V	45	1	0.10	0.10	ppb	8.42	233	2700	
52 Cr	45	1	0.16	0.16	ppb	8.99	667	2700	
55 Mn	45	1	0.00	0.00	ppb	668.42	294	2700	
56 Fe	45	1	11.27	11.27	ppb	6.14	28431	202500	
59 Co	45	1	-0.02	-0.02	ppb	23.92	102	2700	
60 Ni	45	1	0.02	0.02	ppb	88.74	71	2700	
65 Cu	45	1	0.19	0.19	ppb	6.93	573	2700	
66 Zn	45	1	3.78	3.78	ppb	2.51	1725	2700	
75 As	115	1	0.07	0.07	ppb	57.09	51	2250	
78 Se	115	1	0.04	0.04	ppb	1436.70	91	2700	
83 Kr	115	2	----	--------	ppb	--------	291	2700	
95 Mo	115	2	0.05	0.05	ppb	28.35	196	2700	
107 Ag	115	2	0.04	0.04	ppb	10.76	323	900	
111 Cd	115	2	0.00	0.00	ppb	497.02	46	2700	
121 Sb	115	2	0.22	0.22	ppb	0.33	1155	1125	
137 Ba	159	2	0.01	0.01	ppb	505.52	150	1350	
205 Tl	165	2	-0.01	-0.01	ppb	5.42	224	900	
206 (Pb)	165	2	0.00	0.00	ppb	206.92	202	2700	
207 (Pb)	165	2	-0.01	-0.01	ppb	125.24	160	2700	
208 Pb	165	2	-0.01	-0.01	ppb	41.95	773	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	29405	0.14	30792	95.5	70 - 150	
45 Sc	2	467916	0.71	494812	94.6	70 - 150	
115 In	1	214310	0.89	218521	98.1	70 - 150	
115 In	2	587187	0.93	628885	93.4	70 - 150	
159 Tb	1	552202	1.25	559235	98.7	70 - 150	
159 Tb	2	801794	0.40	858008	93.4	70 - 150	
165 Ho	1	545767	0.68	552431	98.8	70 - 150	
165 Ho	2	778642	0.74	837411	93.0	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\017SMPL.D\017SMPL.D#
Date Acquired: May 28 2014 09:47 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: LCS 328~~8~~ 19 JK 5/29/14
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1302
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	248.70	248.70	ppb	1.17	667811	2700	
23 Na	45	1	25,620.00	25620.00	ppb	2.36	9438154	225000	
24 Mg	45	1	24,750.00	24750.00	ppb	2.06	5151346	225000	
27 Al	45	1	2,489.00	2489.00	ppb	1.61	295907	67500	
39 K	45	1	24,440.00	24440.00	ppb	1.17	4865353	225000	
44 Ca	45	1	25,270.00	25270.00	ppb	1.22	248950	225000	
51 V	45	1	255.90	255.90	ppb	1.68	417378	2700	
52 Cr	45	1	253.20	253.20	ppb	1.37	470420	2700	
55 Mn	45	1	252.50	252.50	ppb	2.07	345342	2700	
56 Fe	45	1	2,616.00	2616.00	ppb	1.97	4548056	202500	
59 Co	45	1	257.10	257.10	ppb	1.19	779413	2700	
60 Ni	45	1	251.40	251.40	ppb	1.50	205813	2700	
65 Cu	45	1	259.10	259.10	ppb	1.40	279693	2700	
66 Zn	45	1	258.00	258.00	ppb	1.18	103238	2700	
75 As	115	1	254.70	254.70	ppb	0.82	67780	2250	
78 Se	115	1	262.60	262.60	ppb	1.97	6020	2700	
83 Kr	115	2	----	--------	ppb	--------	279	2700	
95 Mo	115	2	255.00	255.00	ppb	0.87	556425	2700	
107 Ag	115	2	50.48	50.48	ppb	0.98	275035	900	
111 Cd	115	2	253.50	253.50	ppb	1.45	292906	2700	
121 Sb	115	2	266.80	266.80	ppb	1.24	1223621	1125	
137 Ba	159	2	250.60	250.60	ppb	0.53	450643	1350	
205 Tl	165	2	243.00	243.00	ppb	0.28	2985154	900	
206 (Pb)	165	2	246.80	246.80	ppb	1.53	931207	2700	
207 (Pb)	165	2	245.60	245.60	ppb	0.95	805637	2700	
208 Pb	165	2	257.40	257.40	ppb	1.44	3873792	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	29278	1.42	30702	95.1	70 - 150	
45 Sc	2	482243	1.52	494812	97.5	70 - 150	
115 In	1	208326	1.64	218521	95.3	70 - 150	
115 In	2	593452	0.85	628885	94.4	70 - 150	
159 Tb	1	553044	2.06	559235	98.9	70 - 150	
159 Tb	2	820668	0.85	858008	95.6	70 - 150	
165 Ho	1	547443	2.04	552431	99.1	70 - 150	
165 Ho	2	797508	1.59	837411	95.2	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\018SMPL.D\018SMPL.D#
Date Acquired:	May 28 2014 09:53 pm
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	LCS MR 32819
Misc Info:	MS_7500 6020 AQUEOUS
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	May 28 2014 08:52 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	255.80	255.80	ppb	0.91	617254	2700	
23 Na	45	1	26,300.00	26300.00	ppb	0.98	8806267	225000	
24 Mg	45	1	25,410.00	25410.00	ppb	1.50	4806546	225000	
27 Al	45	1	2,549.00	2549.00	ppb	0.51	275407	67500	
39 K	45	1	24,970.00	24970.00	ppb	0.63	4517699	225000	
44 Ca	45	1	26,050.00	26050.00	ppb	1.05	233264	225000	
51 V	45	1	264.00	264.00	ppb	0.81	391241	2700	
52 Cr	45	1	261.20	261.20	ppb	0.86	441142	2700	
55 Mn	45	1	259.10	259.10	ppb	0.73	321993	2700	
56 Fe	45	1	2,684.00	2684.00	ppb	0.86	4242387	202500	
59 Co	45	1	263.90	263.90	ppb	0.76	727210	2700	
60 Ni	45	1	259.80	259.80	ppb	0.66	193310	2700	
65 Cu	45	1	265.60	265.60	ppb	1.11	260495	2700	
66 Zn	45	1	263.90	263.90	ppb	0.43	95955	2700	
75 As	115	1	260.50	260.50	ppb	1.06	63163	2250	
78 Se	115	1	264.50	264.50	ppb	1.33	5525	2700	
83 Kr	115	2	----	--------	ppb	--------	347	2700	
95 Mo	115	2	266.70	266.70	ppb	1.40	527244	2700	
107 Ag	115	2	52.92	52.92	ppb	0.35	261235	900	
111 Cd	115	2	262.40	262.40	ppb	0.76	274663	2700	
121 Sb	115	2	279.60	279.60	ppb	1.08	1161881	1125	
137 Ba	159	2	259.50	259.50	ppb	0.43	424575	1350	
205 Tl	165	2	257.40	257.40	ppb	0.16	2865803	900	
206 (Pb)	165	2	258.40	258.40	ppb	0.32	883810	2700	
207 (Pb)	165	2	259.20	259.20	ppb	0.28	770618	2700	
208 Pb	165	2	272.10	272.10	ppb	0.46	3710806	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	26610	0.26	30792	86.4	70 - 150	
45 Sc	2	433508	1.78	494812	87.6	70 - 150	
115 In	1	189822	0.56	218521	86.9	70 - 150	
115 In	2	537677	0.80	628885	85.5	70 - 150	
159 Tb	1	505060	0.59	559235	90.3	70 - 150	
159 Tb	2	746834	1.49	858008	87.0	70 - 150	
165 Ho	1	501305	0.38	552431	90.7	70 - 150	
165 Ho	2	722677	1.46	837411	86.3	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\019SMPL.D\019SMPL.D#
Date Acquired: May 28 2014 09:59 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-005
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1402
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.12	0.12	ppb	20.61	430	2700	
23 Na	45	1	265.90	265.90	ppb	30.09	190023	225000	
24 Mg	45	1	24.40	24.40	ppb	16.69	5102	225000	
27 Al	45	1	2.29	2.29	ppb	128.71	2543	67500	
39 K	45	1	76.97	76.97	ppb	47.45	46213	225000	
44 Ca	45	1	52.46	52.46	ppb	11.68	571	225000	
51 V	45	1	0.34	0.34	ppb	15.50	540	2700	
52 Cr	45	1	0.82	0.82	ppb	19.95	1657	2700	
55 Mn	45	1	0.48	0.48	ppb	18.02	848	2700	
56 Fe	45	1	20.47	20.47	ppb	17.56	39122	202500	
59 Co	45	1	0.18	0.18	ppb	21.44	616	2700	
60 Ni	45	1	0.28	0.28	ppb	28.80	246	2700	
65 Cu	45	1	0.54	0.54	ppb	29.84	828	2700	
66 Zn	45	1	4.78	4.78	ppb	17.61	1868	2700	
75 As	115	1	0.39	0.39	ppb	13.41	122	2250	
78 Se	115	1	0.79	0.79	ppb	102.62	96	2700	
83 Kr	115	2	----	--------	ppb	--------	322	2700	
95 Mo	115	2	0.19	0.19	ppb	14.99	491	2700	
107 Ag	115	2	0.02	0.02	ppb	22.47	220	900	
111 Cd	115	2	0.13	0.13	ppb	3.57	193	2700	
121 Sb	115	2	0.38	0.38	ppb	6.26	1844	1125	
137 Ba	159	2	0.18	0.18	ppb	8.00	434	1350	
205 Tl	165	2	0.33	0.33	ppb	5.00	4232	900	
206 (Pb)	165	2	0.15	0.15	ppb	9.77	733	2700	
207 (Pb)	165	2	0.15	0.15	ppb	4.17	621	2700	
208 Pb	165	2	0.15	0.15	ppb	2.86	2917	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	26186	12.85	30792	85.0	70 - 150	
45 Sc	2	455510	0.17	494812	92.1	70 - 150	
115 In	1	191800	11.71	218521	87.8	70 - 150	
115 In	2	570935	0.54	628885	90.8	70 - 150	
159 Tb	1	497736	11.70	559235	89.0	70 - 150	
159 Tb	2	778136	0.35	858008	90.7	70 - 150	
165 Ho	1	495958	12.70	552431	89.8	70 - 150	
165 Ho	2	750843	0.22	837411	89.7	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\020SMPL.D\020SMPL.D#
Date Acquired: May 28 2014 10:05 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-006
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1403
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.03	0.03	ppb	41.32	200	2700	
23 Na	45	1	248.00	248.00	ppb	7.52	191976	225000	
24 Mg	45	1	12.01	12.01	ppb	12.12	2939	225000	
27 Al	45	1	-2.34	-2.34	ppb	30.33	2143	67500	
39 K	45	1	58.49	58.49	ppb	13.75	44792	225000	
44 Ca	45	1	168.90	168.90	ppb	4.85	1648	225000	
51 V	45	1	0.20	0.20	ppb	4.12	363	2700	
52 Cr	45	1	0.42	0.42	ppb	1.38	1046	2700	
55 Mn	45	1	0.61	0.61	ppb	3.04	1043	2700	
56 Fe	45	1	11.14	11.14	ppb	14.04	25819	202500	
59 Co	45	1	0.04	0.04	ppb	32.35	253	2700	
60 Ni	45	1	0.10	0.10	ppb	24.26	121	2700	
65 Cu	45	1	3.43	3.43	ppb	3.96	3740	2700	
66 Zn	45	1	6.75	6.75	ppb	5.09	2677	2700	
75 As	115	1	0.21	0.21	ppb	27.79	83	2250	
78 Se	115	1	0.12	0.12	ppb	93.97	86	2700	
83 Kr	115	2	----	--------	ppb	--------	279	2700	
95 Mo	115	2	0.05	0.05	ppb	11.14	194	2700	
107 Ag	115	2	0.00	0.00	ppb	378.75	112	900	
111 Cd	115	2	0.03	0.03	ppb	39.64	77	2700	
121 Sb	115	2	0.30	0.30	ppb	7.65	1501	1125	
137 Ba	159	2	0.25	0.25	ppb	13.43	572	1350	
205 Tl	165	2	0.08	0.08	ppb	10.41	1353	900	
206 (Pb)	165	2	0.07	0.07	ppb	8.49	462	2700	
207 (Pb)	165	2	0.08	0.08	ppb	21.41	431	2700	
208 Pb	165	2	0.07	0.07	ppb	13.74	1917	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	26982	2.80	30792	87.6	70 - 150	
45 Sc	2	467872	3.60	494812	94.6	70 - 150	
115 In	1	198453	2.69	218521	90.8	70 - 150	
115 In	2	581379	4.23	628885	92.4	70 - 150	
159 Tb	1	513095	3.20	559235	91.7	70 - 150	
159 Tb	2	802953	3.08	858008	93.6	70 - 150	
165 Ho	1	511327	3.28	552431	92.6	70 - 150	
165 Ho	2	781209	3.99	837411	93.3	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\021SMPL.D\021SMPL.D#
Date Acquired: May 28 2014 10:11 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78790-003
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1410
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.01	0.01	ppb	112.80	122	2700	
23 Na	45	1	315.50	315.50	ppb	0.39	214391	225000	
24 Mg	45	1	6.96	6.96	ppb	9.96	1972	225000	
27 Al	45	1	-10.03	-10.03	ppb	4.03	1306	67500	
39 K	45	1	53.91	53.91	ppb	2.65	43913	225000	
44 Ca	45	1	42.37	42.37	ppb	9.96	500	225000	
51 V	45	1	0.15	0.15	ppb	12.48	284	2700	
52 Cr	45	1	0.46	0.46	ppb	5.04	1123	2700	
55 Mn	45	1	0.15	0.15	ppb	17.67	467	2700	
56 Fe	45	1	7.91	7.91	ppb	12.01	20666	202500	
59 Co	45	1	0.01	0.01	ppb	36.66	173	2700	
60 Ni	45	1	0.10	0.10	ppb	13.48	126	2700	
65 Cu	45	1	0.81	0.81	ppb	7.32	1139	2700	
66 Zn	45	1	3.71	3.71	ppb	3.73	1558	2700	
75 As	115	1	0.20	0.20	ppb	11.98	79	2250	
78 Se	115	1	0.03	0.03	ppb	1822.00	83	2700	
83 Kr	115	2	----	--------	ppb	--------	279	2700	
95 Mo	115	2	0.02	0.02	ppb	13.30	126	2700	
107 Ag	115	2	0.00	0.00	ppb	286.05	87	900	
111 Cd	115	2	0.00	0.00	ppb	465.22	44	2700	
121 Sb	115	2	0.17	0.17	ppb	5.35	906	1125	
137 Ba	159	2	0.12	0.12	ppb	26.42	332	1350	
205 Tl	165	2	0.04	0.04	ppb	26.17	805	900	
206 (Pb)	165	2	0.05	0.05	ppb	31.85	372	2700	
207 (Pb)	165	2	0.05	0.05	ppb	18.75	314	2700	
208 Pb	165	2	0.05	0.05	ppb	10.49	1461	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	26939	0.41	30792	87.5	70 - 150	
45 Sc	2	437428	1.13	494812	88.4	70 - 150	
115 In	1	196401	1.03	218521	89.9	70 - 150	
115 In	2	552687	0.76	628885	87.9	70 - 150	
159 Tb	1	512125	0.55	559235	91.6	70 - 150	
159 Tb	2	748657	0.54	858008	87.3	70 - 150	
165 Ho	1	504747	0.82	552431	91.4	70 - 150	
165 Ho	2	725219	1.24	837411	86.6	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\SW52814A.b\022SMPL.D\022SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\022SMPL.D\022SMPL.D#
Date Acquired: May 28 2014 10:17 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78792-009
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1501
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.00	0.00	ppb	1700.50	107	2700	
23 Na	45	1	236.80	236.80	ppb	1.88	187254	225000	
24 Mg	45	1	7.54	7.54	ppb	8.55	2074	225000	
27 Al	45	1	4.89	4.89	ppb	9.36	2913	67500	
39 K	45	1	58.67	58.67	ppb	4.01	44594	225000	
44 Ca	45	1	77.71	77.71	ppb	3.82	817	225000	
51 V	45	1	0.17	0.17	ppb	5.42	311	2700	
52 Cr	45	1	0.47	0.47	ppb	7.58	1128	2700	
55 Mn	45	1	0.48	0.48	ppb	4.78	873	2700	
56 Fe	45	1	13.77	13.77	ppb	7.23	29910	202500	
59 Co	45	1	0.00	0.00	ppb	285.65	141	2700	
60 Ni	45	1	0.11	0.11	ppb	7.84	129	2700	
65 Cu	45	1	0.62	0.62	ppb	4.85	942	2700	
66 Zn	45	1	4.41	4.41	ppb	0.41	1807	2700	
75 As	115	1	0.16	0.16	ppb	23.59	69	2250	
78 Se	115	1	0.36	0.36	ppb	104.76	90	2700	
83 Kr	115	2	----	--------	ppb	--------	284	2700	
95 Mo	115	2	0.01	0.01	ppb	121.86	106	2700	
107 Ag	115	2	0.00	0.00	ppb	99.57	79	900	
111 Cd	115	2	0.00	0.00	ppb	451.16	41	2700	
121 Sb	115	2	0.17	0.17	ppb	8.48	873	1125	
137 Ba	159	2	0.22	0.22	ppb	3.55	476	1350	
205 Tl	165	2	0.02	0.02	ppb	25.10	531	900	
206 (Pb)	165	2	0.06	0.06	ppb	26.28	412	2700	
207 (Pb)	165	2	0.06	0.06	ppb	11.46	349	2700	
208 Pb	165	2	0.06	0.06	ppb	2.31	1542	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	26828	0.54	30792	87.1	70 - 150	
45 Sc	2	423586	1.00	494812	85.6	70 - 150	
115 In	1	196257	0.91	218521	89.8	70 - 150	
115 In	2	533707	1.59	628885	84.9	70 - 150	
159 Tb	1	512155	0.46	559235	91.6	70 - 150	
159 Tb	2	728501	1.99	858008	84.9	70 - 150	
165 Ho	1	505263	1.83	552431	91.5	70 - 150	
165 Ho	2	705901	1.80	837411	84.3	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\023SMPL.D\023SMPL.D#
Date Acquired: May 28 2014 10:23 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78818-003
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1502
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	-0.01	-0.01	ppb	62.47	74	2700	
23 Na	45	1	220.90	220.90	ppb	3.98	184194	225000	
24 Mg	45	1	4.66	4.66	ppb	15.03	1543	225000	
27 Al	45	1	-1.85	-1.85	ppb	26.04	2212	67500	
39 K	45	1	52.68	52.68	ppb	3.09	44051	225000	
44 Ca	45	1	63.08	63.08	ppb	6.10	694	225000	
51 V	45	1	0.16	0.16	ppb	6.87	299	2700	
52 Cr	45	1	0.28	0.28	ppb	4.19	822	2700	
55 Mn	45	1	0.14	0.14	ppb	9.38	455	2700	
56 Fe	45	1	8.81	8.81	ppb	11.95	22279	202500	
59 Co	45	1	-0.01	-0.01	ppb	25.56	112	2700	
60 Ni	45	1	0.04	0.04	ppb	46.28	79	2700	
65 Cu	45	1	0.37	0.37	ppb	12.16	703	2700	
66 Zn	45	1	4.28	4.28	ppb	3.11	1782	2700	
75 As	115	1	0.14	0.14	ppb	12.49	65	2250	
78 Se	115	1	0.11	0.11	ppb	400.46	86	2700	
83 Kr	115	2	----	--------	ppb	--------	303	2700	
95 Mo	115	2	0.01	0.01	ppb	56.54	102	2700	
107 Ag	115	2	0.00	0.00	ppb	106.79	79	900	
111 Cd	115	2	0.00	0.00	ppb	24.64	43	2700	
121 Sb	115	2	0.18	0.18	ppb	7.27	938	1125	
137 Ba	159	2	0.16	0.16	ppb	4.18	390	1350	
205 Tl	165	2	0.01	0.01	ppb	15.73	461	900	
206 (Pb)	165	2	0.03	0.03	ppb	15.15	292	2700	
207 (Pb)	165	2	0.03	0.03	ppb	29.38	251	2700	
208 Pb	165	2	0.03	0.03	ppb	16.49	1191	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	27162	1.22	30792	88.2	70 - 150	
45 Sc	2	443628	2.63	494812	89.7	70 - 150	
115 In	1	200203	1.05	218521	91.6	70 - 150	
115 In	2	556517	2.92	628885	88.5	70 - 150	
159 Tb	1	524325	0.78	559235	93.8	70 - 150	
159 Tb	2	752699	3.29	858008	87.7	70 - 150	
165 Ho	1	518530	0.73	552431	93.9	70 - 150	
165 Ho	2	732688	2.80	837411	87.5	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\024SMPL.D\024SMPL.D#
Date Acquired: May 28 2014 10:29 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78829-014
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1503
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	-0.01	-0.01	ppb	6.89	79	2700	
23 Na	45	1	198.80	198.80	ppb	1.05	172672	225000	
24 Mg	45	1	2.52	2.52	ppb	15.84	1105	225000	
27 Al	45	1	-11.76	-11.76	ppb	6.19	1102	67500	
39 K	45	1	54.14	54.14	ppb	1.26	43299	225000	
44 Ca	45	1	39.19	39.19	ppb	5.62	464	225000	
51 V	45	1	0.13	0.13	ppb	7.05	252	2700	
52 Cr	45	1	0.45	0.45	ppb	3.39	1079	2700	
55 Mn	45	1	0.03	0.03	ppb	64.55	312	2700	
56 Fe	45	1	13.47	13.47	ppb	5.09	29110	202500	
59 Co	45	1	-0.02	-0.02	ppb	29.30	89	2700	
60 Ni	45	1	0.03	0.03	ppb	49.49	69	2700	
65 Cu	45	1	0.26	0.26	ppb	6.77	581	2700	
66 Zn	45	1	3.29	3.29	ppb	4.70	1382	2700	
75 As	115	1	0.09	0.09	ppb	6.82	52	2250	
78 Se	115	1	0.03	0.03	ppb	1501.60	83	2700	
83 Kr	115	2	----	--------	ppb	--------	283	2700	
95 Mo	115	2	0.00	0.00	ppb	322.52	78	2700	
107 Ag	115	2	-0.01	-0.01	ppb	40.14	61	900	
111 Cd	115	2	-0.01	-0.01	ppb	81.89	32	2700	
121 Sb	115	2	0.13	0.13	ppb	4.55	736	1125	
137 Ba	159	2	0.01	0.01	ppb	55.79	144	1350	
205 Tl	165	2	0.00	0.00	ppb	650.73	363	900	
206 (Pb)	165	2	-0.01	-0.01	ppb	36.91	178	2700	
207 (Pb)	165	2	0.00	0.00	ppb	399.93	171	2700	
208 Pb	165	2	-0.01	-0.01	ppb	76.34	723	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	26536	0.35	30792	86.2	70 - 150	
45 Sc	2	440477	0.27	494812	89.0	70 - 150	
115 In	1	196641	0.54	218521	90.0	70 - 150	
115 In	2	551169	0.55	628885	87.6	70 - 150	
159 Tb	1	511552	0.64	559235	91.5	70 - 150	
159 Tb	2	744654	1.24	858008	86.8	70 - 150	
165 Ho	1	507254	1.00	552431	91.8	70 - 150	
165 Ho	2	727171	1.02	837411	86.8	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\025SMPL.D\025SMPL.D#
Date Acquired: May 28 2014 10:35 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: RINSE
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.07	1.07	ppb	4.40	3154	2700	
23 Na	45	1	549.40	549.40	ppb	1.30	340846	225000	
24 Mg	45	1	225.50	225.50	ppb	0.17	51029	225000	
27 Al	45	1	148.20	148.20	ppb	1.21	21504	67500	
39 K	45	1	223.80	223.80	ppb	1.56	87102	225000	
44 Ca	45	1	482.20	482.20	ppb	1.45	5224	225000	
51 V	45	1	1.53	1.53	ppb	4.36	2740	2700	
52 Cr	45	1	1.46	1.46	ppb	0.38	3289	2700	
55 Mn	45	1	2.35	2.35	ppb	2.70	3759	2700	
56 Fe	45	1	396.20	396.20	ppb	0.84	746096	202500	
59 Co	45	1	1.71	1.71	ppb	2.00	5723	2700	
60 Ni	45	1	1.76	1.76	ppb	3.92	1601	2700	
65 Cu	45	1	1.87	1.87	ppb	4.82	2547	2700	
66 Zn	45	1	1.99	1.99	ppb	1.99	1076	2700	
75 As	115	1	1.41	1.41	ppb	4.63	438	2250	
78 Se	115	1	3.01	3.01	ppb	2.86	168	2700	
83 Kr	115	2	----	--------	ppb	--------	260	2700	
95 Mo	115	2	3.60	3.60	ppb	1.02	8560	2700	
107 Ag	115	2	0.72	0.72	ppb	1.73	4359	900	
111 Cd	115	2	1.40	1.40	ppb	2.29	1791	2700	
121 Sb	115	2	0.92	0.92	ppb	1.59	4714	1125	
137 Ba	159	2	1.59	1.59	ppb	4.42	3137	1350	
205 Tl	165	2	1.28	1.28	ppb	1.53	16850	900	
206 (Pb)	165	2	1.38	1.38	ppb	4.00	5686	2700	
207 (Pb)	165	2	1.33	1.33	ppb	3.39	4776	2700	
208 Pb	165	2	1.33	1.33	ppb	1.26	21949	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	31371	0.17	30792	101.9	70 - 150	
45 Sc	2	509670	0.24	494812	103.0	70 - 150	
115 In	1	225480	0.21	218521	103.2	70 - 150	
115 In	2	638880	1.32	628885	101.6	70 - 150	
159 Tb	1	579575	0.49	559235	103.6	70 - 150	
159 Tb	2	860020	0.45	858008	100.2	70 - 150	
165 Ho	1	576851	0.45	552431	104.4	70 - 150	
165 Ho	2	836451	1.31	837411	99.9	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\026_CCV.D\026_CCV.D#
Date Acquired: May 28 2014 10:41 pm
Operator: GK
Sample Name: CCV V-187473
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	49.83	ppb	0.23	133914	50	99.7	90 - 110	
23 Na	45	1	5188.00	ppb	0.99	2065901	5000	103.8	90 - 110	
24 Mg	45	1	5137.00	ppb	1.60	1101644	5000	102.7	90 - 110	
27 Al	45	1	1494.00	ppb	0.91	183984	1500	99.6	90 - 110	
39 K	45	1	5087.00	ppb	1.86	1073114	5000	101.7	90 - 110	
44 Ca	45	1	5038.00	ppb	1.11	51225	5000	100.8	90 - 110	
51 V	45	1	50.10	ppb	0.28	84190	50	100.2	90 - 110	
52 Cr	45	1	50.26	ppb	1.49	96462	50	100.5	90 - 110	
55 Mn	45	1	49.85	ppb	0.91	70451	50	99.7	90 - 110	
56 Fe	45	1	5079.00	ppb	1.86	9086001	5000	101.6	90 - 110	
59 Co	45	1	50.82	ppb	0.99	158794	50	101.6	90 - 110	
60 Ni	45	1	50.53	ppb	0.97	42642	50	101.1	90 - 110	
65 Cu	45	1	51.79	ppb	1.46	57866	50	103.6	90 - 110	
66 Zn	45	1	51.17	ppb	1.21	21257	50	102.3	90 - 110	
75 As	115	1	48.87	ppb	0.27	13507	50	97.7	90 - 110	
78 Se	115	1	242.70	ppb	1.30	5775	250	97.1	90 - 110	
83 Kr	115	2	--------	ppb	--------	282	50	#VALUE!	##### - #####	
95 Mo	115	2	50.71	ppb	0.35	112391	50	101.4	90 - 110	
107 Ag	115	2	50.59	ppb	0.79	279772	50	101.2	90 - 110	
111 Cd	115	2	50.35	ppb	1.13	59090	50	100.7	90 - 110	
121 Sb	115	2	50.70	ppb	0.38	236189	50	101.4	90 - 110	
137 Ba	159	2	51.06	ppb	0.51	91523	50	102.1	90 - 110	
205 Tl	165	2	47.25	ppb	0.45	577206	50	94.5	90 - 110	
206 (Pb)	165	2	50.57	ppb	0.57	189845	50	101.1	90 - 110	
207 (Pb)	165	2	50.92	ppb	0.54	166148	50	101.8	90 - 110	
208 Pb	165	2	50.55	ppb	0.61	756779	50	101.1	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	30151	0.51	30792	97.9	80 - 120	
45 Sc	2	482321	0.46	494812	97.5	80 - 120	
115 In	1	215987	0.44	218521	98.8	80 - 120	
115 In	2	602324	0.64	628885	95.8	80 - 120	
159 Tb	1	555799	0.85	559235	99.4	80 - 120	
159 Tb	2	817178	1.61	858008	95.2	80 - 120	
165 Ho	1	549889	0.27	552431	99.5	80 - 120	
165 Ho	2	792520	1.23	837411	94.6	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\027_CCV.D\027_CCV.D#
Date Acquired: May 28 2014 10:47 pm
Operator: GK
Sample Name: LLCCV V-187475
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: LL-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.50	ppb	0.94	1477	1	99.9	70 - 130	
23 Na	45	1	277.40	ppb	9.08	220096	250	111.0	70 - 130	
24 Mg	45	1	255.90	ppb	3.18	54205	250	102.4	70 - 130	
27 Al	45	1	81.48	ppb	5.72	12260	100	81.5	70 - 130	
39 K	45	1	255.70	ppb	6.30	87986	250	102.3	70 - 130	
44 Ca	45	1	245.40	ppb	1.65	2557	250	98.2	70 - 130	
51 V	45	1	0.99	ppb	6.25	1676	1	98.6	70 - 130	
52 Cr	45	1	0.97	ppb	4.61	2174	1	97.1	70 - 130	
55 Mn	45	1	2.92	ppb	4.03	4312	3	97.5	70 - 130	
56 Fe	45	1	155.10	ppb	3.50	279280	150	103.4	70 - 130	
59 Co	45	1	1.00	ppb	3.59	3207	1	100.4	70 - 130	
60 Ni	45	1	1.51	ppb	7.22	1297	2	100.9	70 - 130	
65 Cu	45	1	4.97	ppb	4.40	5749	5	99.4	70 - 130	
66 Zn	45	1	10.48	ppb	4.98	4415	10	104.8	70 - 130	
75 As	115	1	1.00	ppb	2.69	304	1	100.4	70 - 130	
78 Se	115	1	4.98	ppb	17.58	203	5	99.6	70 - 130	
83 Kr	115	2	--------	ppb	--------	294	1	#VALUE!	##### - #####	
95 Mo	115	2	0.93	ppb	3.19	2196	1	93.2	70 - 130	
107 Ag	115	2	0.49	ppb	1.83	2883	1	98.5	70 - 130	
111 Cd	115	2	0.94	ppb	3.45	1177	1	94.3	70 - 130	
121 Sb	115	2	0.99	ppb	3.38	4873	1	98.8	70 - 130	
137 Ba	159	2	2.38	ppb	0.55	4487	3	95.3	70 - 130	
205 Tl	165	2	0.89	ppb	1.11	11569	1	89.5	70 - 130	
206 (Pb)	165	2	1.39	ppb	1.90	5563	2	92.8	70 - 130	
207 (Pb)	165	2	1.43	ppb	4.67	4967	2	95.6	70 - 130	
208 Pb	165	2	1.41	ppb	1.75	22416	2	93.7	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	29440	3.95	30792	95.6	80 - 120	
45 Sc	2	487450	1.01	494812	98.5	80 - 120	
115 In	1	212102	3.56	218521	97.1	80 - 120	
115 In	2	614024	0.98	628885	97.6	80 - 120	
159 Tb	1	542103	3.91	559235	96.9	80 - 120	
159 Tb	2	832140	0.40	858008	97.0	80 - 120	
165 Ho	1	537732	3.88	552431	97.3	80 - 120	
165 Ho	2	810781	1.05	837411	96.8	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\028_CCB.D\028_CCB.D#
Date Acquired: May 28 2014 10:53 pm
Operator: GK
Sample Name: CCB V-187470
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.004	ppb	76.30	133	0.50	
23 Na	45	1	22.680	ppb	30.26	129723	250.00	
24 Mg	45	1	2.506	ppb	9.58	1248	250.00	
27 Al	45	1	-9.163	ppb	2.75	1563	100.00	
39 K	45	1	10.620	ppb	40.55	40194	250.00	
44 Ca	45	1	2.368	ppb	33.42	154	250.00	
51 V	45	1	0.010	ppb	76.18	80	1.00	
52 Cr	45	1	-0.014	ppb	34.35	344	1.00	
55 Mn	45	1	-0.028	ppb	50.00	266	3.00	
56 Fe	45	1	5.298	ppb	2.43	18404	150.00	
59 Co	45	1	0.000	ppb	645.86	151	1.00	
60 Ni	45	1	0.013	ppb	11.03	66	1.50	
65 Cu	45	1	-0.117	ppb	36.39	242	5.00	
66 Zn	45	1	-0.144	ppb	13.03	157	10.00	
75 As	115	1	-0.001	ppb	410.56	32	1.00	
78 Se	115	1	0.011	ppb	2720.10	91	5.00	
83 Kr	115	2	--------	ppb	--------	260	1.00	
95 Mo	115	2	0.048	ppb	34.82	199	1.00	
107 Ag	115	2	0.012	ppb	39.66	174	0.50	
111 Cd	115	2	0.007	ppb	127.78	59	1.00	
121 Sb	115	2	0.010	ppb	28.86	236	1.00	
137 Ba	159	2	-0.021	ppb	36.67	108	2.50	
205 Tl	165	2	0.012	ppb	17.47	550	1.00	
206 (Pb)	165	2	-0.010	ppb	90.51	186	1.50	
207 (Pb)	165	2	0.003	ppb	153.01	196	1.50	
208 Pb	165	2	-0.009	ppb	39.21	780	1.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	30044	1.49	30792	97.6	80 - 120	
45 Sc	2	489309	1.06	494812	98.9	80 - 120	
115 In	1	216359	0.52	218521	99.0	80 - 120	
115 In	2	616163	1.08	628885	98.0	80 - 120	
159 Tb	1	557867	0.97	559235	99.8	80 - 120	
159 Tb	2	843523	1.93	858008	98.3	80 - 120	
165 Ho	1	549549	0.93	552431	99.5	80 - 120	
165 Ho	2	816627	1.30	837411	97.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\029SMPL.D\029SMPL.D#
Date Acquired: May 28 2014 10:59 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78793-001 5X
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1304
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.01	0.01	ppb	93.67	118	2700	
23 Na	45	1	2,986,000.00	2986000.00	ppb	0.99	906759620	225000	>LDR
24 Mg	45	1	60,920.00	60920.00	ppb	0.36	10579850	225000	
27 Al	45	1	69.98	69.98	ppb	1.21	9055	67500	
39 K	45	1	16,340.00	16340.00	ppb	0.79	2724901	225000	
44 Ca	45	1	21,310.00	21310.00	ppb	0.36	175217	225000	
51 V	45	1	0.66	0.66	ppb	4.65	953	2700	
52 Cr	45	1	0.50	0.50	ppb	1.20	1076	2700	
55 Mn	45	1	11.73	11.73	ppb	0.88	13621	2700	
56 Fe	45	1	231.80	231.80	ppb	0.47	343000	202500	
59 Co	45	1	0.08	0.08	ppb	3.48	336	2700	
60 Ni	45	1	0.60	0.60	ppb	2.16	452	2700	
65 Cu	45	1	1.93	1.93	ppb	7.29	2035	2700	
66 Zn	45	1	12.83	12.83	ppb	1.08	4452	2700	
75 As	115	1	1.12	1.12	ppb	5.44	255	2250	
78 Se	115	1	1.02	1.02	ppb	51.32	86	2700	
83 Kr	115	2	----	--------	ppb	--------	354	2700	
95 Mo	115	2	0.48	0.48	ppb	9.66	903	2700	
107 Ag	115	2	0.03	0.03	ppb	14.29	226	900	
111 Cd	115	2	0.05	0.05	ppb	21.22	83	2700	
121 Sb	115	2	0.45	0.45	ppb	4.53	1805	1125	
137 Ba	159	2	14.03	14.03	ppb	0.68	20685	1350	
205 Tl	165	2	0.01	0.01	ppb	18.37	463	900	
206 (Pb)	165	2	1.88	1.88	ppb	3.95	5984	2700	
207 (Pb)	165	2	1.82	1.82	ppb	0.26	5032	2700	
208 Pb	165	2	1.82	1.82	ppb	1.64	23164	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	24431	0.79	30792	79.3	70 - 150	
45 Sc	2	406752	1.96	494812	82.2	70 - 150	
115 In	1	161347	1.01	218521	73.8	70 - 150	
115 In	2	473059	0.90	628885	75.2	70 - 150	
159 Tb	1	437890	0.42	559235	78.3	70 - 150	
159 Tb	2	669539	0.49	858008	78.0	70 - 150	
165 Ho	1	438789	0.37	552431	79.4	70 - 150	
165 Ho	2	651748	0.40	837411	77.8	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\030SMPL.D\030SMPL.D#
Date Acquired:	May 28 2014 11:04 pm
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	78793-001 MR 5X
Misc Info:	MS_7500 6020 AQUEOUS
Vial Number:	1305
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	May 28 2014 08:52 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	-0.01	-0.01	ppb	155.16	87	2700	
23 Na	45	1	3,166,000.00	3166000.00	ppb	1.10	998561730	225000	>LDR
24 Mg	45	1	64,860.00	64860.00	ppb	1.17	11700420	225000	
27 Al	45	1	68.82	68.82	ppb	2.44	9286	67500	
39 K	45	1	17,510.00	17510.00	ppb	1.45	3029753	225000	
44 Ca	45	1	22,700.00	22700.00	ppb	1.40	193876	225000	
51 V	45	1	0.62	0.62	ppb	4.11	929	2700	
52 Cr	45	1	0.46	0.46	ppb	4.22	1057	2700	
55 Mn	45	1	11.93	11.93	ppb	2.13	14389	2700	
56 Fe	45	1	215.00	215.00	ppb	0.92	331052	202500	
59 Co	45	1	0.05	0.05	ppb	3.56	268	2700	
60 Ni	45	1	0.38	0.38	ppb	3.43	316	2700	
65 Cu	45	1	1.45	1.45	ppb	10.54	1669	2700	
66 Zn	45	1	12.63	12.63	ppb	2.29	4555	2700	
75 As	115	1	1.06	1.06	ppb	2.50	246	2250	
78 Se	115	1	1.79	1.79	ppb	0.23	100	2700	
83 Kr	115	2	----	--------	ppb	--------	360	2700	
95 Mo	115	2	0.43	0.43	ppb	4.01	836	2700	
107 Ag	115	2	0.02	0.02	ppb	43.05	183	900	
111 Cd	115	2	0.02	0.02	ppb	38.20	56	2700	
121 Sb	115	2	0.44	0.44	ppb	3.75	1804	1125	
137 Ba	159	2	14.99	14.99	ppb	0.62	22085	1350	
205 Tl	165	2	-0.01	-0.01	ppb	64.93	261	900	
206 (Pb)	165	2	2.32	2.32	ppb	2.50	7315	2700	
207 (Pb)	165	2	2.29	2.29	ppb	1.94	6280	2700	
208 Pb	165	2	2.30	2.30	ppb	0.93	28976	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	25375	0.65	30792	82.4	70 - 150	
45 Sc	2	424852	2.50	494812	85.9	70 - 150	
115 In	1	163808	1.01	218521	75.0	70 - 150	
115 In	2	482404	1.97	628885	76.7	70 - 150	
159 Tb	1	436209	0.46	559235	78.0	70 - 150	
159 Tb	2	669183	2.95	858008	78.0	70 - 150	
165 Ho	1	433206	0.49	552431	78.4	70 - 150	
165 Ho	2	651038	2.45	837411	77.7	70 - 150	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\noqas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\031SMPL.D\031SMPL.D#
Date Acquired: May 28 2014 11:10 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78793-001 SD 5X
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1309
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	-0.01	-0.01	ppb	87.35	86	2700	
23 Na	45	1	591,800.00	591800.00	ppb	0.92	220216100	225000	>LDR
24 Mg	45	1	12,100.00	12100.00	ppb	0.77	2575052	225000	
27 Al	45	1	-1.39	-1.39	ppb	113.26	2493	67500	
39 K	45	1	3,184.00	3184.00	ppb	0.67	680745	225000	
44 Ca	45	1	4,218.00	4218.00	ppb	1.33	42584	225000	
51 V	45	1	0.12	0.12	ppb	7.27	258	2700	
52 Cr	45	1	0.06	0.06	ppb	12.13	487	2700	
55 Mn	45	1	2.25	2.25	ppb	1.72	3441	2700	
56 Fe	45	1	46.17	46.17	ppb	1.53	90834	202500	
59 Co	45	1	0.00	0.00	ppb	373.84	143	2700	
60 Ni	45	1	0.53	0.53	ppb	3.66	495	2700	
65 Cu	45	1	2.24	2.24	ppb	5.29	2840	2700	
66 Zn	45	1	2.73	2.73	ppb	2.73	1330	2700	
75 As	115	1	0.25	0.25	ppb	15.67	90	2250	
78 Se	115	1	0.42	0.42	ppb	108.12	91	2700	
83 Kr	115	2	----	--------	ppb	--------	313	2700	
95 Mo	115	2	0.09	0.09	ppb	17.72	288	2700	
107 Ag	115	2	0.00	0.00	ppb	192.46	89	900	
111 Cd	115	2	0.00	0.00	ppb	201.83	49	2700	
121 Sb	115	2	0.08	0.08	ppb	13.86	517	1125	
137 Ba	159	2	2.84	2.84	ppb	3.73	5112	1350	
205 Tl	165	2	-0.01	-0.01	ppb	28.20	294	900	
206 (Pb)	165	2	0.39	0.39	ppb	4.62	1649	2700	
207 (Pb)	165	2	0.39	0.39	ppb	8.26	1415	2700	
208 Pb	165	2	0.38	0.38	ppb	4.68	6449	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	29923	0.67	30792	97.2	70 - 150	
45 Sc	2	489657	0.65	494812	99.0	70 - 150	
115 In	1	195295	1.21	218521	89.4	70 - 150	
115 In	2	580761	1.11	628885	92.3	70 - 150	
159 Tb	1	504217	1.11	559235	90.2	70 - 150	
159 Tb	2	799585	0.66	858008	93.2	70 - 150	
165 Ho	1	499918	0.77	552431	90.5	70 - 150	
165 Ho	2	775975	0.97	837411	92.7	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\032SMPL.D\032SMPL.D#
Date Acquired: May 28 2014 11:16 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78793-001 MS 1 5X
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1306
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	40.97	40.97	ppb	0.50	96785	2700	
23 Na	45	1	3,227,000.00	3227000.00	ppb	1.02	1018976000	225000	>LDR
24 Mg	45	1	70,110.00	70110.00	ppb	1.19	12662750	225000	
27 Al	45	1	524.50	524.50	ppb	1.26	55908	67500	
39 K	45	1	22,190.00	22190.00	ppb	1.10	3834975	225000	
44 Ca	45	1	28,130.00	28130.00	ppb	0.79	240478	225000	
51 V	45	1	45.89	45.89	ppb	0.59	64988	2700	
52 Cr	45	1	43.05	43.05	ppb	0.21	69654	2700	
55 Mn	45	1	54.74	54.74	ppb	0.45	65164	2700	
56 Fe	45	1	674.40	674.40	ppb	1.36	1023161	202500	
59 Co	45	1	41.59	41.59	ppb	0.74	109522	2700	
60 Ni	45	1	39.95	39.95	ppb	1.10	28415	2700	
65 Cu	45	1	42.29	42.29	ppb	1.50	39873	2700	
66 Zn	45	1	49.73	49.73	ppb	0.62	17413	2700	
75 As	115	1	49.66	49.66	ppb	0.73	10170	2250	
78 Se	115	1	48.21	48.21	ppb	2.83	904	2700	
83 Kr	115	2	----	--------	ppb	--------	353	2700	
95 Mo	115	2	48.43	48.43	ppb	1.36	86796	2700	
107 Ag	115	2	8.37	8.37	ppb	0.56	37490	900	
111 Cd	115	2	42.85	42.85	ppb	1.63	40662	2700	
121 Sb	115	2	47.28	47.28	ppb	1.21	178122	1125	
137 Ba	159	2	61.03	61.03	ppb	0.63	90148	1350	
205 Tl	165	2	37.28	37.28	ppb	0.20	377836	900	
206 (Pb)	165	2	41.84	41.84	ppb	0.49	130301	2700	
207 (Pb)	165	2	41.80	41.80	ppb	1.40	113160	2700	
208 Pb	165	2	41.95	41.95	ppb	1.13	521054	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	25404	0.59	30792	82.5	70 - 150	
45 Sc	2	423874	0.31	494812	85.7	70 - 150	
115 In	1	160030	1.22	218521	73.2	70 - 150	
115 In	2	487032	0.74	628885	77.4	70 - 150	
159 Tb	1	425447	0.75	559235	76.1	70 - 150	
159 Tb	2	673553	0.85	858008	78.5	70 - 150	
165 Ho	1	423188	0.93	552431	76.6	70 - 150	
165 Ho	2	657335	0.50	837411	78.5	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\033SMPL.D\033SMPL.D#
Date Acquired: May 28 2014 11:22 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78793-001 MS 2 5X
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	40.67	40.67	ppb	1.97	97536	2700	
23 Na	45	1	3,132,000.00	3132000.00	ppb	1.08	1004597000	225000	>LDR
24 Mg	45	1	68,280.00	68280.00	ppb	1.45	12525250	225000	
27 Al	45	1	519.40	519.40	ppb	0.79	56267	67500	
39 K	45	1	21,770.00	21770.00	ppb	1.51	3824030	225000	
44 Ca	45	1	27,330.00	27330.00	ppb	1.31	237306	225000	
51 V	45	1	45.57	45.57	ppb	0.59	65559	2700	
52 Cr	45	1	42.93	42.93	ppb	1.00	70568	2700	
55 Mn	45	1	54.00	54.00	ppb	1.50	65306	2700	
56 Fe	45	1	654.40	654.40	ppb	1.45	1008754	202500	
59 Co	45	1	41.25	41.25	ppb	0.94	110365	2700	
60 Ni	45	1	39.78	39.78	ppb	1.58	28742	2700	
65 Cu	45	1	41.35	41.35	ppb	1.14	39609	2700	
66 Zn	45	1	49.20	49.20	ppb	1.38	17506	2700	
75 As	115	1	49.43	49.43	ppb	0.95	10218	2250	
78 Se	115	1	48.08	48.08	ppb	1.81	910	2700	
83 Kr	115	2	----	--------	ppb	--------	369	2700	
95 Mo	115	2	47.64	47.64	ppb	0.47	86765	2700	
107 Ag	115	2	8.45	8.45	ppb	1.04	38451	900	
111 Cd	115	2	42.53	42.53	ppb	0.62	41018	2700	
121 Sb	115	2	47.15	47.15	ppb	0.23	180489	1125	
137 Ba	159	2	60.38	60.38	ppb	0.30	90628	1350	
205 Tl	165	2	37.23	37.23	ppb	0.73	379178	900	
206 (Pb)	165	2	41.76	41.76	ppb	1.28	130671	2700	
207 (Pb)	165	2	42.11	42.11	ppb	1.28	114547	2700	
208 Pb	165	2	41.85	41.85	ppb	0.82	522328	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	25811	2.45	30792	83.8	70 - 150	
45 Sc	2	430358	0.53	494812	87.0	70 - 150	
115 In	1	161526	1.45	218521	73.9	70 - 150	
115 In	2	494905	0.63	628885	78.7	70 - 150	
159 Tb	1	426417	1.14	559235	76.3	70 - 150	
159 Tb	2	684392	0.59	858008	79.8	70 - 150	
165 Ho	1	421363	1.24	552431	76.3	70 - 150	
165 Ho	2	660532	0.60	837411	78.9	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\SW52814A.b\034SMPL.D\034SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\034SMPL.D\034SMPL.D#
Date Acquired: May 28 2014 11:28 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78793-001 PS 5X
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1308
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	45.44	45.44	ppb	0.80	107598	2700	
23 Na	45	1	2,862,000.00	2862000.00	ppb	0.70	933238910	225000	>LDR
24 Mg	45	1	63,020.00	63020.00	ppb	0.86	11753440	225000	
27 Al	45	1	1,571.00	1571.00	ppb	0.93	168232	67500	
39 K	45	1	20,960.00	20960.00	ppb	0.46	3743733	225000	
44 Ca	45	1	26,160.00	26160.00	ppb	1.22	230957	225000	
51 V	45	1	50.66	50.66	ppb	1.03	74073	2700	
52 Cr	45	1	47.94	47.94	ppb	1.37	80080	2700	
55 Mn	45	1	58.34	58.34	ppb	1.02	71704	2700	
56 Fe	45	1	4,880.00	4880.00	ppb	1.41	7597788	202500	
59 Co	45	1	46.20	46.20	ppb	1.18	125638	2700	
60 Ni	45	1	44.69	44.69	ppb	0.98	32821	2700	
65 Cu	45	1	46.40	46.40	ppb	1.88	45140	2700	
66 Zn	45	1	56.00	56.00	ppb	1.43	20224	2700	
75 As	115	1	56.38	56.38	ppb	0.20	11729	2250	
78 Se	115	1	251.50	251.50	ppb	1.23	4503	2700	
83 Kr	115	2	----	--------	ppb	--------	420	2700	
95 Mo	115	2	54.70	54.70	ppb	1.10	97975	2700	
107 Ag	115	2	46.95	46.95	ppb	0.58	209881	900	
111 Cd	115	2	48.45	48.45	ppb	1.03	45954	2700	
121 Sb	115	2	52.63	52.63	ppb	0.69	198185	1125	
137 Ba	159	2	65.36	65.36	ppb	0.51	96857	1350	
205 Tl	165	2	42.44	42.44	ppb	1.28	429109	900	
206 (Pb)	165	2	47.22	47.22	ppb	1.55	146719	2700	
207 (Pb)	165	2	47.01	47.01	ppb	0.89	126978	2700	
208 Pb	165	2	47.07	47.07	ppb	1.22	583336	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	26236	0.48	30792	85.2	70 - 150	
45 Sc	2	425010	2.44	494812	85.9	70 - 150	
115 In	1	162625	1.49	218521	74.4	70 - 150	
115 In	2	486881	2.26	628885	77.4	70 - 150	
159 Tb	1	426265	1.20	559235	76.2	70 - 150	
159 Tb	2	675813	2.04	858008	78.8	70 - 150	
165 Ho	1	425797	0.91	552431	77.1	70 - 150	
165 Ho	2	655985	1.76	837411	78.3	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\035SMPL.D\035SMPL.D#
Date Acquired: May 28 2014 11:34 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-004
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1401
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.01	0.01	ppb	20.31	141	2700	
23 Na	45	1	18,130.00	18130.00	ppb	0.43	6555909	225000	
24 Mg	45	1	3,301.00	3301.00	ppb	0.77	671233	225000	
27 Al	45	1	34.28	34.28	ppb	3.35	6485	67500	
39 K	45	1	2,575.00	2575.00	ppb	1.02	532822	225000	
44 Ca	45	1	8,266.00	8266.00	ppb	1.60	79577	225000	
51 V	45	1	1.55	1.55	ppb	2.14	2526	2700	
52 Cr	45	1	1.06	1.06	ppb	2.90	2272	2700	
55 Mn	45	1	11.33	11.33	ppb	1.93	15406	2700	
56 Fe	45	1	100.30	100.30	ppb	2.11	178498	202500	
59 Co	45	1	0.11	0.11	ppb	10.00	481	2700	
60 Ni	45	1	1.22	1.22	ppb	3.11	1029	2700	
65 Cu	45	1	0.72	0.72	ppb	7.46	1108	2700	
66 Zn	45	1	5.33	5.33	ppb	2.75	2283	2700	
75 As	115	1	246.20	246.20	ppb	0.57	60586	2250	
78 Se	115	1	1.47	1.47	ppb	53.12	111	2700	
83 Kr	115	2	----	--------	ppb	--------	291	2700	
95 Mo	115	2	7.89	7.89	ppb	1.20	16660	2700	
107 Ag	115	2	0.02	0.02	ppb	46.33	179	900	
111 Cd	115	2	0.01	0.01	ppb	45.15	62	2700	
121 Sb	115	2	0.26	0.26	ppb	4.00	1333	1125	
137 Ba	159	2	10.77	10.77	ppb	1.15	18093	1350	
205 Tl	165	2	0.09	0.09	ppb	9.55	1432	900	
206 (Pb)	165	2	0.11	0.11	ppb	15.24	592	2700	
207 (Pb)	165	2	0.10	0.10	ppb	14.84	463	2700	
208 Pb	165	2	0.10	0.10	ppb	1.64	2265	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	28580	0.22	30792	92.8	70 - 150	
45 Sc	2	466871	0.73	494812	94.4	70 - 150	
115 In	1	192631	0.34	218521	88.2	70 - 150	
115 In	2	571521	0.78	628885	90.9	70 - 150	
159 Tb	1	480445	0.10	559235	85.9	70 - 150	
159 Tb	2	761280	0.28	858008	88.7	70 - 150	
165 Ho	1	476996	0.93	552431	86.3	70 - 150	
165 Ho	2	745944	0.77	837411	89.1	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\036SMPL.D\036SMPL.D#
Date Acquired: May 28 2014 11:40 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-009
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1404
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.26	1.26	ppb	1.52	4268	2700	
23 Na	45	1	8,762.00	8762.00	ppb	0.48	3935432	225000	
24 Mg	45	1	25,280.00	25280.00	ppb	0.35	6262291	225000	
27 Al	45	1	18,260.00	18260.00	ppb	0.58	2564553	67500	
39 K	45	1	7,366.00	7366.00	ppb	1.23	1775749	225000	
44 Ca	45	1	24,880.00	24880.00	ppb	0.40	291772	225000	
51 V	45	1	58.75	58.75	ppb	0.50	114087	2700	
52 Cr	45	1	74.65	74.65	ppb	0.68	165375	2700	
55 Mn	45	1	1,784.00	1784.00	ppb	1.35	2901207	2700	
56 Fe	45	1	39,710.00	39710.00	ppb	0.16	82029528	202500	
59 Co	45	1	52.13	52.13	ppb	0.28	188228	2700	
60 Ni	45	1	310.40	310.40	ppb	0.47	302347	2700	
65 Cu	45	1	62.39	62.39	ppb	1.02	80477	2700	
66 Zn	45	1	175.10	175.10	ppb	0.94	83458	2700	
75 As	115	1	1,381.00	1381.00	ppb	0.36	330841	2250	
78 Se	115	1	11.35	11.35	ppb	7.16	310	2700	
83 Kr	115	2	----	--------	ppb	--------	344	2700	
95 Mo	115	2	2.98	2.98	ppb	0.92	6040	2700	
107 Ag	115	2	0.20	0.20	ppb	7.54	1097	900	
111 Cd	115	2	0.74	0.74	ppb	1.15	829	2700	
121 Sb	115	2	0.49	0.49	ppb	2.96	2227	1125	
137 Ba	159	2	418.90	418.90	ppb	0.19	712570	1350	
205 Tl	165	2	0.43	0.43	ppb	0.88	5427	900	
206 (Pb)	165	2	368.60	368.60	ppb	1.03	1323421	2700	
207 (Pb)	165	2	336.80	336.80	ppb	3.85	1051433	2700	
208 Pb	165	2	357.30	357.30	ppb	1.06	5115731	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	34845	1.28	30792	113.2	70 - 150	
45 Sc	2	586285	0.23	494812	118.5	70 - 150	
115 In	1	187667	1.04	218521	85.9	70 - 150	
115 In	2	544262	0.47	628885	86.5	70 - 150	
159 Tb	1	500249	2.17	559235	89.5	70 - 150	
159 Tb	2	776608	0.31	858008	90.5	70 - 150	
165 Ho	1	496065	0.98	552431	89.8	70 - 150	
165 Ho	2	758719	0.37	837411	90.6	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\037SMPL.D\037SMPL.D#
Date Acquired: May 28 2014 11:46 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-010
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1405
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.00	0.00	ppb	619.45	120	2700	
23 Na	45	1	10,140.00	10140.00	ppb	0.95	3609698	225000	
24 Mg	45	1	4,496.00	4496.00	ppb	0.69	887427	225000	
27 Al	45	1	11.58	11.58	ppb	2.43	3760	67500	
39 K	45	1	3,409.00	3409.00	ppb	0.19	673229	225000	
44 Ca	45	1	14,370.00	14370.00	ppb	1.18	134228	225000	
51 V	45	1	1.38	1.38	ppb	1.57	2186	2700	
52 Cr	45	1	0.91	0.91	ppb	0.99	1945	2700	
55 Mn	45	1	4.34	4.34	ppb	1.96	5906	2700	
56 Fe	45	1	45.98	45.98	ppb	3.75	83897	202500	
59 Co	45	1	0.08	0.08	ppb	8.25	373	2700	
60 Ni	45	1	1.21	1.21	ppb	1.35	990	2700	
65 Cu	45	1	0.50	0.50	ppb	12.09	856	2700	
66 Zn	45	1	3.89	3.89	ppb	2.39	1669	2700	
75 As	115	1	711.50	711.50	ppb	0.65	176809	2250	
78 Se	115	1	8.70	8.70	ppb	12.37	265	2700	
83 Kr	115	2	----	--------	ppb	--------	321	2700	
95 Mo	115	2	1.00	1.00	ppb	0.14	2157	2700	
107 Ag	115	2	0.00	0.00	ppb	375.08	102	900	
111 Cd	115	2	0.01	0.01	ppb	155.01	53	2700	
121 Sb	115	2	0.15	0.15	ppb	8.06	835	1125	
137 Ba	159	2	12.08	12.08	ppb	2.13	20302	1350	
205 Tl	165	2	0.02	0.02	ppb	18.36	562	900	
206 (Pb)	165	2	0.23	0.23	ppb	9.24	1008	2700	
207 (Pb)	165	2	0.22	0.22	ppb	3.27	828	2700	
208 Pb	165	2	0.22	0.22	ppb	2.24	3974	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	27746	0.83	30792	90.1	70 - 150	
45 Sc	2	462149	0.91	494812	93.4	70 - 150	
115 In	1	194623	0.57	218521	89.1	70 - 150	
115 In	2	564364	1.24	628885	89.7	70 - 150	
159 Tb	1	493205	0.99	559235	88.2	70 - 150	
159 Tb	2	762353	1.16	858008	88.9	70 - 150	
165 Ho	1	487916	1.11	552431	88.3	70 - 150	
165 Ho	2	741413	0.89	837411	88.5	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\038SMPL.D\038SMPL.D#
Date Acquired: May 28 2014 11:52 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: RINSE
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.23	1.23	ppb	4.41	3449	2700	
23 Na	45	1	6,198.00	6198.00	ppb	2.73	2492575	225000	
24 Mg	45	1	377.30	377.30	ppb	2.27	83181	225000	
27 Al	45	1	174.20	174.20	ppb	1.40	24291	67500	
39 K	45	1	288.80	288.80	ppb	0.75	98852	225000	
44 Ca	45	1	595.90	595.90	ppb	1.03	6296	225000	
51 V	45	1	1.71	1.71	ppb	1.32	2989	2700	
52 Cr	45	1	1.64	1.64	ppb	1.78	3576	2700	
55 Mn	45	1	4.25	4.25	ppb	4.87	6415	2700	
56 Fe	45	1	449.80	449.80	ppb	2.66	828912	202500	
59 Co	45	1	1.89	1.89	ppb	3.17	6163	2700	
60 Ni	45	1	2.19	2.19	ppb	3.36	1940	2700	
65 Cu	45	1	2.12	2.12	ppb	4.66	2784	2700	
66 Zn	45	1	2.30	2.30	ppb	2.01	1186	2700	
75 As	115	1	3.45	3.45	ppb	2.62	967	2250	
78 Se	115	1	4.41	4.41	ppb	10.95	190	2700	
83 Kr	115	2	----	--------	ppb	--------	301	2700	
95 Mo	115	2	3.84	3.84	ppb	2.82	8686	2700	
107 Ag	115	2	0.79	0.79	ppb	3.30	4519	900	
111 Cd	115	2	1.54	1.54	ppb	3.41	1873	2700	
121 Sb	115	2	1.04	1.04	ppb	3.37	5078	1125	
137 Ba	159	2	2.17	2.17	ppb	1.80	4019	1350	
205 Tl	165	2	1.38	1.38	ppb	1.49	17248	900	
206 (Pb)	165	2	1.80	1.80	ppb	1.43	6955	2700	
207 (Pb)	165	2	1.79	1.79	ppb	2.98	5992	2700	
208 Pb	165	2	1.78	1.78	ppb	1.14	27466	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	30746	0.96	30792	99.8	70 - 150	
45 Sc	2	487365	0.99	494812	98.5	70 - 150	
115 In	1	212198	0.36	218521	97.1	70 - 150	
115 In	2	608369	0.87	628885	96.7	70 - 150	
159 Tb	1	528885	0.65	559235	94.6	70 - 150	
159 Tb	2	817548	0.48	858008	95.3	70 - 150	
165 Ho	1	523282	1.26	552431	94.7	70 - 150	
165 Ho	2	790769	0.62	837411	94.4	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\039_CCV.D\039_CCV.D#
Date Acquired: May 28 2014 11:58 pm
Operator: GK
Sample Name: CCV V-187473
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	51.01	ppb	2.64	132281	50	102.0	90 - 110	
23 Na	45	1	5426.00	ppb	1.41	2133249	5000	108.5	90 - 110	
24 Mg	45	1	5146.00	ppb	1.11	1092428	5000	102.9	90 - 110	
27 Al	45	1	1511.00	ppb	0.36	184183	1500	100.7	90 - 110	
39 K	45	1	5117.00	ppb	0.75	1068262	5000	102.3	90 - 110	
44 Ca	45	1	5097.00	ppb	1.31	51289	5000	101.9	90 - 110	
51 V	45	1	50.39	ppb	1.03	83817	50	100.8	90 - 110	
52 Cr	45	1	50.11	ppb	0.97	95203	50	100.2	90 - 110	
55 Mn	45	1	50.44	ppb	0.44	70561	50	100.9	90 - 110	
56 Fe	45	1	5010.00	ppb	1.06	8872677	5000	100.2	90 - 110	
59 Co	45	1	50.11	ppb	1.20	154998	50	100.2	90 - 110	
60 Ni	45	1	50.12	ppb	0.62	41871	50	100.2	90 - 110	
65 Cu	45	1	50.54	ppb	0.63	55908	50	101.1	90 - 110	
66 Zn	45	1	50.79	ppb	0.50	20889	50	101.6	90 - 110	
75 As	115	1	50.98	ppb	0.93	13367	50	102.0	90 - 110	
78 Se	115	1	256.80	ppb	0.14	5792	250	102.7	90 - 110	
83 Kr	115	2	--------	ppb	--------	280	50	#VALUE!	##### - #####	
95 Mo	115	2	52.90	ppb	3.73	113401	50	105.8	90 - 110	
107 Ag	115	2	52.90	ppb	3.26	282984	50	105.8	90 - 110	
111 Cd	115	2	52.80	ppb	3.83	59924	50	105.6	90 - 110	
121 Sb	115	2	52.96	ppb	4.39	238605	50	105.9	90 - 110	
137 Ba	159	2	53.14	ppb	3.81	91793	50	106.3	90 - 110	
205 Tl	165	2	48.79	ppb	4.15	570893	50	97.6	90 - 110	
206 (Pb)	165	2	52.59	ppb	4.53	189038	50	105.2	90 - 110	
207 (Pb)	165	2	52.29	ppb	3.75	163452	50	104.6	90 - 110	
208 Pb	165	2	52.55	ppb	3.91	753467	50	105.1	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	29847	0.99	30792	96.9	80 - 120	
45 Sc	2	465666	2.61	494812	94.1	80 - 120	
115 In	1	204901	0.35	218521	93.8	80 - 120	
115 In	2	583079	3.44	628885	92.7	80 - 120	
159 Tb	1	515282	0.64	559235	92.1	80 - 120	
159 Tb	2	788057	3.13	858008	91.8	80 - 120	
165 Ho	1	510090	0.86	552431	92.3	80 - 120	
165 Ho	2	759751	3.49	837411	90.7	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\040_CCV.D\040_CCV.D#
Date Acquired: May 29 2014 12:04 am
Operator: GK
Sample Name: LLCCV V-187475
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: LL-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.47	ppb	3.29	1402	1	94.6	70 - 130	
23 Na	45	1	443.40	ppb	5.39	280905	250	177.4	70 - 130	FAIL
24 Mg	45	1	258.50	ppb	2.47	54764	250	103.4	70 - 130	
27 Al	45	1	83.15	ppb	2.89	12467	100	83.2	70 - 130	
39 K	45	1	263.40	ppb	3.87	89552	250	105.4	70 - 130	
44 Ca	45	1	259.80	ppb	3.45	2698	250	103.9	70 - 130	
51 V	45	1	0.99	ppb	4.26	1685	1	99.1	70 - 130	
52 Cr	45	1	1.00	ppb	4.00	2225	1	99.8	70 - 130	
55 Mn	45	1	2.93	ppb	1.35	4320	3	97.6	70 - 130	
56 Fe	45	1	156.00	ppb	2.88	280838	150	104.0	70 - 130	
59 Co	45	1	0.99	ppb	3.15	3175	1	99.4	70 - 130	
60 Ni	45	1	1.47	ppb	4.18	1264	2	98.1	70 - 130	
65 Cu	45	1	4.86	ppb	5.86	5627	5	97.2	70 - 130	
66 Zn	45	1	10.21	ppb	3.40	4309	10	102.1	70 - 130	
75 As	115	1	1.10	ppb	7.58	316	1	109.9	70 - 130	
78 Se	115	1	5.80	ppb	13.94	213	5	115.9	70 - 130	
83 Kr	115	2	--------	ppb	--------	296	1	#VALUE!	##### - #####	
95 Mo	115	2	0.97	ppb	2.67	2253	1	96.6	70 - 130	
107 Ag	115	2	0.49	ppb	3.14	2864	1	98.7	70 - 130	
111 Cd	115	2	0.97	ppb	2.60	1197	1	96.8	70 - 130	
121 Sb	115	2	1.01	ppb	3.45	4932	1	100.9	70 - 130	
137 Ba	159	2	2.43	ppb	3.29	4521	3	97.0	70 - 130	
205 Tl	165	2	0.88	ppb	1.32	11282	1	88.5	70 - 130	
206 (Pb)	165	2	1.45	ppb	3.02	5697	2	96.5	70 - 130	
207 (Pb)	165	2	1.42	ppb	4.03	4838	2	94.4	70 - 130	
208 Pb	165	2	1.43	ppb	2.62	22497	2	95.5	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	29432	2.65	30792	95.6	80 - 120	
45 Sc	2	486736	0.72	494812	98.4	80 - 120	
115 In	1	203311	2.84	218521	93.0	80 - 120	
115 In	2	608557	0.82	628885	96.8	80 - 120	
159 Tb	1	507887	3.08	559235	90.8	80 - 120	
159 Tb	2	824289	1.25	858008	96.1	80 - 120	
165 Ho	1	504507	3.52	552431	91.3	80 - 120	
165 Ho	2	799249	1.04	837411	95.4	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\041_CCB.D\041_CCB.D#
Date Acquired: May 29 2014 12:10 am
Operator: GK
Sample Name: CCB V-187470
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.004	ppb	307.43	129	0.50	
23 Na	45	1	185.700	ppb	18.37	193488	250.00	
24 Mg	45	1	5.943	ppb	25.37	2012	250.00	
27 Al	45	1	-8.318	ppb	9.17	1690	100.00	
39 K	45	1	15.920	ppb	5.66	41896	250.00	
44 Ca	45	1	4.521	ppb	45.50	178	250.00	
51 V	45	1	0.019	ppb	20.38	96	1.00	
52 Cr	45	1	-0.016	ppb	78.92	346	1.00	
55 Mn	45	1	0.034	ppb	49.91	357	3.00	
56 Fe	45	1	7.336	ppb	19.37	22365	150.00	
59 Co	45	1	0.005	ppb	172.98	171	1.00	
60 Ni	45	1	0.028	ppb	62.08	79	1.50	
65 Cu	45	1	-0.064	ppb	38.80	306	5.00	
66 Zn	45	1	-0.007	ppb	803.71	216	10.00	
75 As	115	1	0.092	ppb	23.15	56	1.00	
78 Se	115	1	0.953	ppb	4.58	110	5.00	
83 Kr	115	2	--------	ppb	--------	293	1.00	
95 Mo	115	2	0.056	ppb	20.36	214	1.00	
107 Ag	115	2	0.003	ppb	108.89	124	0.50	
111 Cd	115	2	0.015	ppb	3.38	68	1.00	
121 Sb	115	2	0.005	ppb	108.53	210	1.00	
137 Ba	159	2	0.023	ppb	36.13	182	2.50	
205 Tl	165	2	0.013	ppb	44.90	538	1.00	
206 (Pb)	165	2	0.009	ppb	134.47	250	1.50	
207 (Pb)	165	2	0.009	ppb	124.20	211	1.50	
208 Pb	165	2	0.009	ppb	16.00	1010	1.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	30495	0.83	30792	99.0	80 - 120	
45 Sc	2	479855	0.59	494812	97.0	80 - 120	
115 In	1	210581	0.93	218521	96.4	80 - 120	
115 In	2	609226	1.75	628885	96.9	80 - 120	
159 Tb	1	523597	0.50	559235	93.6	80 - 120	
159 Tb	2	813248	0.74	858008	94.8	80 - 120	
165 Ho	1	520222	0.30	552431	94.2	80 - 120	
165 Ho	2	787381	1.21	837411	94.0	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\042SMPL.D\042SMPL.D#
Date Acquired: May 29 2014 12:16 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-012
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1407
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	-0.01	-0.01	ppb	16.02	71	2700	
23 Na	45	1	10,120.00	10120.00	ppb	1.16	3343159	225000	
24 Mg	45	1	5,098.00	5098.00	ppb	1.97	933756	225000	
27 Al	45	1	70.54	70.54	ppb	1.76	9601	67500	
39 K	45	1	3,983.00	3983.00	ppb	1.30	724681	225000	
44 Ca	45	1	15,930.00	15930.00	ppb	2.42	138091	225000	
51 V	45	1	1.38	1.38	ppb	1.23	2031	2700	
52 Cr	45	1	1.05	1.05	ppb	6.33	2038	2700	
55 Mn	45	1	6.80	6.80	ppb	2.58	8425	2700	
56 Fe	45	1	133.20	133.20	ppb	1.86	211035	202500	
59 Co	45	1	0.20	0.20	ppb	9.17	651	2700	
60 Ni	45	1	1.87	1.87	ppb	4.54	1395	2700	
65 Cu	45	1	0.63	0.63	ppb	6.44	913	2700	
66 Zn	45	1	4.94	4.94	ppb	3.05	1921	2700	
75 As	115	1	301.80	301.80	ppb	2.07	70167	2250	
78 Se	115	1	11.58	11.58	ppb	2.69	305	2700	
83 Kr	115	2	----	--------	ppb	--------	280	2700	
95 Mo	115	2	3.44	3.44	ppb	2.27	6823	2700	
107 Ag	115	2	0.00	0.00	ppb	79.05	109	900	
111 Cd	115	2	0.01	0.01	ppb	76.58	52	2700	
121 Sb	115	2	0.16	0.16	ppb	10.81	813	1125	
137 Ba	159	2	13.68	13.68	ppb	0.88	21722	1350	
205 Tl	165	2	0.00	0.00	ppb	172.11	320	900	
206 (Pb)	165	2	1.14	1.14	ppb	1.13	3959	2700	
207 (Pb)	165	2	1.10	1.10	ppb	0.52	3334	2700	
208 Pb	165	2	1.10	1.10	ppb	0.62	15347	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	25751	1.12	30792	83.6	70 - 150	
45 Sc	2	426244	1.14	494812	86.1	70 - 150	
115 In	1	182049	0.53	218521	83.3	70 - 150	
115 In	2	532597	0.79	628885	84.7	70 - 150	
159 Tb	1	460085	0.80	559235	82.3	70 - 150	
159 Tb	2	720780	0.34	858008	84.0	70 - 150	
165 Ho	1	455892	0.32	552431	82.5	70 - 150	
165 Ho	2	701408	0.68	837411	83.8	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\043SMPL.D\043SMPL.D#
Date Acquired: May 29 2014 12:22 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-017
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1409
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	-0.01	-0.01	ppb	30.13	74	2700	
23 Na	45	1	25,840.00	25840.00	ppb	1.03	8231769	225000	
24 Mg	45	1	7,399.00	7399.00	ppb	1.23	1332054	225000	
27 Al	45	1	-4.22	-4.22	ppb	19.68	1821	67500	
39 K	45	1	7,527.00	7527.00	ppb	1.43	1317724	225000	
44 Ca	45	1	41,300.00	41300.00	ppb	1.03	351725	225000	
51 V	45	1	4.16	4.16	ppb	0.58	5917	2700	
52 Cr	45	1	0.19	0.19	ppb	9.55	611	2700	
55 Mn	45	1	2.38	2.38	ppb	0.63	3073	2700	
56 Fe	45	1	21.91	21.91	ppb	5.36	40450	202500	
59 Co	45	1	0.12	0.12	ppb	2.12	434	2700	
60 Ni	45	1	2.12	2.12	ppb	4.30	1545	2700	
65 Cu	45	1	0.56	0.56	ppb	6.45	836	2700	
66 Zn	45	1	5.42	5.42	ppb	1.01	2054	2700	
75 As	115	1	232.40	232.40	ppb	0.87	53495	2250	
78 Se	115	1	2.60	2.60	ppb	21.22	126	2700	
83 Kr	115	2	----	--------	ppb	--------	267	2700	
95 Mo	115	2	7.04	7.04	ppb	3.33	13426	2700	
107 Ag	115	2	0.00	0.00	ppb	163.67	100	900	
111 Cd	115	2	0.00	0.00	ppb	237.79	38	2700	
121 Sb	115	2	0.45	0.45	ppb	4.48	1961	1125	
137 Ba	159	2	24.98	24.98	ppb	0.62	38944	1350	
205 Tl	165	2	-0.01	-0.01	ppb	16.45	264	900	
206 (Pb)	165	2	0.16	0.16	ppb	4.72	710	2700	
207 (Pb)	165	2	0.15	0.15	ppb	3.36	581	2700	
208 Pb	165	2	0.15	0.15	ppb	4.68	2766	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	25318	1.47	30792	82.2	70 - 150	
45 Sc	2	417395	1.96	494812	84.4	70 - 150	
115 In	1	180259	1.92	218521	82.5	70 - 150	
115 In	2	516291	2.37	628885	82.1	70 - 150	
159 Tb	1	467254	1.11	559235	83.6	70 - 150	
159 Tb	2	709555	2.72	858008	82.7	70 - 150	
165 Ho	1	463021	1.17	552431	83.8	70 - 150	
165 Ho	2	690499	2.54	837411	82.5	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\044SMPL.D\044SMPL.D#
Date Acquired: May 29 2014 12:28 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-003
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1310
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Fail

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	3.36	3.36	ppb	1.28	24977	2700	
23 Na	45	1	7,375.00	7375.00	ppb	1.06	6934595	225000	
24 Mg	45	1	48,910.00	48910.00	ppb	0.18	25195820	225000	
27 Al	45	1	51,070.00	51070.00	ppb	0.76	14904070	67500	
39 K	45	1	12,970.00	12970.00	ppb	0.96	6433039	225000	
44 Ca	45	1	18,190.00	18190.00	ppb	1.37	443598	225000	
51 V	45	1	147.80	147.80	ppb	0.97	596403	2700	
52 Cr	45	1	238.10	238.10	ppb	1.41	1094962	2700	
55 Mn	45	1	2,956.00	2956.00	ppb	1.19	9997562	2700	>LDR
56 Fe	45	1	106,800.00	106800.00	ppb	0.85	458935810	202500	
59 Co	45	1	89.35	89.35	ppb	1.13	670712	2700	
60 Ni	45	1	400.70	400.70	ppb	1.07	811718	2700	
65 Cu	45	1	193.40	193.40	ppb	1.01	516813	2700	
66 Zn	45	1	453.10	453.10	ppb	1.22	448225	2700	
75 As	115	1	3,267.00	3267.00	ppb	1.32	740514	2250	>LDR
78 Se	115	1	18.47	18.47	ppb	4.45	430	2700	
83 Kr	115	2	----	--------	ppb	--------	588	2700	
95 Mo	115	2	52.19	52.19	ppb	0.62	97551	2700	
107 Ag	115	2	0.45	0.45	ppb	4.38	2209	900	
111 Cd	115	2	3.11	3.11	ppb	1.66	3115	2700	
121 Sb	115	2	0.50	0.50	ppb	2.73	2136	1125	
137 Ba	159	2	1,334.00	1334.00	ppb	1.76	2473429	1350	
205 Tl	165	2	2.02	2.02	ppb	1.18	26097	900	
206 (Pb)	165	2	253.80	253.80	ppb	1.13	993986	2700	
207 (Pb)	165	2	239.40	239.40	ppb	1.41	815246	2700	
208 Pb	165	2	254.80	254.80	ppb	1.20	3979898	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	72462	1.15	30792	235.3	70 - 150	ISTD Fail
45 Sc	2	1316467	1.86	494812	266.1	70 - 150	ISTD Fail
115 In	1	177568	2.18	218521	81.3	70 - 150	
115 In	2	507983	1.23	628885	80.8	70 - 150	
159 Tb	1	562806	1.84	559235	100.6	70 - 150	
159 Tb	2	846846	1.76	858008	98.7	70 - 150	
165 Ho	1	562026	1.90	552431	101.7	70 - 150	
165 Ho	2	827693	1.69	837411	98.8	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

2 :Element Failures
2 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\045SMPL.D\045SMPL.D#
Date Acquired: May 29 2014 12:34 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-011
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1406
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Fail

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	4.06	4.06	ppb	1.41	39630	2700	
23 Na	45	1	3,784.00	3784.00	ppb	1.35	5066125	225000	
24 Mg	45	1	104,000.00	104000.00	ppb	0.87	73364224	225000	
27 Al	45	1	66,260.00	66260.00	ppb	1.14	26471250	67500	
39 K	45	1	17,360.00	17360.00	ppb	0.32	11747100	225000	
44 Ca	45	1	72,540.00	72540.00	ppb	0.81	2421000	225000	
51 V	45	1	238.50	238.50	ppb	0.68	1317775	2700	
52 Cr	45	1	225.80	225.80	ppb	1.19	1421519	2700	
55 Mn	45	1	6,181.00	6181.00	ppb	0.84	28617730	2700	>LDR
56 Fe	45	1	148,900.00	148900.00	ppb	0.42	875745600	202500	
59 Co	45	1	213.30	213.30	ppb	0.68	2191762	2700	
60 Ni	45	1	1,216.00	1216.00	ppb	0.47	3372721	2700	
65 Cu	45	1	241.90	241.90	ppb	0.62	884743	2700	
66 Zn	45	1	712.80	712.80	ppb	0.54	965090	2700	
75 As	115	1	6,615.00	6615.00	ppb	0.54	1407337	2250	>LDR
78 Se	115	1	43.52	43.52	ppb	1.75	856	2700	
83 Kr	115	2	----	--------	ppb	--------	819	2700	
95 Mo	115	2	25.13	25.13	ppb	0.06	42351	2700	
107 Ag	115	2	2.56	2.56	ppb	1.14	10832	900	
111 Cd	115	2	8.52	8.52	ppb	1.63	7629	2700	
121 Sb	115	2	0.57	0.57	ppb	5.72	2165	1125	
137 Ba	159	2	4,918.00	4918.00	ppb	0.91	9552673	1350	>LDR
205 Tl	165	2	4.04	4.04	ppb	0.69	54305	900	
206 (Pb)	165	2	4,139.00	4139.00	ppb	0.34	16973600	2700	
207 (Pb)	165	2	4,033.00	4033.00	ppb	0.62	14375800	2700	
208 Pb	165	2	4,083.00	4083.00	ppb	0.73	66759800	2700	>LDR

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	99204	0.80	30792	322.2	70 - 150	ISTD Fail
45 Sc	2	1735740	1.95	494812	350.8	70 - 150	ISTD Fail
115 In	1	166663	1.06	218521	76.3	70 - 150	
115 In	2	457617	1.88	628885	72.8	70 - 150	
159 Tb	1	605743	0.98	559235	108.3	70 - 150	
159 Tb	2	886992	1.86	858008	103.4	70 - 150	
165 Ho	1	609585	1.14	552431	110.3	70 - 150	
165 Ho	2	866653	2.17	837411	103.5	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

4 :Element Failures — 0 :Max. Number of Failures Allowed
2 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\046SMPL.D\046SMPL.D#
Date Acquired: May 29 2014 12:39 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-016
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1408
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Fail

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	4.63	4.63	ppb	0.79	64247	2700	
23 Na	45	1	4,223.00	4223.00	ppb	0.79	8072411	225000	
24 Mg	45	1	132,200.00	132200.00	ppb	0.92	134181400	225000	
27 Al	45	1	78,380.00	78380.00	ppb	0.46	45076792	67500	>LDR
39 K	45	1	18,860.00	18860.00	ppb	1.04	18352090	225000	
44 Ca	45	1	81,500.00	81500.00	ppb	0.11	3915221	225000	
51 V	45	1	221.50	221.50	ppb	0.47	1761875	2700	
52 Cr	45	1	265.20	265.20	ppb	1.62	2402725	2700	
55 Mn	45	1	6,047.00	6047.00	ppb	0.51	40302272	2700	>LDR
56 Fe	45	1	149,800.00	149800.00	ppb	0.91	1268459000	202500	
59 Co	45	1	174.20	174.20	ppb	0.83	2577020	2700	
60 Ni	45	1	1,774.00	1774.00	ppb	0.29	7080907	2700	
65 Cu	45	1	352.80	352.80	ppb	0.95	1856909	2700	
66 Zn	45	1	908.50	908.50	ppb	0.90	1770341	2700	
75 As	115	1	8,785.00	8785.00	ppb	1.19	1838486	2250	>LDR
78 Se	115	1	53.94	53.94	ppb	0.98	1028	2700	
83 Kr	115	2	----	--------	ppb	--------	1177	2700	
95 Mo	115	2	40.01	40.01	ppb	0.95	66370	2700	
107 Ag	115	2	4.20	4.20	ppb	2.84	17445	900	
111 Cd	115	2	13.68	13.68	ppb	0.62	12039	2700	
121 Sb	115	2	1.24	1.24	ppb	2.25	4462	1125	
137 Ba	159	2	4,751.00	4751.00	ppb	0.68	9716841	1350	>LDR
205 Tl	165	2	5.21	5.21	ppb	0.42	73814	900	
206 (Pb)	165	2	8,249.00	8249.00	ppb	1.20	35681060	2700	
207 (Pb)	165	2	7,823.00	7823.00	ppb	0.20	29420480	2700	
208 Pb	165	2	7,991.00	7991.00	ppb	0.48	137863200	2700	>LDR

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	142803	0.37	30792	463.8	70 - 150	IS Fail
45 Sc	2	2470931	1.20	494812	499.4	70 - 150	IS Fail
115 In	1	163927	0.80	218521	75.0	70 - 150	
115 In	2	450680	1.46	628885	71.7	70 - 150	
159 Tb	1	645677	0.22	559235	115.5	70 - 150	
159 Tb	2	933798	1.24	858008	108.8	70 - 150	
165 Ho	1	646665	0.67	552431	117.1	70 - 150	
165 Ho	2	914289	1.15	837411	109.2	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

5 :Element Failures — 0 :Max. Number of Failures Allowed
2 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\047SMPL.D\047SMPL.D#
Date Acquired: May 29 2014 12:45 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-003 5X
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1504
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.56	1.56	ppb	3.53	5714	2700	
23 Na	45	1	3,279.00	3279.00	ppb	0.20	1726554	225000	
24 Mg	45	1	20,690.00	20690.00	ppb	1.09	5670581	225000	
27 Al	45	1	21,570.00	21570.00	ppb	0.65	3350728	67500	
39 K	45	1	5,670.00	5670.00	ppb	0.76	1523394	225000	
44 Ca	45	1	7,726.00	7726.00	ppb	0.08	100331	225000	
51 V	45	1	61.68	61.68	ppb	0.29	132485	2700	
52 Cr	45	1	97.53	97.53	ppb	0.39	238848	2700	
55 Mn	45	1	1,297.00	1297.00	ppb	0.87	2334261	2700	
56 Fe	45	1	46,580.00	46580.00	ppb	0.96	106435400	202500	
59 Co	45	1	38.65	38.65	ppb	0.24	154430	2700	
60 Ni	45	1	177.10	177.10	ppb	0.59	190843	2700	
65 Cu	45	1	84.18	84.18	ppb	0.19	119943	2700	
66 Zn	45	1	199.60	199.60	ppb	0.41	105226	2700	
75 As	115	1	654.20	654.20	ppb	0.26	166599	2250	
78 Se	115	1	4.10	4.10	ppb	22.56	172	2700	
83 Kr	115	2	----	--------	ppb	--------	368	2700	
95 Mo	115	2	10.17	10.17	ppb	0.97	21550	2700	
107 Ag	115	2	0.09	0.09	ppb	3.88	561	900	
111 Cd	115	2	0.66	0.66	ppb	3.72	779	2700	
121 Sb	115	2	0.09	0.09	ppb	8.53	579	1125	
137 Ba	159	2	310.10	310.10	ppb	0.63	559211	1350	
205 Tl	165	2	0.49	0.49	ppb	0.87	6431	900	
206 (Pb)	165	2	64.78	64.78	ppb	0.33	243609	2700	
207 (Pb)	165	2	62.14	62.14	ppb	0.70	203169	2700	
208 Pb	165	2	63.46	63.46	ppb	0.49	951940	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	38545	0.51	30792	125.2	70 - 150	
45 Sc	2	638518	0.77	494812	129.0	70 - 150	
115 In	1	199452	0.11	218521	91.3	70 - 150	
115 In	2	573977	0.85	628885	91.3	70 - 150	
159 Tb	1	536790	0.42	559235	96.0	70 - 150	
159 Tb	2	823138	0.32	858008	95.9	70 - 150	
165 Ho	1	531877	0.39	552431	96.3	70 - 150	
165 Ho	2	794194	0.55	837411	94.8	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\SW52814A.b\048SMPL.D\048SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\048SMPL.D\048SMPL.D#
Date Acquired: May 29 2014 12:51 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-003 10X
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1505
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.89	0.89	ppb	5.69	2878	2700	
23 Na	45	1	2,002.00	2002.00	ppb	1.68	967129	225000	
24 Mg	45	1	12,180.00	12180.00	ppb	0.64	2895618	225000	
27 Al	45	1	12,850.00	12850.00	ppb	0.68	1732809	67500	
39 K	45	1	3,265.00	3265.00	ppb	0.70	779326	225000	
44 Ca	45	1	4,552.00	4552.00	ppb	0.75	51350	225000	
51 V	45	1	35.95	35.95	ppb	0.81	67043	2700	
52 Cr	45	1	57.15	57.15	ppb	0.53	121618	2700	
55 Mn	45	1	770.60	770.60	ppb	0.98	1203188	2700	
56 Fe	45	1	27,410.00	27410.00	ppb	0.58	54349672	202500	
59 Co	45	1	22.61	22.61	ppb	0.75	78455	2700	
60 Ni	45	1	103.20	103.20	ppb	1.07	96573	2700	
65 Cu	45	1	49.53	49.53	ppb	0.86	61410	2700	
66 Zn	45	1	121.00	121.00	ppb	0.40	55416	2700	
75 As	115	1	330.70	330.70	ppb	0.23	84095	2250	
78 Se	115	1	2.41	2.41	ppb	21.88	135	2700	
83 Kr	115	2	----	--------	ppb	--------	306	2700	
95 Mo	115	2	5.21	5.21	ppb	0.09	11153	2700	
107 Ag	115	2	0.04	0.04	ppb	10.65	327	900	
111 Cd	115	2	0.33	0.33	ppb	5.30	420	2700	
121 Sb	115	2	0.42	0.42	ppb	2.98	2070	1125	
137 Ba	159	2	159.80	159.80	ppb	0.85	281640	1350	
205 Tl	165	2	0.26	0.26	ppb	3.87	3461	900	
206 (Pb)	165	2	32.78	32.78	ppb	0.27	121123	2700	
207 (Pb)	165	2	31.02	31.02	ppb	1.19	99650	2700	
208 Pb	165	2	31.81	31.81	ppb	0.55	468774	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	33447	0.84	30792	108.6	70 - 150	
45 Sc	2	551428	0.07	494812	111.4	70 - 150	
115 In	1	199113	1.07	218521	91.1	70 - 150	
115 In	2	578007	0.03	628885	91.9	70 - 150	
159 Tb	1	522930	0.99	559235	93.5	70 - 150	
159 Tb	2	804091	0.77	858008	93.7	70 - 150	
165 Ho	1	518526	1.01	552431	93.9	70 - 150	
165 Ho	2	779664	0.32	837411	93.1	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\049SMPL.D\049SMPL.D#
Date Acquired: May 29 2014 12:57 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-011 5X
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1506
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	2.26	2.26	ppb	1.60	9277	2700	
23 Na	45	1	2,100.00	2100.00	ppb	0.99	1344267	225000	
24 Mg	45	1	53,000.00	53000.00	ppb	0.40	16807380	225000	
27 Al	45	1	33,710.00	33710.00	ppb	0.89	6057286	67500	
39 K	45	1	8,967.00	8967.00	ppb	1.07	2755400	225000	
44 Ca	45	1	35,840.00	35840.00	ppb	0.43	537942	225000	
51 V	45	1	116.40	116.40	ppb	0.27	289207	2700	
52 Cr	45	1	110.70	110.70	ppb	0.53	313684	2700	
55 Mn	45	1	3,141.00	3141.00	ppb	0.66	6539611	2700	>LDR
56 Fe	45	1	78,530.00	78530.00	ppb	1.23	207663900	202500	
59 Co	45	1	106.40	106.40	ppb	0.33	491690	2700	
60 Ni	45	1	649.60	649.60	ppb	0.54	810028	2700	
65 Cu	45	1	126.90	126.90	ppb	0.76	208929	2700	
66 Zn	45	1	374.70	374.70	ppb	0.54	228291	2700	
75 As	115	1	1,320.00	1320.00	ppb	0.56	325365	2250	
78 Se	115	1	9.83	9.83	ppb	4.49	287	2700	
83 Kr	115	2	----	--------	ppb	--------	401	2700	
95 Mo	115	2	4.80	4.80	ppb	0.12	9700	2700	
107 Ag	115	2	0.49	0.49	ppb	1.96	2547	900	
111 Cd	115	2	1.73	1.73	ppb	1.37	1880	2700	
121 Sb	115	2	0.11	0.11	ppb	3.31	626	1125	
137 Ba	159	2	1,260.00	1260.00	ppb	0.22	2230886	1350	
205 Tl	165	2	1.03	1.03	ppb	1.28	12937	900	
206 (Pb)	165	2	1,097.00	1097.00	ppb	1.25	4115935	2700	
207 (Pb)	165	2	1,052.00	1052.00	ppb	1.52	3432117	2700	
208 Pb	165	2	1,060.00	1060.00	ppb	1.20	15865800	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	44608	0.93	30792	144.9	70 - 150	
45 Sc	2	723302	0.25	494812	146.2	70 - 150	
115 In	1	193075	0.89	218521	88.4	70 - 150	
115 In	2	545112	1.36	628885	86.7	70 - 150	
159 Tb	1	539853	0.71	559235	96.5	70 - 150	
159 Tb	2	808469	0.42	858008	94.2	70 - 150	
165 Ho	1	536018	0.64	552431	97.0	70 - 150	
165 Ho	2	793174	1.67	837411	94.7	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\050SMPL.D\050SMPL.D#
Date Acquired: May 29 2014 01:03 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-011 10X
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1507
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.41	1.41	ppb	0.81	4854	2700	
23 Na	45	1	1,262.00	1262.00	ppb	1.00	728037	225000	
24 Mg	45	1	33,070.00	33070.00	ppb	1.13	8676697	225000	
27 Al	45	1	21,150.00	21150.00	ppb	0.50	3146949	67500	
39 K	45	1	5,687.00	5687.00	ppb	1.73	1462870	225000	
44 Ca	45	1	22,000.00	22000.00	ppb	0.58	273311	225000	
51 V	45	1	70.91	70.91	ppb	0.52	145846	2700	
52 Cr	45	1	68.44	68.44	ppb	0.64	160634	2700	
55 Mn	45	1	1,970.00	1970.00	ppb	1.15	3393991	2700	
56 Fe	45	1	48,470.00	48470.00	ppb	0.68	106060500	202500	
59 Co	45	1	66.20	66.20	ppb	0.57	253170	2700	
60 Ni	45	1	403.50	403.50	ppb	0.21	416406	2700	
65 Cu	45	1	79.21	79.21	ppb	0.34	108107	2700	
66 Zn	45	1	233.30	233.30	ppb	0.41	117687	2700	
75 As	115	1	657.40	657.40	ppb	0.70	165695	2250	
78 Se	115	1	5.13	5.13	ppb	6.47	192	2700	
83 Kr	115	2	----	--------	ppb	--------	353	2700	
95 Mo	115	2	2.40	2.40	ppb	1.66	5068	2700	
107 Ag	115	2	0.26	0.26	ppb	3.89	1441	900	
111 Cd	115	2	0.89	0.89	ppb	2.43	1022	2700	
121 Sb	115	2	0.04	0.04	ppb	15.22	344	1125	
137 Ba	159	2	660.60	660.60	ppb	1.02	1173594	1350	
205 Tl	165	2	0.54	0.54	ppb	2.81	6876	900	
206 (Pb)	165	2	575.60	575.60	ppb	1.14	2143917	2700	
207 (Pb)	165	2	562.40	562.40	ppb	1.48	1821158	2700	
208 Pb	165	2	561.20	561.20	ppb	1.59	8337547	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	369111	1.36	30792	119.9	70 - 150	
45 Sc	2	598163	1.54	494812	120.9	70 - 150	
115 In	1	197388	1.41	218521	90.3	70 - 150	
115 In	2	565668	1.90	628885	89.9	70 - 150	
159 Tb	1	530589	1.51	559235	94.9	70 - 150	
159 Tb	2	811119	1.44	858008	94.5	70 - 150	
165 Ho	1	523265	1.44	552431	94.7	70 - 150	
165 Ho	2	787219	1.32	837411	94.0	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\051SMPL.D\051SMPL.D#
Date Acquired: May 29 2014 01:08 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: RINSE
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.18	1.18	ppb	5.15	3355	2700	
23 Na	45	1	5,967.00	5967.00	ppb	0.62	2330701	225000	
24 Mg	45	1	1,090.00	1090.00	ppb	8.17	231764	225000	
27 Al	45	1	623.70	623.70	ppb	8.34	77506	67500	
39 K	45	1	386.70	386.70	ppb	2.52	115519	225000	
44 Ca	45	1	983.30	983.30	ppb	6.28	9987	225000	
51 V	45	1	2.98	2.98	ppb	4.72	5017	2700	
52 Cr	45	1	3.23	3.23	ppb	6.72	6481	2700	
55 Mn	45	1	40.23	40.23	ppb	9.94	56271	2700	
56 Fe	45	1	1,476.00	1476.00	ppb	6.78	2617217	202500	
59 Co	45	1	3.02	3.02	ppb	5.32	9455	2700	
60 Ni	45	1	11.80	11.80	ppb	10.14	9887	2700	
65 Cu	45	1	4.21	4.21	ppb	8.20	4991	2700	
66 Zn	45	1	7.82	7.82	ppb	6.83	3392	2700	
75 As	115	1	11.99	11.99	ppb	8.98	3227	2250	
78 Se	115	1	4.42	4.42	ppb	9.05	188	2700	
83 Kr	115	2	----	--------	ppb	--------	303	2700	
95 Mo	115	2	3.78	3.78	ppb	3.23	8571	2700	
107 Ag	115	2	0.78	0.78	ppb	3.39	4485	900	
111 Cd	115	2	1.52	1.52	ppb	1.45	1853	2700	
121 Sb	115	2	1.04	1.04	ppb	1.74	5088	1125	
137 Ba	159	2	11.49	11.49	ppb	0.73	20714	1350	
205 Tl	165	2	1.39	1.39	ppb	2.00	17386	900	
206 (Pb)	165	2	13.16	13.16	ppb	0.45	49735	2700	
207 (Pb)	165	2	12.50	12.50	ppb	2.08	41069	2700	
208 Pb	165	2	12.68	12.68	ppb	0.52	191101	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	29803	0.51	30792	96.8	70 - 150	
45 Sc	2	491803	0.51	494812	99.4	70 - 150	
115 In	1	208760	0.47	218521	95.5	70 - 150	
115 In	2	610192	0.96	628885	97.0	70 - 150	
159 Tb	1	526016	1.12	559235	94.1	70 - 150	
159 Tb	2	817621	1.13	858008	95.3	70 - 150	
165 Ho	1	519721	1.29	552431	94.1	70 - 150	
165 Ho	2	795267	0.16	837411	95.0	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\052_CCV.D\052_CCV.D#
Date Acquired: May 29 2014 01:14 am
Operator: GK
Sample Name: CCV V-187473
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	46.87	ppb	1.18	123442	50	93.7	90 - 110	
23 Na	45	1	5139.00	ppb	0.98	1981025	5000	102.8	90 - 110	
24 Mg	45	1	4932.00	ppb	0.29	1023347	5000	98.6	90 - 110	
27 Al	45	1	1462.00	ppb	1.07	174291	1500	97.5	90 - 110	
39 K	45	1	4965.00	ppb	0.48	1014231	5000	99.3	90 - 110	
44 Ca	45	1	4902.00	ppb	0.40	48224	5000	98.0	90 - 110	
51 V	45	1	48.86	ppb	1.00	79444	50	97.7	90 - 110	
52 Cr	45	1	49.92	ppb	2.74	92688	50	99.8	90 - 110	
55 Mn	45	1	49.28	ppb	0.84	67393	50	98.6	90 - 110	
56 Fe	45	1	4895.00	ppb	0.50	8472232	5000	97.9	90 - 110	
59 Co	45	1	49.36	ppb	0.30	149208	50	98.7	90 - 110	
60 Ni	45	1	49.38	ppb	0.89	40312	50	98.8	90 - 110	
65 Cu	45	1	50.57	ppb	0.59	54671	50	101.1	90 - 110	
66 Zn	45	1	49.31	ppb	0.66	19827	50	98.6	90 - 110	
75 As	115	1	49.97	ppb	0.57	12965	50	99.9	90 - 110	
78 Se	115	1	245.80	ppb	1.42	5491	250	98.3	90 - 110	
83 Kr	115	2	--------	ppb	--------	307	50	#VALUE!	##### - #####	
95 Mo	115	2	49.30	ppb	0.82	107323	50	98.6	90 - 110	
107 Ag	115	2	49.22	ppb	0.87	267330	50	98.4	90 - 110	
111 Cd	115	2	48.70	ppb	0.04	56133	50	97.4	90 - 110	
121 Sb	115	2	48.92	ppb	1.21	223841	50	97.8	90 - 110	
137 Ba	159	2	50.05	ppb	1.22	86335	50	100.1	90 - 110	
205 Tl	165	2	45.15	ppb	0.84	533278	50	90.3	90 - 110	
206 (Pb)	165	2	49.00	ppb	0.61	177821	50	98.0	90 - 110	
207 (Pb)	165	2	49.19	ppb	1.57	155181	50	98.4	90 - 110	
208 Pb	165	2	49.14	ppb	0.79	711278	50	98.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	29169	0.57	30792	94.7	80 - 120	
45 Sc	2	472708	0.58	494812	95.5	80 - 120	
115 In	1	202750	0.68	218521	92.8	80 - 120	
115 In	2	591611	0.87	628885	94.1	80 - 120	
159 Tb	1	509357	0.68	559235	91.1	80 - 120	
159 Tb	2	786272	0.11	858008	91.6	80 - 120	
165 Ho	1	505521	1.68	552431	91.5	80 - 120	
165 Ho	2	766122	0.29	837411	91.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\053_CCV.D\053_CCV.D#
Date Acquired:	May 29 2014 01:20 am
Operator:	GK
Sample Name:	LLCCV V-187475
Misc Info:	MS_7500 6020 AQUEOUS
Vial Number:	3105
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update:	May 28 2014 08:52 pm
Sample Type:	LL-CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.47	ppb	13.39	1337	1	93.5	70 - 130	
23 Na	45	1	370.40	ppb	5.42	247884	250	148.2	70 - 130	FAIL
24 Mg	45	1	263.30	ppb	1.21	54383	250	105.3	70 - 130	
27 Al	45	1	86.81	ppb	5.03	12577	100	86.8	70 - 130	
39 K	45	1	261.20	ppb	1.35	86892	250	104.5	70 - 130	
44 Ca	45	1	258.10	ppb	3.19	2615	250	103.2	70 - 130	
51 V	45	1	0.99	ppb	2.77	1647	1	99.3	70 - 130	
52 Cr	45	1	1.01	ppb	4.02	2185	1	100.6	70 - 130	
55 Mn	45	1	3.52	ppb	4.44	5005	3	117.3	70 - 130	
56 Fe	45	1	168.00	ppb	2.87	294235	150	112.0	70 - 130	
59 Co	45	1	1.01	ppb	1.11	3131	1	100.5	70 - 130	
60 Ni	45	1	1.61	ppb	5.43	1341	2	107.1	70 - 130	
65 Cu	45	1	4.77	ppb	4.35	5395	5	95.4	70 - 130	
66 Zn	45	1	10.30	ppb	3.54	4233	10	103.0	70 - 130	
75 As	115	1	1.24	ppb	7.71	347	1	124.3	70 - 130	
78 Se	115	1	5.64	ppb	6.61	206	5	112.8	70 - 130	
83 Kr	115	2	--------	ppb	-------	294	1	#VALUE!	##### - #####	
95 Mo	115	2	1.03	ppb	8.47	2285	1	102.8	70 - 130	
107 Ag	115	2	0.51	ppb	1.50	2827	1	102.1	70 - 130	
111 Cd	115	2	0.96	ppb	0.92	1134	1	96.0	70 - 130	
121 Sb	115	2	0.97	ppb	2.53	4522	1	96.7	70 - 130	
137 Ba	159	2	2.58	ppb	1.42	4534	3	103.2	70 - 130	
205 Tl	165	2	0.89	ppb	1.70	10787	1	89.3	70 - 130	
206 (Pb)	165	2	1.60	ppb	2.96	5923	2	106.3	70 - 130	
207 (Pb)	165	2	1.56	ppb	1.85	5044	2	104.2	70 - 130	
208 Pb	165	2	1.60	ppb	1.52	23645	2	106.3	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	28688	0.93	30792	93.2	80 - 120	
45 Sc	2	468869	0.18	494812	94.8	80 - 120	
115 In	1	200087	0.54	218521	91.6	80 - 120	
115 In	2	581555	0.55	628885	92.5	80 - 120	
159 Tb	1	504061	0.52	559235	90.1	80 - 120	
159 Tb	2	778692	0.42	858008	90.8	80 - 120	
165 Ho	1	495089	0.39	552431	89.6	80 - 120	
165 Ho	2	757389	0.51	837411	90.4	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\noqas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

1	:Element Failures	0	:Max. Number of Failures Allowed
0	:ISTD Failures	0	:Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\054_CCB.D\054_CCB.D#
Date Acquired:	May 29 2014 01:26 am
Operator:	GK
Sample Name:	CCB V-187470
Misc Info:	MS_7500 6020 AQUEOUS
Vial Number:	3102
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update:	May 28 2014 08:52 pm
Sample Type:	6-CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.003	ppb	35.74	131	0.50	
23 Na	45	1	126.000	ppb	12.37	166381	250.00	
24 Mg	45	1	17.620	ppb	19.85	4432	250.00	
27 Al	45	1	-1.207	ppb	138.19	2497	100.00	
39 K	45	1	17.910	ppb	34.75	41172	250.00	
44 Ca	45	1	12.330	ppb	13.07	251	250.00	
51 V	45	1	0.033	ppb	28.28	118	1.00	
52 Cr	45	1	0.018	ppb	23.79	401	1.00	
55 Mn	45	1	0.648	ppb	17.91	1200	3.00	
56 Fe	45	1	23.240	ppb	16.42	49831	150.00	
59 Co	45	1	0.026	ppb	20.91	231	1.00	
60 Ni	45	1	0.182	ppb	22.72	206	1.50	
65 Cu	45	1	-0.066	ppb	47.04	296	5.00	
66 Zn	45	1	-0.055	ppb	94.60	191	10.00	
75 As	115	1	0.234	ppb	22.84	93	1.00	
78 Se	115	1	1.046	ppb	56.83	111	5.00	
83 Kr	115	2	--------	ppb	--------	334	1.00	
95 Mo	115	2	0.067	ppb	10.49	238	1.00	
107 Ag	115	2	0.005	ppb	6.77	136	0.50	
111 Cd	115	2	0.013	ppb	28.47	65	1.00	
121 Sb	115	2	0.000	ppb	3265.70	184	1.00	
137 Ba	159	2	0.084	ppb	11.86	290	2.50	
205 Tl	165	2	0.004	ppb	29.72	430	1.00	
206 (Pb)	165	2	0.111	ppb	7.35	636	1.50	
207 (Pb)	165	2	0.108	ppb	15.88	534	1.50	
208 Pb	165	2	0.109	ppb	6.81	2524	1.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	29691	2.15	30792	96.4	80 - 120	
45 Sc	2	488647	1.27	494812	98.8	80 - 120	
115 In	1	208167	2.08	218521	95.3	80 - 120	
115 In	2	604035	0.31	628885	96.0	80 - 120	
159 Tb	1	522154	1.04	559235	93.4	80 - 120	
159 Tb	2	811959	0.43	858008	94.6	80 - 120	
165 Ho	1	516734	1.48	552431	93.5	80 - 120	
165 Ho	2	792939	0.62	837411	94.7	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\055SMPL.D\055SMPL.D#
Date Acquired: May 29 2014 01:32 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-016 5X
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1508
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Fail

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	2.86	2.86	ppb	1.06	15994	2700	
23 Na	45	1	2,614.00	2614.00	ppb	1.24	2014105	225000	
24 Mg	45	1	79,130.00	79130.00	ppb	1.19	31008320	225000	
27 Al	45	1	47,740.00	47740.00	ppb	0.50	10601630	67500	
39 K	45	1	11,550.00	11550.00	ppb	0.43	4365706	225000	
44 Ca	45	1	50,770.00	50770.00	ppb	0.53	941540	225000	
51 V	45	1	129.30	129.30	ppb	1.46	397063	2700	
52 Cr	45	1	159.00	159.00	ppb	0.16	556614	2700	
55 Mn	45	1	3,669.00	3669.00	ppb	0.91	9440517	2700	>LDR
56 Fe	45	1	95,200.00	95200.00	ppb	1.22	311119300	202500	
59 Co	45	1	105.20	105.20	ppb	1.04	600620	2700	
60 Ni	45	1	1,147.00	1147.00	ppb	1.86	1767409	2700	
65 Cu	45	1	218.90	218.90	ppb	1.93	445006	2700	
66 Zn	45	1	586.10	586.10	ppb	0.73	441062	2700	
75 As	115	1	1,806.00	1806.00	ppb	0.89	436879	2250	
78 Se	115	1	12.36	12.36	ppb	4.33	333	2700	
83 Kr	115	2	----	--------	ppb	--------	443	2700	
95 Mo	115	2	7.78	7.78	ppb	1.82	15755	2700	
107 Ag	115	2	0.84	0.84	ppb	1.84	4337	900	
111 Cd	115	2	2.78	2.78	ppb	1.32	3005	2700	
121 Sb	115	2	0.24	0.24	ppb	10.35	1178	1125	
137 Ba	159	2	1,304.00	1304.00	ppb	0.31	2420219	1350	
205 Tl	165	2	1.42	1.42	ppb	0.96	18394	900	
206 (Pb)	165	2	2,303.00	2303.00	ppb	1.04	8969148	2700	
207 (Pb)	165	2	2,176.00	2176.00	ppb	1.33	7367361	2700	
208 Pb	165	2	2,236.00	2236.00	ppb	1.01	34736608	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	55132	1.62	30792	179.0	70 - 150	IS Fail
45 Sc	2	990622	0.89	494812	200.2	70 - 150	IS Fail
115 In	1	189484	0.53	218521	86.7	70 - 150	
115 In	2	547813	0.66	628885	87.1	70 - 150	
159 Tb	1	554468	0.51	559235	99.1	70 - 150	
159 Tb	2	847199	0.14	858008	98.7	70 - 150	
165 Ho	1	552297	1.32	552431	100.0	70 - 150	
165 Ho	2	823294	1.20	837411	98.3	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
2 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\056SMPL.D\056SMPL.D#
Date Acquired: May 29 2014 01:38 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: 78787-016 10X
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1509
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	2.09	2.09	ppb	2.76	8299	2700	
23 Na	45	1	1,811.00	1811.00	ppb	0.89	1127481	225000	
24 Mg	45	1	53,120.00	53120.00	ppb	0.96	16037140	225000	
27 Al	45	1	31,830.00	31830.00	ppb	1.25	5446644	67500	
39 K	45	1	7,916.00	7916.00	ppb	1.26	2322294	225000	
44 Ca	45	1	32,570.00	32570.00	ppb	1.21	465458	225000	
51 V	45	1	86.11	86.11	ppb	1.68	203773	2700	
52 Cr	45	1	105.80	105.80	ppb	1.28	285510	2700	
55 Mn	45	1	2,480.00	2480.00	ppb	0.93	4915674	2700	
56 Fe	45	1	64,620.00	64620.00	ppb	0.62	162696500	202500	
59 Co	45	1	70.20	70.20	ppb	1.68	308888	2700	
60 Ni	45	1	774.10	774.10	ppb	1.83	919009	2700	
65 Cu	45	1	147.80	147.80	ppb	1.48	231586	2700	
66 Zn	45	1	398.70	398.70	ppb	1.59	231245	2700	
75 As	115	1	892.50	892.50	ppb	0.90	224559	2250	
78 Se	115	1	6.22	6.22	ppb	11.59	215	2700	
83 Kr	115	2	----	--------	ppb	--------	353	2700	
95 Mo	115	2	3.88	3.88	ppb	3.18	8229	2700	
107 Ag	115	2	0.43	0.43	ppb	6.05	2354	900	
111 Cd	115	2	1.40	1.40	ppb	4.17	1604	2700	
121 Sb	115	2	0.10	0.10	ppb	9.98	630	1125	
137 Ba	159	2	694.70	694.70	ppb	0.47	1261977	1350	
205 Tl	165	2	0.76	0.76	ppb	2.50	9821	900	
206 (Pb)	165	2	1,248.00	1248.00	ppb	0.97	4760120	2700	
207 (Pb)	165	2	1,179.00	1179.00	ppb	1.22	3907675	2700	
208 Pb	165	2	1,203.00	1203.00	ppb	0.82	18293980	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	42473	0.62	30792	137.9	70 - 150	
45 Sc	2	698851	1.77	494812	141.2	70 - 150	
115 In	1	197074	0.80	218521	90.2	70 - 150	
115 In	2	570827	1.91	628885	90.8	70 - 150	
159 Tb	1	541549	0.45	559235	96.8	70 - 150	
159 Tb	2	829398	1.33	858008	96.7	70 - 150	
165 Ho	1	541301	0.42	552431	98.0	70 - 150	
165 Ho	2	805866	1.21	837411	96.2	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\057SMPL.D\057SMPL.D#
Date Acquired: May 29 2014 01:44 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: RINSE
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: May 28 2014 08:52 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	1.20	1.20	ppb	3.38	3439	2700	
23 Na	45	1	5,887.00	5887.00	ppb	0.72	2316944	225000	
24 Mg	45	1	1,004.00	1004.00	ppb	0.62	214884	225000	
27 Al	45	1	563.50	563.50	ppb	1.19	70757	67500	
39 K	45	1	379.80	379.80	ppb	0.94	114901	225000	
44 Ca	45	1	937.10	937.10	ppb	1.79	9588	225000	
51 V	45	1	2.84	2.84	ppb	1.61	4804	2700	
52 Cr	45	1	3.06	3.06	ppb	1.31	6186	2700	
55 Mn	45	1	35.80	35.80	ppb	0.97	50452	2700	
56 Fe	45	1	1,326.00	1326.00	ppb	2.66	2367890	202500	
59 Co	45	1	2.87	2.87	ppb	0.99	9081	2700	
60 Ni	45	1	10.63	10.63	ppb	0.90	8976	2700	
65 Cu	45	1	3.96	3.96	ppb	4.03	4746	2700	
66 Zn	45	1	7.23	7.23	ppb	2.92	3173	2700	
75 As	115	1	11.05	11.05	ppb	0.87	3001	2250	
78 Se	115	1	3.95	3.95	ppb	18.77	178	2700	
83 Kr	115	2	----	--------	ppb	--------	276	2700	
95 Mo	115	2	3.79	3.79	ppb	1.85	8598	2700	
107 Ag	115	2	0.81	0.81	ppb	1.59	4666	900	
111 Cd	115	2	1.54	1.54	ppb	4.69	1879	2700	
121 Sb	115	2	1.04	1.04	ppb	4.84	5093	1125	
137 Ba	159	2	8.95	8.95	ppb	0.76	16334	1350	
205 Tl	165	2	1.40	1.40	ppb	0.62	17535	900	
206 (Pb)	165	2	10.35	10.35	ppb	0.76	39296	2700	
207 (Pb)	165	2	9.86	9.86	ppb	0.93	32552	2700	
208 Pb	165	2	10.13	10.13	ppb	0.52	153453	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	30011	1.31	30792	97.5	70 - 150	
45 Sc	2	494494	0.83	494812	99.9	70 - 150	
115 In	1	210427	2.15	218521	96.3	70 - 150	
115 In	2	611226	1.12	628885	97.2	70 - 150	
159 Tb	1	530058	1.53	559235	94.8	70 - 150	
159 Tb	2	825983	1.27	858008	96.3	70 - 150	
165 Ho	1	521461	1.99	552431	94.4	70 - 150	
165 Ho	2	798236	0.52	837411	95.3	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\058_CCV.D\058_CCV.D#
Date Acquired: May 29 2014 01:50 am
Operator: GK
Sample Name: CCV V-187473
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	47.84	ppb	0.45	129200	50	95.7	90 - 110	
23 Na	45	1	5115.00	ppb	0.23	2029370	5000	102.3	90 - 110	
24 Mg	45	1	4964.00	ppb	1.89	1059860	5000	99.3	90 - 110	
27 Al	45	1	1458.00	ppb	1.18	178919	1500	97.2	90 - 110	
39 K	45	1	4919.00	ppb	1.07	1034272	5000	98.4	90 - 110	
44 Ca	45	1	4838.00	ppb	1.32	48971	5000	96.8	90 - 110	
51 V	45	1	49.39	ppb	0.79	82627	50	98.8	90 - 110	
52 Cr	45	1	49.31	ppb	1.02	94228	50	98.6	90 - 110	
55 Mn	45	1	49.73	ppb	0.90	69976	50	99.5	90 - 110	
56 Fe	45	1	4936.00	ppb	0.83	8790508	5000	98.7	90 - 110	
59 Co	45	1	49.95	ppb	1.59	155371	50	99.9	90 - 110	
60 Ni	45	1	50.16	ppb	1.20	42141	50	100.3	90 - 110	
65 Cu	45	1	49.97	ppb	1.39	55590	50	99.9	90 - 110	
66 Zn	45	1	49.94	ppb	1.31	20657	50	99.9	90 - 110	
75 As	115	1	49.86	ppb	0.93	13336	50	99.7	90 - 110	
78 Se	115	1	242.10	ppb	1.74	5575	250	96.8	90 - 110	
83 Kr	115	2	--------	ppb	-------	306	50	#VALUE!	##### - #####	
95 Mo	115	2	49.82	ppb	0.79	110251	50	99.6	90 - 110	
107 Ag	115	2	50.01	ppb	0.41	276103	50	100.0	90 - 110	
111 Cd	115	2	49.61	ppb	0.85	58124	50	99.2	90 - 110	
121 Sb	115	2	49.39	ppb	1.31	229711	50	98.8	90 - 110	
137 Ba	159	2	49.65	ppb	0.40	88569	50	99.3	90 - 110	
205 Tl	165	2	45.62	ppb	0.28	556408	50	91.2	90 - 110	
206 (Pb)	165	2	49.26	ppb	0.61	184593	50	98.5	90 - 110	
207 (Pb)	165	2	49.18	ppb	0.82	160207	50	98.4	90 - 110	
208 Pb	165	2	49.18	ppb	0.25	734999	50	98.4	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	30015	0.37	30792	97.5	80 - 120	
45 Sc	2	484676	0.77	494812	98.0	80 - 120	
115 In	1	209026	1.11	218521	95.7	80 - 120	
115 In	2	601335	0.99	628885	95.6	80 - 120	
159 Tb	1	530019	1.23	559235	94.8	80 - 120	
159 Tb	2	813146	1.06	858008	94.8	80 - 120	
165 Ho	1	523258	1.15	552431	94.7	80 - 120	
165 Ho	2	791189	0.56	837411	94.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\SW52814A.b\059_CCV.D\059_CCV.D#
Date Acquired: May 29 2014 01:56 am
Operator: GK
Sample Name: LLCCV V-187475
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: May 28 2014 08:52 pm
Sample Type: LL-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.46	ppb	1.34	1341	1	92.3	70 - 130	
23 Na	45	1	321.20	ppb	6.10	233415	250	128.5	70 - 130	
24 Mg	45	1	260.90	ppb	3.23	54615	250	104.4	70 - 130	
27 Al	45	1	85.25	ppb	3.63	12562	100	85.3	70 - 130	
39 K	45	1	252.40	ppb	8.04	86279	250	101.0	70 - 130	
44 Ca	45	1	251.30	ppb	4.55	2581	250	100.5	70 - 130	
51 V	45	1	1.00	ppb	1.36	1676	1	99.6	70 - 130	
52 Cr	45	1	1.01	ppb	5.19	2213	1	100.6	70 - 130	
55 Mn	45	1	3.44	ppb	3.54	4960	3	114.6	70 - 130	
56 Fe	45	1	166.20	ppb	2.93	295201	150	110.8	70 - 130	
59 Co	45	1	0.99	ppb	0.62	3130	1	99.1	70 - 130	
60 Ni	45	1	1.65	ppb	5.13	1390	2	109.7	70 - 130	
65 Cu	45	1	4.82	ppb	2.07	5523	5	96.4	70 - 130	
66 Zn	45	1	10.32	ppb	4.22	4300	10	103.2	70 - 130	
75 As	115	1	1.13	ppb	0.91	324	1	112.8	70 - 130	
78 Se	115	1	5.46	ppb	14.67	206	5	109.1	70 - 130	
83 Kr	115	2	--------	ppb	-------	281	1	#VALUE!	##### - #####	
95 Mo	115	2	0.99	ppb	2.41	2231	1	98.7	70 - 130	
107 Ag	115	2	0.51	ppb	2.00	2873	1	102.1	70 - 130	
111 Cd	115	2	0.96	ppb	0.88	1153	1	96.0	70 - 130	
121 Sb	115	2	1.00	ppb	5.00	4742	1	99.9	70 - 130	
137 Ba	159	2	2.51	ppb	5.42	4528	3	100.4	70 - 130	
205 Tl	165	2	0.90	ppb	2.27	11060	1	89.9	70 - 130	
206 (Pb)	165	2	1.59	ppb	1.25	6027	2	106.1	70 - 130	
207 (Pb)	165	2	1.63	ppb	0.19	5335	2	108.3	70 - 130	
208 Pb	165	2	1.57	ppb	2.16	23742	2	104.7	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	29100	4.85	30792	94.5	80 - 120	
45 Sc	2	475840	0.27	494812	96.2	80 - 120	
115 In	1	204200	5.51	218521	93.4	80 - 120	
115 In	2	591037	0.69	628885	94.0	80 - 120	
159 Tb	1	510935	4.88	559235	91.4	80 - 120	
159 Tb	2	797987	0.54	858008	93.0	80 - 120	
165 Ho	1	505737	4.71	552431	91.5	80 - 120	
165 Ho	2	771762	0.71	837411	92.2	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\SW52814A.b\060_CCB.D\060_CCB.D#
Date Acquired:	May 29 2014 02:02 am
Operator:	GK
Sample Name:	CCB V-187470
Misc Info:	MS_7500 6020 AQUEOUS
Vial Number:	3102
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update:	May 28 2014 08:52 pm
Sample Type:	6-CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	-0.011	ppb	32.54	90	0.50	
23 Na	45	1	100.400	ppb	10.76	154227	250.00	
24 Mg	45	1	16.630	ppb	16.19	4144	250.00	
27 Al	45	1	-1.728	ppb	75.12	2391	100.00	
39 K	45	1	19.080	ppb	2.77	40708	250.00	
44 Ca	45	1	9.336	ppb	24.58	218	250.00	
51 V	45	1	0.027	ppb	34.83	106	1.00	
52 Cr	45	1	0.011	ppb	84.42	381	1.00	
55 Mn	45	1	0.655	ppb	17.10	1188	3.00	
56 Fe	45	1	21.560	ppb	14.83	46023	150.00	
59 Co	45	1	0.012	ppb	61.41	184	1.00	
60 Ni	45	1	0.189	ppb	20.95	207	1.50	
65 Cu	45	1	-0.107	ppb	21.99	246	5.00	
66 Zn	45	1	0.237	ppb	133.74	304	10.00	
75 As	115	1	0.188	ppb	27.19	80	1.00	
78 Se	115	1	0.710	ppb	34.35	101	5.00	
83 Kr	115	2	--------	ppb	--------	291	1.00	
95 Mo	115	2	0.038	ppb	17.60	172	1.00	
107 Ag	115	2	0.004	ppb	52.67	124	0.50	
111 Cd	115	2	0.015	ppb	6.50	66	1.00	
121 Sb	115	2	0.004	ppb	14.92	198	1.00	
137 Ba	159	2	0.083	ppb	5.61	284	2.50	
205 Tl	165	2	-0.001	ppb	417.29	363	1.00	
206 (Pb)	165	2	0.138	ppb	11.07	711	1.50	
207 (Pb)	165	2	0.127	ppb	4.85	578	1.50	
208 Pb	165	2	0.126	ppb	4.29	2688	1.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	29178	0.59	30792	94.8	80 - 120	
45 Sc	2	475058	1.39	494812	96.0	80 - 120	
115 In	1	204432	1.41	218521	93.6	80 - 120	
115 In	2	595398	0.73	628885	94.7	80 - 120	
159 Tb	1	509491	0.60	559235	91.1	80 - 120	
159 Tb	2	798215	0.76	858008	93.0	80 - 120	
165 Ho	1	506601	0.96	552431	91.7	80 - 120	
165 Ho	2	767842	0.97	837411	91.7	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\noqas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\SW52814A.b\002CALB.D\002CALB.D#

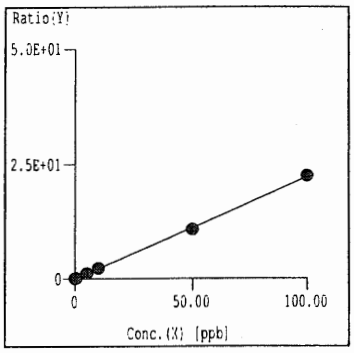
0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Calibration - C:\ICPCHEM\1\CALIB\6020AQ.C

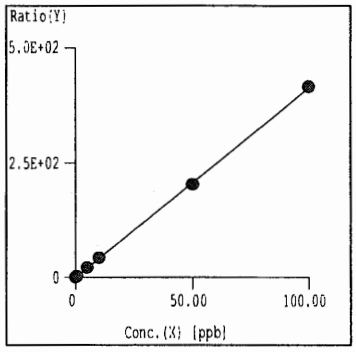
=== Graph Detail ===

Step	Mass	Element	ISTD	Unit
(2)	9	Be	45	ppb



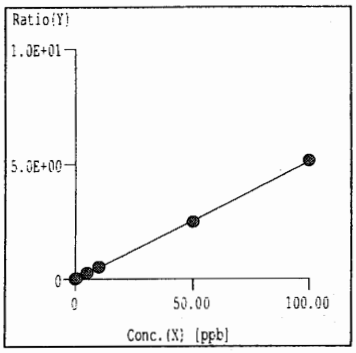
Curve Fit: Y=aX+[blank]
r = 0.9998
Y = 2.227E-001*X +9.958E-003
X = 4.491E+000*Y -4.472E-002
DL = 2.420E-02 ppb
BEC = 4.472E-02 ppb

Step	Mass	Element	ISTD	Unit
(1)	59	Co	45	ppb



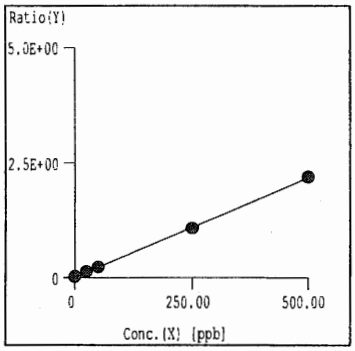
Curve Fit: Y=aX+[blank]
r = 0.9999
Y = 4.141E+000*X +2.017E-001
X = 2.415E-001*Y -4.870E-002
DL = 1.249E-02 ppb
BEC = 4.870E-02 ppb

Step	Mass	Element	ISTD	Unit
(1)	75	As	115	ppb



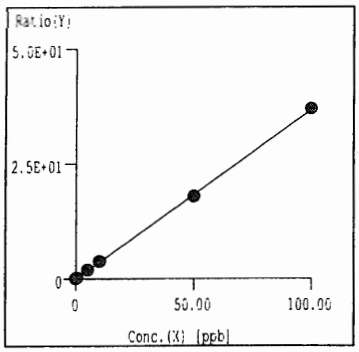
Curve Fit: Y=aX+[blank]
r = 0.9998
Y = 5.106E-002*X +5.977E-003
X = 1.958E+001*Y -1.170E-001
DL = 1.511E-02 ppb
BEC = 1.170E-01 ppb

Step	Mass	Element	ISTD	Unit
(1)	78	Se	115	ppb



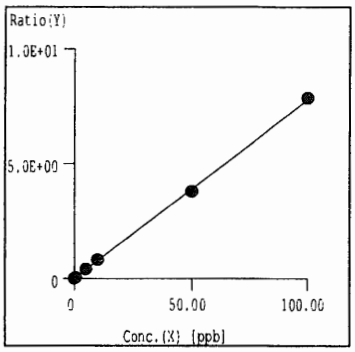
Curve Fit: Y=aX+b
r = 0.9999
Y = 4.338E-003*X +1.676E-002
X = 2.305E+002*Y -3.863E+000
DL = 1.676 ppb
BEC = 3.863 ppb

Step	Mass	Element	ISTD	Unit
(2)	107	Ag	115	ppb



Curve Fit: Y=aX+[blank]
r = 0.9999
Y = 3.671E-001*X +7.004E-003
X = 2.724E+000*Y -1.908E-002
DL = 1.396E-02 ppb
BEC = 1.908E-02 ppb

Step	Mass	Element	ISTD	Unit
(2)	111	Cd	115	ppb

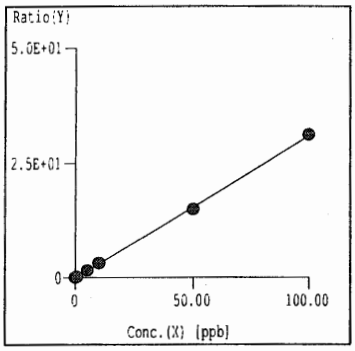


Curve Fit: Y=aX+[blank]
r = 0.9998
Y = 7.787E-002*X +3.273E-003
X = 1.284E+001*Y -4.204E-002
DL = 1.532E-02 ppb
BEC = 4.204E-02 ppb

Calibration - C:\ICPCHEM\1\CALIB\6020AQ.C

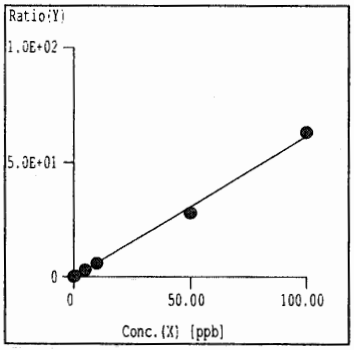
=== Graph Detail ===

Step Mass Element	ISTD	Unit
(2) 121 Sb	115	ppb



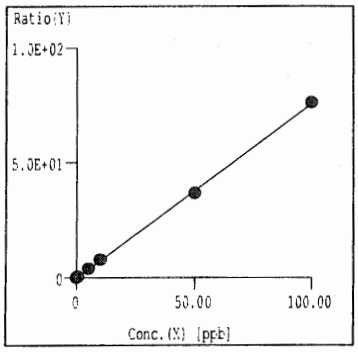
Curve Fit: Y=aX+[blank]
r = 0.9998
Y = 3.091E-001*X +1.216E-002
X = 3.235E+000*Y -3.935E-002
DL = 1.948E-02 ppb
BEC = 3.935E-02 ppb

Step Mass Element	ISTD	Unit
(2) 205 Tl	165	ppb



Curve Fit: Y=aX+[blank]
r = 0.9985
Y = 6.162E-001*X +1.933E-002
X = 1.623E+000*Y -3.138E-002
DL = 1.496E-02 ppb
BEC = 3.138E-02 ppb

Step Mass Element	ISTD	Unit
(2) 208 Pb	165	ppb



Curve Fit: Y=aX+[blank]
r = 0.9998
Y = 7.547E-001*X +4.482E-002
X = 1.325E+000*Y -5.938E-002
DL = 2.363E-02 ppb
BEC = 5.938E-02 ppb

File SW16381A2 Batch 16381 SW846

Method: PE2 4300DV AXIAL Page 1 Date: 5/27/2014 4:27:59 PM

Analyst S. Bz 5/28/14

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Analysis Begun

Start Time: 5/27/2014 4:25:39 PM
Logged In Analyst: shiamala
Spectrometer Model: Optima 4300 DV, S/N 077N1030901

Plasma On Time: 5/27/2014 10:00:42 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\administrator\Sample Information\05.27.14.sif
Batch ID: PEICP 2
Results Data Set: SW16381A2
Results Library: C:\pe\administrator\Results\Results.mdb

5/28/14

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Method Loaded
Method Name: PE2 4300DV AXIAL
IEC File: IECax092613.iec
Method Description: 200.7/6010B/6010C

Method Last Saved: 5/24/2014 8:23:50 PM
MSF File:

==========

Sequence No.: 1
Sample ID: CALBLK V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/27/2014 4:25:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-183928

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1036201.1	11001.88	1.06%	100.0	%
Y 371.029	345337.7	3789.02	1.10%	100	%
Ag 328.068†	7287.2	91.90	1.26%	[0.00]	mg/L
Al 308.215†	11875.4	55.34	0.47%	[0.00]	mg/L
As 188.979†	19.6	1.58	8.04%	[0.00]	mg/L
Ba 233.527†	-1640.2	15.00	0.91%	[0.00]	mg/L
Be 313.107†	-3202.3	53.38	1.67%	[0.00]	mg/L
Ca 315.887†	-30382.4	165.71	0.55%	[0.00]	mg/L
Cd 228.802†	616.5	8.47	1.37%	[0.00]	mg/L
Co 228.616†	288.9	9.20	3.18%	[0.00]	mg/L
Cr 267.716†	1321.1	15.57	1.18%	[0.00]	mg/L
Cu 327.393†	-3328.2	47.54	1.43%	[0.00]	mg/L
Fe 273.955†	-1030.1	5.03	0.49%	[0.00]	mg/L
K 404.721†	-1353.7	204.15	15.08%	[0.00]	mg/L
Mg 279.077†	-5849.4	19.53	0.33%	[0.00]	mg/L
Mn 257.610†	1361.9	15.10	1.11%	[0.00]	mg/L
Mo 202.031†	48.4	2.29	4.73%	[0.00]	mg/L
Na 330.237†	2147.0	44.44	2.07%	[0.00]	mg/L
Ni 231.604†	208.1	24.42	11.74%	[0.00]	mg/L
Pb 220.353†	-231.0	16.59	7.18%	[0.00]	mg/L
Sb 206.836†	69.5	8.11	11.67%	[0.00]	mg/L
Se 196.026†	9.0	0.88	9.79%	[0.00]	mg/L
Sn 189.927†	31.3	3.73	11.89%	[0.00]	mg/L
Ti 334.940†	2159.1	50.30	2.33%	[0.00]	mg/L
Tl 190.801†	30.6	1.95	6.37%	[0.00]	mg/L
V 290.880†	5523.8	44.86	0.81%	[0.00]	mg/L
Zn 206.200†	264.8	8.94	3.38%	[0.00]	mg/L

16381
32819

all elements reported except Na, K

QC, 78793.001
78787.0011, 016 } not reported

78787.003 Fe not reported

Sequence No.: 2
Sample ID: CALST1 V-185362
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 5/27/2014 4:29:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST1 V-185362

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1051459.7	4191.06	0.40%	101	%
Y 371.029	344785.5	2459.04	0.71%	99.8	%
As 188.979†	5.8	3.59	61.69%	[0.005]	mg/L
Be 313.107†	10331.4	2.06	0.02%	[0.003]	mg/L
Cd 228.802†	195.5	16.92	8.65%	[0.003]	mg/L
Pb 220.353†	88.5	24.92	28.14%	[0.004]	mg/L
Tl 190.801†	19.6	0.19	0.97%	[0.005]	mg/L

Sequence No.: 3
Sample ID: CALST2 V-185756
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 5/27/2014 4:32:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-185756

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1037064.5	346.15	0.03%	100	%
Y 371.029	341379.7	284.47	0.08%	98.9	%
Ag 328.068†	465.8	1.55	0.33%	[0.002]	mg/L
Al 308.215†	3897.5	52.60	1.35%	[0.10]	mg/L
As 188.979†	18.2	2.31	12.69%	[0.010]	mg/L
Ba 233.527†	1752.2	4.61	0.26%	[0.010]	mg/L
Be 313.107†	32672.5	197.77	0.61%	[0.010]	mg/L
Ca 315.887†	135622.9	1460.21	1.08%	[1.0]	mg/L
Cd 228.802†	653.8	7.03	1.08%	[0.010]	mg/L
Co 228.616†	585.4	8.23	1.41%	[0.010]	mg/L
Cr 267.716†	1093.5	13.95	1.28%	[0.010]	mg/L
Cu 327.393†	1500.6	155.88	10.39%	[0.010]	mg/L
Fe 273.955†	2952.5	36.64	1.24%	[0.10]	mg/L
K 404.721†	35.3	0.55	1.55%	[1.0]	mg/L
Mg 279.077†	24938.5	22.13	0.09%	[1.0]	mg/L
Mn 257.610†	9009.7	32.98	0.37%	[0.010]	mg/L
Mo 202.031†	240.8	9.89	4.11%	[0.010]	mg/L
Na 330.237†	1325.7	36.48	2.75%	[1.0]	mg/L
Ni 231.604†	694.9	40.30	5.80%	[0.010]	mg/L
Pb 220.353†	204.4	11.51	5.63%	[0.010]	mg/L
Sb 206.836†	20.8	4.76	22.92%	[0.010]	mg/L
Se 196.026†	21.0	1.00	4.77%	[0.010]	mg/L
Sn 189.927†	64.6	1.99	3.09%	[0.010]	mg/L
Ti 334.940†	8096.8	128.97	1.59%	[0.010]	mg/L
Tl 190.801†	25.8	6.74	26.08%	[0.010]	mg/L
V 290.880†	1545.4	35.89	2.32%	[0.010]	mg/L
Zn 206.200†	815.2	3.19	0.39%	[0.010]	mg/L

Sequence No.: 4
Sample ID: CALST3 V-185198
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 5/27/2014 4:35:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-185198

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	983839.0	769.64	0.08%	94.9	%
Y 371.029	322116.9	1362.32	0.42%	93.3	%
Ag 328.068†	24087.8	85.34	0.35%	[0.10]	mg/L
Al 308.215†	181036.4	909.39	0.50%	[5.0]	mg/L
As 188.979†	881.8	10.25	1.16%	[0.50]	mg/L
Ba 233.527†	86191.3	383.32	0.44%	[0.50]	mg/L
Be 313.107†	1676216.4	10.89	0.00%	[0.50]	mg/L
Ca 315.887†	6644377.7	9083.53	0.14%	[50]	mg/L
Cd 228.802†	33091.5	172.02	0.52%	[0.50]	mg/L
Co 228.616†	28839.4	117.46	0.41%	[0.50]	mg/L
Cr 267.716†	53377.9	244.56	0.46%	[0.50]	mg/L
Cu 327.393†	69726.4	362.50	0.52%	[0.50]	mg/L
Fe 273.955†	134407.4	576.82	0.43%	[5.0]	mg/L
K 404.721†	5672.1	130.92	2.31%	[50]	mg/L
Mg 279.077†	1200023.6	1615.12	0.13%	[50]	mg/L
Mn 257.610†	444332.4	2041.03	0.46%	[0.50]	mg/L
Mo 202.031†	12035.7	18.87	0.16%	[0.50]	mg/L
Na 330.237†	75481.3	387.67	0.51%	[50]	mg/L
Ni 231.604†	34310.3	151.94	0.44%	[0.50]	mg/L
Pb 220.353†	9264.6	62.77	0.68%	[0.50]	mg/L
Sb 206.836†	1245.5	0.70	0.06%	[0.50]	mg/L
Se 196.026†	941.6	14.13	1.50%	[0.50]	mg/L
Sn 189.927†	3155.6	20.61	0.65%	[0.50]	mg/L
Ti 334.940†	412366.8	2725.24	0.66%	[0.50]	mg/L
Tl 190.801†	1296.4	6.22	0.48%	[0.50]	mg/L
V 290.880†	80435.6	475.10	0.59%	[0.50]	mg/L
Zn 206.200†	40443.3	197.29	0.49%	[0.50]	mg/L

Sequence No.: 5
Sample ID: CALST4 V-185758
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/27/2014 4:39:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-185758

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	977750.2	1597.54	0.16%	94.4	%
Y 371.029	317772.0	730.40	0.23%	92.0	%
Ag 328.068†	46274.7	25.60	0.06%	[0.20]	mg/L
Al 308.215†	338643.3	606.67	0.18%	[10]	mg/L
As 188.979†	1731.5	11.92	0.69%	[1.0]	mg/L
Ba 233.527†	165441.4	123.35	0.07%	[1.0]	mg/L
Be 313.107†	3316214.6	997.00	0.03%	[1.0]	mg/L
Ca 315.887†	12906279.6	7097.37	0.05%	[100]	mg/L
Cd 228.802†	64473.4	174.28	0.27%	[1.0]	mg/L
Co 228.616†	55844.4	75.21	0.13%	[1.0]	mg/L
Cr 267.716†	102385.0	10.34	0.01%	[1.0]	mg/L
Cu 327.393†	134254.2	173.47	0.13%	[1.0]	mg/L
Fe 273.955†	256502.9	391.91	0.15%	[10]	mg/L
K 404.721†	11819.4	85.75	0.73%	[100]	mg/L
Mg 279.077†	2305221.9	2413.42	0.10%	[100]	mg/L
Mn 257.610†	854703.5	583.26	0.07%	[1.0]	mg/L
Mo 202.031†	23315.3	10.66	0.05%	[1.0]	mg/L
Na 330.237†	149517.2	247.97	0.17%	[100]	mg/L
Ni 231.604†	65725.3	148.88	0.23%	[1.0]	mg/L
Pb 220.353†	17825.9	26.61	0.15%	[1.0]	mg/L
Sb 206.836†	2427.1	15.72	0.65%	[1.0]	mg/L
Se 196.026†	1885.9	5.94	0.32%	[1.0]	mg/L
Sn 189.927†	6140.5	23.05	0.38%	[1.0]	mg/L
Ti 334.940†	798129.2	1535.67	0.19%	[1.0]	mg/L
Tl 190.801†	2487.8	0.47	0.02%	[1.0]	mg/L
V 290.880†	153258.2	97.36	0.06%	[1.0]	mg/L
Zn 206.200†	77507.3	213.34	0.28%	[1.0]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	174.4	232200	0.00000	0.999776	
Al 308.215	3	Lin, Calc Int	2364.1	34050	0.00000	0.999380	
As 188.979	4	Lin, Calc Int	1.4	1736	0.00000	0.999956	
Ba 233.527	3	Lin, Calc Int	676.1	166000	0.00000	0.999769	
Be 313.107	4	Lin, Calc Int	2224.2	3321000	0.00000	0.999986	
Ca 315.887	3	Lin, Calc Int	37783.9	129400	0.00000	0.999885	
Cd 228.802	4	Lin, Calc Int	110.0	64680	0.00000	0.999918	
Co 228.616	3	Lin, Calc Int	179.2	56000	0.00000	0.999858	
Cr 267.716	3	Lin, Calc Int	429.4	102700	0.00000	0.999762	
Cu 327.393	3	Lin, Calc Int	544.8	134600	0.00000	0.999806	
Fe 273.955	3	Lin, Calc Int	1296.3	25740	0.00000	0.999703	
K 404.721	3	Lin, Calc Int	-80.9	118.2	0.00000	0.999802	
Mg 279.077	3	Lin, Calc Int	9485.6	23130	0.00000	0.999779	
Mn 257.610	3	Lin, Calc Int	3300.6	857500	0.00000	0.999793	
Mo 202.031	3	Lin, Calc Int	72.3	23380	0.00000	0.999862	
Na 330.237	3	Lin, Calc Int	54.6	1497	0.00000	0.999986	
Ni 231.604	3	Lin, Calc Int	280.5	65970	0.00000	0.999746	
Pb 220.353	4	Lin, Calc Int	57.4	17900	0.00000	0.999824	
Sb 206.836	3	Lin, Calc Int	4.2	2435	0.00000	0.999902	
Se 196.026	3	Lin, Calc Int	0.7	1885	0.00000	0.999999	
Sn 189.927	3	Lin, Calc Int	17.0	6154	0.00000	0.999899	
Ti 334.940	3	Lin, Calc Int	2473.5	800500	0.00000	0.999853	
Tl 190.801	4	Lin, Calc Int	9.1	2498	0.00000	0.999798	
V 290.880	3	Lin, Calc Int	698.6	153900	0.00000	0.999673	
Zn 206.200	3	Lin, Calc Int	325.8	77790	0.00000	0.999751	

Sequence No.: 6
Sample ID: ICS3 V-185198
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 5/27/2014 4:44:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-185198

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	993663.1	95.9	%	0.16				0.17%
Y 371.029	317805.7	92.0	%	0.63				0.69%
Ag 328.068†	23400.7	0.100582	mg/L	0.0011545	0.100582	mg/L	0.0011545	1.15%
QC value within limits for Ag 328.068 Recovery = 100.58%								
Al 308.215†	177013.2	5.12113	mg/L	0.038166	5.12113	mg/L	0.038166	0.75%
QC value within limits for Al 308.215 Recovery = 102.42%								
As 188.979†	880.8	0.505658	mg/L	0.0046443	0.505658	mg/L	0.0046443	0.92%
QC value within limits for As 188.979 Recovery = 101.13%								
Ba 233.527†	84434.5	0.504336	mg/L	0.0033550	0.504336	mg/L	0.0033550	0.67%
QC value within limits for Ba 233.527 Recovery = 100.87%								
Be 313.107†	1672990.7	0.502947	mg/L	0.0012170	0.502947	mg/L	0.0012170	0.24%
QC value within limits for Be 313.107 Recovery = 100.59%								
Ca 315.887†	6638535.7	51.0080	mg/L	0.03756	51.0080	mg/L	0.03756	0.07%
QC value within limits for Ca 315.887 Recovery = 102.02%								
Cd 228.802†	32949.1	0.507357	mg/L	0.0028255	0.507357	mg/L	0.0028255	0.56%
QC value within limits for Cd 228.802 Recovery = 101.47%								
Co 228.616†	28726.5	0.510709	mg/L	0.0027044	0.510709	mg/L	0.0027044	0.53%
QC value within limits for Co 228.616 Recovery = 102.14%								
Cr 267.716†	52112.9	0.505859	mg/L	0.0021054	0.505859	mg/L	0.0021054	0.42%
QC value within limits for Cr 267.716 Recovery = 101.17%								
Cu 327.393†	68110.3	0.501626	mg/L	0.0024192	0.501626	mg/L	0.0024192	0.48%
QC value within limits for Cu 327.393 Recovery = 100.33%								
Fe 273.955†	131390.6	5.05412	mg/L	0.021453	5.05412	mg/L	0.021453	0.42%
QC value within limits for Fe 273.955 Recovery = 101.08%								
K 404.721†	5460.9	46.8795	mg/L	0.22485	46.8795	mg/L	0.22485	0.48%
QC value within limits for K 404.721 Recovery = 93.76%								
Mg 279.077†	1200981.5	51.5239	mg/L	0.08895	51.5239	mg/L	0.08895	0.17%
QC value within limits for Mg 279.077 Recovery = 103.05%								
Mn 257.610†	435080.8	0.501771	mg/L	0.0035105	0.501771	mg/L	0.0035105	0.70%
QC value within limits for Mn 257.610 Recovery = 100.35%								
Mo 202.031†	11978.8	0.507809	mg/L	0.0033239	0.507809	mg/L	0.0033239	0.65%
QC value within limits for Mo 202.031 Recovery = 101.56%								
Na 330.237†	73906.9	49.3207	mg/L	0.39397	49.3207	mg/L	0.39397	0.80%
QC value within limits for Na 330.237 Recovery = 98.64%								
Ni 231.604†	33528.8	0.504614	mg/L	0.0019121	0.504614	mg/L	0.0019121	0.38%
QC value within limits for Ni 231.604 Recovery = 100.92%								
Pb 220.353†	9225.5	0.515540	mg/L	0.0029417	0.515540	mg/L	0.0029417	0.57%
QC value within limits for Pb 220.353 Recovery = 103.11%								
Sb 206.836†	1237.6	0.507135	mg/L	0.0078644	0.507135	mg/L	0.0078644	1.55%
QC value within limits for Sb 206.836 Recovery = 101.43%								
Se 196.026†	948.2	0.505947	mg/L	0.0048484	0.505947	mg/L	0.0048484	0.96%
QC value within limits for Se 196.026 Recovery = 101.19%								
Sn 189.927†	3154.1	0.511348	mg/L	0.0040135	0.511348	mg/L	0.0040135	0.78%
QC value within limits for Sn 189.927 Recovery = 102.27%								
Ti 334.940†	403782.1	0.501346	mg/L	0.0051044	0.501346	mg/L	0.0051044	1.02%
QC value within limits for Ti 334.940 Recovery = 100.27%								
Tl 190.801†	1299.5	0.518441	mg/L	0.0027798	0.518441	mg/L	0.0027798	0.54%
QC value within limits for Tl 190.801 Recovery = 103.69%								
V 290.880†	78678.1	0.501453	mg/L	0.0031699	0.501453	mg/L	0.0031699	0.63%
QC value within limits for V 290.880 Recovery = 100.29%								
Zn 206.200†	39570.3	0.504072	mg/L	0.0043174	0.504072	mg/L	0.0043174	0.86%
QC value within limits for Zn 206.200 Recovery = 100.81%								

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/27/2014 4:47:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-185530

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	990806.2	95.6	%	0.62				0.65%
Y 371.029	320860.6	92.9	%	0.29				0.31%
Ag 328.068†	23413.7	0.100639	mg/L	0.0005804	0.100639	mg/L	0.0005804	0.58%
QC value within limits for Ag 328.068 Recovery = 100.64%								
Al 308.215†	179050.6	5.18112	mg/L	0.021492	5.18112	mg/L	0.021492	0.41%
QC value within limits for Al 308.215 Recovery = 103.62%								
As 188.979†	884.7	0.507917	mg/L	0.0019653	0.507917	mg/L	0.0019653	0.39%
QC value within limits for As 188.979 Recovery = 101.58%								
Ba 233.527†	86100.0	0.514367	mg/L	0.0010150	0.514367	mg/L	0.0010150	0.20%
QC value within limits for Ba 233.527 Recovery = 102.87%								
Be 313.107†	1680827.2	0.505304	mg/L	0.0027580	0.505304	mg/L	0.0027580	0.55%
QC value within limits for Be 313.107 Recovery = 101.06%								
Ca 315.887†	6619403.2	50.8601	mg/L	0.15666	50.8601	mg/L	0.15666	0.31%
QC value within limits for Ca 315.887 Recovery = 101.72%								
Cd 228.802†	33208.0	0.511360	mg/L	0.0018723	0.511360	mg/L	0.0018723	0.37%
QC value within limits for Cd 228.802 Recovery = 102.27%								
Co 228.616†	28629.8	0.508936	mg/L	0.0016596	0.508936	mg/L	0.0016596	0.33%
QC value within limits for Co 228.616 Recovery = 101.79%								
Cr 267.716†	53619.5	0.520478	mg/L	0.0028523	0.520478	mg/L	0.0028523	0.55%
QC value within limits for Cr 267.716 Recovery = 104.10%								
Cu 327.393†	68770.4	0.506522	mg/L	0.0030398	0.506522	mg/L	0.0030398	0.60%
QC value within limits for Cu 327.393 Recovery = 101.30%								
Fe 273.955†	131948.2	5.07578	mg/L	0.015346	5.07578	mg/L	0.015346	0.30%
QC value within limits for Fe 273.955 Recovery = 101.52%								
K 404.721†	5660.7	48.5695	mg/L	0.34811	48.5695	mg/L	0.34811	0.72%
QC value within limits for K 404.721 Recovery = 97.14%								
Mg 279.077†	1221121.2	52.3947	mg/L	0.27456	52.3947	mg/L	0.27456	0.52%
QC value within limits for Mg 279.077 Recovery = 104.79%								
Mn 257.610†	439042.3	0.506356	mg/L	0.0009911	0.506356	mg/L	0.0009911	0.20%
QC value within limits for Mn 257.610 Recovery = 101.27%								
Mo 202.031†	11769.2	0.498847	mg/L	0.0017192	0.498847	mg/L	0.0017192	0.34%
QC value within limits for Mo 202.031 Recovery = 99.77%								
Na 330.237†	75143.6	50.1466	mg/L	0.22886	50.1466	mg/L	0.22886	0.46%
QC value within limits for Na 330.237 Recovery = 100.29%								
Ni 231.604†	33899.4	0.510221	mg/L	0.0021055	0.510221	mg/L	0.0021055	0.41%
QC value within limits for Ni 231.604 Recovery = 102.04%								
Pb 220.353†	9204.3	0.514340	mg/L	0.0004347	0.514340	mg/L	0.0004347	0.08%
QC value within limits for Pb 220.353 Recovery = 102.87%								
Sb 206.836†	1248.8	0.511732	mg/L	0.0038982	0.511732	mg/L	0.0038982	0.76%
QC value within limits for Sb 206.836 Recovery = 102.35%								
Se 196.026†	932.1	0.497423	mg/L	0.0037275	0.497423	mg/L	0.0037275	0.75%
QC value within limits for Se 196.026 Recovery = 99.48%								
Sn 189.927†	3166.6	0.513375	mg/L	0.0021370	0.513375	mg/L	0.0021370	0.42%
QC value within limits for Sn 189.927 Recovery = 102.67%								
Ti 334.940†	408458.0	0.507187	mg/L	0.0007410	0.507187	mg/L	0.0007410	0.15%
QC value within limits for Ti 334.940 Recovery = 101.44%								
Tl 190.801†	1281.2	0.511140	mg/L	0.0030134	0.511140	mg/L	0.0030134	0.59%
QC value within limits for Tl 190.801 Recovery = 102.23%								
V 290.880†	79577.0	0.507205	mg/L	0.0020545	0.507205	mg/L	0.0020545	0.41%
QC value within limits for V 290.880 Recovery = 101.44%								
Zn 206.200†	40403.7	0.514787	mg/L	0.0004814	0.514787	mg/L	0.0004814	0.09%
QC value within limits for Zn 206.200 Recovery = 102.96%								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: LLICV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/27/2014 4:51:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV V-185635 [aq]

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1032247.8	99.6	%	0.06				0.06%
Y 371.029	337534.7	97.7	%	0.19				0.19%
Ag 328.068†	4632.3	0.0192384	mg/L	0.00051905	0.0192384	mg/L	0.00051905	2.70%
QC value within limits for Ag 328.068 Recovery = 96.19%								
Al 308.215†	9691.9	0.214921	mg/L	0.0005272	0.214921	mg/L	0.0005272	0.25%
QC value within limits for Al 308.215 Recovery = 107.46%								
As 188.979†	35.6	0.0196206	mg/L	0.00265862	0.0196206	mg/L	0.00265862	13.55%
QC value within limits for As 188.979 Recovery = 98.10%								
Ba 233.527†	8592.0	0.0476706	mg/L	0.00029969	0.0476706	mg/L	0.00029969	0.63%
QC value within limits for Ba 233.527 Recovery = 95.34%								
Be 313.107†	39496.4	0.0112074	mg/L	0.00001106	0.0112074	mg/L	0.00001106	0.10%
QC value within limits for Be 313.107 Recovery = 93.39%								
Ca 315.887†	674912.4	4.92403	mg/L	0.001473	4.92403	mg/L	0.001473	0.03%
QC value within limits for Ca 315.887 Recovery = 98.48%								
Cd 228.802†	770.0	0.0101779	mg/L	0.00009672	0.0101779	mg/L	0.00009672	0.95%
QC value within limits for Cd 228.802 Recovery = 84.82%								
Co 228.616†	1145.6	0.0172329	mg/L	0.00014861	0.0172329	mg/L	0.00014861	0.86%
QC value within limits for Co 228.616 Recovery = 86.16%								
Cr 267.716†	5278.9	0.0473085	mg/L	0.00030031	0.0473085	mg/L	0.00030031	0.63%
QC value within limits for Cr 267.716 Recovery = 94.62%								
Cu 327.393†	7197.8	0.0493829	mg/L	0.00005957	0.0493829	mg/L	0.00005957	0.12%
QC value within limits for Cu 327.393 Recovery = 98.77%								
Fe 273.955†	9261.2	0.309431	mg/L	0.0014208	0.309431	mg/L	0.0014208	0.46%
QC value within limits for Fe 273.955 Recovery = 103.14%								
K 404.721†	389.9	3.98242	mg/L	0.414852	3.98242	mg/L	0.414852	10.42%
QC value within limits for K 404.721 Recovery = 79.65%								
Mg 279.077†	122766.8	4.89834	mg/L	0.007539	4.89834	mg/L	0.007539	0.15%
QC value within limits for Mg 279.077 Recovery = 97.97%								
Mn 257.610†	35671.0	0.0375731	mg/L	0.00001297	0.0375731	mg/L	0.00001297	0.03%
QC value within limits for Mn 257.610 Recovery = 93.93%								
Mo 202.031†	496.0	0.0179872	mg/L	0.00019273	0.0179872	mg/L	0.00019273	1.07%
QC value within limits for Mo 202.031 Recovery = 89.94%								
Na 330.237†	7233.6	4.79431	mg/L	0.012943	4.79431	mg/L	0.012943	0.27%
QC value within limits for Na 330.237 Recovery = 95.89%								
Ni 231.604†	3551.5	0.0496069	mg/L	0.00029527	0.0496069	mg/L	0.00029527	0.60%
QC value within limits for Ni 231.604 Recovery = 99.21%								
Pb 220.353†	225.5	0.0095633	mg/L	0.00051365	0.0095633	mg/L	0.00051365	5.37%
QC value within limits for Pb 220.353 Recovery = 79.69%								
Sb 206.836†	46.6	0.0174169	mg/L	0.00031689	0.0174169	mg/L	0.00031689	1.82%
QC value within limits for Sb 206.836 Recovery = 87.08%								
Se 196.026†	69.3	0.0366481	mg/L	0.00158620	0.0366481	mg/L	0.00158620	4.33%
QC value within limits for Se 196.026 Recovery = 91.62%								
Sn 189.927†	295.2	0.0453702	mg/L	0.00049344	0.0453702	mg/L	0.00049344	1.09%
QC value within limits for Sn 189.927 Recovery = 90.74%								
Ti 334.940†	39328.1	0.0460416	mg/L	0.00016302	0.0460416	mg/L	0.00016302	0.35%
QC value within limits for Ti 334.940 Recovery = 92.08%								
Tl 190.801†	61.9	0.0213168	mg/L	0.00099116	0.0213168	mg/L	0.00099116	4.65%
QC value within limits for Tl 190.801 Recovery = 106.58%								
V 290.880†	7903.2	0.0463157	mg/L	0.00071466	0.0463157	mg/L	0.00071466	1.54%
QC value within limits for V 290.880 Recovery = 92.63%								
Zn 206.200†	4605.6	0.0549977	mg/L	0.00002506	0.0549977	mg/L	0.00002506	0.05%
QC value within limits for Zn 206.200 Recovery = 110.00%								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICB V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/27/2014 4:54:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-183928

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1019839.1	98.4	%	0.87				0.88%
Y 371.029	339685.0	98.4	%	0.97				0.99%
Ag 328.068†	98.1	-0.0003334	mg/L	0.00029997	-0.0003334	mg/L	0.00029997	89.97%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	15.9	-0.0689199	mg/L	0.00035135	-0.0689199	mg/L	0.00035135	0.51%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.8	-0.0003515	mg/L	0.00185112	-0.0003515	mg/L	0.00185112	526.64%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-0.7	-0.0040745	mg/L	0.00006711	-0.0040745	mg/L	0.00006711	1.65%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	52.8	-0.0006528	mg/L	0.00001480	-0.0006528	mg/L	0.00001480	2.27%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	420.3	-0.288689	mg/L	0.0025971	-0.288689	mg/L	0.0025971	0.90%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	36.9	-0.0011279	mg/L	0.00006436	-0.0011279	mg/L	0.00006436	5.71%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-5.8	-0.0033089	mg/L	0.00006423	-0.0033089	mg/L	0.00006423	1.94%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	50.0	-0.0037095	mg/L	0.00019040	-0.0037095	mg/L	0.00019040	5.13%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	50.6	-0.0036688	mg/L	0.00023716	-0.0036688	mg/L	0.00023716	6.46%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	-7.4	-0.0506486	mg/L	0.00094143	-0.0506486	mg/L	0.00094143	1.86%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	43.1	1.04875	mg/L	0.006237	1.04875	mg/L	0.006237	0.59%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	49.8	-0.408014	mg/L	0.0007464	-0.408014	mg/L	0.0007464	0.18%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	9.2	-0.0038241	mg/L	0.00004583	-0.0038241	mg/L	0.00004583	1.20%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	0.7	-0.0030531	mg/L	0.00005869	-0.0030531	mg/L	0.00005869	1.92%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	69.9	0.0101895	mg/L	0.00385455	0.0101895	mg/L	0.00385455	37.83%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	4.9	-0.0041825	mg/L	0.00001119	-0.0041825	mg/L	0.00001119	0.27%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	18.7	-0.0021858	mg/L	0.00109573	-0.0021858	mg/L	0.00109573	50.13%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-6.4	-0.0043705	mg/L	0.00063264	-0.0043705	mg/L	0.00063264	14.48%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.9	-0.0008917	mg/L	0.00048906	-0.0008917	mg/L	0.00048906	54.84%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	3.3	-0.0022390	mg/L	0.00063285	-0.0022390	mg/L	0.00063285	28.26%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	19.7	-0.0030654	mg/L	0.00000264	-0.0030654	mg/L	0.00000264	0.09%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	3.5	-0.0022472	mg/L	0.00121890	-0.0022472	mg/L	0.00121890	54.24%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-53.8	-0.0048470	mg/L	0.00030455	-0.0048470	mg/L	0.00030455	6.28%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	7.0	-0.0040934	mg/L	0.00006728	-0.0040934	mg/L	0.00006728	1.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICSA V-185195
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/27/2014 4:57:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185195

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	903763.4	87.2	%	0.73				0.84%
Y 371.029	294210.5	85.2	%	0.73				0.86%
Ag 328.068†	-3630.2	-0.0006108	mg/L	0.00022871	-0.0006108	mg/L	0.00022871	37.44%
Al 308.215†	16731711.2	491.350	mg/L	3.9032	491.350	mg/L	3.9032	0.79%
QC value within limits for Al 308.215 Recovery = 98.27%								
As 188.979†	20.3	0.0025989	mg/L	0.00173572	0.0025989	mg/L	0.00173572	66.79%
Ba 233.527†	1515.6	-0.0022599	mg/L	0.00032932	-0.0022599	mg/L	0.00032932	14.57%
Be 313.107†	-3115.3	-0.0016098	mg/L	0.00002219	-0.0016098	mg/L	0.00002219	1.38%
Ca 315.887†	62605607.2	483.280	mg/L	4.3901	483.280	mg/L	4.3901	0.91%
QC value within limits for Ca 315.887 Recovery = 96.66%								
Cd 228.802†	317.2	-0.0026783	mg/L	0.00003722	-0.0026783	mg/L	0.00003722	1.39%
Co 228.616†	15.9	-0.0028777	mg/L	0.00055422	-0.0028777	mg/L	0.00055422	19.26%
Cr 267.716†	239.7	-0.0017709	mg/L	0.00045932	-0.0017709	mg/L	0.00045932	25.94%
Cu 327.393†	1577.1	-0.0000599	mg/L	0.00070181	-0.0000599	mg/L	0.00070181	>999.9%
Fe 273.955†	4968812.5	192.986	mg/L	2.1777	192.986	mg/L	2.1777	1.13%
QC value within limits for Fe 273.955 Recovery = 96.49%								
K 404.721†	-65.9	0.126936	mg/L	0.2260477	0.126936	mg/L	0.2260477	178.08%
Mg 279.077†	11844683.8	511.604	mg/L	5.1998	511.604	mg/L	5.1998	1.02%
QC value within limits for Mg 279.077 Recovery = 102.32%								
Mn 257.610†	21329.0	0.0020457	mg/L	0.00013186	0.0020457	mg/L	0.00013186	6.45%
Mo 202.031†	377.9	-0.0029219	mg/L	0.00077193	-0.0029219	mg/L	0.00077193	26.42%
Na 330.237†	473.1	0.279490	mg/L	0.0611604	0.279490	mg/L	0.0611604	21.88%
Ni 231.604†	82.5	-0.0029871	mg/L	0.00025374	-0.0029871	mg/L	0.00025374	8.49%
Pb 220.353†	-1923.3	0.0053668	mg/L	0.00095790	0.0053668	mg/L	0.00095790	17.85%
Sb 206.836†	-27.3	-0.0063157	mg/L	0.00302425	-0.0063157	mg/L	0.00302425	47.88%
Se 196.026†	-176.8	-0.0013284	mg/L	0.00376588	-0.0013284	mg/L	0.00376588	283.48%
Sn 189.927†	-54.1	-0.0052064	mg/L	0.00055772	-0.0052064	mg/L	0.00055772	10.71%
Ti 334.940†	6600.9	0.0051563	mg/L	0.00004784	0.0051563	mg/L	0.00004784	0.93%
Tl 190.801†	114.0	-0.0057509	mg/L	0.00187274	-0.0057509	mg/L	0.00187274	32.56%
V 290.880†	8989.7	-0.0043115	mg/L	0.00121838	-0.0043115	mg/L	0.00121838	28.26%
Zn 206.200†	1273.7	-0.0037454	mg/L	0.00027177	-0.0037454	mg/L	0.00027177	7.26%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/27/2014 5:03:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	898329.0	86.7	%	0.09				0.10%
Y 371.029	292359.6	84.7	%	0.18				0.22%
Ag 328.068†	247172.7	1.07959	mg/L	0.000623	1.07959	mg/L	0.000623	0.06%
QC value within limits for Ag 328.068 Recovery = 107.96%								
Al 308.215†	16943832.3	497.580	mg/L	1.9497	497.580	mg/L	1.9497	0.39%
QC value within limits for Al 308.215 Recovery = 99.52%								
As 188.979†	1822.0	1.04024	mg/L	0.030396	1.04024	mg/L	0.030396	2.92%
QC value within limits for As 188.979 Recovery = 104.02%								
Ba 233.527†	88736.0	0.523034	mg/L	0.0007135	0.523034	mg/L	0.0007135	0.14%
QC value within limits for Ba 233.527 Recovery = 104.61%								
Be 313.107†	1712962.1	0.515162	mg/L	0.0000245	0.515162	mg/L	0.0000245	0.00%
QC value within limits for Be 313.107 Recovery = 103.03%								
Ca 315.887†	63275135.6	488.448	mg/L	2.1554	488.448	mg/L	2.1554	0.44%
QC value within limits for Ca 315.887 Recovery = 97.69%								
Cd 228.802†	69255.2	1.06305	mg/L	0.016917	1.06305	mg/L	0.016917	1.59%
QC value within limits for Cd 228.802 Recovery = 106.30%								
Co 228.616†	27623.0	0.490150	mg/L	0.0083682	0.490150	mg/L	0.0083682	1.71%
QC value within limits for Co 228.616 Recovery = 98.03%								
Cr 267.716†	52492.1	0.506996	mg/L	0.0077617	0.506996	mg/L	0.0077617	1.53%
QC value within limits for Cr 267.716 Recovery = 101.40%								
Cu 327.393†	73147.6	0.531426	mg/L	0.0005193	0.531426	mg/L	0.0005193	0.10%
QC value within limits for Cu 327.393 Recovery = 106.29%								
Fe 273.955†	5028061.0	195.288	mg/L	0.3869	195.288	mg/L	0.3869	0.20%
QC value within limits for Fe 273.955 Recovery = 97.64%								
K 404.721†	-25.2	0.471089	mg/L	0.6953612	0.471089	mg/L	0.6953612	147.61%
Mg 279.077†	11957699.1	516.492	mg/L	2.9108	516.492	mg/L	2.9108	0.56%
QC value within limits for Mg 279.077 Recovery = 103.30%								
Mn 257.610†	454292.9	0.506771	mg/L	0.0006764	0.506771	mg/L	0.0006764	0.13%
QC value within limits for Mn 257.610 Recovery = 101.35%								
Mo 202.031†	368.0	-0.0035278	mg/L	0.00077806	-0.0035278	mg/L	0.00077806	22.06%
Na 330.237†	1047.9	0.663322	mg/L	0.0170708	0.663322	mg/L	0.0170708	2.57%
Ni 231.604†	64130.7	0.967943	mg/L	0.0154397	0.967943	mg/L	0.0154397	1.60%
QC value within limits for Ni 231.604 Recovery = 96.79%								
Pb 220.353†	15829.2	0.998730	mg/L	0.0076155	0.998730	mg/L	0.0076155	0.76%
QC value within limits for Pb 220.353 Recovery = 99.87%								
Sb 206.836†	2510.3	1.03603	mg/L	0.034600	1.03603	mg/L	0.034600	3.34%
QC value within limits for Sb 206.836 Recovery = 103.60%								
Se 196.026†	1700.8	0.995565	mg/L	0.0294689	0.995565	mg/L	0.0294689	2.96%
QC value within limits for Se 196.026 Recovery = 99.56%								
Sn 189.927†	-61.6	-0.0063845	mg/L	0.00010763	-0.0063845	mg/L	0.00010763	1.69%
Ti 334.940†	6414.7	0.0049237	mg/L	0.00005983	0.0049237	mg/L	0.00005983	1.22%
Tl 190.801†	2524.7	0.958817	mg/L	0.0181220	0.958817	mg/L	0.0181220	1.89%
QC value within limits for Tl 190.801 Recovery = 95.88%								
V 290.880†	84830.8	0.487937	mg/L	0.0020280	0.487937	mg/L	0.0020280	0.42%
QC value within limits for V 290.880 Recovery = 97.59%								
Zn 206.200†	77433.4	0.975102	mg/L	0.0160531	0.975102	mg/L	0.0160531	1.65%
QC value within limits for Zn 206.200 Recovery = 97.51%								

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: MB 32819 (1)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 90
Date Collected: 5/27/2014 5:07:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 32819 (1)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1062803.7	103	%	0.0				0.01%
Y 371.029	351104.9	102	%	0.0				0.05%
Ag 328.068†	-165.7	-0.0014687	mg/L	0.00006144	-0.0014687	mg/L	0.00006144	4.18%
Al 308.215†	364.3	-0.0586868	mg/L	0.00090249	-0.0586868	mg/L	0.00090249	1.54%
As 188.979†	-2.3	-0.0020950	mg/L	0.00041369	-0.0020950	mg/L	0.00041369	19.75%
Ba 233.527†	85.2	-0.0035576	mg/L	0.00003418	-0.0035576	mg/L	0.00003418	0.96%
Be 313.107†	182.5	-0.0006137	mg/L	0.00002930	-0.0006137	mg/L	0.00002930	4.77%
Ca 315.887†	3826.5	-0.262372	mg/L	0.0032373	-0.262372	mg/L	0.0032373	1.23%
Cd 228.802†	5.3	-0.0016159	mg/L	0.00021378	-0.0016159	mg/L	0.00021378	13.23%
Co 228.616†	-7.8	-0.0033446	mg/L	0.00002458	-0.0033446	mg/L	0.00002458	0.74%
Cr 267.716†	8.7	-0.0041114	mg/L	0.00015164	-0.0041114	mg/L	0.00015164	3.69%
Cu 327.393†	95.7	-0.0033345	mg/L	0.00032305	-0.0033345	mg/L	0.00032305	9.69%
Fe 273.955†	193.0	-0.0428618	mg/L	0.00101101	-0.0428618	mg/L	0.00101101	2.36%
K 404.721†	26.8	0.910890	mg/L	0.1020329	0.910890	mg/L	0.1020329	11.20%
Mg 279.077†	298.1	-0.397280	mg/L	0.0012201	-0.397280	mg/L	0.0012201	0.31%
Mn 257.610†	0.8	-0.0038343	mg/L	0.00000454	-0.0038343	mg/L	0.00000454	0.12%
Mo 202.031†	1.4	-0.0030226	mg/L	0.00029621	-0.0030226	mg/L	0.00029621	9.80%
Na 330.237†	-72.2	-0.0846978	mg/L	0.04379561	-0.0846978	mg/L	0.04379561	51.71%
Ni 231.604†	-13.8	-0.0044663	mg/L	0.00026207	-0.0044663	mg/L	0.00026207	5.87%
Pb 220.353†	13.3	-0.0024880	mg/L	0.00022994	-0.0024880	mg/L	0.00022994	9.24%
Sb 206.836†	-9.2	-0.0054979	mg/L	0.00019639	-0.0054979	mg/L	0.00019639	3.57%
Se 196.026†	-3.8	-0.0024011	mg/L	0.00201459	-0.0024011	mg/L	0.00201459	83.90%
Sn 189.927†	-0.8	-0.0028943	mg/L	0.00074766	-0.0028943	mg/L	0.00074766	25.83%
Ti 334.940†	-82.6	-0.0031932	mg/L	0.00020867	-0.0031932	mg/L	0.00020867	6.53%
Tl 190.801†	-2.2	-0.0045457	mg/L	0.00010502	-0.0045457	mg/L	0.00010502	2.31%
V 290.880†	-200.3	-0.0057997	mg/L	0.00051910	-0.0057997	mg/L	0.00051910	8.95%
Zn 206.200†	410.0	0.0010864	mg/L	0.00005492	0.0010864	mg/L	0.00005492	5.05%

Sequence No.: 13
Sample ID: LCSW 32819
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 91
Date Collected: 5/27/2014 5:11:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSW 32819

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1001657.9	96.7	%	0.92				0.95%
Y 371.029	332571.7	96.3	%	1.15				1.20%
Ag 328.068†	23300.1	0.100140	mg/L	0.0020728	0.100140	mg/L	0.0020728	2.07%
Al 308.215†	175390.2	5.07359	mg/L	0.089698	5.07359	mg/L	0.089698	1.77%
As 188.979†	860.4	0.493956	mg/L	0.0047925	0.493956	mg/L	0.0047925	0.97%
Ba 233.527†	84413.9	0.504212	mg/L	0.0089339	0.504212	mg/L	0.0089339	1.77%
Be 313.107†	1621084.1	0.487317	mg/L	0.0003239	0.487317	mg/L	0.0003239	0.07%
Ca 315.887†	6394659.2	49.1230	mg/L	0.04115	49.1230	mg/L	0.04115	0.08%
Cd 228.802†	32360.9	0.498273	mg/L	0.0042258	0.498273	mg/L	0.0042258	0.85%
Co 228.616†	28329.3	0.503592	mg/L	0.0048854	0.503592	mg/L	0.0048854	0.97%
Cr 267.716†	51990.0	0.504623	mg/L	0.0094536	0.504623	mg/L	0.0094536	1.87%
Cu 327.393†	68796.0	0.506724	mg/L	0.0086609	0.506724	mg/L	0.0086609	1.71%
Fe 273.955†	130894.0	5.03483	mg/L	0.087784	5.03483	mg/L	0.087784	1.74%
K 404.721†	5325.9	45.7369	mg/L	0.21481	45.7369	mg/L	0.21481	0.47%
Mg 279.077†	1151515.2	49.3850	mg/L	0.01499	49.3850	mg/L	0.01499	0.03%
Mn 257.610†	434945.0	0.501690	mg/L	0.0097672	0.501690	mg/L	0.0097672	1.95%
Mo 202.031†	11801.2	0.500264	mg/L	0.0064465	0.500264	mg/L	0.0064465	1.29%
Na 330.237†	72791.6	48.5759	mg/L	0.70639	48.5759	mg/L	0.70639	1.45%
Ni 231.604†	33676.7	0.506847	mg/L	0.0092596	0.506847	mg/L	0.0092596	1.83%
Pb 220.353†	9046.8	0.505500	mg/L	0.0027566	0.505500	mg/L	0.0027566	0.55%
Sb 206.836†	1209.1	0.495419	mg/L	0.0047609	0.495419	mg/L	0.0047609	0.96%
Se 196.026†	912.6	0.487000	mg/L	0.0009402	0.487000	mg/L	0.0009402	0.19%
Sn 189.927†	3061.3	0.496208	mg/L	0.0044499	0.496208	mg/L	0.0044499	0.90%
Ti 334.940†	401742.8	0.498798	mg/L	0.0104724	0.498798	mg/L	0.0104724	2.10%
Tl 190.801†	1278.1	0.509937	mg/L	0.0062752	0.509937	mg/L	0.0062752	1.23%
V 290.880†	78571.2	0.500971	mg/L	0.0105502	0.500971	mg/L	0.0105502	2.11%
Zn 206.200†	39866.2	0.507879	mg/L	0.0103489	0.507879	mg/L	0.0103489	2.04%

Sequence No.: 14
Sample ID: LCSW MR 32819
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 92
Date Collected: 5/27/2014 5:14:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSW MR 32819

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1023078.8	98.7	%	1.66				1.69%
Y 371.029	327472.5	94.8	%	0.13				0.14%
Ag 328.068†	22513.3	0.0967411	mg/L	0.00284687	0.0967411	mg/L	0.00284687	2.94%
Al 308.215†	170847.3	4.94033	mg/L	0.111989	4.94033	mg/L	0.111989	2.27%
As 188.979†	843.5	0.484195	mg/L	0.0102769	0.484195	mg/L	0.0102769	2.12%
Ba 233.527†	82102.1	0.490292	mg/L	0.0100304	0.490292	mg/L	0.0100304	2.05%
Be 313.107†	1613430.8	0.485016	mg/L	0.0057632	0.485016	mg/L	0.0057632	1.19%
Ca 315.887†	6382886.7	49.0323	mg/L	0.64584	49.0323	mg/L	0.64584	1.32%
Cd 228.802†	31624.2	0.486886	mg/L	0.0075909	0.486886	mg/L	0.0075909	1.56%
Co 228.616†	27712.2	0.492558	mg/L	0.0076408	0.492558	mg/L	0.0076408	1.55%
Cr 267.716†	50559.8	0.490647	mg/L	0.0092692	0.490647	mg/L	0.0092692	1.89%
Cu 327.393†	66934.5	0.492900	mg/L	0.0091706	0.492900	mg/L	0.0091706	1.86%
Fe 273.955†	127205.8	4.89154	mg/L	0.092879	4.89154	mg/L	0.092879	1.90%
K 404.721†	5358.5	46.0129	mg/L	0.91649	46.0129	mg/L	0.91649	1.99%
Mg 279.077†	1152283.8	49.4181	mg/L	0.65296	49.4181	mg/L	0.65296	1.32%
Mn 257.610†	422628.3	0.487322	mg/L	0.0099091	0.487322	mg/L	0.0099091	2.03%
Mo 202.031†	11572.7	0.490494	mg/L	0.0077173	0.490494	mg/L	0.0077173	1.57%
Na 330.237†	71133.6	47.4686	mg/L	0.89440	47.4686	mg/L	0.89440	1.88%
Ni 231.604†	32563.8	0.489966	mg/L	0.0082798	0.489966	mg/L	0.0082798	1.69%
Pb 220.353†	8858.8	0.494934	mg/L	0.0047122	0.494934	mg/L	0.0047122	0.95%
Sb 206.836†	1194.5	0.489426	mg/L	0.0105877	0.489426	mg/L	0.0105877	2.16%
Se 196.026†	903.0	0.481842	mg/L	0.0053455	0.481842	mg/L	0.0053455	1.11%
Sn 189.927†	2992.9	0.485088	mg/L	0.0063355	0.485088	mg/L	0.0063355	1.31%
Ti 334.940†	392378.1	0.487099	mg/L	0.0101186	0.487099	mg/L	0.0101186	2.08%
Tl 190.801†	1253.4	0.499949	mg/L	0.0081169	0.499949	mg/L	0.0081169	1.62%
V 290.880†	76416.2	0.486969	mg/L	0.0107191	0.486969	mg/L	0.0107191	2.20%
Zn 206.200†	38630.2	0.492001	mg/L	0.0105090	0.492001	mg/L	0.0105090	2.14%

Sequence No.: 15
Sample ID: 78793-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 93
Date Collected: 5/27/2014 5:18:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	527893.1	50.9	%	0.08				0.15%
Y 371.029	182000.1	52.7	%	0.18				0.34%
Ag 328.068†	-3587.2	-0.0155612	mg/L	0.00055914	-0.0155612	mg/L	0.00055914	3.59%
Al 308.215†	31160.1	0.845570	mg/L	0.0059765	0.845570	mg/L	0.0059765	0.71%
As 188.979†	9.7	0.0004049	mg/L	0.00013372	0.0004049	mg/L	0.00013372	33.02%
Ba 233.527†	19051.2	0.110624	mg/L	0.0005679	0.110624	mg/L	0.0005679	0.51%
Be 313.107†	2100.4	-0.0000479	mg/L	0.00000196	-0.0000479	mg/L	0.00000196	4.10%
Ca 315.887†	17217127.1	132.788	mg/L	0.1125	132.788	mg/L	0.1125	0.08%
Cd 228.802†	-117.3	-0.0040912	mg/L	0.00032625	-0.0040912	mg/L	0.00032625	7.97%
Co 228.616†	-105.2	-0.0050979	mg/L	0.00003174	-0.0050979	mg/L	0.00003174	0.62%
Cr 267.716†	75.1	-0.0033577	mg/L	0.00037998	-0.0033577	mg/L	0.00037998	11.32%
Cu 327.393†	3373.0	0.0204956	mg/L	0.00023973	0.0204956	mg/L	0.00023973	1.17%
Fe 273.955†	42305.9	1.59321	mg/L	0.004141	1.59321	mg/L	0.004141	0.26%
K 404.721†	45089.1	382.102	mg/L	4.5822	382.102	mg/L	4.5822	1.20%
Mg 279.077†	7876345.3	340.152	mg/L	0.7430	340.152	mg/L	0.7430	0.22%
Mn 257.610†	80961.1	0.0779506	mg/L	0.00033096	0.0779506	mg/L	0.00033096	0.42%
Mo 202.031†	331.2	0.0077547	mg/L	0.00039184	0.0077547	mg/L	0.00039184	5.05%
Na 330.237†	31742957.0	21198.8	mg/L	155.32	21198.8	mg/L	155.32	0.73%
Ni 231.604†	179.5	-0.0015185	mg/L	0.00014584	-0.0015185	mg/L	0.00014584	9.60%
Pb 220.353†	182.8	0.0083134	mg/L	0.00041263	0.0083134	mg/L	0.00041263	4.96%
Sb 206.836†	-13.8	-0.0091948	mg/L	0.00003920	-0.0091948	mg/L	0.00003920	0.43%
Se 196.026†	-18.0	-0.0027052	mg/L	0.00482766	-0.0027052	mg/L	0.00482766	178.46%
Sn 189.927†	-82.7	-0.0096566	mg/L	0.00039684	-0.0096566	mg/L	0.00039684	4.11%
Ti 334.940†	26044.8	0.0294471	mg/L	0.00193309	0.0294471	mg/L	0.00193309	6.56%
Tl 190.801†	-3.6	-0.0138884	mg/L	0.00242295	-0.0138884	mg/L	0.00242295	17.45%
V 290.880†	6620.3	0.0045476	mg/L	0.00060691	0.0045476	mg/L	0.00060691	13.35%
Zn 206.200†	5221.3	0.0628528	mg/L	0.00022665	0.0628528	mg/L	0.00022665	0.36%

Sequence No.: 16
Sample ID: 78793-001 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 94
Date Collected: 5/27/2014 5:22:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 MR

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	481805.9	46.5	%	0.26				0.57%
Y 371.029	166858.0	48.3	%	0.27				0.56%
Ag 328.068†	-3931.0	-0.0170172	mg/L	0.00070325	-0.0170172	mg/L	0.00070325	4.13%
Al 308.215†	33255.7	0.907108	mg/L	0.0013388	0.907108	mg/L	0.0013388	0.15%
As 188.979†	4.0	-0.0031196	mg/L	0.00038484	-0.0031196	mg/L	0.00038484	12.34%
Ba 233.527†	20402.0	0.118764	mg/L	0.0008214	0.118764	mg/L	0.0008214	0.69%
Be 313.107†	2035.9	-0.0000663	mg/L	0.00002581	-0.0000663	mg/L	0.00002581	38.93%
Ca 315.887†	18239584.2	140.691	mg/L	0.4393	140.691	mg/L	0.4393	0.31%
Cd 228.802†	-138.2	-0.0044475	mg/L	0.00016918	-0.0044475	mg/L	0.00016918	3.80%
Co 228.616†	-128.5	-0.0055050	mg/L	0.00015881	-0.0055050	mg/L	0.00015881	2.88%
Cr 267.716†	76.5	-0.0033390	mg/L	0.00005428	-0.0033390	mg/L	0.00005428	1.63%
Cu 327.393†	3301.8	0.0199379	mg/L	0.00008633	0.0199379	mg/L	0.00008633	0.43%
Fe 273.955†	40017.2	1.50429	mg/L	0.010812	1.50429	mg/L	0.010812	0.72%
K 404.721†	54768.2	463.980	mg/L	0.0871	463.980	mg/L	0.0871	0.02%
Mg 279.077†	8261511.9	356.807	mg/L	1.7395	356.807	mg/L	1.7395	0.49%
Mn 257.610†	86301.3	0.0835606	mg/L	0.00054172	0.0835606	mg/L	0.00054172	0.65%
Mo 202.031†	346.2	0.0081998	mg/L	0.00023636	0.0081998	mg/L	0.00023636	2.88%
Na 330.237†	36487520.7	24367.4	mg/L	85.33	24367.4	mg/L	85.33	0.35%
Ni 231.604†	165.5	-0.0017302	mg/L	0.00005094	-0.0017302	mg/L	0.00005094	2.94%
Pb 220.353†	187.5	0.0086775	mg/L	0.00103225	0.0086775	mg/L	0.00103225	11.90%
Sb 206.836†	-17.8	-0.0109127	mg/L	0.00164168	-0.0109127	mg/L	0.00164168	15.04%
Se 196.026†	-17.4	-0.0020819	mg/L	0.00034303	-0.0020819	mg/L	0.00034303	16.48%
Sn 189.927†	-99.8	-0.0120763	mg/L	0.00076437	-0.0120763	mg/L	0.00076437	6.33%
Ti 334.940†	23803.9	0.0266476	mg/L	0.00050209	0.0266476	mg/L	0.00050209	1.88%
Tl 190.801†	-8.3	-0.0162530	mg/L	0.00053722	-0.0162530	mg/L	0.00053722	3.31%
V 290.880†	6797.1	0.0040419	mg/L	0.00060110	0.0040419	mg/L	0.00060110	14.87%
Zn 206.200†	4612.8	0.0550329	mg/L	0.00004488	0.0550329	mg/L	0.00004488	0.08%

Sequence No.: 17
Sample ID: 78793-001 MS 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 95
Date Collected: 5/27/2014 5:26:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 MS 1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	484132.7	46.7	%	0.12				0.26%
Y 371.029	167099.0	48.4	%	0.87				1.81%
Ag 328.068†	25769.3	0.111209	mg/L	0.0016789	0.111209	mg/L	0.0016789	1.51%
Al 308.215†	215227.4	6.24606	mg/L	0.021413	6.24606	mg/L	0.021413	0.34%
As 188.979†	697.6	0.395907	mg/L	0.0016497	0.395907	mg/L	0.0016497	0.42%
Ba 233.527†	77483.7	0.462486	mg/L	0.0033417	0.462486	mg/L	0.0033417	0.72%
Be 313.107†	1153221.0	0.346441	mg/L	0.0001367	0.346441	mg/L	0.0001367	0.04%
Ca 315.887†	21846306.7	168.561	mg/L	0.5558	168.561	mg/L	0.5558	0.33%
Cd 228.802†	31863.9	0.490104	mg/L	0.0035938	0.490104	mg/L	0.0035938	0.73%
Co 228.616†	15827.4	0.279855	mg/L	0.0010035	0.279855	mg/L	0.0010035	0.36%
Cr 267.716†	33689.6	0.325719	mg/L	0.0028311	0.325719	mg/L	0.0028311	0.87%
Cu 327.393†	85133.9	0.627558	mg/L	0.0029905	0.627558	mg/L	0.0029905	0.48%
Fe 273.955†	118784.7	4.56439	mg/L	0.040250	4.56439	mg/L	0.040250	0.88%
K 404.721†	68190.4	577.520	mg/L	0.8872	577.520	mg/L	0.8872	0.15%
Mg 279.077†	8679876.1	374.900	mg/L	1.6221	374.900	mg/L	1.6221	0.43%
Mn 257.610†	380177.6	0.425702	mg/L	0.0035595	0.425702	mg/L	0.0035595	0.84%
Mo 202.031†	8357.4	0.349992	mg/L	0.0013862	0.349992	mg/L	0.0013862	0.40%
Na 330.237†	36941793.4	24670.8	mg/L	289.25	24670.8	mg/L	289.25	1.17%
Ni 231.604†	18179.8	0.271753	mg/L	0.0022119	0.271753	mg/L	0.0022119	0.81%
Pb 220.353†	4700.6	0.263406	mg/L	0.0011944	0.263406	mg/L	0.0011944	0.45%
Sb 206.836†	1155.0	0.471134	mg/L	0.0059889	0.471134	mg/L	0.0059889	1.27%
Se 196.026†	717.4	0.389604	mg/L	0.0036505	0.389604	mg/L	0.0036505	0.94%
Sn 189.927†	1451.8	0.240756	mg/L	0.0020332	0.240756	mg/L	0.0020332	0.84%
Ti 334.940†	368404.4	0.457149	mg/L	0.0033358	0.457149	mg/L	0.0033358	0.73%
Tl 190.801†	630.8	0.241809	mg/L	0.0010828	0.241809	mg/L	0.0010828	0.45%
V 290.880†	64056.6	0.374233	mg/L	0.0032949	0.374233	mg/L	0.0032949	0.88%
Zn 206.200†	22191.1	0.280702	mg/L	0.0027170	0.280702	mg/L	0.0027170	0.97%

Sequence No.: 18
Sample ID: 78793-001 MS 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 96
Date Collected: 5/27/2014 5:30:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 MS 2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	492149.2	47.5	%	0.20				0.41%
Y 371.029	170968.2	49.5	%	0.35				0.71%
Ag 328.068†	25835.4	0.111493	mg/L	0.0022730	0.111493	mg/L	0.0022730	2.04%
Al 308.215†	212206.5	6.15728	mg/L	0.185491	6.15728	mg/L	0.185491	3.01%
As 188.979†	711.6	0.403973	mg/L	0.0005679	0.403973	mg/L	0.0005679	0.14%
Ba 233.527†	78095.4	0.466172	mg/L	0.0009146	0.466172	mg/L	0.0009146	0.20%
Be 313.107†	1175150.7	0.353045	mg/L	0.0020730	0.353045	mg/L	0.0020730	0.59%
Ca 315.887†	21936172.2	169.255	mg/L	0.0362	169.255	mg/L	0.0362	0.02%
Cd 228.802†	31871.4	0.490217	mg/L	0.0009725	0.490217	mg/L	0.0009725	0.20%
Co 228.616†	16141.9	0.285484	mg/L	0.0007364	0.285484	mg/L	0.0007364	0.26%
Cr 267.716†	34155.6	0.330274	mg/L	0.0007273	0.330274	mg/L	0.0007273	0.22%
Cu 327.393†	84385.9	0.622003	mg/L	0.0143477	0.622003	mg/L	0.0143477	2.31%
Fe 273.955†	117691.2	4.52190	mg/L	0.024434	4.52190	mg/L	0.024434	0.54%
K 404.721†	65270.4	552.819	mg/L	18.7011	552.819	mg/L	18.7011	3.38%
Mg 279.077†	8712674.6	376.318	mg/L	0.8687	376.318	mg/L	0.8687	0.23%
Mn 257.610†	382743.5	0.428643	mg/L	0.0010515	0.428643	mg/L	0.0010515	0.25%
Mo 202.031†	8443.2	0.353643	mg/L	0.0004462	0.353643	mg/L	0.0004462	0.13%
Na 330.237†	35473741.1	23690.4	mg/L	103.69	23690.4	mg/L	103.69	0.44%
Ni 231.604†	18578.8	0.277806	mg/L	0.0009325	0.277806	mg/L	0.0009325	0.34%
Pb 220.353†	4804.9	0.269236	mg/L	0.0011703	0.269236	mg/L	0.0011703	0.43%
Sb 206.836†	1170.9	0.477627	mg/L	0.0029354	0.477627	mg/L	0.0029354	0.61%
Se 196.026†	698.2	0.379428	mg/L	0.0029263	0.379428	mg/L	0.0029263	0.77%
Sn 189.927†	1496.4	0.248036	mg/L	0.0013109	0.248036	mg/L	0.0013109	0.53%
Ti 334.940†	368683.0	0.457497	mg/L	0.0041932	0.457497	mg/L	0.0041932	0.92%
Tl 190.801†	663.5	0.254860	mg/L	0.0007487	0.254860	mg/L	0.0007487	0.29%
V 290.880†	64600.6	0.377629	mg/L	0.0004647	0.377629	mg/L	0.0004647	0.12%
Zn 206.200†	22923.2	0.290115	mg/L	0.0009519	0.290115	mg/L	0.0009519	0.33%

Sequence No.: 19
Sample ID: 78793-001 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 97
Date Collected: 5/27/2014 5:34:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 PS

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	533166.9	51.5	%	1.32				2.57%
Y 371.029	184401.1	53.4	%	1.54				2.89%
Ag 328.068†	20612.7	0.0890030	mg/L	0.00111802	0.0890030	mg/L	0.00111802	1.26%
Al 308.215†	204278.4	5.92419	mg/L	0.001918	5.92419	mg/L	0.001918	0.03%
As 188.979†	737.4	0.419045	mg/L	0.0182740	0.419045	mg/L	0.0182740	4.36%
Ba 233.527†	79970.7	0.477455	mg/L	0.0068686	0.477455	mg/L	0.0068686	1.44%
Be 313.107†	1238255.0	0.372043	mg/L	0.0028718	0.372043	mg/L	0.0028718	0.77%
Ca 315.887†	21116503.2	162.919	mg/L	2.8925	162.919	mg/L	2.8925	1.78%
Cd 228.802†	32240.1	0.495941	mg/L	0.0054750	0.495941	mg/L	0.0054750	1.10%
Co 228.616†	17291.6	0.306038	mg/L	0.0084481	0.306038	mg/L	0.0084481	2.76%
Cr 267.716†	36822.2	0.356304	mg/L	0.0066872	0.356304	mg/L	0.0066872	1.88%
Cu 327.393†	81244.3	0.598695	mg/L	0.0039747	0.598695	mg/L	0.0039747	0.66%
Fe 273.955†	126524.5	4.86508	mg/L	0.088665	4.86508	mg/L	0.088665	1.82%
K 404.721†	55333.2	468.758	mg/L	0.7078	468.758	mg/L	0.7078	0.15%
Mg 279.077†	8422162.0	363.757	mg/L	7.8489	363.757	mg/L	7.8489	2.16%
Mn 257.610†	391293.0	0.439083	mg/L	0.0069073	0.439083	mg/L	0.0069073	1.57%
Mo 202.031†	8767.0	0.367648	mg/L	0.0102609	0.367648	mg/L	0.0102609	2.79%
Na 330.237†	30852083.4	20603.9	mg/L	330.23	20603.9	mg/L	330.23	1.60%
Ni 231.604†	20132.4	0.301373	mg/L	0.0081491	0.301373	mg/L	0.0081491	2.70%
Pb 220.353†	5212.0	0.291897	mg/L	0.0084114	0.291897	mg/L	0.0084114	2.88%
Sb 206.836†	1157.8	0.472384	mg/L	0.0157107	0.472384	mg/L	0.0157107	3.33%
Se 196.026†	727.6	0.394911	mg/L	0.0161699	0.394911	mg/L	0.0161699	4.09%
Sn 189.927†	1676.6	0.277043	mg/L	0.0088765	0.277043	mg/L	0.0088765	3.20%
Ti 334.940†	380529.0	0.472296	mg/L	0.0042326	0.472296	mg/L	0.0042326	0.90%
Tl 190.801†	700.6	0.270173	mg/L	0.0117759	0.270173	mg/L	0.0117759	4.36%
V 290.880†	66799.1	0.393154	mg/L	0.0067937	0.393154	mg/L	0.0067937	1.73%
Zn 206.200†	26164.3	0.331767	mg/L	0.0083549	0.331767	mg/L	0.0083549	2.52%

Sequence No.: 20
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/27/2014 5:38:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	979099.0	94.5	%	0.13				0.14%
Y 371.029	314476.8	91.1	%	0.29				0.32%
Ag 328.068†	23735.5	0.102027	mg/L	0.0005716	0.102027	mg/L	0.0005716	0.56%
QC value within limits for Ag 328.068 Recovery = 102.03%								
Al 308.215†	180350.2	5.21924	mg/L	0.005593	5.21924	mg/L	0.005593	0.11%
QC value within limits for Al 308.215 Recovery = 104.38%								
As 188.979†	912.4	0.523827	mg/L	0.0013777	0.523827	mg/L	0.0013777	0.26%
QC value within limits for As 188.979 Recovery = 104.77%								
Ba 233.527†	86158.6	0.514719	mg/L	0.0002251	0.514719	mg/L	0.0002251	0.04%
QC value within limits for Ba 233.527 Recovery = 102.94%								
Be 313.107†	1700880.2	0.511342	mg/L	0.0005618	0.511342	mg/L	0.0005618	0.11%
QC value within limits for Be 313.107 Recovery = 102.27%								
Ca 315.887†	6644499.5	51.0540	mg/L	0.01093	51.0540	mg/L	0.01093	0.02%
QC value within limits for Ca 315.887 Recovery = 102.11%								
Cd 228.802†	33852.2	0.521318	mg/L	0.0000625	0.521318	mg/L	0.0000625	0.01%
QC value within limits for Cd 228.802 Recovery = 104.26%								
Co 228.616†	29112.2	0.517557	mg/L	0.0002701	0.517557	mg/L	0.0002701	0.05%
QC value within limits for Co 228.616 Recovery = 103.51%								
Cr 267.716†	53824.1	0.522487	mg/L	0.0001326	0.522487	mg/L	0.0001326	0.03%
QC value within limits for Cr 267.716 Recovery = 104.50%								
Cu 327.393†	68961.3	0.507939	mg/L	0.0009114	0.507939	mg/L	0.0009114	0.18%
QC value within limits for Cu 327.393 Recovery = 101.59%								
Fe 273.955†	132585.3	5.10053	mg/L	0.024521	5.10053	mg/L	0.024521	0.48%
QC value within limits for Fe 273.955 Recovery = 102.01%								
K 404.721†	5537.1	47.5242	mg/L	0.94686	47.5242	mg/L	0.94686	1.99%
QC value within limits for K 404.721 Recovery = 95.05%								
Mg 279.077†	1229335.9	52.7499	mg/L	0.01512	52.7499	mg/L	0.01512	0.03%
QC value within limits for Mg 279.077 Recovery = 105.50%								
Mn 257.610†	441843.0	0.509610	mg/L	0.0004774	0.509610	mg/L	0.0004774	0.09%
QC value within limits for Mn 257.610 Recovery = 101.92%								
Mo 202.031†	11840.6	0.501895	mg/L	0.0013619	0.501895	mg/L	0.0013619	0.27%
QC value within limits for Mo 202.031 Recovery = 100.38%								
Na 330.237†	79236.2	52.8798	mg/L	1.67067	52.8798	mg/L	1.67067	3.16%
QC value within limits for Na 330.237 Recovery = 105.76%								
Ni 231.604†	34240.8	0.515400	mg/L	0.0004032	0.515400	mg/L	0.0004032	0.08%
QC value within limits for Ni 231.604 Recovery = 103.08%								
Pb 220.353†	9273.9	0.518246	mg/L	0.0017876	0.518246	mg/L	0.0017876	0.34%
QC value within limits for Pb 220.353 Recovery = 103.65%								
Sb 206.836†	1295.3	0.530815	mg/L	0.0007586	0.530815	mg/L	0.0007586	0.14%
QC value within limits for Sb 206.836 Recovery = 106.16%								
Se 196.026†	955.4	0.509793	mg/L	0.0025496	0.509793	mg/L	0.0025496	0.50%
QC value within limits for Se 196.026 Recovery = 101.96%								
Sn 189.927†	3228.6	0.523469	mg/L	0.0006003	0.523469	mg/L	0.0006003	0.11%
QC value within limits for Sn 189.927 Recovery = 104.69%								
Ti 334.940†	410633.6	0.509905	mg/L	0.0029191	0.509905	mg/L	0.0029191	0.57%
QC value within limits for Ti 334.940 Recovery = 101.98%								
Tl 190.801†	1307.6	0.521721	mg/L	0.0053515	0.521721	mg/L	0.0053515	1.03%
QC value within limits for Tl 190.801 Recovery = 104.34%								
V 290.880†	80079.4	0.510434	mg/L	0.0013317	0.510434	mg/L	0.0013317	0.26%
QC value within limits for V 290.880 Recovery = 102.09%								
Zn 206.200†	40787.9	0.519723	mg/L	0.0003753	0.519723	mg/L	0.0003753	0.07%
QC value within limits for Zn 206.200 Recovery = 103.94%								

All analyte(s) passed QC.

Sequence No.: 21
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/27/2014 5:41:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1023974.5	98.8	%	0.63				0.64%
Y 371.029	334758.2	96.9	%	0.65				0.67%
Ag 328.068†	4780.0	0.0198746	mg/L	0.00023211	0.0198746	mg/L	0.00023211	1.17%
QC value within limits for Ag 328.068 Recovery = 99.37%								
Al 308.215†	10164.0	0.228790	mg/L	0.0044660	0.228790	mg/L	0.0044660	1.95%
QC value within limits for Al 308.215 Recovery = 114.40%								
As 188.979†	35.7	0.0196876	mg/L	0.00190636	0.0196876	mg/L	0.00190636	9.68%
QC value within limits for As 188.979 Recovery = 98.44%								
Ba 233.527†	8575.5	0.0475714	mg/L	0.00002076	0.0475714	mg/L	0.00002076	0.04%
QC value within limits for Ba 233.527 Recovery = 95.14%								
Be 313.107†	39968.7	0.0113495	mg/L	0.00003680	0.0113495	mg/L	0.00003680	0.32%
QC value within limits for Be 313.107 Recovery = 94.58%								
Ca 315.887†	675898.8	4.93165	mg/L	0.002199	4.93165	mg/L	0.002199	0.04%
QC value within limits for Ca 315.887 Recovery = 98.63%								
Cd 228.802†	825.4	0.0110333	mg/L	0.00059837	0.0110333	mg/L	0.00059837	5.42%
QC value within limits for Cd 228.802 Recovery = 91.94%								
Co 228.616†	1162.7	0.0175362	mg/L	0.00025860	0.0175362	mg/L	0.00025860	1.47%
QC value within limits for Co 228.616 Recovery = 87.68%								
Cr 267.716†	5317.2	0.0476807	mg/L	0.00033963	0.0476807	mg/L	0.00033963	0.71%
QC value within limits for Cr 267.716 Recovery = 95.36%								
Cu 327.393†	7093.9	0.0486108	mg/L	0.00069523	0.0486108	mg/L	0.00069523	1.43%
QC value within limits for Cu 327.393 Recovery = 97.22%								
Fe 273.955†	9323.3	0.311845	mg/L	0.0011510	0.311845	mg/L	0.0011510	0.37%
QC value within limits for Fe 273.955 Recovery = 103.95%								
K 404.721†	437.8	4.38821	mg/L	0.258501	4.38821	mg/L	0.258501	5.89%
QC value within limits for K 404.721 Recovery = 87.76%								
Mg 279.077†	123216.8	4.91780	mg/L	0.009692	4.91780	mg/L	0.009692	0.20%
QC value within limits for Mg 279.077 Recovery = 98.36%								
Mn 257.610†	35782.5	0.0377023	mg/L	0.00004435	0.0377023	mg/L	0.00004435	0.12%
QC value within limits for Mn 257.610 Recovery = 94.26%								
Mo 202.031†	492.1	0.0178200	mg/L	0.00008595	0.0178200	mg/L	0.00008595	0.48%
QC value within limits for Mo 202.031 Recovery = 89.10%								
Na 330.237†	7980.3	5.29303	mg/L	0.017520	5.29303	mg/L	0.017520	0.33%
QC value within limits for Na 330.237 Recovery = 105.86%								
Ni 231.604†	3539.2	0.0494206	mg/L	0.00050102	0.0494206	mg/L	0.00050102	1.01%
QC value within limits for Ni 231.604 Recovery = 98.84%								
Pb 220.353†	212.1	0.0088125	mg/L	0.00060673	0.0088125	mg/L	0.00060673	6.88%
QC value within limits for Pb 220.353 Recovery = 73.44%								
Sb 206.836†	52.5	0.0198261	mg/L	0.00331460	0.0198261	mg/L	0.00331460	16.72%
QC value within limits for Sb 206.836 Recovery = 99.13%								
Se 196.026†	68.6	0.0362814	mg/L	0.00050973	0.0362814	mg/L	0.00050973	1.40%
QC value within limits for Se 196.026 Recovery = 90.70%								
Sn 189.927†	293.1	0.0450236	mg/L	0.00012803	0.0450236	mg/L	0.00012803	0.28%
QC value within limits for Sn 189.927 Recovery = 90.05%								
Ti 334.940†	39624.1	0.0464114	mg/L	0.00005980	0.0464114	mg/L	0.00005980	0.13%
QC value within limits for Ti 334.940 Recovery = 92.82%								
Tl 190.801†	58.6	0.0199909	mg/L	0.00042236	0.0199909	mg/L	0.00042236	2.11%
QC value within limits for Tl 190.801 Recovery = 99.95%								
V 290.880†	8042.7	0.0472199	mg/L	0.00016193	0.0472199	mg/L	0.00016193	0.34%
QC value within limits for V 290.880 Recovery = 94.44%								
Zn 206.200†	4632.4	0.0553412	mg/L	0.00041711	0.0553412	mg/L	0.00041711	0.75%
QC value within limits for Zn 206.200 Recovery = 110.68%								

All analyte(s) passed QC.

Sequence No.: 22
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/27/2014 5:45:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1020441.7	98.5	%	0.09				0.09%
Y 371.029	337943.7	97.9	%	0.03				0.03%
Ag 328.068†	261.4	0.0003700	mg/L	0.00025173	0.0003700	mg/L	0.00025173	68.03%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	590.2	-0.0520568	mg/L	0.00168855	-0.0520568	mg/L	0.00168855	3.24%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.2	0.0005010	mg/L	0.00076298	0.0005010	mg/L	0.00076298	152.28%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-35.7	-0.0042855	mg/L	0.00005204	-0.0042855	mg/L	0.00005204	1.21%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	20.9	-0.0006624	mg/L	0.00000933	-0.0006624	mg/L	0.00000933	1.41%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	170.0	-0.290633	mg/L	0.0076295	-0.290633	mg/L	0.0076295	2.63%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	48.3	-0.0009511	mg/L	0.00008293	-0.0009511	mg/L	0.00008293	8.72%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	14.3	-0.0029486	mg/L	0.00009933	-0.0029486	mg/L	0.00009933	3.37%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	67.8	-0.0035343	mg/L	0.00028877	-0.0035343	mg/L	0.00028877	8.17%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-18.8	-0.0041846	mg/L	0.00036123	-0.0041846	mg/L	0.00036123	8.63%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	57.0	-0.0481481	mg/L	0.00018815	-0.0481481	mg/L	0.00018815	0.39%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	-104.9	-0.202741	mg/L	1.1996545	-0.202741	mg/L	1.1996545	591.72%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	135.7	-0.404294	mg/L	0.0034353	-0.404294	mg/L	0.0034353	0.85%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	46.0	-0.0037812	mg/L	0.00000517	-0.0037812	mg/L	0.00000517	0.14%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	9.3	-0.0026864	mg/L	0.00036345	-0.0026864	mg/L	0.00036345	13.53%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	1257.3	0.803208	mg/L	0.0473589	0.803208	mg/L	0.0473589	5.90%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	10.7	-0.0040941	mg/L	0.00006484	-0.0040941	mg/L	0.00006484	1.58%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-2.0	-0.0033423	mg/L	0.00003876	-0.0033423	mg/L	0.00003876	1.16%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-8.1	-0.0050485	mg/L	0.00070314	-0.0050485	mg/L	0.00070314	13.93%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-8.2	-0.0047757	mg/L	0.00613893	-0.0047757	mg/L	0.00613893	128.55%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-0.6	-0.0028620	mg/L	0.00033955	-0.0028620	mg/L	0.00033955	11.86%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	124.6	-0.0029345	mg/L	0.00013478	-0.0029345	mg/L	0.00013478	4.59%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	7.6	-0.0006010	mg/L	0.00093907	-0.0006010	mg/L	0.00093907	156.24%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	194.2	-0.0032360	mg/L	0.00029462	-0.0032360	mg/L	0.00029462	9.10%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	23.7	-0.0038794	mg/L	0.00005125	-0.0038794	mg/L	0.00005125	1.32%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 23
Sample ID: 78793-001 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 98
Date Collected: 5/27/2014 5:48:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 SD

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	795816.0	76.8	%	0.07				0.09%
Y 371.029	265472.6	76.9	%	1.54				2.00%
Ag 328.068†	605.8	0.0020330	mg/L	0.00048437	0.0020330	mg/L	0.00048437	23.83%
Al 308.215†	7038.4	0.137241	mg/L	0.0058707	0.137241	mg/L	0.0058707	4.28%
As 188.979†	8.8	0.0029001	mg/L	0.00440831	0.0029001	mg/L	0.00440831	152.00%
Ba 233.527†	4385.7	0.0223311	mg/L	0.00016315	0.0223311	mg/L	0.00016315	0.73%
Be 313.107†	-258.5	-0.0007489	mg/L	0.00001922	-0.0007489	mg/L	0.00001922	2.57%
Ca 315.887†	4913504.2	37.6870	mg/L	0.07818	37.6870	mg/L	0.07818	0.21%
Cd 228.802†	75.8	-0.0006918	mg/L	0.00003682	-0.0006918	mg/L	0.00003682	5.32%
Co 228.616†	23.5	-0.0027770	mg/L	0.00003343	-0.0027770	mg/L	0.00003343	1.20%
Cr 267.716†	273.8	-0.0014933	mg/L	0.00004832	-0.0014933	mg/L	0.00004832	3.24%
Cu 327.393†	1464.2	0.0066868	mg/L	0.00010565	0.0066868	mg/L	0.00010565	1.58%
Fe 273.955†	10926.3	0.374122	mg/L	0.0099275	0.374122	mg/L	0.0099275	2.65%
K 404.721†	5505.9	47.2601	mg/L	1.98989	47.2601	mg/L	1.98989	4.21%
Mg 279.077†	2623313.6	113.018	mg/L	0.2316	113.018	mg/L	0.2316	0.20%
Mn 257.610†	20492.7	0.0158573	mg/L	0.00063707	0.0158573	mg/L	0.00063707	4.02%
Mo 202.031†	133.8	0.0016897	mg/L	0.00049066	0.0016897	mg/L	0.00049066	29.04%
Na 330.237†	8170989.8	5456.79	mg/L	0.599	5456.79	mg/L	0.599	0.01%
Ni 231.604†	88.6	-0.0029061	mg/L	0.00028467	-0.0029061	mg/L	0.00028467	9.80%
Pb 220.353†	21.3	-0.0017435	mg/L	0.00029988	-0.0017435	mg/L	0.00029988	17.20%
Sb 206.836†	16.9	0.0046061	mg/L	0.00046714	0.0046061	mg/L	0.00046714	10.14%
Se 196.026†	-10.0	-0.0034360	mg/L	0.00402369	-0.0034360	mg/L	0.00402369	117.10%
Sn 189.927†	-20.9	-0.0041257	mg/L	0.00135656	-0.0041257	mg/L	0.00135656	32.88%
Ti 334.940†	5170.6	0.0033694	mg/L	0.00024102	0.0033694	mg/L	0.00024102	7.15%
Tl 190.801†	13.1	-0.0013988	mg/L	0.00139885	-0.0013988	mg/L	0.00139885	100.00%
V 290.880†	6492.7	0.0263719	mg/L	0.00102450	0.0263719	mg/L	0.00102450	3.88%
Zn 206.200†	2047.5	0.0221158	mg/L	0.00008221	0.0221158	mg/L	0.00008221	0.37%

Sequence No.: 24
Sample ID: 78787-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 99
Date Collected: 5/27/2014 5:51:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-003

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1207337.8	117	%	0.0				0.02%
Y 371.029	761613.5	221	%	0.3				0.12%
Ag 328.068†	-12634.7	-0.0190442	mg/L	0.00037357	-0.0190442	mg/L	0.00037357	1.96%
Al 308.215†	8814382.2	258.812	mg/L	0.4605	258.812	mg/L	0.4605	0.18%
As 188.979†	9799.9	5.68033	mg/L	0.004297	5.68033	mg/L	0.004297	0.08%
Ba 233.527†	458760.4	2.74044	mg/L	0.002511	2.74044	mg/L	0.002511	0.09%
Be 313.107†	78744.8	0.0190205	mg/L	0.00009105	0.0190205	mg/L	0.00009105	0.48%
Ca 315.887†	11209968.2	85.5967	mg/L	0.06306	85.5967	mg/L	0.06306	0.07%
Cd 228.802†	3225.3	0.0419104	mg/L	0.00227285	0.0419104	mg/L	0.00227285	5.42%
Co 228.616†	26506.0	0.447666	mg/L	0.0045468	0.447666	mg/L	0.0045468	1.02%
Cr 267.716†	116656.0	1.13698	mg/L	0.000082	1.13698	mg/L	0.000082	0.01%
Cu 327.393†	139731.9	1.02568	mg/L	0.000012	1.02568	mg/L	0.000012	0.00%
Fe 273.955†	12814391.6	497.785	mg/L	1.6574	497.785	mg/L	1.6574	0.33%
K 404.721†	10032.3	85.5494	mg/L	0.05679	85.5494	mg/L	0.05679	0.07%
Mg 279.077†	5831418.2	251.469	mg/L	0.0567	251.469	mg/L	0.0567	0.02%
Mn 257.610†	12329578.1	14.3652	mg/L	0.02572	14.3652	mg/L	0.02572	0.18%
Mo 202.031†	2148.5	0.0811462	mg/L	0.00117641	0.0811462	mg/L	0.00117641	1.45%
Na 330.237†	47772.3	31.8673	mg/L	0.23175	31.8673	mg/L	0.23175	0.73%
Ni 231.604†	132868.4	2.01005	mg/L	0.024329	2.01005	mg/L	0.024329	1.21%
Pb 220.353†	8614.1	0.532555	mg/L	0.0018967	0.532555	mg/L	0.0018967	0.36%
Sb 206.836†	-239.1	-0.0412101	mg/L	0.00986521	-0.0412101	mg/L	0.00986521	23.94%
Se 196.026†	-368.0	-0.0214956	mg/L	0.00111510	-0.0214956	mg/L	0.00111510	5.19%
Sn 189.927†	84.6	0.0103309	mg/L	0.00052112	0.0103309	mg/L	0.00052112	5.04%
Ti 334.940†	8936201.1	11.1607	mg/L	0.00996	11.1607	mg/L	0.00996	0.09%
Tl 190.801†	-117.1	-0.0088506	mg/L	0.01249785	-0.0088506	mg/L	0.01249785	141.21%
V 290.880†	113795.3	0.695192	mg/L	0.0000929	0.695192	mg/L	0.0000929	0.01%
Zn 206.200†	180199.1	2.28836	mg/L	0.002362	2.28836	mg/L	0.002362	0.10%

Sequence No.: 25
Sample ID: 78787-004
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 100
Date Collected: 5/27/2014 5:55:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-004

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1048103.7	101	%	1.2				1.17%
Y 371.029	340173.2	98.5	%	1.35				1.37%
Ag 328.068†	63.3	-0.0004147	mg/L	0.00092528	-0.0004147	mg/L	0.00092528	223.14%
Al 308.215†	2024.9	-0.0102112	mg/L	0.00451259	-0.0102112	mg/L	0.00451259	44.19%
As 188.979†	828.3	0.476011	mg/L	0.0039714	0.476011	mg/L	0.0039714	0.83%
Ba 233.527†	3473.3	0.0168496	mg/L	0.00006256	0.0168496	mg/L	0.00006256	0.37%
Be 313.107†	36.1	-0.0006582	mg/L	0.00000328	-0.0006582	mg/L	0.00000328	0.50%
Ca 315.887†	2141648.1	16.2620	mg/L	0.26218	16.2620	mg/L	0.26218	1.61%
Cd 228.802†	234.5	0.0018544	mg/L	0.00012186	0.0018544	mg/L	0.00012186	6.57%
Co 228.616†	-25.5	-0.0035949	mg/L	0.00010944	-0.0035949	mg/L	0.00010944	3.04%
Cr 267.716†	283.9	-0.0013324	mg/L	0.00019808	-0.0013324	mg/L	0.00019808	14.87%
Cu 327.393†	416.2	-0.0010073	mg/L	0.00004801	-0.0010073	mg/L	0.00004801	4.77%
Fe 273.955†	1250.0	-0.0017978	mg/L	0.00274456	-0.0017978	mg/L	0.00274456	152.67%
K 404.721†	639.7	6.09590	mg/L	1.380393	6.09590	mg/L	1.380393	22.64%
Mg 279.077†	154478.7	6.26958	mg/L	0.013642	6.26958	mg/L	0.013642	0.22%
Mn 257.610†	17742.4	0.0166136	mg/L	0.00027602	0.0166136	mg/L	0.00027602	1.66%
Mo 202.031†	424.5	0.0146596	mg/L	0.00002138	0.0146596	mg/L	0.00002138	0.15%
Na 330.237†	48910.4	32.6273	mg/L	2.63550	32.6273	mg/L	2.63550	8.08%
Ni 231.604†	108.4	-0.0025917	mg/L	0.00010983	-0.0025917	mg/L	0.00010983	4.24%
Pb 220.353†	-5.2	-0.0031620	mg/L	0.00010268	-0.0031620	mg/L	0.00010268	3.25%
Sb 206.836†	0.2	-0.0016903	mg/L	0.00104721	-0.0016903	mg/L	0.00104721	61.95%
Se 196.026†	-4.8	-0.0026266	mg/L	0.00103084	-0.0026266	mg/L	0.00103084	39.25%
Sn 189.927†	-12.2	-0.0043163	mg/L	0.00058223	-0.0043163	mg/L	0.00058223	13.49%
Ti 334.940†	896.5	-0.0019701	mg/L	0.00023166	-0.0019701	mg/L	0.00023166	11.76%
Tl 190.801†	4.5	-0.0019476	mg/L	0.00065402	-0.0019476	mg/L	0.00065402	33.58%
V 290.880†	1120.2	0.0021207	mg/L	0.00018771	0.0021207	mg/L	0.00018771	8.85%
Zn 206.200†	666.2	0.0043728	mg/L	0.00020421	0.0043728	mg/L	0.00020421	4.67%

Sequence No.: 26
Sample ID: 78787-005
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 101
Date Collected: 5/27/2014 5:59:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-005

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1051091.7	101	%	0.7				0.67%
Y 371.029	346092.7	100	%	0.4				0.36%
Ag 328.068†	-147.4	-0.0013886	mg/L	0.00001849	-0.0013886	mg/L	0.00001849	1.33%
Al 308.215†	732.3	-0.0478780	mg/L	0.00269578	-0.0478780	mg/L	0.00269578	5.63%
As 188.979†	3.3	0.0011181	mg/L	0.00075479	0.0011181	mg/L	0.00075479	67.51%
Ba 233.527†	57.1	-0.0037273	mg/L	0.00001976	-0.0037273	mg/L	0.00001976	0.53%
Be 313.107†	171.7	-0.0006170	mg/L	0.00000854	-0.0006170	mg/L	0.00000854	1.38%
Ca 315.887†	7917.0	-0.230774	mg/L	0.0009212	-0.230774	mg/L	0.0009212	0.40%
Cd 228.802†	12.4	-0.0015073	mg/L	0.00011807	-0.0015073	mg/L	0.00011807	7.83%
Co 228.616†	-0.4	-0.0032119	mg/L	0.00035410	-0.0032119	mg/L	0.00035410	11.02%
Cr 267.716†	163.0	-0.0026090	mg/L	0.00006731	-0.0026090	mg/L	0.00006731	2.58%
Cu 327.393†	33.1	-0.0037994	mg/L	0.00038087	-0.0037994	mg/L	0.00038087	10.02%
Fe 273.955†	497.9	-0.0310182	mg/L	0.00096958	-0.0310182	mg/L	0.00096958	3.13%
K 404.721†	21.2	0.863476	mg/L	0.3587877	0.863476	mg/L	0.3587877	41.55%
Mg 279.077†	167.7	-0.402925	mg/L	0.0016475	-0.402925	mg/L	0.0016475	0.41%
Mn 257.610†	329.8	-0.0034504	mg/L	0.00000543	-0.0034504	mg/L	0.00000543	0.16%
Mo 202.031†	2.6	-0.0029737	mg/L	0.00024536	-0.0029737	mg/L	0.00024536	8.25%
Na 330.237†	570.9	0.344766	mg/L	0.0520565	0.344766	mg/L	0.0520565	15.10%
Ni 231.604†	5.5	-0.0041736	mg/L	0.00015572	-0.0041736	mg/L	0.00015572	3.73%
Pb 220.353†	-1.5	-0.0033133	mg/L	0.00037900	-0.0033133	mg/L	0.00037900	11.44%
Sb 206.836†	-5.5	-0.0040114	mg/L	0.00208518	-0.0040114	mg/L	0.00208518	51.98%
Se 196.026†	-2.6	-0.0017868	mg/L	0.00028731	-0.0017868	mg/L	0.00028731	16.08%
Sn 189.927†	0.9	-0.0026151	mg/L	0.00055361	-0.0026151	mg/L	0.00055361	21.17%
Ti 334.940†	148.1	-0.0029050	mg/L	0.00001493	-0.0029050	mg/L	0.00001493	0.51%
Tl 190.801†	3.0	-0.0024518	mg/L	0.00051079	-0.0024518	mg/L	0.00051079	20.83%
V 290.880†	19.1	-0.0043740	mg/L	0.00015543	-0.0043740	mg/L	0.00015543	3.55%
Zn 206.200†	547.2	0.0028499	mg/L	0.00006334	0.0028499	mg/L	0.00006334	2.22%

Sequence No.: 27
Sample ID: 78787-006
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 102
Date Collected: 5/27/2014 6:02:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-006

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1070622.7	103	%	2.4				2.34%
Y 371.029	351573.8	102	%	2.5				2.50%
Ag 328.068†	-125.3	-0.0012937	mg/L	0.00090175	-0.0012937	mg/L	0.00090175	69.70%
Al 308.215†	320.7	-0.0599717	mg/L	0.01160678	-0.0599717	mg/L	0.01160678	19.35%
As 188.979†	3.9	0.0014684	mg/L	0.00088243	0.0014684	mg/L	0.00088243	60.09%
Ba 233.527†	61.8	-0.0036989	mg/L	0.00018581	-0.0036989	mg/L	0.00018581	5.02%
Be 313.107†	89.1	-0.0006419	mg/L	0.00003481	-0.0006419	mg/L	0.00003481	5.42%
Ca 315.887†	12792.1	-0.193089	mg/L	0.0101960	-0.193089	mg/L	0.0101960	5.28%
Cd 228.802†	-4.9	-0.0017743	mg/L	0.00032464	-0.0017743	mg/L	0.00032464	18.30%
Co 228.616†	-14.0	-0.0034546	mg/L	0.00000442	-0.0034546	mg/L	0.00000442	0.13%
Cr 267.716†	75.9	-0.0034564	mg/L	0.00041530	-0.0034564	mg/L	0.00041530	12.02%
Cu 327.393†	18.8	-0.0039054	mg/L	0.00022989	-0.0039054	mg/L	0.00022989	5.89%
Fe 273.955†	481.3	-0.0316612	mg/L	0.00382146	-0.0316612	mg/L	0.00382146	12.07%
K 404.721†	1.3	0.695625	mg/L	0.2596538	0.695625	mg/L	0.2596538	37.33%
Mg 279.077†	668.2	-0.381281	mg/L	0.0198639	-0.381281	mg/L	0.0198639	5.21%
Mn 257.610†	483.1	-0.0032724	mg/L	0.00021550	-0.0032724	mg/L	0.00021550	6.59%
Mo 202.031†	6.1	-0.0028244	mg/L	0.00028225	-0.0028244	mg/L	0.00028225	9.99%
Na 330.237†	2003.2	1.30132	mg/L	1.351362	1.30132	mg/L	1.351362	103.85%
Ni 231.604†	-2.0	-0.0042860	mg/L	0.00034240	-0.0042860	mg/L	0.00034240	7.99%
Pb 220.353†	6.3	-0.0028774	mg/L	0.00079648	-0.0028774	mg/L	0.00079648	27.68%
Sb 206.836†	-9.4	-0.0055840	mg/L	0.00255594	-0.0055840	mg/L	0.00255594	45.77%
Se 196.026†	-2.2	-0.0015773	mg/L	0.00531864	-0.0015773	mg/L	0.00531864	337.21%
Sn 189.927†	2.0	-0.0024370	mg/L	0.00080574	-0.0024370	mg/L	0.00080574	33.06%
Ti 334.940†	112.7	-0.0029492	mg/L	0.00008231	-0.0029492	mg/L	0.00008231	2.79%
Tl 190.801†	3.5	-0.0022352	mg/L	0.00086308	-0.0022352	mg/L	0.00086308	38.61%
V 290.880†	-76.5	-0.0049973	mg/L	0.00091780	-0.0049973	mg/L	0.00091780	18.37%
Zn 206.200†	589.2	0.0033898	mg/L	0.00017981	0.0033898	mg/L	0.00017981	5.30%

Sequence No.: 28
Sample ID: ICSA V-185195
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/27/2014 6:05:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185195

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	893929.5	86.3	%	0.90				1.04%
Y 371.029	290414.2	84.1	%	1.14				1.35%
Ag 328.068†	-3475.7	0.0002105	mg/L	0.00051386	0.0002105	mg/L	0.00051386	244.14%
Al 308.215†	16869975.8	495.411	mg/L	3.3578	495.411	mg/L	3.3578	0.68%
QC value within limits for Al 308.215 Recovery = 99.08%								
As 188.979†	15.3	-0.0002523	mg/L	0.00109030	-0.0002523	mg/L	0.00109030	432.11%
Ba 233.527†	1542.2	-0.0021754	mg/L	0.00025974	-0.0021754	mg/L	0.00025974	11.94%
Be 313.107†	-3420.5	-0.0017018	mg/L	0.00004761	-0.0017018	mg/L	0.00004761	2.80%
Ca 315.887†	63014095.9	486.434	mg/L	2.7110	486.434	mg/L	2.7110	0.56%
QC value within limits for Ca 315.887 Recovery = 97.29%								
Cd 228.802†	324.8	-0.0026101	mg/L	0.00016029	-0.0026101	mg/L	0.00016029	6.14%
Co 228.616†	30.8	-0.0026160	mg/L	0.00025496	-0.0026160	mg/L	0.00025496	9.75%
Cr 267.716†	284.3	-0.0013417	mg/L	0.00019968	-0.0013417	mg/L	0.00019968	14.88%
Cu 327.393†	1529.6	-0.0004743	mg/L	0.00128346	-0.0004743	mg/L	0.00128346	270.61%
Fe 273.955†	5020243.3	194.985	mg/L	0.5314	194.985	mg/L	0.5314	0.27%
QC value within limits for Fe 273.955 Recovery = 97.49%								
K 404.721†	-239.0	-1.33708	mg/L	0.004464	-1.33708	mg/L	0.004464	0.33%
Mg 279.077†	11934888.6	515.503	mg/L	2.2440	515.503	mg/L	2.2440	0.44%
QC value within limits for Mg 279.077 Recovery = 103.10%								
Mn 257.610†	21715.0	0.0023508	mg/L	0.00001210	0.0023508	mg/L	0.00001210	0.51%
Mo 202.031†	354.9	-0.0040206	mg/L	0.00002815	-0.0040206	mg/L	0.00002815	0.70%
Na 330.237†	704.8	0.434212	mg/L	0.0585394	0.434212	mg/L	0.0585394	13.48%
Ni 231.604†	70.8	-0.0031650	mg/L	0.00016706	-0.0031650	mg/L	0.00016706	5.28%
Pb 220.353†	-1958.6	0.0043331	mg/L	0.00178165	0.0043331	mg/L	0.00178165	41.12%
Sb 206.836†	-30.4	-0.0074683	mg/L	0.00020845	-0.0074683	mg/L	0.00020845	2.79%
Se 196.026†	-194.8	-0.0100110	mg/L	0.00130160	-0.0100110	mg/L	0.00130160	13.00%
Sn 189.927†	-48.6	-0.0042721	mg/L	0.00124267	-0.0042721	mg/L	0.00124267	29.09%
Ti 334.940†	6829.3	0.0054416	mg/L	0.00000452	0.0054416	mg/L	0.00000452	0.08%
Tl 190.801†	108.3	-0.0084178	mg/L	0.00435904	-0.0084178	mg/L	0.00435904	51.78%
V 290.880†	9321.1	-0.0026214	mg/L	0.00049738	-0.0026214	mg/L	0.00049738	18.97%
Zn 206.200†	1336.3	-0.0030876	mg/L	0.00060370	-0.0030876	mg/L	0.00060370	19.55%

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/27/2014 6:10:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	892100.7	86.1	%	0.12				0.13%
Y 371.029	290132.3	84.0	%	0.31				0.37%
Ag 328.068†	248286.6	1.08448	mg/L	0.001479	1.08448	mg/L	0.001479	0.14%
QC value within limits for Ag 328.068 Recovery = 108.45%								
Al 308.215†	17036390.2	500.298	mg/L	1.1260	500.298	mg/L	1.1260	0.23%
QC value within limits for Al 308.215 Recovery = 100.06%								
As 188.979†	1830.2	1.04490	mg/L	0.007466	1.04490	mg/L	0.007466	0.71%
QC value within limits for As 188.979 Recovery = 104.49%								
Ba 233.527†	88991.2	0.524527	mg/L	0.0000161	0.524527	mg/L	0.0000161	0.00%
QC value within limits for Ba 233.527 Recovery = 104.91%								
Be 313.107†	1722274.8	0.517967	mg/L	0.0002274	0.517967	mg/L	0.0002274	0.04%
QC value within limits for Be 313.107 Recovery = 103.59%								
Ca 315.887†	63663533.1	491.448	mg/L	0.4113	491.448	mg/L	0.4113	0.08%
QC value within limits for Ca 315.887 Recovery = 98.29%								
Cd 228.802†	69895.4	1.07291	mg/L	0.002815	1.07291	mg/L	0.002815	0.26%
QC value within limits for Cd 228.802 Recovery = 107.29%								
Co 228.616†	27893.6	0.494983	mg/L	0.0013521	0.494983	mg/L	0.0013521	0.27%
QC value within limits for Co 228.616 Recovery = 99.00%								
Cr 267.716†	52788.0	0.509879	mg/L	0.0009569	0.509879	mg/L	0.0009569	0.19%
QC value within limits for Cr 267.716 Recovery = 101.98%								
Cu 327.393†	73609.5	0.534814	mg/L	0.0000834	0.534814	mg/L	0.0000834	0.02%
QC value within limits for Cu 327.393 Recovery = 106.96%								
Fe 273.955†	5057683.6	196.439	mg/L	0.1830	196.439	mg/L	0.1830	0.09%
QC value within limits for Fe 273.955 Recovery = 98.22%								
K 404.721†	3.4	0.713034	mg/L	0.2153458	0.713034	mg/L	0.2153458	30.20%
Mg 279.077†	12044162.9	520.230	mg/L	0.1372	520.230	mg/L	0.1372	0.03%
QC value within limits for Mg 279.077 Recovery = 104.05%								
Mn 257.610†	456529.8	0.509241	mg/L	0.0006992	0.509241	mg/L	0.0006992	0.14%
QC value within limits for Mn 257.610 Recovery = 101.85%								
Mo 202.031†	377.7	-0.0032081	mg/L	0.00030603	-0.0032081	mg/L	0.00030603	9.54%
Na 330.237†	1475.6	0.948964	mg/L	0.0101394	0.948964	mg/L	0.0101394	1.07%
Ni 231.604†	64782.5	0.977824	mg/L	0.0046340	0.977824	mg/L	0.0046340	0.47%
QC value within limits for Ni 231.604 Recovery = 97.78%								
Pb 220.353†	15941.2	1.00564	mg/L	0.004357	1.00564	mg/L	0.004357	0.43%
QC value within limits for Pb 220.353 Recovery = 100.56%								
Sb 206.836†	2533.3	1.04550	mg/L	0.001382	1.04550	mg/L	0.001382	0.13%
QC value within limits for Sb 206.836 Recovery = 104.55%								
Se 196.026†	1744.6	1.01936	mg/L	0.006052	1.01936	mg/L	0.006052	0.59%
QC value within limits for Se 196.026 Recovery = 101.94%								
Sn 189.927†	-59.0	-0.0058988	mg/L	0.00318246	-0.0058988	mg/L	0.00318246	53.95%
Ti 334.940†	6419.0	0.0049290	mg/L	0.00003902	0.0049290	mg/L	0.00003902	0.79%
Tl 190.801†	2530.1	0.960695	mg/L	0.0026261	0.960695	mg/L	0.0026261	0.27%
QC value within limits for Tl 190.801 Recovery = 96.07%								
V 290.880†	85185.7	0.489828	mg/L	0.0014532	0.489828	mg/L	0.0014532	0.30%
QC value within limits for V 290.880 Recovery = 97.97%								
Zn 206.200†	78281.5	0.985913	mg/L	0.0027412	0.985913	mg/L	0.0027412	0.28%
QC value within limits for Zn 206.200 Recovery = 98.59%								

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/27/2014 6:15:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	990816.5	95.6	%	0.15				0.15%
Y 371.029	321886.4	93.2	%	0.63				0.68%
Ag 328.068†	23538.3	0.101177	mg/L	0.0009068	0.101177	mg/L	0.0009068	0.90%
QC value within limits for Ag 328.068 Recovery = 101.18%								
Al 308.215†	180766.0	5.23149	mg/L	0.027059	5.23149	mg/L	0.027059	0.52%
QC value within limits for Al 308.215 Recovery = 104.63%								
As 188.979†	879.0	0.504615	mg/L	0.0026743	0.504615	mg/L	0.0026743	0.53%
QC value within limits for As 188.979 Recovery = 100.92%								
Ba 233.527†	86627.3	0.517542	mg/L	0.0020739	0.517542	mg/L	0.0020739	0.40%
QC value within limits for Ba 233.527 Recovery = 103.51%								
Be 313.107†	1683645.8	0.506152	mg/L	0.0003779	0.506152	mg/L	0.0003779	0.07%
QC value within limits for Be 313.107 Recovery = 101.23%								
Ca 315.887†	6615509.2	50.8299	mg/L	0.01915	50.8299	mg/L	0.01915	0.04%
QC value within limits for Ca 315.887 Recovery = 101.66%								
Cd 228.802†	33142.6	0.510349	mg/L	0.0003430	0.510349	mg/L	0.0003430	0.07%
QC value within limits for Cd 228.802 Recovery = 102.07%								
Co 228.616†	28568.7	0.507841	mg/L	0.0001930	0.507841	mg/L	0.0001930	0.04%
QC value within limits for Co 228.616 Recovery = 101.57%								
Cr 267.716†	53823.5	0.522470	mg/L	0.0047610	0.522470	mg/L	0.0047610	0.91%
QC value within limits for Cr 267.716 Recovery = 104.49%								
Cu 327.393†	69152.8	0.509361	mg/L	0.0041434	0.509361	mg/L	0.0041434	0.81%
QC value within limits for Cu 327.393 Recovery = 101.87%								
Fe 273.955†	132578.8	5.10028	mg/L	0.021635	5.10028	mg/L	0.021635	0.42%
QC value within limits for Fe 273.955 Recovery = 102.01%								
K 404.721†	5720.3	49.0734	mg/L	0.46189	49.0734	mg/L	0.46189	0.94%
QC value within limits for K 404.721 Recovery = 98.15%								
Mg 279.077†	1220010.9	52.3467	mg/L	0.03714	52.3467	mg/L	0.03714	0.07%
QC value within limits for Mg 279.077 Recovery = 104.69%								
Mn 257.610†	441543.6	0.509275	mg/L	0.0024977	0.509275	mg/L	0.0024977	0.49%
QC value within limits for Mn 257.610 Recovery = 101.85%								
Mo 202.031†	11792.5	0.499841	mg/L	0.0010370	0.499841	mg/L	0.0010370	0.21%
QC value within limits for Mo 202.031 Recovery = 99.97%								
Na 330.237†	76078.7	50.7711	mg/L	0.22529	50.7711	mg/L	0.22529	0.44%
QC value within limits for Na 330.237 Recovery = 101.54%								
Ni 231.604†	34452.2	0.518602	mg/L	0.0037749	0.518602	mg/L	0.0037749	0.73%
QC value within limits for Ni 231.604 Recovery = 103.72%								
Pb 220.353†	9173.3	0.512618	mg/L	0.0004241	0.512618	mg/L	0.0004241	0.08%
QC value within limits for Pb 220.353 Recovery = 102.52%								
Sb 206.836†	1251.2	0.512697	mg/L	0.0046210	0.512697	mg/L	0.0046210	0.90%
QC value within limits for Sb 206.836 Recovery = 102.54%								
Se 196.026†	928.3	0.495407	mg/L	0.0028689	0.495407	mg/L	0.0028689	0.58%
QC value within limits for Se 196.026 Recovery = 99.08%								
Sn 189.927†	3160.3	0.512351	mg/L	0.0000502	0.512351	mg/L	0.0000502	0.01%
QC value within limits for Sn 189.927 Recovery = 102.47%								
Ti 334.940†	411011.5	0.510377	mg/L	0.0028270	0.510377	mg/L	0.0028270	0.55%
QC value within limits for Ti 334.940 Recovery = 102.08%								
Tl 190.801†	1281.3	0.511190	mg/L	0.0014946	0.511190	mg/L	0.0014946	0.29%
QC value within limits for Tl 190.801 Recovery = 102.24%								
V 290.880†	80200.1	0.511258	mg/L	0.0029069	0.511258	mg/L	0.0029069	0.57%
QC value within limits for V 290.880 Recovery = 102.25%								
Zn 206.200†	40593.8	0.517228	mg/L	0.0026456	0.517228	mg/L	0.0026456	0.51%
QC value within limits for Zn 206.200 Recovery = 103.45%								

All analyte(s) passed QC.

Sequence No.: 31
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/27/2014 6:19:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1025920.2	99.0	%	0.55				0.55%
Y 371.029	335888.2	97.3	%	0.37				0.38%
Ag 328.068†	4714.4	0.0195921	mg/L	0.00062764	0.0195921	mg/L	0.00062764	3.20%
QC value within limits for Ag 328.068 Recovery = 97.96%								
Al 308.215†	9933.4	0.222013	mg/L	0.0040805	0.222013	mg/L	0.0040805	1.84%
QC value within limits for Al 308.215 Recovery = 111.01%								
As 188.979†	33.7	0.0185437	mg/L	0.00278298	0.0185437	mg/L	0.00278298	15.01%
QC value within limits for As 188.979 Recovery = 92.72%								
Ba 233.527†	8595.1	0.0476895	mg/L	0.00007694	0.0476895	mg/L	0.00007694	0.16%
QC value within limits for Ba 233.527 Recovery = 95.38%								
Be 313.107†	39532.4	0.0112182	mg/L	0.00005846	0.0112182	mg/L	0.00005846	0.52%
QC value within limits for Be 313.107 Recovery = 93.49%								
Ca 315.887†	674506.1	4.92088	mg/L	0.010533	4.92088	mg/L	0.010533	0.21%
QC value within limits for Ca 315.887 Recovery = 98.42%								
Cd 228.802†	796.3	0.0105838	mg/L	0.00022713	0.0105838	mg/L	0.00022713	2.15%
QC value within limits for Cd 228.802 Recovery = 88.20%								
Co 228.616†	1133.9	0.0170240	mg/L	0.00027180	0.0170240	mg/L	0.00027180	1.60%
QC value within limits for Co 228.616 Recovery = 85.12%								
Cr 267.716†	5284.1	0.0473596	mg/L	0.00012545	0.0473596	mg/L	0.00012545	0.26%
QC value within limits for Cr 267.716 Recovery = 94.72%								
Cu 327.393†	7169.0	0.0491690	mg/L	0.00038470	0.0491690	mg/L	0.00038470	0.78%
QC value within limits for Cu 327.393 Recovery = 98.34%								
Fe 273.955†	9353.7	0.313025	mg/L	0.0024155	0.313025	mg/L	0.0024155	0.77%
QC value within limits for Fe 273.955 Recovery = 104.34%								
K 404.721†	460.6	4.58057	mg/L	0.859602	4.58057	mg/L	0.859602	18.77%
QC value within limits for K 404.721 Recovery = 91.61%								
Mg 279.077†	122821.1	4.90069	mg/L	0.003366	4.90069	mg/L	0.003366	0.07%
QC value within limits for Mg 279.077 Recovery = 98.01%								
Mn 257.610†	35701.2	0.0376082	mg/L	0.00005211	0.0376082	mg/L	0.00005211	0.14%
QC value within limits for Mn 257.610 Recovery = 94.02%								
Mo 202.031†	499.0	0.0181142	mg/L	0.00073741	0.0181142	mg/L	0.00073741	4.07%
QC value within limits for Mo 202.031 Recovery = 90.57%								
Na 330.237†	7543.5	5.00130	mg/L	0.059564	5.00130	mg/L	0.059564	1.19%
QC value within limits for Na 330.237 Recovery = 100.03%								
Ni 231.604†	3534.7	0.0493524	mg/L	0.00070690	0.0493524	mg/L	0.00070690	1.43%
QC value within limits for Ni 231.604 Recovery = 98.70%								
Pb 220.353†	224.7	0.0095169	mg/L	0.00193586	0.0095169	mg/L	0.00193586	20.34%
QC value within limits for Pb 220.353 Recovery = 79.31%								
Sb 206.836†	45.6	0.0170294	mg/L	0.00207803	0.0170294	mg/L	0.00207803	12.20%
QC value within limits for Sb 206.836 Recovery = 85.15%								
Se 196.026†	63.3	0.0334317	mg/L	0.00129113	0.0334317	mg/L	0.00129113	3.86%
QC value within limits for Se 196.026 Recovery = 83.58%								
Sn 189.927†	288.6	0.0442998	mg/L	0.00012875	0.0442998	mg/L	0.00012875	0.29%
QC value within limits for Sn 189.927 Recovery = 88.60%								
Ti 334.940†	39372.5	0.0460971	mg/L	0.00031855	0.0460971	mg/L	0.00031855	0.69%
QC value within limits for Ti 334.940 Recovery = 92.19%								
Tl 190.801†	57.3	0.0194833	mg/L	0.00218542	0.0194833	mg/L	0.00218542	11.22%
QC value within limits for Tl 190.801 Recovery = 97.42%								
V 290.880†	7883.1	0.0461848	mg/L	0.00010115	0.0461848	mg/L	0.00010115	0.22%
QC value within limits for V 290.880 Recovery = 92.37%								
Zn 206.200†	4594.3	0.0548520	mg/L	0.00080192	0.0548520	mg/L	0.00080192	1.46%
QC value within limits for Zn 206.200 Recovery = 109.70%								

All analyte(s) passed QC.

Sequence No.: 32
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/27/2014 6:22:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1028245.2	99.2	%	0.29				0.29%
Y 371.029	342323.9	99.1	%	0.02				0.02%
Ag 328.068†	67.4	-0.0004650	mg/L	0.00060266	-0.0004650	mg/L	0.00060266	129.61%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	254.3	-0.0619228	mg/L	0.00362836	-0.0619228	mg/L	0.00362836	5.86%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.2	0.0004549	mg/L	0.00065473	0.0004549	mg/L	0.00065473	143.93%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-9.7	-0.0041286	mg/L	0.00008141	-0.0041286	mg/L	0.00008141	1.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	92.7	-0.0006408	mg/L	0.00002786	-0.0006408	mg/L	0.00002786	4.35%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	1509.4	-0.280279	mg/L	0.0025020	-0.280279	mg/L	0.0025020	0.89%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	15.8	-0.0014544	mg/L	0.00021967	-0.0014544	mg/L	0.00021967	15.10%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-1.0	-0.0032217	mg/L	0.00019327	-0.0032217	mg/L	0.00019327	6.00%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	52.0	-0.0036887	mg/L	0.00003529	-0.0036887	mg/L	0.00003529	0.96%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	32.8	-0.0038013	mg/L	0.00105522	-0.0038013	mg/L	0.00105522	27.76%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	103.9	-0.0463231	mg/L	0.00091274	-0.0463231	mg/L	0.00091274	1.97%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	92.7	1.46818	mg/L	1.227781	1.46818	mg/L	1.227781	83.63%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	18.2	-0.409376	mg/L	0.0031822	-0.409376	mg/L	0.0031822	0.78%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	21.7	-0.0038093	mg/L	0.00001780	-0.0038093	mg/L	0.00001780	0.47%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	8.1	-0.0027376	mg/L	0.00007459	-0.0027376	mg/L	0.00007459	2.72%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	259.8	0.137031	mg/L	0.0444363	0.137031	mg/L	0.0444363	32.43%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	9.9	-0.0041056	mg/L	0.00004295	-0.0041056	mg/L	0.00004295	1.05%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-13.5	-0.0039863	mg/L	0.00043503	-0.0039863	mg/L	0.00043503	10.91%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-6.3	-0.0043138	mg/L	0.00100558	-0.0043138	mg/L	0.00100558	23.31%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	3.8	0.0016136	mg/L	0.00211964	0.0016136	mg/L	0.00211964	131.36%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	2.9	-0.0022953	mg/L	0.00028717	-0.0022953	mg/L	0.00028717	12.51%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	101.6	-0.0029631	mg/L	0.00014839	-0.0029631	mg/L	0.00014839	5.01%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	3.4	-0.0022657	mg/L	0.00177566	-0.0022657	mg/L	0.00177566	78.37%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	78.8	-0.0039855	mg/L	0.00007121	-0.0039855	mg/L	0.00007121	1.79%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-2.0	-0.0042104	mg/L	0.00003493	-0.0042104	mg/L	0.00003493	0.83%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 33
Sample ID: 78787-009
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 103
Date Collected: 5/27/2014 6:26:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-009

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1050206.7	101	%	0.1				0.06%
Y 371.029	415878.4	120	%	0.0				0.00%
Ag 328.068†	-2216.3	-0.0025536	mg/L	0.00055645	-0.0025536	mg/L	0.00055645	21.79%
Al 308.215†	1652549.6	48.4667	mg/L	0.09352	48.4667	mg/L	0.09352	0.19%
As 188.979†	4725.9	2.72834	mg/L	0.000845	2.72834	mg/L	0.000845	0.03%
Ba 233.527†	147694.3	0.881626	mg/L	0.0012377	0.881626	mg/L	0.0012377	0.14%
Be 313.107†	15011.6	0.0028397	mg/L	0.00005957	0.0028397	mg/L	0.00005957	2.10%
Ca 315.887†	8218933.2	63.0714	mg/L	0.95228	63.0714	mg/L	0.95228	1.51%
Cd 228.802†	1430.8	0.0189444	mg/L	0.00052068	0.0189444	mg/L	0.00052068	2.75%
Co 228.616†	8151.1	0.136665	mg/L	0.0006148	0.136665	mg/L	0.0006148	0.45%
Cr 267.716†	20083.8	0.193022	mg/L	0.0009157	0.193022	mg/L	0.0009157	0.47%
Cu 327.393†	23401.5	0.167764	mg/L	0.0005478	0.167764	mg/L	0.0005478	0.33%
Fe 273.955†	2684763.2	104.252	mg/L	0.2372	104.252	mg/L	0.2372	0.23%
K 404.721†	2555.7	22.3036	mg/L	0.25042	22.3036	mg/L	0.25042	1.12%
Mg 279.077†	1605126.0	68.9471	mg/L	0.09766	68.9471	mg/L	0.09766	0.14%
Mn 257.610†	3924930.5	4.57071	mg/L	0.070724	4.57071	mg/L	0.070724	1.55%
Mo 202.031†	286.2	0.0063225	mg/L	0.00049841	0.0063225	mg/L	0.00049841	7.88%
Na 330.237†	27717.6	18.4741	mg/L	0.08400	18.4741	mg/L	0.08400	0.45%
Ni 231.604†	55585.4	0.838397	mg/L	0.0016271	0.838397	mg/L	0.0016271	0.19%
Pb 220.353†	12845.3	0.725362	mg/L	0.0027424	0.725362	mg/L	0.0027424	0.38%
Sb 206.836†	-47.9	-0.0090165	mg/L	0.00141243	-0.0090165	mg/L	0.00141243	15.66%
Se 196.026†	-52.9	0.0073749	mg/L	0.00136232	0.0073749	mg/L	0.00136232	18.47%
Sn 189.927†	-8.6	-0.0029922	mg/L	0.00063499	-0.0029922	mg/L	0.00063499	21.22%
Ti 334.940†	2247890.5	2.80515	mg/L	0.001966	2.80515	mg/L	0.001966	0.07%
Tl 190.801†	-29.2	-0.0032595	mg/L	0.00097667	-0.0032595	mg/L	0.00097667	29.96%
V 290.880†	27082.0	0.161944	mg/L	0.0001502	0.161944	mg/L	0.0001502	0.09%
Zn 206.200†	36747.1	0.463287	mg/L	0.0004286	0.463287	mg/L	0.0004286	0.09%

Sequence No.: 34
Sample ID: 78787-010
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 104
Date Collected: 5/27/2014 6:29:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-010

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1036201.1	100	%	0.8				0.85%
Y 371.029	335561.7	97.2	%	0.79				0.81%
Ag 328.068†	-28.0	-0.0007581	mg/L	0.00005587	-0.0007581	mg/L	0.00005587	7.37%
Al 308.215†	1248.5	-0.0328297	mg/L	0.00192694	-0.0328297	mg/L	0.00192694	5.87%
As 188.979†	2498.8	1.43793	mg/L	0.011912	1.43793	mg/L	0.011912	0.83%
Ba 233.527†	4175.8	0.0210824	mg/L	0.00025669	0.0210824	mg/L	0.00025669	1.22%
Be 313.107†	-39.4	-0.0006806	mg/L	0.00001606	-0.0006806	mg/L	0.00001606	2.36%
Ca 315.887†	3845878.4	29.4353	mg/L	0.10714	29.4353	mg/L	0.10714	0.36%
Cd 228.802†	680.6	0.0086981	mg/L	0.00006628	0.0086981	mg/L	0.00006628	0.76%
Co 228.616†	-14.0	-0.0034306	mg/L	0.00023828	-0.0034306	mg/L	0.00023828	6.95%
Cr 267.716†	259.5	-0.0016329	mg/L	0.00009067	-0.0016329	mg/L	0.00009067	5.55%
Cu 327.393†	261.4	-0.0022113	mg/L	0.00033026	-0.0022113	mg/L	0.00033026	14.93%
Fe 273.955†	475.5	-0.0318887	mg/L	0.00005734	-0.0318887	mg/L	0.00005734	0.18%
K 404.721†	862.9	7.98397	mg/L	0.513536	7.98397	mg/L	0.513536	6.43%
Mg 279.077†	218918.5	9.05569	mg/L	0.100357	9.05569	mg/L	0.100357	1.11%
Mn 257.610†	5625.1	0.0023759	mg/L	0.00017411	0.0023759	mg/L	0.00017411	7.33%
Mo 202.031†	159.5	0.0029969	mg/L	0.00011159	0.0029969	mg/L	0.00011159	3.72%
Na 330.237†	27399.0	18.2614	mg/L	0.17270	18.2614	mg/L	0.17270	0.95%
Ni 231.604†	123.3	-0.0023793	mg/L	0.00003416	-0.0023793	mg/L	0.00003416	1.44%
Pb 220.353†	-14.7	-0.0034872	mg/L	0.00078685	-0.0034872	mg/L	0.00078685	22.56%
Sb 206.836†	1.0	-0.0013737	mg/L	0.00174411	-0.0013737	mg/L	0.00174411	126.96%
Se 196.026†	12.9	0.0069683	mg/L	0.00364425	0.0069683	mg/L	0.00364425	52.30%
Sn 189.927†	-26.5	-0.0063120	mg/L	0.00043274	-0.0063120	mg/L	0.00043274	6.86%
Ti 334.940†	162.2	-0.0028874	mg/L	0.00001154	-0.0028874	mg/L	0.00001154	0.40%
Tl 190.801†	3.7	-0.0022961	mg/L	0.00349020	-0.0022961	mg/L	0.00349020	152.01%
V 290.880†	1388.9	0.0035844	mg/L	0.00027873	0.0035844	mg/L	0.00027873	7.78%
Zn 206.200†	547.6	0.0028527	mg/L	0.00007299	0.0028527	mg/L	0.00007299	2.56%

Sequence No.: 35
Sample ID: 78787-011
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 105
Date Collected: 5/27/2014 6:33:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-011

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1280132.6	124	%	0.1				0.08%
Y 371.029	1066506.2	309	%	0.6				0.21%
Ag 328.068†	-19458.3	-0.0302193	mg/L	0.00026537	-0.0302193	mg/L	0.00026537	0.88%
Al 308.215†	12543795.2	368.348	mg/L	2.6332	368.348	mg/L	2.6332	0.71%
As 188.979†	15389.1	8.91293	mg/L	0.139564	8.91293	mg/L	0.139564	1.57%
Ba 233.527†	1526155.7	9.16097	mg/L	0.007454	9.16097	mg/L	0.007454	0.08%
Be 313.107†	109549.8	0.0257042	mg/L	0.00007227	0.0257042	mg/L	0.00007227	0.28%
Ca 315.887†	46779957.8	360.127	mg/L	2.3901	360.127	mg/L	2.3901	0.66%
Cd 228.802†	5299.6	0.0700742	mg/L	0.00085200	0.0700742	mg/L	0.00085200	1.22%
Co 228.616†	65100.5	1.12200	mg/L	0.012843	1.12200	mg/L	0.012843	1.14%
Cr 267.716†	122609.3	1.20094	mg/L	0.002159	1.20094	mg/L	0.002159	0.18%
Cu 327.393†	206657.9	1.51735	mg/L	0.003088	1.51735	mg/L	0.003088	0.20%
Fe 273.955†	18948497.9	736.093	mg/L	4.7926	736.093	mg/L	4.7926	0.65%
K 404.721†	16630.4	141.364	mg/L	0.7382	141.364	mg/L	0.7382	0.52%
Mg 279.077†	13547880.6	585.051	mg/L	4.6160	585.051	mg/L	4.6160	0.79%
Mn 257.610†	27061274.2	31.5323	mg/L	0.10013	31.5323	mg/L	0.10013	0.32%
Mo 202.031†	882.8	0.0170687	mg/L	0.00149986	0.0170687	mg/L	0.00149986	8.79%
Na 330.237†	20106.0	13.3909	mg/L	0.09024	13.3909	mg/L	0.09024	0.67%
Ni 231.604†	462264.8	7.00343	mg/L	0.009058	7.00343	mg/L	0.009058	0.13%
Pb 220.353†	128171.9	7.23874	mg/L	0.006419	7.23874	mg/L	0.006419	0.09%
Sb 206.836†	-374.7	-0.0695938	mg/L	0.00981570	-0.0695938	mg/L	0.00981570	14.10%
Se 196.026†	-545.9	-0.0360984	mg/L	0.00870332	-0.0360984	mg/L	0.00870332	24.11%
Sn 189.927†	180.8	0.0334680	mg/L	0.00313826	0.0334680	mg/L	0.00313826	9.38%
Ti 334.940†	14694805.7	18.3548	mg/L	0.12344	18.3548	mg/L	0.12344	0.67%
Tl 190.801†	-187.9	-0.0083768	mg/L	0.00726472	-0.0083768	mg/L	0.00726472	86.72%
V 290.880†	197560.4	1.20214	mg/L	0.000382	1.20214	mg/L	0.000382	0.03%
Zn 206.200†	315079.4	4.01107	mg/L	0.000104	4.01107	mg/L	0.000104	0.00%

Sequence No.: 36
Sample ID: 78787-012
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 106
Date Collected: 5/27/2014 6:39:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-012

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1046340.3	101	%	0.6				0.55%
Y 371.029	339782.0	98.4	%	0.52				0.53%
Ag 328.068†	-94.1	-0.0010349	mg/L	0.00062477	-0.0010349	mg/L	0.00062477	60.37%
Al 308.215†	1441.8	-0.0272232	mg/L	0.00749666	-0.0272232	mg/L	0.00749666	27.54%
As 188.979†	1008.5	0.579564	mg/L	0.0021243	0.579564	mg/L	0.0021243	0.37%
Ba 233.527†	4224.9	0.0213773	mg/L	0.00030648	0.0213773	mg/L	0.00030648	1.43%
Be 313.107†	-13.3	-0.0006731	mg/L	0.00000506	-0.0006731	mg/L	0.00000506	0.75%
Ca 315.887†	4062950.8	31.1131	mg/L	0.03045	31.1131	mg/L	0.03045	0.10%
Cd 228.802†	248.8	0.0020150	mg/L	0.00038342	0.0020150	mg/L	0.00038342	19.03%
Co 228.616†	-30.4	-0.0037089	mg/L	0.00002353	-0.0037089	mg/L	0.00002353	0.63%
Cr 267.716†	222.9	-0.0019677	mg/L	0.00002744	-0.0019677	mg/L	0.00002744	1.39%
Cu 327.393†	474.6	-0.0006323	mg/L	0.00009413	-0.0006323	mg/L	0.00009413	14.89%
Fe 273.955†	819.4	-0.0185283	mg/L	0.00897673	-0.0185283	mg/L	0.00897673	48.45%
K 404.721†	945.5	8.68256	mg/L	0.253911	8.68256	mg/L	0.253911	2.92%
Mg 279.077†	229277.8	9.50364	mg/L	0.076793	9.50364	mg/L	0.076793	0.81%
Mn 257.610†	4304.2	0.0008203	mg/L	0.00069710	0.0008203	mg/L	0.00069710	84.98%
Mo 202.031†	262.5	0.0073604	mg/L	0.00004891	0.0073604	mg/L	0.00004891	0.66%
Na 330.237†	26423.5	17.6099	mg/L	0.15424	17.6099	mg/L	0.15424	0.88%
Ni 231.604†	110.6	-0.0025672	mg/L	0.00019121	-0.0025672	mg/L	0.00019121	7.45%
Pb 220.353†	-7.9	-0.0030599	mg/L	0.00045026	-0.0030599	mg/L	0.00045026	14.71%
Sb 206.836†	-5.4	-0.0040097	mg/L	0.00197579	-0.0040097	mg/L	0.00197579	49.28%
Se 196.026†	38.6	0.0206650	mg/L	0.00306443	0.0206650	mg/L	0.00306443	14.83%
Sn 189.927†	-21.9	-0.0055216	mg/L	0.00055033	-0.0055216	mg/L	0.00055033	9.97%
Ti 334.940†	966.4	-0.0018828	mg/L	0.00043780	-0.0018828	mg/L	0.00043780	23.25%
Tl 190.801†	3.5	-0.0023706	mg/L	0.00020525	-0.0023706	mg/L	0.00020525	8.66%
V 290.880†	1150.5	0.0019911	mg/L	0.00011199	0.0019911	mg/L	0.00011199	5.62%
Zn 206.200†	623.9	0.0038316	mg/L	0.00011761	0.0038316	mg/L	0.00011761	3.07%

Sequence No.: 37
Sample ID: 78787-016
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 107
Date Collected: 5/27/2014 6:43:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-016

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1478343.2	143	%	0.6				0.40%
Y 371.029	1360688.4	394	%	1.8				0.46%
Ag 328.068†	-24173.1	-0.0431031	mg/L	0.00131580	-0.0431031	mg/L	0.00131580	3.05%
Al 308.215†	17684617.4	519.337	mg/L	0.5858	519.337	mg/L	0.5858	0.11%
As 188.979†	17438.7	10.1025	mg/L	0.04582	10.1025	mg/L	0.04582	0.45%
Ba 233.527†	1307699.2	7.84041	mg/L	0.020192	7.84041	mg/L	0.020192	0.26%
Be 313.107†	138329.2	0.0352049	mg/L	0.00014845	0.0352049	mg/L	0.00014845	0.42%
Ca 315.887†	Saturated3							
Cd 228.802†	6021.7	0.0809515	mg/L	0.00067665	0.0809515	mg/L	0.00067665	0.84%
Co 228.616†	64104.2	1.10897	mg/L	0.004804	1.10897	mg/L	0.004804	0.43%
Cr 267.716†	176831.0	1.71717	mg/L	0.000159	1.71717	mg/L	0.000159	0.01%
Cu 327.393†	373229.2	2.75504	mg/L	0.005115	2.75504	mg/L	0.005115	0.19%
Fe 273.955†	22114985.5	859.110	mg/L	2.7803	859.110	mg/L	2.7803	0.32%
K 404.721†	Saturated2							
Mg 279.077†	20042502.4	865.602	mg/L	2.6694	865.602	mg/L	2.6694	0.31%
Mn 257.610†	Saturated2							
Mo 202.031†	1063.3	0.0332832	mg/L	0.00004973	0.0332832	mg/L	0.00004973	0.15%
Na 330.237†	36354.5	24.2421	mg/L	0.18108	24.2421	mg/L	0.18108	0.75%
Ni 231.604†	815571.4	12.3594	mg/L	0.01698	12.3594	mg/L	0.01698	0.14%
Pb 220.353†	222795.6	12.5508	mg/L	0.00114	12.5508	mg/L	0.00114	0.01%
Sb 206.836†	-426.7	-0.0807482	mg/L	0.00590296	-0.0807482	mg/L	0.00590296	7.31%
Se 196.026†	-698.3	-0.0411069	mg/L	0.00557080	-0.0411069	mg/L	0.00557080	13.55%
Sn 189.927†	752.7	0.118097	mg/L	0.0000875	0.118097	mg/L	0.0000875	0.07%
Ti 334.940†	12842114.2	16.0403	mg/L	0.13571	16.0403	mg/L	0.13571	0.85%
Tl 190.801†	-135.8	-0.0262067	mg/L	0.00107185	-0.0262067	mg/L	0.00107185	4.09%
V 290.880†	219901.1	1.30565	mg/L	0.002039	1.30565	mg/L	0.002039	0.16%
Zn 206.200†	489473.9	6.24554	mg/L	0.016830	6.24554	mg/L	0.016830	0.27%

Sequence No.: 38
Sample ID: 78787-017
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 108
Date Collected: 5/27/2014 6:48:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-017

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1020534.5	98.5	%	0.11				0.12%
Y 371.029	333369.1	96.5	%	0.25				0.26%
Ag 328.068†	-59.8	-0.0006954	mg/L	0.00015521	-0.0006954	mg/L	0.00015521	22.32%
Al 308.215†	1880.1	-0.0145149	mg/L	0.01965301	-0.0145149	mg/L	0.01965301	135.40%
As 188.979†	780.3	0.447437	mg/L	0.0031986	0.447437	mg/L	0.0031986	0.71%
Ba 233.527†	8317.2	0.0460271	mg/L	0.00023851	0.0460271	mg/L	0.00023851	0.52%
Be 313.107†	-284.0	-0.0007546	mg/L	0.00000770	-0.0007546	mg/L	0.00000770	1.02%
Ca 315.887†	10325180.0	79.5179	mg/L	0.80644	79.5179	mg/L	0.80644	1.01%
Cd 228.802†	195.2	0.0009821	mg/L	0.00025346	0.0009821	mg/L	0.00025346	25.81%
Co 228.616†	-16.3	-0.0034193	mg/L	0.00020148	-0.0034193	mg/L	0.00020148	5.89%
Cr 267.716†	183.9	-0.0022947	mg/L	0.00017344	-0.0022947	mg/L	0.00017344	7.56%
Cu 327.393†	465.4	-0.0008749	mg/L	0.00032153	-0.0008749	mg/L	0.00032153	36.75%
Fe 273.955†	1323.2	0.0010444	mg/L	0.01946947	0.0010444	mg/L	0.01946947	>999.9%
K 404.721†	1622.2	14.4067	mg/L	0.22247	14.4067	mg/L	0.22247	1.54%
Mg 279.077†	338232.9	14.2148	mg/L	0.09427	14.2148	mg/L	0.09427	0.66%
Mn 257.610†	5699.3	0.0022755	mg/L	0.00122128	0.0022755	mg/L	0.00122128	53.67%
Mo 202.031†	495.3	0.0161152	mg/L	0.00044655	0.0161152	mg/L	0.00044655	2.77%
Na 330.237†	72145.2	48.1442	mg/L	0.46556	48.1442	mg/L	0.46556	0.97%
Ni 231.604†	287.8	0.0001307	mg/L	0.00013096	0.0001307	mg/L	0.00013096	100.17%
Pb 220.353†	3.1	-0.0014872	mg/L	0.00129522	-0.0014872	mg/L	0.00129522	87.09%
Sb 206.836†	-0.6	-0.0020522	mg/L	0.00024101	-0.0020522	mg/L	0.00024101	11.74%
Se 196.026†	-2.8	-0.0005711	mg/L	0.00089736	-0.0005711	mg/L	0.00089736	157.12%
Sn 189.927†	-37.9	-0.0069788	mg/L	0.00020776	-0.0069788	mg/L	0.00020776	2.98%
Ti 334.940†	910.1	-0.0019531	mg/L	0.00060849	-0.0019531	mg/L	0.00060849	31.16%
Tl 190.801†	5.3	-0.0015213	mg/L	0.00090237	-0.0015213	mg/L	0.00090237	59.32%
V 290.880†	2387.0	0.0095549	mg/L	0.00089052	0.0095549	mg/L	0.00089052	9.32%
Zn 206.200†	858.6	0.0068453	mg/L	0.00012654	0.0068453	mg/L	0.00012654	1.85%

Sequence No.: 39
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/27/2014 6:51:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	999834.5	96.5	%	0.01				0.01%
Y 371.029	321115.4	93.0	%	0.38				0.41%
Ag 328.068†	22838.5	0.0981587	mg/L	0.00068829	0.0981587	mg/L	0.00068829	0.70%
QC value within limits for Ag 328.068 Recovery = 98.16%								
Al 308.215†	177805.1	5.14457	mg/L	0.026383	5.14457	mg/L	0.026383	0.51%
QC value within limits for Al 308.215 Recovery = 102.89%								
As 188.979†	881.6	0.506136	mg/L	0.0003148	0.506136	mg/L	0.0003148	0.06%
QC value within limits for As 188.979 Recovery = 101.23%								
Ba 233.527†	85476.5	0.510613	mg/L	0.0035918	0.510613	mg/L	0.0035918	0.70%
QC value within limits for Ba 233.527 Recovery = 102.12%								
Be 313.107†	1680512.3	0.505211	mg/L	0.0008147	0.505211	mg/L	0.0008147	0.16%
QC value within limits for Be 313.107 Recovery = 101.04%								
Ca 315.887†	6605425.1	50.7521	mg/L	0.03953	50.7521	mg/L	0.03953	0.08%
QC value within limits for Ca 315.887 Recovery = 101.50%								
Cd 228.802†	32854.0	0.505890	mg/L	0.0013488	0.505890	mg/L	0.0013488	0.27%
QC value within limits for Cd 228.802 Recovery = 101.18%								
Co 228.616†	28355.0	0.504030	mg/L	0.0007243	0.504030	mg/L	0.0007243	0.14%
QC value within limits for Co 228.616 Recovery = 100.81%								
Cr 267.716†	52976.5	0.514211	mg/L	0.0036596	0.514211	mg/L	0.0036596	0.71%
QC value within limits for Cr 267.716 Recovery = 102.84%								
Cu 327.393†	68144.6	0.501876	mg/L	0.0044266	0.501876	mg/L	0.0044266	0.88%
QC value within limits for Cu 327.393 Recovery = 100.38%								
Fe 273.955†	130887.4	5.03457	mg/L	0.032051	5.03457	mg/L	0.032051	0.64%
QC value within limits for Fe 273.955 Recovery = 100.69%								
K 404.721†	5636.9	48.3680	mg/L	0.01644	48.3680	mg/L	0.01644	0.03%
QC value within limits for K 404.721 Recovery = 96.74%								
Mg 279.077†	1217401.5	52.2338	mg/L	0.09908	52.2338	mg/L	0.09908	0.19%
QC value within limits for Mg 279.077 Recovery = 104.47%								
Mn 257.610†	436048.7	0.502870	mg/L	0.0036372	0.502870	mg/L	0.0036372	0.72%
QC value within limits for Mn 257.610 Recovery = 100.57%								
Mo 202.031†	11729.0	0.497132	mg/L	0.0004241	0.497132	mg/L	0.0004241	0.09%
QC value within limits for Mo 202.031 Recovery = 99.43%								
Na 330.237†	74660.1	49.8237	mg/L	0.34218	49.8237	mg/L	0.34218	0.69%
QC value within limits for Na 330.237 Recovery = 99.65%								
Ni 231.604†	33916.3	0.510476	mg/L	0.0027191	0.510476	mg/L	0.0027191	0.53%
QC value within limits for Ni 231.604 Recovery = 102.10%								
Pb 220.353†	9109.6	0.509032	mg/L	0.0015540	0.509032	mg/L	0.0015540	0.31%
QC value within limits for Pb 220.353 Recovery = 101.81%								
Sb 206.836†	1237.5	0.507083	mg/L	0.0009182	0.507083	mg/L	0.0009182	0.18%
QC value within limits for Sb 206.836 Recovery = 101.42%								
Se 196.026†	917.0	0.489374	mg/L	0.0014910	0.489374	mg/L	0.0014910	0.30%
QC value within limits for Se 196.026 Recovery = 97.87%								
Sn 189.927†	3124.2	0.506491	mg/L	0.0020320	0.506491	mg/L	0.0020320	0.40%
QC value within limits for Sn 189.927 Recovery = 101.30%								
Ti 334.940†	405319.6	0.503266	mg/L	0.0031784	0.503266	mg/L	0.0031784	0.63%
QC value within limits for Ti 334.940 Recovery = 100.65%								
Tl 190.801†	1273.1	0.507876	mg/L	0.0013233	0.507876	mg/L	0.0013233	0.26%
QC value within limits for Tl 190.801 Recovery = 101.58%								
V 290.880†	78901.7	0.502835	mg/L	0.0031952	0.502835	mg/L	0.0031952	0.64%
QC value within limits for V 290.880 Recovery = 100.57%								
Zn 206.200†	39845.5	0.507613	mg/L	0.0035854	0.507613	mg/L	0.0035854	0.71%
QC value within limits for Zn 206.200 Recovery = 101.52%								

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/27/2014 6:55:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1018272.5	98.3	%	1.85				1.89%
Y 371.029	334120.1	96.8	%	1.58				1.64%
Ag 328.068†	4643.4	0.0192867	mg/L	0.00027616	0.0192867	mg/L	0.00027616	1.43%
QC value within limits for Ag 328.068 Recovery = 96.43%								
Al 308.215†	9964.8	0.222924	mg/L	0.0067071	0.222924	mg/L	0.0067071	3.01%
QC value within limits for Al 308.215 Recovery = 111.46%								
As 188.979†	38.0	0.0210222	mg/L	0.00188209	0.0210222	mg/L	0.00188209	8.95%
QC value within limits for As 188.979 Recovery = 105.11%								
Ba 233.527†	8693.0	0.0482789	mg/L	0.00040990	0.0482789	mg/L	0.00040990	0.85%
QC value within limits for Ba 233.527 Recovery = 96.56%								
Be 313.107†	39811.6	0.0113021	mg/L	0.00011670	0.0113021	mg/L	0.00011670	1.03%
QC value within limits for Be 313.107 Recovery = 94.18%								
Ca 315.887†	679203.2	4.95718	mg/L	0.047838	4.95718	mg/L	0.047838	0.97%
QC value within limits for Ca 315.887 Recovery = 99.14%								
Cd 228.802†	756.5	0.0099682	mg/L	0.00030852	0.0099682	mg/L	0.00030852	3.10%
QC value within limits for Cd 228.802 Recovery = 83.07%								
Co 228.616†	1135.4	0.0170525	mg/L	0.00022676	0.0170525	mg/L	0.00022676	1.33%
QC value within limits for Co 228.616 Recovery = 85.26%								
Cr 267.716†	5290.3	0.0474238	mg/L	0.00149074	0.0474238	mg/L	0.00149074	3.14%
QC value within limits for Cr 267.716 Recovery = 94.85%								
Cu 327.393†	7291.1	0.0500759	mg/L	0.00146820	0.0500759	mg/L	0.00146820	2.93%
QC value within limits for Cu 327.393 Recovery = 100.15%								
Fe 273.955†	9419.5	0.315583	mg/L	0.0018302	0.315583	mg/L	0.0018302	0.58%
QC value within limits for Fe 273.955 Recovery = 105.19%								
K 404.721†	386.6	3.95453	mg/L	0.235268	3.95453	mg/L	0.235268	5.95%
QC value within limits for K 404.721 Recovery = 79.09%								
Mg 279.077†	123523.5	4.93107	mg/L	0.043462	4.93107	mg/L	0.043462	0.88%
QC value within limits for Mg 279.077 Recovery = 98.62%								
Mn 257.610†	36123.6	0.0380999	mg/L	0.00047878	0.0380999	mg/L	0.00047878	1.26%
QC value within limits for Mn 257.610 Recovery = 95.25%								
Mo 202.031†	512.6	0.0186943	mg/L	0.00012094	0.0186943	mg/L	0.00012094	0.65%
QC value within limits for Mo 202.031 Recovery = 93.47%								
Na 330.237†	7262.8	4.81386	mg/L	0.083392	4.81386	mg/L	0.083392	1.73%
QC value within limits for Na 330.237 Recovery = 96.28%								
Ni 231.604†	3557.1	0.0496926	mg/L	0.00032678	0.0496926	mg/L	0.00032678	0.66%
QC value within limits for Ni 231.604 Recovery = 99.39%								
Pb 220.353†	232.6	0.0099643	mg/L	0.00090676	0.0099643	mg/L	0.00090676	9.10%
QC value within limits for Pb 220.353 Recovery = 83.04%								
Sb 206.836†	46.9	0.0175478	mg/L	0.00230674	0.0175478	mg/L	0.00230674	13.15%
QC value within limits for Sb 206.836 Recovery = 87.74%								
Se 196.026†	73.1	0.0386233	mg/L	0.00076253	0.0386233	mg/L	0.00076253	1.97%
QC value within limits for Se 196.026 Recovery = 96.56%								
Sn 189.927†	291.3	0.0447370	mg/L	0.00040864	0.0447370	mg/L	0.00040864	0.91%
QC value within limits for Sn 189.927 Recovery = 89.47%								
Ti 334.940†	39807.6	0.0466407	mg/L	0.00065153	0.0466407	mg/L	0.00065153	1.40%
QC value within limits for Ti 334.940 Recovery = 93.28%								
Tl 190.801†	56.6	0.0192002	mg/L	0.00045009	0.0192002	mg/L	0.00045009	2.34%
QC value within limits for Tl 190.801 Recovery = 96.00%								
V 290.880†	7973.3	0.0467679	mg/L	0.00029700	0.0467679	mg/L	0.00029700	0.64%
QC value within limits for V 290.880 Recovery = 93.54%								
Zn 206.200†	4646.3	0.0555203	mg/L	0.00064886	0.0555203	mg/L	0.00064886	1.17%
QC value within limits for Zn 206.200 Recovery = 111.04%								

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/27/2014 6:58:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1033562.8	99.7	%	0.84				0.84%
Y 371.029	344849.5	99.9	%	0.91				0.92%
Ag 328.068†	-155.8	-0.0014252	mg/L	0.00019443	-0.0014252	mg/L	0.00019443	13.64%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-24.6	-0.0701046	mg/L	0.00042105	-0.0701046	mg/L	0.00042105	0.60%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	4.2	0.0016328	mg/L	0.00035732	0.0016328	mg/L	0.00035732	21.88%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	49.7	-0.0037718	mg/L	0.00010804	-0.0037718	mg/L	0.00010804	2.86%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	168.6	-0.0006179	mg/L	0.00003633	-0.0006179	mg/L	0.00003633	5.88%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	1799.1	-0.278054	mg/L	0.0017342	-0.278054	mg/L	0.0017342	0.62%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	-3.3	-0.0017493	mg/L	0.00034635	-0.0017493	mg/L	0.00034635	19.80%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	1.7	-0.0031750	mg/L	0.00009088	-0.0031750	mg/L	0.00009088	2.86%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	17.4	-0.0040278	mg/L	0.00008042	-0.0040278	mg/L	0.00008042	2.00%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	94.0	-0.0033470	mg/L	0.00041525	-0.0033470	mg/L	0.00041525	12.41%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	424.1	-0.0338839	mg/L	0.01466001	-0.0338839	mg/L	0.01466001	43.27%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	117.2	1.67552	mg/L	1.003032	1.67552	mg/L	1.003032	59.86%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	143.5	-0.403969	mg/L	0.0038091	-0.403969	mg/L	0.0038091	0.94%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	561.3	-0.0031805	mg/L	0.00073482	-0.0031805	mg/L	0.00073482	23.10%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-2.7	-0.0031978	mg/L	0.00038337	-0.0031978	mg/L	0.00038337	11.99%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	66.5	0.0079297	mg/L	0.02579779	0.0079297	mg/L	0.02579779	325.33%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	28.5	-0.0038249	mg/L	0.00000937	-0.0038249	mg/L	0.00000937	0.25%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	19.5	-0.0021450	mg/L	0.00102292	-0.0021450	mg/L	0.00102292	47.69%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-9.3	-0.0055601	mg/L	0.00196047	-0.0055601	mg/L	0.00196047	35.26%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-4.3	-0.0026619	mg/L	0.00326189	-0.0026619	mg/L	0.00326189	122.54%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	5.3	-0.0019006	mg/L	0.00101426	-0.0019006	mg/L	0.00101426	53.37%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	46.5	-0.0030320	mg/L	0.00006817	-0.0030320	mg/L	0.00006817	2.25%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	1.0	-0.0032284	mg/L	0.00047123	-0.0032284	mg/L	0.00047123	14.60%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-146.7	-0.0054509	mg/L	0.00096927	-0.0054509	mg/L	0.00096927	17.78%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	34.5	-0.0037406	mg/L	0.00042851	-0.0037406	mg/L	0.00042851	11.46%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: 78790-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 109
Date Collected: 5/27/2014 7:02:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78790-003

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1055587.5	102	%	1.4				1.41%
Y 371.029	348549.5	101	%	1.1				1.06%
Ag 328.068†	-209.0	-0.0016548	mg/L	0.00066411	-0.0016548	mg/L	0.00066411	40.13%
Al 308.215†	285.9	-0.0609913	mg/L	0.00561913	-0.0609913	mg/L	0.00561913	9.21%
As 188.979†	3.6	0.0012797	mg/L	0.00006225	0.0012797	mg/L	0.00006225	4.86%
Ba 233.527†	65.1	-0.0036788	mg/L	0.00023105	-0.0036788	mg/L	0.00023105	6.28%
Be 313.107†	179.7	-0.0006147	mg/L	0.00000041	-0.0006147	mg/L	0.00000041	0.07%
Ca 315.887†	8974.9	-0.222584	mg/L	0.0188877	-0.222584	mg/L	0.0188877	8.49%
Cd 228.802†	-5.6	-0.0017849	mg/L	0.00011524	-0.0017849	mg/L	0.00011524	6.46%
Co 228.616†	-0.5	-0.0032129	mg/L	0.00031628	-0.0032129	mg/L	0.00031628	9.84%
Cr 267.716†	80.9	-0.0034076	mg/L	0.00044535	-0.0034076	mg/L	0.00044535	13.07%
Cu 327.393†	211.1	-0.0024777	mg/L	0.00027889	-0.0024777	mg/L	0.00027889	11.26%
Fe 273.955†	300.6	-0.0386820	mg/L	0.00247455	-0.0386820	mg/L	0.00247455	6.40%
K 404.721†	117.4	1.67783	mg/L	0.275960	1.67783	mg/L	0.275960	16.45%
Mg 279.077†	572.5	-0.385415	mg/L	0.0236234	-0.385415	mg/L	0.0236234	6.13%
Mn 257.610†	261.6	-0.0035305	mg/L	0.00009535	-0.0035305	mg/L	0.00009535	2.70%
Mo 202.031†	6.4	-0.0028128	mg/L	0.00045356	-0.0028128	mg/L	0.00045356	16.12%
Na 330.237†	832.4	0.519455	mg/L	0.6187412	0.519455	mg/L	0.6187412	119.11%
Ni 231.604†	23.3	-0.0039031	mg/L	0.00044159	-0.0039031	mg/L	0.00044159	11.31%
Pb 220.353†	12.9	-0.0025091	mg/L	0.00127481	-0.0025091	mg/L	0.00127481	50.81%
Sb 206.836†	-8.6	-0.0052676	mg/L	0.00084551	-0.0052676	mg/L	0.00084551	16.05%
Se 196.026†	-6.2	-0.0037149	mg/L	0.00063304	-0.0037149	mg/L	0.00063304	17.04%
Sn 189.927†	-3.7	-0.0033711	mg/L	0.00041758	-0.0033711	mg/L	0.00041758	12.39%
Ti 334.940†	220.0	-0.0028152	mg/L	0.00024532	-0.0028152	mg/L	0.00024532	8.71%
Tl 190.801†	3.2	-0.0023581	mg/L	0.00159990	-0.0023581	mg/L	0.00159990	67.85%
V 290.880†	-177.9	-0.0056557	mg/L	0.00023123	-0.0056557	mg/L	0.00023123	4.09%
Zn 206.200†	448.1	0.0015763	mg/L	0.00002086	0.0015763	mg/L	0.00002086	1.32%

Sequence No.: 43
Sample ID: 78792-009
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 110
Date Collected: 5/27/2014 7:05:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78792-009

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1049686.1	101	%	1.0				1.02%
Y 371.029	346077.6	100	%	0.8				0.78%
Ag 328.068†	-128.1	-0.0013060	mg/L	0.00023942	-0.0013060	mg/L	0.00023942	18.33%
Al 308.215†	1610.2	-0.0220897	mg/L	0.01385325	-0.0220897	mg/L	0.01385325	62.71%
As 188.979†	1.0	-0.0002008	mg/L	0.00150359	-0.0002008	mg/L	0.00150359	748.84%
Ba 233.527†	100.5	-0.0034652	mg/L	0.00008443	-0.0034652	mg/L	0.00008443	2.44%
Be 313.107†	251.8	-0.0005931	mg/L	0.00002808	-0.0005931	mg/L	0.00002808	4.73%
Ca 315.887†	19935.4	-0.137870	mg/L	0.0253433	-0.137870	mg/L	0.0253433	18.38%
Cd 228.802†	1.4	-0.0016782	mg/L	0.00018802	-0.0016782	mg/L	0.00018802	11.20%
Co 228.616†	-4.0	-0.0032788	mg/L	0.00011983	-0.0032788	mg/L	0.00011983	3.65%
Cr 267.716†	111.8	-0.0031089	mg/L	0.00031799	-0.0031089	mg/L	0.00031799	10.23%
Cu 327.393†	619.6	0.0005554	mg/L	0.00501326	0.0005554	mg/L	0.00501326	902.65%
Fe 273.955†	299.6	-0.0387222	mg/L	0.00136397	-0.0387222	mg/L	0.00136397	3.52%
K 404.721†	161.4	2.04971	mg/L	0.706634	2.04971	mg/L	0.706634	34.47%
Mg 279.077†	5235.9	-0.183780	mg/L	0.3062366	-0.183780	mg/L	0.3062366	166.63%
Mn 257.610†	475.6	-0.0032885	mg/L	0.00004615	-0.0032885	mg/L	0.00004615	1.40%
Mo 202.031†	-4.7	-0.0032894	mg/L	0.00044804	-0.0032894	mg/L	0.00044804	13.62%
Na 330.237†	352.7	0.199045	mg/L	0.0757239	0.199045	mg/L	0.0757239	38.04%
Ni 231.604†	16.1	-0.0040122	mg/L	0.00036962	-0.0040122	mg/L	0.00036962	9.21%
Pb 220.353†	31.6	-0.0014567	mg/L	0.00036111	-0.0014567	mg/L	0.00036111	24.79%
Sb 206.836†	-2.9	-0.0029396	mg/L	0.00064884	-0.0029396	mg/L	0.00064884	22.07%
Se 196.026†	-0.9	-0.0008825	mg/L	0.00229641	-0.0008825	mg/L	0.00229641	260.21%
Sn 189.927†	-3.2	-0.0032836	mg/L	0.00097682	-0.0032836	mg/L	0.00097682	29.75%
Ti 334.940†	521.8	-0.0024382	mg/L	0.00081205	-0.0024382	mg/L	0.00081205	33.31%
Tl 190.801†	2.0	-0.0028412	mg/L	0.00040967	-0.0028412	mg/L	0.00040967	14.42%
V 290.880†	-79.0	-0.0050328	mg/L	0.00023502	-0.0050328	mg/L	0.00023502	4.67%
Zn 206.200†	478.2	0.0019625	mg/L	0.00037050	0.0019625	mg/L	0.00037050	18.88%

Sequence No.: 44
Sample ID: 78818-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 111
Date Collected: 5/27/2014 7:08:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78818-003

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1055668.9	102	%	1.5				1.50%
Y 371.029	348113.7	101	%	1.5				1.47%
Ag 328.068†	-176.1	-0.0015127	mg/L	0.00035249	-0.0015127	mg/L	0.00035249	23.30%
Al 308.215†	748.2	-0.0474126	mg/L	0.00835259	-0.0474126	mg/L	0.00835259	17.62%
As 188.979†	-1.5	-0.0016749	mg/L	0.00045360	-0.0016749	mg/L	0.00045360	27.08%
Ba 233.527†	96.5	-0.0034892	mg/L	0.00013800	-0.0034892	mg/L	0.00013800	3.96%
Be 313.107†	147.6	-0.0006243	mg/L	0.00001189	-0.0006243	mg/L	0.00001189	1.91%
Ca 315.887†	14831.9	-0.177310	mg/L	0.0003509	-0.177310	mg/L	0.0003509	0.20%
Cd 228.802†	-9.0	-0.0018380	mg/L	0.00019633	-0.0018380	mg/L	0.00019633	10.68%
Co 228.616†	-10.8	-0.0033975	mg/L	0.00002293	-0.0033975	mg/L	0.00002293	0.68%
Cr 267.716†	45.0	-0.0037573	mg/L	0.00022200	-0.0037573	mg/L	0.00022200	5.91%
Cu 327.393†	15.4	-0.0039308	mg/L	0.00044068	-0.0039308	mg/L	0.00044068	11.21%
Fe 273.955†	221.4	-0.0417591	mg/L	0.00101710	-0.0417591	mg/L	0.00101710	2.44%
K 404.721†	41.3	1.03344	mg/L	1.047244	1.03344	mg/L	1.047244	101.34%
Mg 279.077†	283.5	-0.397911	mg/L	0.0005657	-0.397911	mg/L	0.0005657	0.14%
Mn 257.610†	290.6	-0.0034963	mg/L	0.00000449	-0.0034963	mg/L	0.00000449	0.13%
Mo 202.031†	5.0	-0.0028736	mg/L	0.00024045	-0.0028736	mg/L	0.00024045	8.37%
Na 330.237†	327.3	0.182116	mg/L	0.1220025	0.182116	mg/L	0.1220025	66.99%
Ni 231.604†	22.2	-0.0039199	mg/L	0.00016027	-0.0039199	mg/L	0.00016027	4.09%
Pb 220.353†	14.8	-0.0023999	mg/L	0.00051257	-0.0023999	mg/L	0.00051257	21.36%
Sb 206.836†	-10.6	-0.0060936	mg/L	0.00061909	-0.0060936	mg/L	0.00061909	10.16%
Se 196.026†	-3.5	-0.0022439	mg/L	0.00117782	-0.0022439	mg/L	0.00117782	52.49%
Sn 189.927†	-2.8	-0.0032204	mg/L	0.00038161	-0.0032204	mg/L	0.00038161	11.85%
Ti 334.940†	83.6	-0.0029856	mg/L	0.00005489	-0.0029856	mg/L	0.00005489	1.84%
Tl 190.801†	-1.9	-0.0044262	mg/L	0.00028881	-0.0044262	mg/L	0.00028881	6.53%
V 290.880†	-162.4	-0.0055533	mg/L	0.00030515	-0.0055533	mg/L	0.00030515	5.49%
Zn 206.200†	492.7	0.0021496	mg/L	0.00001806	0.0021496	mg/L	0.00001806	0.84%

Sequence No.: 45
Sample ID: 78829-014
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 112
Date Collected: 5/27/2014 7:12:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78829-014

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1047879.4	101	%	0.3				0.29%
Y 371.029	345148.3	99.9	%	0.41				0.41%
Ag 328.068†	-131.2	-0.0013185	mg/L	0.00028666	-0.0013185	mg/L	0.00028666	21.74%
Al 308.215†	353.9	-0.0589940	mg/L	0.00124298	-0.0589940	mg/L	0.00124298	2.11%
As 188.979†	0.7	-0.0003727	mg/L	0.00058625	-0.0003727	mg/L	0.00058625	157.30%
Ba 233.527†	80.1	-0.0035890	mg/L	0.00009918	-0.0035890	mg/L	0.00009918	2.76%
Be 313.107†	198.8	-0.0006088	mg/L	0.00000052	-0.0006088	mg/L	0.00000052	0.09%
Ca 315.887†	9140.8	-0.221319	mg/L	0.0043178	-0.221319	mg/L	0.0043178	1.95%
Cd 228.802†	-16.5	-0.0019537	mg/L	0.00005442	-0.0019537	mg/L	0.00005442	2.79%
Co 228.616†	-4.3	-0.0032808	mg/L	0.00021931	-0.0032808	mg/L	0.00021931	6.68%
Cr 267.716†	104.6	-0.0031770	mg/L	0.00006914	-0.0031770	mg/L	0.00006914	2.18%
Cu 327.393†	77.2	-0.0034716	mg/L	0.00122819	-0.0034716	mg/L	0.00122819	35.38%
Fe 273.955†	644.4	-0.0253285	mg/L	0.00806296	-0.0253285	mg/L	0.00806296	31.83%
K 404.721†	42.5	1.04413	mg/L	0.359802	1.04413	mg/L	0.359802	34.46%
Mg 279.077†	202.7	-0.401413	mg/L	0.0046595	-0.401413	mg/L	0.0046595	1.16%
Mn 257.610†	357.8	-0.0034178	mg/L	0.00030337	-0.0034178	mg/L	0.00030337	8.88%
Mo 202.031†	4.6	-0.0028889	mg/L	0.00047105	-0.0028889	mg/L	0.00047105	16.31%
Na 330.237†	177.6	0.0821582	mg/L	0.05627441	0.0821582	mg/L	0.05627441	68.50%
Ni 231.604†	16.9	-0.0039999	mg/L	0.00017100	-0.0039999	mg/L	0.00017100	4.28%
Pb 220.353†	4.5	-0.0029753	mg/L	0.00127525	-0.0029753	mg/L	0.00127525	42.86%
Sb 206.836†	-8.0	-0.0050082	mg/L	0.00162550	-0.0050082	mg/L	0.00162550	32.46%
Se 196.026†	3.9	0.0016441	mg/L	0.00145232	0.0016441	mg/L	0.00145232	88.33%
Sn 189.927†	3.6	-0.0021765	mg/L	0.00062067	-0.0021765	mg/L	0.00062067	28.52%
Ti 334.940†	25.6	-0.0030580	mg/L	0.00015126	-0.0030580	mg/L	0.00015126	4.95%
Tl 190.801†	-0.2	-0.0037433	mg/L	0.00151952	-0.0037433	mg/L	0.00151952	40.59%
V 290.880†	-75.8	-0.0049914	mg/L	0.00022756	-0.0049914	mg/L	0.00022756	4.56%
Zn 206.200†	407.0	0.0010466	mg/L	0.00004862	0.0010466	mg/L	0.00004862	4.65%

Sequence No.: 46
Sample ID: ICSA V-185195
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/27/2014 7:15:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185195

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	888909.4	85.8	%	0.04				0.04%
Y 371.029	289313.3	83.8	%	0.16				0.20%
Ag 328.068†	-3786.3	-0.0011508	mg/L	0.00003839	-0.0011508	mg/L	0.00003839	3.34%
Al 308.215†	16940271.6	497.475	mg/L	0.9900	497.475	mg/L	0.9900	0.20%
QC value within limits for Al 308.215 Recovery = 99.50%								
As 188.979†	19.3	0.0018942	mg/L	0.00405393	0.0018942	mg/L	0.00405393	214.02%
Ba 233.527†	1549.7	-0.0021152	mg/L	0.00010680	-0.0021152	mg/L	0.00010680	5.05%
Be 313.107†	-3151.3	-0.0016207	mg/L	0.00003088	-0.0016207	mg/L	0.00003088	1.91%
Ca 315.887†	63186930.4	487.770	mg/L	1.3636	487.770	mg/L	1.3636	0.28%
QC value within limits for Ca 315.887 Recovery = 97.55%								
Cd 228.802†	307.1	-0.0028930	mg/L	0.00021231	-0.0028930	mg/L	0.00021231	7.34%
Co 228.616†	9.5	-0.0029925	mg/L	0.00003165	-0.0029925	mg/L	0.00003165	1.06%
Cr 267.716†	217.6	-0.0019873	mg/L	0.00025581	-0.0019873	mg/L	0.00025581	12.87%
Cu 327.393†	1525.0	-0.0005378	mg/L	0.00000385	-0.0005378	mg/L	0.00000385	0.72%
Fe 273.955†	5009905.1	194.583	mg/L	0.2286	194.583	mg/L	0.2286	0.12%
QC value within limits for Fe 273.955 Recovery = 97.29%								
K 404.721†	-61.5	0.164316	mg/L	0.6168610	0.164316	mg/L	0.6168610	375.41%
Mg 279.077†	11938490.4	515.659	mg/L	1.4679	515.659	mg/L	1.4679	0.28%
QC value within limits for Mg 279.077 Recovery = 103.13%								
Mn 257.610†	21682.4	0.0023072	mg/L	0.00008687	0.0023072	mg/L	0.00008687	3.77%
Mo 202.031†	370.1	-0.0034168	mg/L	0.00026143	-0.0034168	mg/L	0.00026143	7.65%
Na 330.237†	686.3	0.421890	mg/L	0.1942654	0.421890	mg/L	0.1942654	46.05%
Ni 231.604†	89.1	-0.0028869	mg/L	0.00032864	-0.0028869	mg/L	0.00032864	11.38%
Pb 220.353†	-1971.5	0.0041048	mg/L	0.00089230	0.0041048	mg/L	0.00089230	21.74%
Sb 206.836†	-36.2	-0.0099860	mg/L	0.00320720	-0.0099860	mg/L	0.00320720	32.12%
Se 196.026†	-176.4	-0.0003244	mg/L	0.00190952	-0.0003244	mg/L	0.00190952	588.57%
Sn 189.927†	-53.4	-0.0050629	mg/L	0.00068229	-0.0050629	mg/L	0.00068229	13.48%
Ti 334.940†	6709.9	0.0052925	mg/L	0.00007254	0.0052925	mg/L	0.00007254	1.37%
Tl 190.801†	104.0	-0.0102636	mg/L	0.00251549	-0.0102636	mg/L	0.00251549	24.51%
V 290.880†	9122.8	-0.0039102	mg/L	0.00052647	-0.0039102	mg/L	0.00052647	13.46%
Zn 206.200†	1272.7	-0.0039239	mg/L	0.00024711	-0.0039239	mg/L	0.00024711	6.30%

All analyte(s) passed QC.

Sequence No.: 47
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/27/2014 7:20:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	893475.5	86.2	%	0.26				0.30%
Y 371.029	291038.2	84.3	%	0.23				0.28%
Ag 328.068†	247933.4	1.08291	mg/L	0.000110	1.08291	mg/L	0.000110	0.01%
QC value within limits for Ag 328.068 Recovery = 108.29%								
Al 308.215†	16896029.5	496.176	mg/L	3.3462	496.176	mg/L	3.3462	0.67%
QC value within limits for Al 308.215 Recovery = 99.24%								
As 188.979†	1794.1	1.02435	mg/L	0.007770	1.02435	mg/L	0.007770	0.76%
QC value within limits for As 188.979 Recovery = 102.44%								
Ba 233.527†	88801.4	0.523398	mg/L	0.0005134	0.523398	mg/L	0.0005134	0.10%
QC value within limits for Ba 233.527 Recovery = 104.68%								
Be 313.107†	1711340.7	0.514674	mg/L	0.0000813	0.514674	mg/L	0.0000813	0.02%
QC value within limits for Be 313.107 Recovery = 102.93%								
Ca 315.887†	62968322.8	486.076	mg/L	3.5129	486.076	mg/L	3.5129	0.72%
QC value within limits for Ca 315.887 Recovery = 97.22%								
Cd 228.802†	68816.7	1.05628	mg/L	0.004349	1.05628	mg/L	0.004349	0.41%
QC value within limits for Cd 228.802 Recovery = 105.63%								
Co 228.616†	27499.4	0.487942	mg/L	0.0021903	0.487942	mg/L	0.0021903	0.45%
QC value within limits for Co 228.616 Recovery = 97.59%								
Cr 267.716†	52085.9	0.503043	mg/L	0.0023069	0.503043	mg/L	0.0023069	0.46%
QC value within limits for Cr 267.716 Recovery = 100.61%								
Cu 327.393†	73515.6	0.534185	mg/L	0.0004107	0.534185	mg/L	0.0004107	0.08%
QC value within limits for Cu 327.393 Recovery = 106.84%								
Fe 273.955†	5048246.7	196.072	mg/L	0.0919	196.072	mg/L	0.0919	0.05%
QC value within limits for Fe 273.955 Recovery = 98.04%								
K 404.721†	-205.3	-1.05215	mg/L	0.414862	-1.05215	mg/L	0.414862	39.43%
Mg 279.077†	11889889.2	513.559	mg/L	4.5660	513.559	mg/L	4.5660	0.89%
QC value within limits for Mg 279.077 Recovery = 102.71%								
Mn 257.610†	456185.9	0.509088	mg/L	0.0004476	0.509088	mg/L	0.0004476	0.09%
QC value within limits for Mn 257.610 Recovery = 101.82%								
Mo 202.031†	371.0	-0.0033289	mg/L	0.00006279	-0.0033289	mg/L	0.00006279	1.89%
Na 330.237†	1132.5	0.719833	mg/L	0.0142628	0.719833	mg/L	0.0142628	1.98%
Ni 231.604†	63752.6	0.962212	mg/L	0.0063115	0.962212	mg/L	0.0063115	0.66%
QC value within limits for Ni 231.604 Recovery = 96.22%								
Pb 220.353†	15702.5	0.991300	mg/L	0.0034624	0.991300	mg/L	0.0034624	0.35%
QC value within limits for Pb 220.353 Recovery = 99.13%								
Sb 206.836†	2473.6	1.02112	mg/L	0.006801	1.02112	mg/L	0.006801	0.67%
QC value within limits for Sb 206.836 Recovery = 102.11%								
Se 196.026†	1722.4	1.00718	mg/L	0.004065	1.00718	mg/L	0.004065	0.40%
QC value within limits for Se 196.026 Recovery = 100.72%								
Sn 189.927†	-57.2	-0.0057130	mg/L	0.00026260	-0.0057130	mg/L	0.00026260	4.60%
Ti 334.940†	6565.2	0.0051117	mg/L	0.00010429	0.0051117	mg/L	0.00010429	2.04%
Tl 190.801†	2506.0	0.951479	mg/L	0.0014101	0.951479	mg/L	0.0014101	0.15%
QC value within limits for Tl 190.801 Recovery = 95.15%								
V 290.880†	85129.2	0.490139	mg/L	0.0026926	0.490139	mg/L	0.0026926	0.55%
QC value within limits for V 290.880 Recovery = 98.03%								
Zn 206.200†	76836.4	0.967422	mg/L	0.0025351	0.967422	mg/L	0.0025351	0.26%
QC value within limits for Zn 206.200 Recovery = 96.74%								

All analyte(s) passed QC.

Sequence No.: 48
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/27/2014 7:25:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	993158.7	95.8	%	0.68				0.71%
Y 371.029	322513.1	93.4	%	0.27				0.29%
Ag 328.068†	23019.1	0.0989339	mg/L	0.00010062	0.0989339	mg/L	0.00010062	0.10%
QC value within limits for Ag 328.068 Recovery = 98.93%								
Al 308.215†	178207.0	5.15641	mg/L	0.029549	5.15641	mg/L	0.029549	0.57%
QC value within limits for Al 308.215 Recovery = 103.13%								
As 188.979†	876.5	0.503169	mg/L	0.0023414	0.503169	mg/L	0.0023414	0.47%
QC value within limits for As 188.979 Recovery = 100.63%								
Ba 233.527†	85536.0	0.510971	mg/L	0.0030850	0.510971	mg/L	0.0030850	0.60%
QC value within limits for Ba 233.527 Recovery = 102.19%								
Be 313.107†	1662674.5	0.499839	mg/L	0.0001399	0.499839	mg/L	0.0001399	0.03%
QC value within limits for Be 313.107 Recovery = 99.97%								
Ca 315.887†	6535322.6	50.2103	mg/L	0.01452	50.2103	mg/L	0.01452	0.03%
QC value within limits for Ca 315.887 Recovery = 100.42%								
Cd 228.802†	32793.5	0.504957	mg/L	0.0035960	0.504957	mg/L	0.0035960	0.71%
QC value within limits for Cd 228.802 Recovery = 100.99%								
Co 228.616†	28245.8	0.502067	mg/L	0.0037806	0.502067	mg/L	0.0037806	0.75%
QC value within limits for Co 228.616 Recovery = 100.41%								
Cr 267.716†	53102.1	0.515419	mg/L	0.0024811	0.515419	mg/L	0.0024811	0.48%
QC value within limits for Cr 267.716 Recovery = 103.08%								
Cu 327.393†	68387.8	0.503682	mg/L	0.0020791	0.503682	mg/L	0.0020791	0.41%
QC value within limits for Cu 327.393 Recovery = 100.74%								
Fe 273.955†	130751.6	5.02930	mg/L	0.020957	5.02930	mg/L	0.020957	0.42%
QC value within limits for Fe 273.955 Recovery = 100.59%								
K 404.721†	5570.2	47.8035	mg/L	1.44420	47.8035	mg/L	1.44420	3.02%
QC value within limits for K 404.721 Recovery = 95.61%								
Mg 279.077†	1202790.4	51.6020	mg/L	0.11845	51.6020	mg/L	0.11845	0.23%
QC value within limits for Mg 279.077 Recovery = 103.20%								
Mn 257.610†	436342.3	0.503235	mg/L	0.0029156	0.503235	mg/L	0.0029156	0.58%
QC value within limits for Mn 257.610 Recovery = 100.65%								
Mo 202.031†	11669.1	0.494584	mg/L	0.0040638	0.494584	mg/L	0.0040638	0.82%
QC value within limits for Mo 202.031 Recovery = 98.92%								
Na 330.237†	76008.6	50.7243	mg/L	0.72909	50.7243	mg/L	0.72909	1.44%
QC value within limits for Na 330.237 Recovery = 101.45%								
Ni 231.604†	34066.1	0.512743	mg/L	0.0026531	0.512743	mg/L	0.0026531	0.52%
QC value within limits for Ni 231.604 Recovery = 102.55%								
Pb 220.353†	9085.8	0.507689	mg/L	0.0037908	0.507689	mg/L	0.0037908	0.75%
QC value within limits for Pb 220.353 Recovery = 101.54%								
Sb 206.836†	1240.9	0.508466	mg/L	0.0046585	0.508466	mg/L	0.0046585	0.92%
QC value within limits for Sb 206.836 Recovery = 101.69%								
Se 196.026†	919.1	0.490490	mg/L	0.0033437	0.490490	mg/L	0.0033437	0.68%
QC value within limits for Se 196.026 Recovery = 98.10%								
Sn 189.927†	3122.5	0.506201	mg/L	0.0038550	0.506201	mg/L	0.0038550	0.76%
QC value within limits for Sn 189.927 Recovery = 101.24%								
Ti 334.940†	406707.0	0.505000	mg/L	0.0032163	0.505000	mg/L	0.0032163	0.64%
QC value within limits for Ti 334.940 Recovery = 101.00%								
Tl 190.801†	1268.3	0.505983	mg/L	0.0039915	0.505983	mg/L	0.0039915	0.79%
QC value within limits for Tl 190.801 Recovery = 101.20%								
V 290.880†	79008.1	0.503589	mg/L	0.0029647	0.503589	mg/L	0.0029647	0.59%
QC value within limits for V 290.880 Recovery = 100.72%								
Zn 206.200†	39999.9	0.509599	mg/L	0.0020471	0.509599	mg/L	0.0020471	0.40%
QC value within limits for Zn 206.200 Recovery = 101.92%								

All analyte(s) passed QC.

Sequence No.: 49
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/27/2014 7:28:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1030151.6	99.4	%	0.41				0.41%
Y 371.029	337620.0	97.8	%	0.89				0.91%
Ag 328.068†	4425.8	0.0183491	mg/L	0.00042347	0.0183491	mg/L	0.00042347	2.31%
QC value within limits for Ag 328.068 Recovery = 91.75%								
Al 308.215†	9679.1	0.214548	mg/L	0.0002279	0.214548	mg/L	0.0002279	0.11%
QC value within limits for Al 308.215 Recovery = 107.27%								
As 188.979†	37.6	0.0208064	mg/L	0.00055287	0.0208064	mg/L	0.00055287	2.66%
QC value within limits for As 188.979 Recovery = 104.03%								
Ba 233.527†	8598.7	0.0477114	mg/L	0.00023082	0.0477114	mg/L	0.00023082	0.48%
QC value within limits for Ba 233.527 Recovery = 95.42%								
Be 313.107†	39167.9	0.0111085	mg/L	0.00005182	0.0111085	mg/L	0.00005182	0.47%
QC value within limits for Be 313.107 Recovery = 92.57%								
Ca 315.887†	669146.9	4.87947	mg/L	0.005940	4.87947	mg/L	0.005940	0.12%
QC value within limits for Ca 315.887 Recovery = 97.59%								
Cd 228.802†	762.6	0.0100624	mg/L	0.00003814	0.0100624	mg/L	0.00003814	0.38%
QC value within limits for Cd 228.802 Recovery = 83.85%								
Co 228.616†	1112.5	0.0166427	mg/L	0.00018043	0.0166427	mg/L	0.00018043	1.08%
QC value within limits for Co 228.616 Recovery = 83.21%								
Cr 267.716†	5193.8	0.0464797	mg/L	0.00016892	0.0464797	mg/L	0.00016892	0.36%
QC value within limits for Cr 267.716 Recovery = 92.96%								
Cu 327.393†	7101.5	0.0486677	mg/L	0.00002103	0.0486677	mg/L	0.00002103	0.04%
QC value within limits for Cu 327.393 Recovery = 97.34%								
Fe 273.955†	9193.9	0.306818	mg/L	0.0008742	0.306818	mg/L	0.0008742	0.28%
QC value within limits for Fe 273.955 Recovery = 102.27%								
K 404.721†	526.2	5.13529	mg/L	0.660368	5.13529	mg/L	0.660368	12.86%
QC value within limits for K 404.721 Recovery = 102.71%								
Mg 279.077†	121454.9	4.84162	mg/L	0.003201	4.84162	mg/L	0.003201	0.07%
QC value within limits for Mg 279.077 Recovery = 96.83%								
Mn 257.610†	35416.1	0.0372779	mg/L	0.00001239	0.0372779	mg/L	0.00001239	0.03%
QC value within limits for Mn 257.610 Recovery = 93.19%								
Mo 202.031†	494.1	0.0179047	mg/L	0.00036851	0.0179047	mg/L	0.00036851	2.06%
QC value within limits for Mo 202.031 Recovery = 89.52%								
Na 330.237†	7058.4	4.67734	mg/L	0.001551	4.67734	mg/L	0.001551	0.03%
QC value within limits for Na 330.237 Recovery = 93.55%								
Ni 231.604†	3506.4	0.0489227	mg/L	0.00056388	0.0489227	mg/L	0.00056388	1.15%
QC value within limits for Ni 231.604 Recovery = 97.85%								
Pb 220.353†	219.4	0.0092217	mg/L	0.00051180	0.0092217	mg/L	0.00051180	5.55%
QC value within limits for Pb 220.353 Recovery = 76.85%								
Sb 206.836†	47.3	0.0177262	mg/L	0.00092655	0.0177262	mg/L	0.00092655	5.23%
QC value within limits for Sb 206.836 Recovery = 88.63%								
Se 196.026†	69.6	0.0367973	mg/L	0.00101061	0.0367973	mg/L	0.00101061	2.75%
QC value within limits for Se 196.026 Recovery = 91.99%								
Sn 189.927†	291.5	0.0447575	mg/L	0.00086265	0.0447575	mg/L	0.00086265	1.93%
QC value within limits for Sn 189.927 Recovery = 89.52%								
Ti 334.940†	39146.2	0.0458144	mg/L	0.00008016	0.0458144	mg/L	0.00008016	0.17%
QC value within limits for Ti 334.940 Recovery = 91.63%								
Tl 190.801†	52.8	0.0176808	mg/L	0.00124000	0.0176808	mg/L	0.00124000	7.01%
QC value within limits for Tl 190.801 Recovery = 88.40%								
V 290.880†	7771.5	0.0454657	mg/L	0.00043194	0.0454657	mg/L	0.00043194	0.95%
QC value within limits for V 290.880 Recovery = 90.93%								
Zn 206.200†	4554.8	0.0543448	mg/L	0.00023817	0.0543448	mg/L	0.00023817	0.44%
QC value within limits for Zn 206.200 Recovery = 108.69%								

All analyte(s) passed QC.

Sequence No.: 50
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/27/2014 7:32:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1027947.9	99.2	%	0.05				0.05%
Y 371.029	342674.7	99.2	%	0.49				0.49%
Ag 328.068†	0.6	-0.0007520	mg/L	0.00077976	-0.0007520	mg/L	0.00077976	103.69%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	19.5	-0.0688115	mg/L	0.00466277	-0.0688115	mg/L	0.00466277	6.78%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-2.5	-0.0022486	mg/L	0.00001557	-0.0022486	mg/L	0.00001557	0.69%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	38.9	-0.0038364	mg/L	0.00011503	-0.0038364	mg/L	0.00011503	3.00%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	104.1	-0.0006373	mg/L	0.00001331	-0.0006373	mg/L	0.00001331	2.09%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	1821.6	-0.277874	mg/L	0.0013640	-0.277874	mg/L	0.0013640	0.49%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	1.3	-0.0016780	mg/L	0.00001813	-0.0016780	mg/L	0.00001813	1.08%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-7.0	-0.0033307	mg/L	0.00005893	-0.0033307	mg/L	0.00005893	1.77%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	32.2	-0.0038828	mg/L	0.00007523	-0.0038828	mg/L	0.00007523	1.94%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	4.6	-0.0040106	mg/L	0.00093361	-0.0040106	mg/L	0.00093361	23.28%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	311.5	-0.0382609	mg/L	0.00728764	-0.0382609	mg/L	0.00728764	19.05%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	93.6	1.47648	mg/L	0.267412	1.47648	mg/L	0.267412	18.11%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	158.7	-0.403312	mg/L	0.0018150	-0.403312	mg/L	0.0018150	0.45%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	169.4	-0.0036374	mg/L	0.00011830	-0.0036374	mg/L	0.00011830	3.25%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	0.8	-0.0030490	mg/L	0.00012241	-0.0030490	mg/L	0.00012241	4.01%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	73.8	0.0128059	mg/L	0.00931453	0.0128059	mg/L	0.00931453	72.74%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	-2.4	-0.0042921	mg/L	0.00023269	-0.0042921	mg/L	0.00023269	5.42%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	25.3	-0.0018194	mg/L	0.00012148	-0.0018194	mg/L	0.00012148	6.68%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-6.8	-0.0045444	mg/L	0.00246146	-0.0045444	mg/L	0.00246146	54.16%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.3	-0.0005516	mg/L	0.00157385	-0.0005516	mg/L	0.00157385	285.31%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	2.7	-0.0023230	mg/L	0.00003439	-0.0023230	mg/L	0.00003439	1.48%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	12.6	-0.0030743	mg/L	0.00008970	-0.0030743	mg/L	0.00008970	2.92%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	6.4	-0.0010791	mg/L	0.00084549	-0.0010791	mg/L	0.00084549	78.35%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-15.1	-0.0045963	mg/L	0.00001433	-0.0045963	mg/L	0.00001433	0.31%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	7.6	-0.0040860	mg/L	0.00002311	-0.0040860	mg/L	0.00002311	0.57%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

File SW16381B2 Batch 16381 SW846

Analyst [illegible] 5/28/14

Method Loaded
Method Name: PE 2 4300DV RADIAL
IEC File: IECrad101413.iec
Method Description: 200.7/6010B/6010C

Method Last Saved: 5/9/2014 3:17:36 PM
MSF File:

[illegible] 5/28/14

Sequence No.: 1
Sample ID: CALBLK V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/27/2014 7:38:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-183928

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	21753.2	42.26	0.19%	100.000	%
Sc 361.383	63810.4	111.45	0.17%	100	%
Al 308.215†	674.3	41.64	6.18%	[0.00]	mg/L
Ca 315.887†	3499.1	159.84	4.57%	[0.00]	mg/L
Fe 273.955†	-337.0	24.41	7.24%	[0.00]	mg/L
Mg 279.077†	-1588.0	59.71	3.76%	[0.00]	mg/L
Mn 257.610†	477.0	26.11	5.47%	[0.00]	mg/L
K 766.490†	1351.0	27.63	2.05%	[0.00]	mg/L
Na 589.592†	28980.1	644.11	2.22%	[0.00]	mg/L
Ti 334.940†	-228.6	26.97	11.80%	[0.00]	mg/L

16381
32819

K reported

78787.003,011,016 not reported

Sequence No.: 2
Sample ID: CALST2 V-185756
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 5/27/2014 7:41:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-185756

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	21610.7	54.01	0.25%	99.3450	%
Sc 361.383	64057.9	127.16	0.20%	100	%
Al 308.215†	134.1	10.57	7.88%	[0.1]	mg/L
Ca 315.887†	8975.1	19.28	0.21%	[1]	mg/L
Fe 273.955†	148.3	8.69	5.86%	[0.1]	mg/L
Mg 279.077†	1619.8	17.96	1.11%	[1]	mg/L
Mn 257.610†	474.4	3.33	0.70%	[0.01]	mg/L
K 766.490†	1252.3	95.70	7.64%	[1]	mg/L
Na 589.592†	6333.7	237.77	3.75%	[1]	mg/L
Ti 334.940†	482.9	6.26	1.30%	[0.01]	mg/L

Sequence No.: 3
Sample ID: CALST3 V-185198
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 5/27/2014 7:44:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-185198

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	21188.8	129.63	0.61%	97.4054	%
Sc 361.383	63238.3	132.37	0.21%	99.1	%
Al 308.215†	7423.3	0.31	0.00%	[5]	mg/L
Ca 315.887†	454988.1	2084.16	0.46%	[50]	mg/L
Fe 273.955†	7933.6	22.93	0.29%	[5]	mg/L
Mg 279.077†	77448.5	24.76	0.03%	[50]	mg/L
Mn 257.610†	23963.8	2.21	0.01%	[0.5]	mg/L
K 766.490†	64346.9	0.34	0.00%	[50]	mg/L
Na 589.592†	330690.6	2148.04	0.65%	[50]	mg/L
Ti 334.940†	26188.4	6.07	0.02%	[0.5]	mg/L

Sequence No.: 4
Sample ID: CALST4 V-185758
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/27/2014 7:47:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-185758

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	21109.7	173.29	0.82%	97.0418	%
Sc 361.383	63108.3	673.89	1.07%	98.9	%
Al 308.215†	14384.6	56.83	0.40%	[10]	mg/L
Ca 315.887†	884199.7	4218.94	0.48%	[100]	mg/L
Fe 273.955†	15606.5	3.70	0.02%	[10]	mg/L
Mg 279.077†	151190.0	583.40	0.39%	[100]	mg/L
Mn 257.610†	47064.4	107.57	0.23%	[1.0]	mg/L
K 766.490†	127644.3	1029.48	0.81%	[100]	mg/L
Na 589.592†	647585.2	2198.56	0.34%	[100]	mg/L
Ti 334.940†	51686.2	124.90	0.24%	[1.0]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Al 308.215	3	Lin, Calc Int	37.6	1443	0.00000	0.999860	
Ca 315.887	3	Lin, Calc Int	2406.1	8864	0.00000	0.999887	
Fe 273.955	3	Lin, Calc Int	20.2	1563	0.00000	0.999962	
Mg 279.077	3	Lin, Calc Int	386.3	1515	0.00000	0.999922	
Mn 257.610	3	Lin, Calc Int	80.2	47140	0.00000	0.999955	
K 766.490	3	Lin, Calc Int	84.6	1278	0.00000	0.999991	
Na 589.592	3	Lin, Calc Int	1190.9	6489	0.00000	0.999939	
Ti 334.940	3	Lin, Calc Int	47.4	51770	0.00000	0.999975	

Sequence No.: 5
Sample ID: ICS3 V-185198
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 5/27/2014 7:50:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-185198

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21375.8	98.2651	%	0.91333				0.93%
Sc 361.383	63779.4	100.0	%	1.41				1.41%
Al 308.215†	7432.4	5.12401	mg/L	0.088108	5.12401	mg/L	0.088108	1.72%
QC value within limits for Al 308.215 Recovery = 102.48%								
Ca 315.887†	450389.0	50.5368	mg/L	0.56086	50.5368	mg/L	0.56086	1.11%
QC value within limits for Ca 315.887 Recovery = 101.07%								
Fe 273.955†	7971.4	5.08580	mg/L	0.010510	5.08580	mg/L	0.010510	0.21%
QC value within limits for Fe 273.955 Recovery = 101.72%								
Mg 279.077†	77629.0	50.9969	mg/L	0.08055	50.9969	mg/L	0.08055	0.16%
QC value within limits for Mg 279.077 Recovery = 101.99%								
Mn 257.610†	23998.7	0.510706	mg/L	0.0002042	0.510706	mg/L	0.0002042	0.04%
QC value within limits for Mn 257.610 Recovery = 102.14%								
K 766.490†	63229.2	49.4276	mg/L	0.19277	49.4276	mg/L	0.19277	0.39%
QC value within limits for K 766.490 Recovery = 98.86%								
Na 589.592†	328479.3	50.4371	mg/L	0.44532	50.4371	mg/L	0.44532	0.88%
QC value within limits for Na 589.592 Recovery = 100.87%								
Ti 334.940†	26237.8	0.505930	mg/L	0.0030943	0.505930	mg/L	0.0030943	0.61%
QC value within limits for Ti 334.940 Recovery = 101.19%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/27/2014 7:53:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-185530

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20979.8	96.4448	%	0.29604				0.31%
Sc 361.383	62432.2	97.8	%	0.30				0.30%
Al 308.215†	7486.7	5.16164	mg/L	0.027042	5.16164	mg/L	0.027042	0.52%
QC value within limits for Al 308.215 Recovery = 103.23%								
Ca 315.887†	455334.5	51.0947	mg/L	0.31775	51.0947	mg/L	0.31775	0.62%
QC value within limits for Ca 315.887 Recovery = 102.19%								
Fe 273.955†	7947.2	5.07030	mg/L	0.009841	5.07030	mg/L	0.009841	0.19%
QC value within limits for Fe 273.955 Recovery = 101.41%								
Mg 279.077†	79322.4	52.1149	mg/L	0.02384	52.1149	mg/L	0.02384	0.05%
QC value within limits for Mg 279.077 Recovery = 104.23%								
Mn 257.610†	24095.3	0.512745	mg/L	0.0004229	0.512745	mg/L	0.0004229	0.08%
QC value within limits for Mn 257.610 Recovery = 102.55%								
K 766.490†	65626.6	51.3042	mg/L	0.47212	51.3042	mg/L	0.47212	0.92%
QC value within limits for K 766.490 Recovery = 102.61%								
Na 589.592†	334324.5	51.3378	mg/L	0.13625	51.3378	mg/L	0.13625	0.27%
QC value within limits for Na 589.592 Recovery = 102.68%								
Ti 334.940†	26366.3	0.508412	mg/L	0.0005223	0.508412	mg/L	0.0005223	0.10%
QC value within limits for Ti 334.940 Recovery = 101.68%								

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: LLICV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/27/2014 7:55:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV V-185635 [aq]

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21739.8	99.9383	%	0.25552				0.26%
Sc 361.383	64985.9	102	%	0.5				0.52%
Al 308.215†	372.9	0.232289	mg/L	0.0032457	0.232289	mg/L	0.0032457	1.40%
QC value within limits for Al 308.215 Recovery = 116.14%								
Ca 315.887†	45235.3	4.83154	mg/L	0.003899	4.83154	mg/L	0.003899	0.08%
QC value within limits for Ca 315.887 Recovery = 96.63%								
Fe 273.955†	540.5	0.332794	mg/L	0.0010945	0.332794	mg/L	0.0010945	0.33%
QC value within limits for Fe 273.955 Recovery = 110.93%								
Mg 279.077†	7916.2	4.97138	mg/L	0.041368	4.97138	mg/L	0.041368	0.83%
QC value within limits for Mg 279.077 Recovery = 99.43%								
Mn 257.610†	1933.9	0.0395390	mg/L	0.00014940	0.0395390	mg/L	0.00014940	0.38%
QC value within limits for Mn 257.610 Recovery = 98.85%								
K 766.490†	6243.6	4.82113	mg/L	0.063386	4.82113	mg/L	0.063386	1.31%
QC value within limits for K 766.490 Recovery = 96.42%								
Na 589.592†	33867.5	5.03565	mg/L	0.006686	5.03565	mg/L	0.006686	0.13%
QC value within limits for Na 589.592 Recovery = 100.71%								
Ti 334.940†	2465.8	0.0467170	mg/L	0.00006637	0.0467170	mg/L	0.00006637	0.14%
QC value within limits for Ti 334.940 Recovery = 93.43%								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/27/2014 7:59:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-183928

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	21838.6	100.392	%	0.8241				0.82%
Sc 361.383	63770.2	99.9	%	0.34				0.34%
Al 308.215†	-14.9	-0.0364208	mg/L	0.01046243	-0.0364208	mg/L	0.01046243	28.73%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	-115.8	-0.284496	mg/L	0.0024438	-0.284496	mg/L	0.0024438	0.86%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-25.9	-0.0294831	mg/L	0.00112308	-0.0294831	mg/L	0.00112308	3.81%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-29.8	-0.274752	mg/L	0.0103629	-0.274752	mg/L	0.0103629	3.77%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-25.0	-0.0022517	mg/L	0.00011530	-0.0022517	mg/L	0.00011530	5.12%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	19.5	-0.0509279	mg/L	0.03435152	-0.0509279	mg/L	0.03435152	67.45%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	-555.7	-0.269172	mg/L	0.0241956	-0.269172	mg/L	0.0241956	8.99%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-8.5	-0.0010801	mg/L	0.00001306	-0.0010801	mg/L	0.00001306	1.21%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSA V-185195
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/27/2014 8:02:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185195

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20080.5	92.3105	%	0.59430				0.64%
Sc 361.383	61087.2	95.7	%	0.42				0.44%
Al 308.215†	724934.2	502.302	mg/L	7.6383	502.302	mg/L	7.6383	1.52%
QC value within limits for Al 308.215 Recovery = 100.46%								
Ca 315.887†	4325414.1	487.677	mg/L	7.3279	487.677	mg/L	7.3279	1.50%
QC value within limits for Ca 315.887 Recovery = 97.54%								
Fe 273.955†	304175.3	194.545	mg/L	0.2926	194.545	mg/L	0.2926	0.15%
QC value within limits for Fe 273.955 Recovery = 97.27%								
Mg 279.077†	769973.7	508.094	mg/L	7.8500	508.094	mg/L	7.8500	1.54%
QC value within limits for Mg 279.077 Recovery = 101.62%								
Mn 257.610†	-4053.0	0.0391322	mg/L	0.00010535	0.0391322	mg/L	0.00010535	0.27%
QC value within limits for Mn 257.610 Recovery = 3.91%								
K 766.490†	460.9	0.294623	mg/L	0.0883593	0.294623	mg/L	0.0883593	29.99%
QC value within limits for K 766.490 Recovery = 29.46%								
Na 589.592†	6825.7	0.868346	mg/L	0.0316719	0.868346	mg/L	0.0316719	3.65%
QC value within limits for Na 589.592 Recovery = 86.83%								
Ti 334.940†	-1330.3	-0.0266147	mg/L	0.00036829	-0.0266147	mg/L	0.00036829	1.38%
QC value within limits for Ti 334.940 Recovery = -2.66%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/27/2014 8:06:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20086.3	92.3371	%	0.03323				0.04%
Sc 361.383	61186.6	95.9	%	0.19				0.20%
Al 308.215†	728079.9	504.482	mg/L	1.7363	504.482	mg/L	1.7363	0.34%
QC value within limits for Al 308.215 Recovery = 100.90%								
Ca 315.887†	4342241.3	489.575	mg/L	1.9356	489.575	mg/L	1.9356	0.40%
QC value within limits for Ca 315.887 Recovery = 97.92%								
Fe 273.955†	308177.3	197.105	mg/L	0.1851	197.105	mg/L	0.1851	0.09%
QC value within limits for Fe 273.955 Recovery = 98.55%								
Mg 279.077†	773948.0	510.718	mg/L	2.5302	510.718	mg/L	2.5302	0.50%
QC value within limits for Mg 279.077 Recovery = 102.14%								
Mn 257.610†	19342.5	0.537096	mg/L	0.0008779	0.537096	mg/L	0.0008779	0.16%
QC value within limits for Mn 257.610 Recovery = 107.42%								
K 766.490†	410.7	0.255305	mg/L	0.0570049	0.255305	mg/L	0.0570049	22.33%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	6032.8	0.746159	mg/L	0.0467520	0.746159	mg/L	0.0467520	6.27%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-1321.7	-0.0264470	mg/L	0.00170450	-0.0264470	mg/L	0.00170450	6.44%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: MB 32819 (1)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 90
Date Collected: 5/27/2014 8:09:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 32819 (1)

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	22267.7	102.365	%	0.6417				0.63%
Sc 361.383	65811.6	103	%	0.8				0.78%
Al 308.215†	0.8	-0.0255545	mg/L	0.01381353	-0.0255545	mg/L	0.01381353	54.06%
Ca 315.887†	15.4	-0.269700	mg/L	0.0081742	-0.269700	mg/L	0.0081742	3.03%
Fe 273.955†	8.0	-0.0078203	mg/L	0.00288322	-0.0078203	mg/L	0.00288322	36.87%
Mg 279.077†	52.8	-0.220213	mg/L	0.0084424	-0.220213	mg/L	0.0084424	3.83%
Mn 257.610†	-22.9	-0.0021929	mg/L	0.00001281	-0.0021929	mg/L	0.00001281	0.58%
K 766.490†	50.2	-0.0269006	mg/L	0.04804384	-0.0269006	mg/L	0.04804384	178.60%
Na 589.592†	-1232.7	-0.373488	mg/L	0.0106936	-0.373488	mg/L	0.0106936	2.86%
Ti 334.940†	-26.9	-0.0014348	mg/L	0.00046637	-0.0014348	mg/L	0.00046637	32.50%

Sequence No.: 12
Sample ID: LCSW 32819
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 91
Date Collected: 5/27/2014 8:13:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSW 32819

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21448.8	98.6007	%	0.13853				0.14%
Sc 361.383	64087.9	100	%	0.6				0.57%
Al 308.215†	7154.6	4.93154	mg/L	0.021494	4.93154	mg/L	0.021494	0.44%
Ca 315.887†	436387.6	48.9573	mg/L	0.32706	48.9573	mg/L	0.32706	0.67%
Fe 273.955†	7739.7	4.93756	mg/L	0.016561	4.93756	mg/L	0.016561	0.34%
Mg 279.077†	75790.2	49.7828	mg/L	0.24555	49.7828	mg/L	0.24555	0.49%
Mn 257.610†	23465.0	0.499287	mg/L	0.0008054	0.499287	mg/L	0.0008054	0.16%
K 766.490†	60914.5	47.6157	mg/L	0.13819	47.6157	mg/L	0.13819	0.29%
Na 589.592†	315052.1	48.3679	mg/L	0.13952	48.3679	mg/L	0.13952	0.29%
Ti 334.940†	25467.3	0.491046	mg/L	0.0018252	0.491046	mg/L	0.0018252	0.37%

Sequence No.: 13
Sample ID: LCSW MR 32819
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 92
Date Collected: 5/27/2014 8:15:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSW MR 32819

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	22149.0	101.820	%	1.2652				1.24%
Sc 361.383	65983.9	103	%	1.5				1.45%
Al 308.215†	6987.6	4.81584	mg/L	0.038813	4.81584	mg/L	0.038813	0.81%
Ca 315.887†	422591.2	47.4009	mg/L	1.96489	47.4009	mg/L	1.96489	4.15%
Fe 273.955†	7624.5	4.86389	mg/L	0.045843	4.86389	mg/L	0.045843	0.94%
Mg 279.077†	74763.1	49.1047	mg/L	0.07427	49.1047	mg/L	0.07427	0.15%
Mn 257.610†	23008.1	0.489547	mg/L	0.0027988	0.489547	mg/L	0.0027988	0.57%
K 766.490†	59281.5	46.3374	mg/L	1.45676	46.3374	mg/L	1.45676	3.14%
Na 589.592†	304822.7	46.7914	mg/L	1.88876	46.7914	mg/L	1.88876	4.04%
Ti 334.940†	25076.3	0.483493	mg/L	0.0040827	0.483493	mg/L	0.0040827	0.84%

Sequence No.: 14
Sample ID: 78793-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 93
Date Collected: 5/27/2014 8:18:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	19324.5	88.8351	%	1.15704				1.30%
Sc 361.383	58392.3	91.5	%	1.88				2.06%
Al 308.215†	1108.9	0.742304	mg/L	0.0114290	0.742304	mg/L	0.0114290	1.54%
Ca 315.887†	1238741.5	139.471	mg/L	1.1541	139.471	mg/L	1.1541	0.83%
Fe 273.955†	2727.8	1.73183	mg/L	0.024947	1.73183	mg/L	0.024947	1.44%
Mg 279.077†	573581.6	378.433	mg/L	2.7916	378.433	mg/L	2.7916	0.74%
Mn 257.610†	4347.1	0.0916438	mg/L	0.00134021	0.0916438	mg/L	0.00134021	1.46%
K 766.490†	378940.7	296.556	mg/L	14.1896	296.556	mg/L	14.1896	4.78%
Na 589.592†	Saturated2							
Ti 334.940†	1202.8	0.0223195	mg/L	0.00051470	0.0223195	mg/L	0.00051470	2.31%

Sequence No.: 15
Sample ID: 78793-001 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 94
Date Collected: 5/27/2014 8:22:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 MR

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18414.1	84.6501	%	1.38145				1.63%
Sc 361.383	55339.3	86.7	%	0.95				1.09%
Al 308.215†	1176.6	0.789187	mg/L	0.0165131	0.789187	mg/L	0.0165131	2.09%
Ca 315.887†	1349338.9	151.947	mg/L	0.0416	151.947	mg/L	0.0416	0.03%
Fe 273.955†	2707.7	1.71900	mg/L	0.014296	1.71900	mg/L	0.014296	0.83%
Mg 279.077†	617504.9	407.432	mg/L	0.0245	407.432	mg/L	0.0245	0.01%
Mn 257.610†	4835.4	0.101993	mg/L	0.0010545	0.101993	mg/L	0.0010545	1.03%
K 766.490†	457784.5	358.273	mg/L	8.3604	358.273	mg/L	8.3604	2.33%
Na 589.592†	Saturated2							
Ti 334.940†	1030.8	0.0189957	mg/L	0.00007591	0.0189957	mg/L	0.00007591	0.40%

Sequence No.: 16
Sample ID: 78793-001 MS 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 95
Date Collected: 5/27/2014 8:27:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 MS 1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18578.8	85.4070	%	2.09566				2.45%
Sc 361.383	54897.2	86.0	%	2.28				2.65%
Al 308.215†	7951.4	5.48366	mg/L	0.126189	5.48366	mg/L	0.126189	2.30%
Ca 315.887†	1639099.0	184.635	mg/L	0.3337	184.635	mg/L	0.3337	0.18%
Fe 273.955†	8013.2	5.11248	mg/L	0.069887	5.11248	mg/L	0.069887	1.37%
Mg 279.077†	660388.6	435.744	mg/L	1.3678	435.744	mg/L	1.3678	0.31%
Mn 257.610†	22354.9	0.475853	mg/L	0.0077642	0.475853	mg/L	0.0077642	1.63%
K 766.490†	530661.1	415.318	mg/L	7.3289	415.318	mg/L	7.3289	1.76%
Na 589.592†	Saturated2							
Ti 334.940†	24087.6	0.464395	mg/L	0.0074857	0.464395	mg/L	0.0074857	1.61%

Sequence No.: 17
Sample ID: 78793-001 MS 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 96
Date Collected: 5/27/2014 8:30:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 MS 2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18765.8	86.2670	%	2.10733				2.44%
Sc 361.383	55462.4	86.9	%	1.81				2.08%
Al 308.215†	7629.2	5.26039	mg/L	0.148376	5.26039	mg/L	0.148376	2.82%
Ca 315.887†	1624794.1	183.021	mg/L	3.6774	183.021	mg/L	3.6774	2.01%
Fe 273.955†	7747.6	4.94264	mg/L	0.086152	4.94264	mg/L	0.086152	1.74%
Mg 279.077†	656094.3	432.909	mg/L	8.6314	432.909	mg/L	8.6314	1.99%
Mn 257.610†	21794.5	0.463854	mg/L	0.0106462	0.463854	mg/L	0.0106462	2.30%
K 766.490†	497196.5	389.123	mg/L	12.8788	389.123	mg/L	12.8788	3.31%
Na 589.592†	Saturated2							
Ti 334.940†	23303.8	0.449254	mg/L	0.0112641	0.449254	mg/L	0.0112641	2.51%

Sequence No.: 18
Sample ID: 78793-001 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 97
Date Collected: 5/27/2014 8:34:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 PS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18951.3	87.1198	%	1.95306				2.24%
Sc 361.383	56036.0	87.8	%	1.61				1.84%
Al 308.215†	7822.2	5.39412	mg/L	0.109328	5.39412	mg/L	0.109328	2.03%
Ca 315.887†	1563060.9	176.057	mg/L	1.7447	176.057	mg/L	1.7447	0.99%
Fe 273.955†	8357.1	5.33249	mg/L	0.139098	5.33249	mg/L	0.139098	2.61%
Mg 279.077†	632026.8	417.019	mg/L	4.2347	417.019	mg/L	4.2347	1.02%
Mn 257.610†	22652.4	0.482307	mg/L	0.0123637	0.482307	mg/L	0.0123637	2.56%
K 766.490†	433771.6	339.476	mg/L	1.4780	339.476	mg/L	1.4780	0.44%
Na 589.592†	Saturated2							
Ti 334.940†	24791.1	0.477984	mg/L	0.0109886	0.477984	mg/L	0.0109886	2.30%

Sequence No.: 19
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/27/2014 8:38:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20806.2	95.6465	%	0.59386				0.62%
Sc 361.383	62205.8	97.5	%	0.39				0.40%
Al 308.215†	7483.2	5.15924	mg/L	0.013819	5.15924	mg/L	0.013819	0.27%
QC value within limits for Al 308.215 Recovery = 103.18%								
Ca 315.887†	448276.1	50.2984	mg/L	0.26142	50.2984	mg/L	0.26142	0.52%
QC value within limits for Ca 315.887 Recovery = 100.60%								
Fe 273.955†	7966.8	5.08282	mg/L	0.028645	5.08282	mg/L	0.028645	0.56%
QC value within limits for Fe 273.955 Recovery = 101.66%								
Mg 279.077†	79811.7	52.4379	mg/L	0.23278	52.4379	mg/L	0.23278	0.44%
QC value within limits for Mg 279.077 Recovery = 104.88%								
Mn 257.610†	24213.9	0.515268	mg/L	0.0011352	0.515268	mg/L	0.0011352	0.22%
QC value within limits for Mn 257.610 Recovery = 103.05%								
K 766.490†	65240.6	51.0021	mg/L	0.04156	51.0021	mg/L	0.04156	0.08%
QC value within limits for K 766.490 Recovery = 102.00%								
Na 589.592†	371250.3	57.0283	mg/L	1.32697	57.0283	mg/L	1.32697	2.33%
QC value greater than the upper limit for Na 589.592 Recovery = 114.06%								
Ti 334.940†	26314.3	0.507408	mg/L	0.0002313	0.507408	mg/L	0.0002313	0.05%
QC value within limits for Ti 334.940 Recovery = 101.48%								

QC Failed. Continue with analysis.

Sequence No.: 20
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/27/2014 8:41:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21272.1	97.7882	%	0.72394				0.74%
Sc 361.383	63514.4	99.5	%	0.73				0.73%
Al 308.215†	383.6	0.239715	mg/L	0.0189212	0.239715	mg/L	0.0189212	7.89%
QC value within limits for Al 308.215 Recovery = 119.86%								
Ca 315.887†	45220.8	4.82991	mg/L	0.041920	4.82991	mg/L	0.041920	0.87%
QC value within limits for Ca 315.887 Recovery = 96.60%								
Fe 273.955†	536.2	0.330055	mg/L	0.0069723	0.330055	mg/L	0.0069723	2.11%
QC value within limits for Fe 273.955 Recovery = 110.02%								
Mg 279.077†	7938.8	4.98626	mg/L	0.063280	4.98626	mg/L	0.063280	1.27%
QC value within limits for Mg 279.077 Recovery = 99.73%								
Mn 257.610†	1955.9	0.0400043	mg/L	0.00044283	0.0400043	mg/L	0.00044283	1.11%
QC value within limits for Mn 257.610 Recovery = 100.01%								
K 766.490†	6734.1	5.20505	mg/L	0.062572	5.20505	mg/L	0.062572	1.20%
QC value within limits for K 766.490 Recovery = 104.10%								
Na 589.592†	75589.1	11.4652	mg/L	0.90569	11.4652	mg/L	0.90569	7.90%
QC value greater than the upper limit for Na 589.592 Recovery = 229.30%								
Ti 334.940†	2484.5	0.0470775	mg/L	0.00111297	0.0470775	mg/L	0.00111297	2.36%
QC value within limits for Ti 334.940 Recovery = 94.15%								

QC Failed. Continue with analysis.

Sequence No.: 21
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/27/2014 8:44:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21258.5	97.7258	%	0.35889				0.37%
Sc 361.383	62528.2	98.0	%	0.73				0.74%
Al 308.215†	-24.8	-0.0432978	mg/L	0.01869977	-0.0432978	mg/L	0.01869977	43.19%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	-59.3	-0.278128	mg/L	0.0093477	-0.278128	mg/L	0.0093477	3.36%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-23.5	-0.0279970	mg/L	0.00334918	-0.0279970	mg/L	0.00334918	11.96%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	0.2	-0.254912	mg/L	0.0000620	-0.254912	mg/L	0.0000620	0.02%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-14.8	-0.0020337	mg/L	0.00020154	-0.0020337	mg/L	0.00020154	9.91%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	222.5	0.108008	mg/L	0.0568193	0.108008	mg/L	0.0568193	52.61%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	32238.6	4.78462	mg/L	0.077894	4.78462	mg/L	0.077894	1.63%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-33.4	-0.0015607	mg/L	0.00019514	-0.0015607	mg/L	0.00019514	12.50%
QC value within limits for Ti 334.940 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 22
Sample ID: 78793-001 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 98
Date Collected: 5/27/2014 8:47:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 SD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20378.4	93.6801	%	0.73738				0.79%
Sc 361.383	60403.6	94.7	%	0.64				0.67%
Al 308.215†	194.6	0.108749	mg/L	0.0125977	0.108749	mg/L	0.0125977	11.58%
Ca 315.887†	327485.3	36.6721	mg/L	0.10953	36.6721	mg/L	0.10953	0.30%
Fe 273.955†	629.4	0.389659	mg/L	0.0060742	0.389659	mg/L	0.0060742	1.56%
Mg 279.077†	173421.6	114.241	mg/L	0.3397	114.241	mg/L	0.3397	0.30%
Mn 257.610†	1036.4	0.0205369	mg/L	0.00037983	0.0205369	mg/L	0.00037983	1.85%
K 766.490†	55655.4	43.4991	mg/L	0.73646	43.4991	mg/L	0.73646	1.69%
Na 589.592†	Saturated2							
Ti 334.940†	282.7	0.0045449	mg/L	0.00034612	0.0045449	mg/L	0.00034612	7.62%

Sequence No.: 23
Sample ID: 78787-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 99
Date Collected: 5/27/2014 8:51:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-003

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	49149.7	225.942	%	0.2882				0.13%
Sc 361.383	79682.1	125	%	0.1				0.08%
Al 308.215†	372312.6	257.960	mg/L	0.3886	257.960	mg/L	0.3886	0.15%
Ca 315.887†	760995.0	85.5761	mg/L	0.32975	85.5761	mg/L	0.32975	0.39%
Fe 273.955†	833978.0	533.420	mg/L	2.4667	533.420	mg/L	2.4667	0.46%
Mg 279.077†	379206.5	250.103	mg/L	0.1487	250.103	mg/L	0.1487	0.06%
Mn 257.610†	680964.1	14.7915	mg/L	0.05410	14.7915	mg/L	0.05410	0.37%
K 766.490†	91840.5	71.8236	mg/L	0.01117	71.8236	mg/L	0.01117	0.02%
Na 589.592†	253177.0	38.8325	mg/L	0.54150	38.8325	mg/L	0.54150	1.39%
Ti 334.940†	581545.5	11.2330	mg/L	0.03250	11.2330	mg/L	0.03250	0.29%

Sequence No.: 24
Sample ID: 78787-004
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 100
Date Collected: 5/27/2014 8:54:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-004

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21294.5	97.8913	%	3.48898				3.56%
Sc 361.383	63637.8	99.7	%	4.12				4.13%
Al 308.215†	52.0	0.0099383	mg/L	0.03067286	0.0099383	mg/L	0.03067286	308.63%
Ca 315.887†	150126.6	16.6643	mg/L	0.70433	16.6643	mg/L	0.70433	4.23%
Fe 273.955†	102.5	0.0526297	mg/L	0.00114451	0.0526297	mg/L	0.00114451	2.17%
Mg 279.077†	10252.9	6.51408	mg/L	0.237359	6.51408	mg/L	0.237359	3.64%
Mn 257.610†	966.9	0.0188441	mg/L	0.00143198	0.0188441	mg/L	0.00143198	7.60%
K 766.490†	6622.3	5.11752	mg/L	0.235196	5.11752	mg/L	0.235196	4.60%
Na 589.592†	227102.5	34.8143	mg/L	1.51472	34.8143	mg/L	1.51472	4.35%
Ti 334.940†	-9.5	-0.0011000	mg/L	0.00025751	-0.0011000	mg/L	0.00025751	23.41%

Sequence No.: 25
Sample ID: 78787-005
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 101
Date Collected: 5/27/2014 8:57:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-005

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21807.7	100.251	%	0.5762				0.57%
Sc 361.383	64538.8	101	%	0.6				0.59%
Al 308.215†	-2.5	-0.0278377	mg/L	0.01332299	-0.0278377	mg/L	0.01332299	47.86%
Ca 315.887†	299.9	-0.237603	mg/L	0.0026293	-0.237603	mg/L	0.0026293	1.11%
Fe 273.955†	13.7	-0.0041407	mg/L	0.00227008	-0.0041407	mg/L	0.00227008	54.82%
Mg 279.077†	27.8	-0.236688	mg/L	0.0088916	-0.236688	mg/L	0.0088916	3.76%
Mn 257.610†	-18.3	-0.0020922	mg/L	0.00030418	-0.0020922	mg/L	0.00030418	14.54%
K 766.490†	121.3	0.0287314	mg/L	0.00655430	0.0287314	mg/L	0.00655430	22.81%
Na 589.592†	17556.2	2.52198	mg/L	0.039711	2.52198	mg/L	0.039711	1.57%
Ti 334.940†	-13.7	-0.0011800	mg/L	0.00017073	-0.0011800	mg/L	0.00017073	14.47%

Sequence No.: 26
Sample ID: 78787-006
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 102
Date Collected: 5/27/2014 9:01:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-006

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21681.7	99.6714	%	0.23395				0.23%
Sc 361.383	64368.5	101	%	0.2				0.16%
Al 308.215†	-10.7	-0.0335165	mg/L	0.01271732	-0.0335165	mg/L	0.01271732	37.94%
Ca 315.887†	606.9	-0.202968	mg/L	0.0012365	-0.202968	mg/L	0.0012365	0.61%
Fe 273.955†	44.6	0.0155980	mg/L	0.00269633	0.0155980	mg/L	0.00269633	17.29%
Mg 279.077†	20.6	-0.241470	mg/L	0.0076144	-0.241470	mg/L	0.0076144	3.15%
Mn 257.610†	-4.4	-0.0017850	mg/L	0.00018443	-0.0017850	mg/L	0.00018443	10.33%
K 766.490†	88.3	0.0029697	mg/L	0.05710008	0.0029697	mg/L	0.05710008	>999.9%
Na 589.592†	16996.2	2.43568	mg/L	0.165051	2.43568	mg/L	0.165051	6.78%
Ti 334.940†	-25.2	-0.0014020	mg/L	0.00011860	-0.0014020	mg/L	0.00011860	8.46%

Sequence No.: 27
Sample ID: ICSA V-185195
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/27/2014 9:04:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185195

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	19708.0	90.5980	%	0.25910				0.29%
Sc 361.383	60125.6	94.2	%	0.57				0.60%
Al 308.215†	732169.8	507.316	mg/L	6.6482	507.316	mg/L	6.6482	1.31%
QC value within limits for Al 308.215 Recovery = 101.46%								
Ca 315.887†	4347679.6	490.189	mg/L	6.6563	490.189	mg/L	6.6563	1.36%
QC value within limits for Ca 315.887 Recovery = 98.04%								
Fe 273.955†	304391.3	194.683	mg/L	0.1016	194.683	mg/L	0.1016	0.05%
QC value within limits for Fe 273.955 Recovery = 97.34%								
Mg 279.077†	772541.6	509.789	mg/L	7.2829	509.789	mg/L	7.2829	1.43%
QC value within limits for Mg 279.077 Recovery = 101.96%								
Mn 257.610†	-4014.1	0.0400473	mg/L	0.00004268	0.0400473	mg/L	0.00004268	0.11%
QC value within limits for Mn 257.610 Recovery = 4.00%								
K 766.490†	551.1	0.365193	mg/L	0.0098414	0.365193	mg/L	0.0098414	2.69%
QC value within limits for K 766.490 Recovery = 36.52%								
Na 589.592†	37654.2	5.61920	mg/L	0.121509	5.61920	mg/L	0.121509	2.16%
QC value within limits for Na 589.592 Recovery = 561.92%								
Ti 334.940†	-1315.5	-0.0263276	mg/L	0.00039499	-0.0263276	mg/L	0.00039499	1.50%
QC value within limits for Ti 334.940 Recovery = -2.63%								

All analyte(s) passed QC.

Sequence No.: 28
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/27/2014 9:08:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	19767.7	90.8727	%	0.92966				1.02%
Sc 361.383	60064.6	94.1	%	0.90				0.96%
Al 308.215†	727270.1	503.921	mg/L	4.6010	503.921	mg/L	4.6010	0.91%
QC value within limits for Al 308.215 Recovery = 100.78%								
Ca 315.887†	4315607.7	486.571	mg/L	4.9015	486.571	mg/L	4.9015	1.01%
QC value within limits for Ca 315.887 Recovery = 97.31%								
Fe 273.955†	307007.6	196.357	mg/L	0.3173	196.357	mg/L	0.3173	0.16%
QC value within limits for Fe 273.955 Recovery = 98.18%								
Mg 279.077†	766248.2	505.634	mg/L	5.5580	505.634	mg/L	5.5580	1.10%
QC value within limits for Mg 279.077 Recovery = 101.13%								
Mn 257.610†	19362.5	0.537033	mg/L	0.0001630	0.537033	mg/L	0.0001630	0.03%
QC value within limits for Mn 257.610 Recovery = 107.41%								
K 766.490†	420.7	0.263133	mg/L	0.1115463	0.263133	mg/L	0.1115463	42.39%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	31376.2	4.65173	mg/L	0.057148	4.65173	mg/L	0.057148	1.23%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-1356.9	-0.0271280	mg/L	0.00020117	-0.0271280	mg/L	0.00020117	0.74%

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/27/2014 9:12:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20753.4	95.4041	%	0.21195				0.22%
Sc 361.383	61756.4	96.8	%	0.04				0.04%
Al 308.215†	7427.5	5.12062	mg/L	0.036503	5.12062	mg/L	0.036503	0.71%
QC value within limits for Al 308.215 Recovery = 102.41%								
Ca 315.887†	454167.0	50.9630	mg/L	0.94072	50.9630	mg/L	0.94072	1.85%
QC value within limits for Ca 315.887 Recovery = 101.93%								
Fe 273.955†	7895.3	5.03710	mg/L	0.024859	5.03710	mg/L	0.024859	0.49%
QC value within limits for Fe 273.955 Recovery = 100.74%								
Mg 279.077†	78816.0	51.7805	mg/L	0.01185	51.7805	mg/L	0.01185	0.02%
QC value within limits for Mg 279.077 Recovery = 103.56%								
Mn 257.610†	24017.8	0.511080	mg/L	0.0006207	0.511080	mg/L	0.0006207	0.12%
QC value within limits for Mn 257.610 Recovery = 102.22%								
K 766.490†	65724.2	51.3805	mg/L	0.46008	51.3805	mg/L	0.46008	0.90%
QC value within limits for K 766.490 Recovery = 102.76%								
Na 589.592†	341519.3	52.4466	mg/L	0.87344	52.4466	mg/L	0.87344	1.67%
QC value within limits for Na 589.592 Recovery = 104.89%								
Ti 334.940†	26274.7	0.506642	mg/L	0.0004076	0.506642	mg/L	0.0004076	0.08%
QC value within limits for Ti 334.940 Recovery = 101.33%								

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/27/2014 9:14:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21525.4	98.9527	%	2.09278				2.11%
Sc 361.383	64013.0	100	%	2.1				2.05%
Al 308.215†	368.9	0.229526	mg/L	0.0132350	0.229526	mg/L	0.0132350	5.77%
QC value within limits for Al 308.215 Recovery = 114.76%								
Ca 315.887†	45081.8	4.81423	mg/L	0.013643	4.81423	mg/L	0.013643	0.28%
QC value within limits for Ca 315.887 Recovery = 96.28%								
Fe 273.955†	547.2	0.337080	mg/L	0.0010589	0.337080	mg/L	0.0010589	0.31%
QC value within limits for Fe 273.955 Recovery = 112.36%								
Mg 279.077†	7797.3	4.89285	mg/L	0.048685	4.89285	mg/L	0.048685	1.00%
QC value within limits for Mg 279.077 Recovery = 97.86%								
Mn 257.610†	1919.0	0.0392263	mg/L	0.00000531	0.0392263	mg/L	0.00000531	0.01%
QC value within limits for Mn 257.610 Recovery = 98.07%								
K 766.490†	6256.9	4.83150	mg/L	0.020710	4.83150	mg/L	0.020710	0.43%
QC value within limits for K 766.490 Recovery = 96.63%								
Na 589.592†	45024.4	6.75499	mg/L	0.101087	6.75499	mg/L	0.101087	1.50%
QC value greater than the upper limit for Na 589.592 Recovery = 135.10%								
Ti 334.940†	2443.5	0.0462868	mg/L	0.00002192	0.0462868	mg/L	0.00002192	0.05%
QC value within limits for Ti 334.940 Recovery = 92.57%								

QC Failed. Continue with analysis.

Sequence No.: 31
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/27/2014 9:18:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21512.4	98.8932	%	0.13568				0.14%
Sc 361.383	62975.9	98.7	%	0.35				0.35%
Al 308.215†	-30.1	-0.0469510	mg/L	0.01528319	-0.0469510	mg/L	0.01528319	32.55%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	-166.4	-0.290209	mg/L	0.0000090	-0.290209	mg/L	0.0000090	0.00%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-9.3	-0.0189075	mg/L	0.00425909	-0.0189075	mg/L	0.00425909	22.53%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	14.4	-0.245572	mg/L	0.0192585	-0.245572	mg/L	0.0192585	7.84%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-25.5	-0.0022559	mg/L	0.00014581	-0.0022559	mg/L	0.00014581	6.46%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	13.0	-0.0560242	mg/L	0.03345420	-0.0560242	mg/L	0.03345420	59.71%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	11127.8	1.53133	mg/L	0.008713	1.53133	mg/L	0.008713	0.57%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-38.0	-0.0016504	mg/L	0.00024057	-0.0016504	mg/L	0.00024057	14.58%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 32
Sample ID: 78787-009
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 103
Date Collected: 5/27/2014 9:21:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-009

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	26423.3	121.469	%	0.2728				0.22%
Sc 361.383	66171.9	104	%	0.1				0.08%
Al 308.215†	68351.8	47.3369	mg/L	0.08129	47.3369	mg/L	0.08129	0.17%
Ca 315.887†	560170.4	62.9212	mg/L	0.09365	62.9212	mg/L	0.09365	0.15%
Fe 273.955†	164080.9	104.937	mg/L	0.0829	104.937	mg/L	0.0829	0.08%
Mg 279.077†	104752.1	68.9040	mg/L	0.06176	68.9040	mg/L	0.06176	0.09%
Mn 257.610†	215663.4	4.64164	mg/L	0.003813	4.64164	mg/L	0.003813	0.08%
K 766.490†	23913.2	18.6523	mg/L	0.01951	18.6523	mg/L	0.01951	0.10%
Na 589.592†	140361.7	21.4470	mg/L	0.02616	21.4470	mg/L	0.02616	0.12%
Ti 334.940†	144971.3	2.79956	mg/L	0.000429	2.79956	mg/L	0.000429	0.02%

Sequence No.: 33
Sample ID: 78787-010
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 104
Date Collected: 5/27/2014 9:23:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-010

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	22049.5	101.362	%	0.8096				0.80%
Sc 361.383	66110.5	104	%	0.6				0.62%
Al 308.215†	-10.3	-0.0332363	mg/L	0.00662086	-0.0332363	mg/L	0.00662086	19.92%
Ca 315.887†	256667.9	28.6832	mg/L	0.70055	28.6832	mg/L	0.70055	2.44%
Fe 273.955†	17.8	-0.0015257	mg/L	0.00073877	-0.0015257	mg/L	0.00073877	48.42%
Mg 279.077†	13971.9	8.96943	mg/L	0.099465	8.96943	mg/L	0.099465	1.11%
Mn 257.610†	257.5	0.0037587	mg/L	0.00004165	0.0037587	mg/L	0.00004165	1.11%
K 766.490†	8667.3	6.71832	mg/L	0.216392	6.71832	mg/L	0.216392	3.22%
Na 589.592†	130532.2	19.9322	mg/L	0.56631	19.9322	mg/L	0.56631	2.84%
Ti 334.940†	-57.9	-0.0020354	mg/L	0.00068225	-0.0020354	mg/L	0.00068225	33.52%

Sequence No.: 34
Sample ID: 78787-011
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 105
Date Collected: 5/27/2014 9:27:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-011

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	69527.3	319.619	%	2.6699				0.84%
Sc 361.383	86229.9	135	%	0.7				0.50%
Al 308.215†	560332.9	388.245	mg/L	1.4211	388.245	mg/L	1.4211	0.37%
Ca 315.887†	3307703.5	372.869	mg/L	1.2003	372.869	mg/L	1.2003	0.32%
Fe 273.955†	1316009.5	841.740	mg/L	3.0385	841.740	mg/L	3.0385	0.36%
Mg 279.077†	909283.1	600.068	mg/L	2.5627	600.068	mg/L	2.5627	0.43%
Mn 257.610†	1605655.5	34.6083	mg/L	0.10107	34.6083	mg/L	0.10107	0.29%
K 766.490†	148799.8	116.409	mg/L	0.5241	116.409	mg/L	0.5241	0.45%
Na 589.592†	155111.4	23.7200	mg/L	0.10268	23.7200	mg/L	0.10268	0.43%
Ti 334.940†	977856.9	18.8888	mg/L	0.06615	18.8888	mg/L	0.06615	0.35%

Sequence No.: 35
Sample ID: 78787-012
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 106
Date Collected: 5/27/2014 9:30:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-012

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	21405.9	98.4035	%	0.09324				0.09%
Sc 361.383	63980.5	100	%	0.2				0.16%
Al 308.215†	35.9	-0.0012213	mg/L	0.00706925	-0.0012213	mg/L	0.00706925	578.85%
Ca 315.887†	276347.8	30.9033	mg/L	0.19216	30.9033	mg/L	0.19216	0.62%
Fe 273.955†	31.7	0.0073171	mg/L	0.01426699	0.0073171	mg/L	0.01426699	194.98%
Mg 279.077†	15075.1	9.69777	mg/L	0.085477	9.69777	mg/L	0.085477	0.88%
Mn 257.610†	197.1	0.0024842	mg/L	0.00047271	0.0024842	mg/L	0.00047271	19.03%
K 766.490†	9853.8	7.64705	mg/L	0.081446	7.64705	mg/L	0.081446	1.07%
Na 589.592†	127951.4	19.5345	mg/L	0.02378	19.5345	mg/L	0.02378	0.12%
Ti 334.940†	-46.4	-0.0018131	mg/L	0.00008608	-0.0018131	mg/L	0.00008608	4.75%

Sequence No.: 36
Sample ID: 78787-016
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 107
Date Collected: 5/27/2014 9:33:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-016

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	89464.6	411.271	%	1.0140				0.25%
Sc 361.383	101319.8	159	%	0.0				0.02%
Al 308.215†	809179.0	560.678	mg/L	0.6751	560.678	mg/L	0.6751	0.12%
Ca 315.887†	4486422.1	505.840	mg/L	0.6517	505.840	mg/L	0.6517	0.13%
Fe 273.955†	1619307.2	1035.74	mg/L	0.573	1035.74	mg/L	0.573	0.06%
Mg 279.077†	1372417.8	905.837	mg/L	2.2099	905.837	mg/L	2.2099	0.24%
Mn 257.610†	1896735.0	40.9095	mg/L	0.04734	40.9095	mg/L	0.04734	0.12%
K 766.490†	211514.3	165.500	mg/L	0.3869	165.500	mg/L	0.3869	0.23%
Na 589.592†	214405.4	32.8576	mg/L	0.41916	32.8576	mg/L	0.41916	1.28%
Ti 334.940†	854395.1	16.5038	mg/L	0.01901	16.5038	mg/L	0.01901	0.12%

Sequence No.: 37
Sample ID: 78787-017
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 108
Date Collected: 5/27/2014 9:37:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-017

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21366.3	98.2212	%	0.69528				0.71%
Sc 361.383	64138.7	101	%	1.2				1.21%
Al 308.215†	26.6	-0.0076786	mg/L	0.00346583	-0.0076786	mg/L	0.00346583	45.14%
Ca 315.887†	697411.6	78.4033	mg/L	0.52846	78.4033	mg/L	0.52846	0.67%
Fe 273.955†	48.1	0.0178019	mg/L	0.00361320	0.0178019	mg/L	0.00361320	20.30%
Mg 279.077†	21721.8	14.0860	mg/L	0.26680	14.0860	mg/L	0.26680	1.89%
Mn 257.610†	249.5	0.0036024	mg/L	0.00040823	0.0036024	mg/L	0.00040823	11.33%
K 766.490†	18160.6	14.1494	mg/L	0.00359	14.1494	mg/L	0.00359	0.03%
Na 589.592†	317585.4	48.7583	mg/L	0.36510	48.7583	mg/L	0.36510	0.75%
Ti 334.940†	-198.3	-0.0047467	mg/L	0.00019133	-0.0047467	mg/L	0.00019133	4.03%

Sequence No.: 38
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/27/2014 9:40:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20870.0	95.9399	%	1.44228				1.50%
Sc 361.383	62130.1	97.4	%	1.05				1.08%
Al 308.215†	7501.6	5.17198	mg/L	0.036363	5.17198	mg/L	0.036363	0.70%
QC value within limits for Al 308.215 Recovery = 103.44%								
Ca 315.887†	450389.0	50.5368	mg/L	0.07472	50.5368	mg/L	0.07472	0.15%
QC value within limits for Ca 315.887 Recovery = 101.07%								
Fe 273.955†	8021.5	5.11781	mg/L	0.045250	5.11781	mg/L	0.045250	0.88%
QC value within limits for Fe 273.955 Recovery = 102.36%								
Mg 279.077†	79784.8	52.4201	mg/L	0.43731	52.4201	mg/L	0.43731	0.83%
QC value within limits for Mg 279.077 Recovery = 104.84%								
Mn 257.610†	24305.9	0.517243	mg/L	0.0041906	0.517243	mg/L	0.0041906	0.81%
QC value within limits for Mn 257.610 Recovery = 103.45%								
K 766.490†	64829.6	50.6803	mg/L	0.05657	50.6803	mg/L	0.05657	0.11%
QC value within limits for K 766.490 Recovery = 101.36%								
Na 589.592†	334236.9	51.3243	mg/L	0.09121	51.3243	mg/L	0.09121	0.18%
QC value within limits for Na 589.592 Recovery = 102.65%								
Ti 334.940†	26552.5	0.512010	mg/L	0.0045092	0.512010	mg/L	0.0045092	0.88%
QC value within limits for Ti 334.940 Recovery = 102.40%								

All analyte(s) passed QC.

Sequence No.: 39
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/27/2014 9:43:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21352.3	98.1569	%	1.56096				1.59%
Sc 361.383	63907.7	100	%	1.3				1.27%
Al 308.215†	375.7	0.234255	mg/L	0.0004570	0.234255	mg/L	0.0004570	0.20%
QC value within limits for Al 308.215 Recovery = 117.13%								
Ca 315.887†	45178.6	4.82514	mg/L	0.009383	4.82514	mg/L	0.009383	0.19%
QC value within limits for Ca 315.887 Recovery = 96.50%								
Fe 273.955†	555.9	0.342614	mg/L	0.0104733	0.342614	mg/L	0.0104733	3.06%
QC value within limits for Fe 273.955 Recovery = 114.20%								
Mg 279.077†	7853.7	4.93006	mg/L	0.066844	4.93006	mg/L	0.066844	1.36%
QC value within limits for Mg 279.077 Recovery = 98.60%								
Mn 257.610†	1941.3	0.0397037	mg/L	0.00090210	0.0397037	mg/L	0.00090210	2.27%
QC value within limits for Mn 257.610 Recovery = 99.26%								
K 766.490†	6294.2	4.86074	mg/L	0.020749	4.86074	mg/L	0.020749	0.43%
QC value within limits for K 766.490 Recovery = 97.21%								
Na 589.592†	38335.8	5.72425	mg/L	0.037286	5.72425	mg/L	0.037286	0.65%
QC value within limits for Na 589.592 Recovery = 114.48%								
Ti 334.940†	2477.5	0.0469436	mg/L	0.00066491	0.0469436	mg/L	0.00066491	1.42%
QC value within limits for Ti 334.940 Recovery = 93.89%								

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/27/2014 9:46:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21301.7	97.9243	%	0.74679				0.76%
Sc 361.383	62132.1	97.4	%	0.91				0.93%
Al 308.215†	-7.4	-0.0312054	mg/L	0.01234754	-0.0312054	mg/L	0.01234754	39.57%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	-114.6	-0.284358	mg/L	0.0036729	-0.284358	mg/L	0.0036729	1.29%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-12.2	-0.0207587	mg/L	0.00625575	-0.0207587	mg/L	0.00625575	30.14%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-23.2	-0.270386	mg/L	0.0090354	-0.270386	mg/L	0.0090354	3.34%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-20.9	-0.0021589	mg/L	0.00037008	-0.0021589	mg/L	0.00037008	17.14%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	102.8	0.0143023	mg/L	0.04539594	0.0143023	mg/L	0.04539594	317.40%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	4470.9	0.505457	mg/L	0.0206925	0.505457	mg/L	0.0206925	4.09%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-7.3	-0.0010564	mg/L	0.00017892	-0.0010564	mg/L	0.00017892	16.94%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: 78790-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 109
Date Collected: 5/27/2014 9:49:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78790-003

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21688.8	99.7041	%	1.39466				1.40%
Sc 361.383	64450.0	101	%	0.8				0.83%
Al 308.215†	-25.1	-0.0434939	mg/L	0.00829790	-0.0434939	mg/L	0.00829790	19.08%
Ca 315.887†	216.8	-0.246979	mg/L	0.0115256	-0.246979	mg/L	0.0115256	4.67%
Fe 273.955†	23.2	0.0019039	mg/L	0.00706747	0.0019039	mg/L	0.00706747	371.21%
Mg 279.077†	52.0	-0.220694	mg/L	0.0151642	-0.220694	mg/L	0.0151642	6.87%
Mn 257.610†	16.9	-0.0013429	mg/L	0.00144810	-0.0013429	mg/L	0.00144810	107.83%
K 766.490†	78.0	-0.0051366	mg/L	0.06370593	-0.0051366	mg/L	0.06370593	>999.9%
Na 589.592†	4265.3	0.473782	mg/L	0.0292866	0.473782	mg/L	0.0292866	6.18%
Ti 334.940†	-17.2	-0.0012481	mg/L	0.00032798	-0.0012481	mg/L	0.00032798	26.28%

Sequence No.: 42
Sample ID: 78792-009
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 110
Date Collected: 5/27/2014 9:53:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78792-009

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21837.8	100.389	%	0.5973				0.60%
Sc 361.383	64325.1	101	%	0.7				0.68%
Al 308.215†	14.2	-0.0162435	mg/L	0.01375484	-0.0162435	mg/L	0.01375484	84.68%
Ca 315.887†	777.1	-0.183770	mg/L	0.0030264	-0.183770	mg/L	0.0030264	1.65%
Fe 273.955†	8.8	-0.0073006	mg/L	0.00656542	-0.0073006	mg/L	0.00656542	89.93%
Mg 279.077†	46.7	-0.224235	mg/L	0.0045312	-0.224235	mg/L	0.0045312	2.02%
Mn 257.610†	-17.0	-0.0020678	mg/L	0.00008757	-0.0020678	mg/L	0.00008757	4.24%
K 766.490†	9.0	-0.0591475	mg/L	0.05110583	-0.0591475	mg/L	0.05110583	86.40%
Na 589.592†	6241.2	0.778273	mg/L	0.3544217	0.778273	mg/L	0.3544217	45.54%
Ti 334.940†	-14.8	-0.0012014	mg/L	0.00017623	-0.0012014	mg/L	0.00017623	14.67%

Sequence No.: 43
Sample ID: 78818-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 111
Date Collected: 5/27/2014 9:56:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78818-003

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21502.8	98.8490	%	0.75604				0.76%
Sc 361.383	63456.1	99.4	%	1.03				1.03%
Al 308.215†	18.1	-0.0135296	mg/L	0.00632130	-0.0135296	mg/L	0.00632130	46.72%
Ca 315.887†	760.2	-0.185671	mg/L	0.0031127	-0.185671	mg/L	0.0031127	1.68%
Fe 273.955†	-2.8	-0.0146988	mg/L	0.00090833	-0.0146988	mg/L	0.00090833	6.18%
Mg 279.077†	8.0	-0.249782	mg/L	0.0030262	-0.249782	mg/L	0.0030262	1.21%
Mn 257.610†	-4.0	-0.0017959	mg/L	0.00011385	-0.0017959	mg/L	0.00011385	6.34%
K 766.490†	30.3	-0.0425041	mg/L	0.09756521	-0.0425041	mg/L	0.09756521	229.54%
Na 589.592†	4621.9	0.528734	mg/L	0.0903923	0.528734	mg/L	0.0903923	17.10%
Ti 334.940†	0.7	-0.0009035	mg/L	0.00007239	-0.0009035	mg/L	0.00007239	8.01%

Sequence No.: 44
Sample ID: 78829-014
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 112
Date Collected: 5/27/2014 9:59:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78829-014

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21651.8	99.5341	%	0.61286				0.62%
Sc 361.383	64106.3	100	%	0.5				0.46%
Al 308.215†	-28.6	-0.0459287	mg/L	0.00665240	-0.0459287	mg/L	0.00665240	14.48%
Ca 315.887†	337.9	-0.233314	mg/L	0.0015225	-0.233314	mg/L	0.0015225	0.65%
Fe 273.955†	11.8	-0.0054097	mg/L	0.00842930	-0.0054097	mg/L	0.00842930	155.82%
Mg 279.077†	15.2	-0.244992	mg/L	0.0000839	-0.244992	mg/L	0.0000839	0.03%
Mn 257.610†	-29.2	-0.0023259	mg/L	0.00022575	-0.0023259	mg/L	0.00022575	9.71%
K 766.490†	11.5	-0.0572034	mg/L	0.00045915	-0.0572034	mg/L	0.00045915	0.80%
Na 589.592†	4318.9	0.482039	mg/L	0.0159195	0.482039	mg/L	0.0159195	3.30%
Ti 334.940†	-39.0	-0.0016697	mg/L	0.00073450	-0.0016697	mg/L	0.00073450	43.99%

Sequence No.: 45
Sample ID: ICSA V-185195
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/27/2014 10:03:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185195

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	19920.9	91.5768	%	0.18004				0.20%
Sc 361.383	60236.1	94.4	%	0.10				0.11%
Al 308.215†	720418.8	499.173	mg/L	1.9121	499.173	mg/L	1.9121	0.38%
QC value within limits for Al 308.215 Recovery = 99.83%								
Ca 315.887†	4255283.1	479.765	mg/L	2.2025	479.765	mg/L	2.2025	0.46%
QC value within limits for Ca 315.887 Recovery = 95.95%								
Fe 273.955†	303674.0	194.225	mg/L	0.1490	194.225	mg/L	0.1490	0.08%
QC value within limits for Fe 273.955 Recovery = 97.11%								
Mg 279.077†	752566.9	496.602	mg/L	2.1254	496.602	mg/L	2.1254	0.43%
QC value within limits for Mg 279.077 Recovery = 99.32%								
Mn 257.610†	-4046.3	0.0390650	mg/L	0.00110668	0.0390650	mg/L	0.00110668	2.83%
QC value within limits for Mn 257.610 Recovery = 3.91%								
K 766.490†	428.5	0.269241	mg/L	0.0460075	0.269241	mg/L	0.0460075	17.09%
QC value within limits for K 766.490 Recovery = 26.92%								
Na 589.592†	17442.4	2.50445	mg/L	0.086258	2.50445	mg/L	0.086258	3.44%
QC value within limits for Na 589.592 Recovery = 250.45%								
Ti 334.940†	-1361.9	-0.0272246	mg/L	0.00056006	-0.0272246	mg/L	0.00056006	2.06%
QC value within limits for Ti 334.940 Recovery = -2.72%								

All analyte(s) passed QC.

Sequence No.: 46
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/27/2014 10:06:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	19675.7	90.4495	%	0.37514				0.41%
Sc 361.383	60020.0	94.1	%	0.10				0.10%
Al 308.215†	728348.7	504.668	mg/L	3.4871	504.668	mg/L	3.4871	0.69%
QC value within limits for Al 308.215 Recovery = 100.93%								
Ca 315.887†	4305443.0	485.424	mg/L	4.0384	485.424	mg/L	4.0384	0.83%
QC value within limits for Ca 315.887 Recovery = 97.08%								
Fe 273.955†	303862.1	194.345	mg/L	0.5016	194.345	mg/L	0.5016	0.26%
QC value within limits for Fe 273.955 Recovery = 97.17%								
Mg 279.077†	762709.3	503.298	mg/L	4.3781	503.298	mg/L	4.3781	0.87%
QC value within limits for Mg 279.077 Recovery = 100.66%								
Mn 257.610†	19173.7	0.531717	mg/L	0.0012169	0.531717	mg/L	0.0012169	0.23%
QC value within limits for Mn 257.610 Recovery = 106.34%								
K 766.490†	361.4	0.216722	mg/L	0.0373573	0.216722	mg/L	0.0373573	17.24%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	16403.7	2.34438	mg/L	0.003685	2.34438	mg/L	0.003685	0.16%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-1361.3	-0.0272122	mg/L	0.00099332	-0.0272122	mg/L	0.00099332	3.65%

All analyte(s) passed QC.

Sequence No.: 47
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/27/2014 10:10:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20724.3	95.2702	%	0.58650				0.62%
Sc 361.383	61882.0	97.0	%	0.40				0.41%
Al 308.215†	7550.0	5.20551	mg/L	0.006353	5.20551	mg/L	0.006353	0.12%
QC value within limits for Al 308.215 Recovery = 104.11%								
Ca 315.887†	447783.3	50.2428	mg/L	0.12750	50.2428	mg/L	0.12750	0.25%
QC value within limits for Ca 315.887 Recovery = 100.49%								
Fe 273.955†	7918.4	5.05190	mg/L	0.019694	5.05190	mg/L	0.019694	0.39%
QC value within limits for Fe 273.955 Recovery = 101.04%								
Mg 279.077†	78941.5	51.8634	mg/L	0.06260	51.8634	mg/L	0.06260	0.12%
QC value within limits for Mg 279.077 Recovery = 103.73%								
Mn 257.610†	24041.6	0.511594	mg/L	0.0018460	0.511594	mg/L	0.0018460	0.36%
QC value within limits for Mn 257.610 Recovery = 102.32%								
K 766.490†	63841.8	49.9071	mg/L	0.36110	49.9071	mg/L	0.36110	0.72%
QC value within limits for K 766.490 Recovery = 99.81%								
Na 589.592†	333183.8	51.1621	mg/L	0.08400	51.1621	mg/L	0.08400	0.16%
QC value within limits for Na 589.592 Recovery = 102.32%								
Ti 334.940†	26324.4	0.507604	mg/L	0.0017153	0.507604	mg/L	0.0017153	0.34%
QC value within limits for Ti 334.940 Recovery = 101.52%								

All analyte(s) passed QC.

Sequence No.: 48
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/27/2014 10:13:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21363.4	98.2079	%	1.26863				1.29%
Sc 361.383	63747.5	99.9	%	1.28				1.28%
Al 308.215†	360.2	0.223502	mg/L	0.0021150	0.223502	mg/L	0.0021150	0.95%
QC value within limits for Al 308.215 Recovery = 111.75%								
Ca 315.887†	44715.1	4.77286	mg/L	0.010162	4.77286	mg/L	0.010162	0.21%
QC value within limits for Ca 315.887 Recovery = 95.46%								
Fe 273.955†	554.3	0.341595	mg/L	0.0033760	0.341595	mg/L	0.0033760	0.99%
QC value within limits for Fe 273.955 Recovery = 113.86%								
Mg 279.077†	7803.3	4.89678	mg/L	0.071718	4.89678	mg/L	0.071718	1.46%
QC value within limits for Mg 279.077 Recovery = 97.94%								
Mn 257.610†	1899.5	0.0388160	mg/L	0.00076366	0.0388160	mg/L	0.00076366	1.97%
QC value within limits for Mn 257.610 Recovery = 97.04%								
K 766.490†	6129.5	4.73175	mg/L	0.026041	4.73175	mg/L	0.026041	0.55%
QC value within limits for K 766.490 Recovery = 94.63%								
Na 589.592†	37144.1	5.54059	mg/L	0.041152	5.54059	mg/L	0.041152	0.74%
QC value within limits for Na 589.592 Recovery = 110.81%								
Ti 334.940†	2451.1	0.0464328	mg/L	0.00086950	0.0464328	mg/L	0.00086950	1.87%
QC value within limits for Ti 334.940 Recovery = 92.87%								

All analyte(s) passed QC.

Sequence No.: 49
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/27/2014 10:16:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21070.6	96.8620	%	0.00612				0.01%
Sc 361.383	61396.5	96.2	%	0.34				0.35%
Al 308.215†	4.1	-0.0232479	mg/L	0.00788617	-0.0232479	mg/L	0.00788617	33.92%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	-65.6	-0.278836	mg/L	0.0080209	-0.278836	mg/L	0.0080209	2.88%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	86.0	0.0420621	mg/L	0.08361090	0.0420621	mg/L	0.08361090	198.78%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	78.8	-0.203024	mg/L	0.0862239	-0.203024	mg/L	0.0862239	42.47%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	63.6	-0.0003257	mg/L	0.00310395	-0.0003257	mg/L	0.00310395	952.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	27.7	-0.0445205	mg/L	0.00619144	-0.0445205	mg/L	0.00619144	13.91%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	3728.6	0.391076	mg/L	0.0097921	0.391076	mg/L	0.0097921	2.50%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-18.9	-0.0012815	mg/L	0.00061072	-0.0012815	mg/L	0.00061072	47.66%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

File SW16381C2 Batch 16381 SW846 4052101 1966

Analyst [illegible] 5/28/14

==========

Analysis Begun

Start Time: 5/28/2014 10:52:05 AM
Logged In Analyst: shiamala
Spectrometer Model: Optima 4300 DV, S/N 077N1030901

Plasma On Time: 5/28/2014 9:54:54 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\administrator\Sample Information\05.27.14.sif
Batch ID: PEICP 2
Results Data Set: SW16381C2
Results Library: C:\pe\administrator\Results\Results.mdb

[illegible] 5/28/14

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Method Loaded

Method Name: PE2 4300DV AXIAL
IEC File: IECax092613.iec
Method Description: 200.7/6010B/6010C

Method Last Saved: 5/24/2014 8:23:50 PM
MSF File:

==========

Sequence No.: 1
Sample ID: CALBLK V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/28/2014 10:52:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-183928

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1005137.9	2340.66	0.23%	100	%
Y 371.029	333365.7	877.55	0.26%	100	%
Ag 328.068†	7054.7	88.89	1.26%	[0.00]	mg/L
Al 308.215†	11883.1	129.52	1.09%	[0.00]	mg/L
As 188.979†	20.4	4.44	21.77%	[0.00]	mg/L
Ba 233.527†	-1535.1	15.87	1.03%	[0.00]	mg/L
Be 313.107†	-2953.7	59.86	2.03%	[0.00]	mg/L
Ca 315.887†	-25756.6	793.77	3.08%	[0.00]	mg/L
Cd 228.802†	566.0	5.32	0.94%	[0.00]	mg/L
Co 228.616†	251.4	7.69	3.06%	[0.00]	mg/L
Cr 267.716†	1257.6	9.20	0.73%	[0.00]	mg/L
Cu 327.393†	-3405.1	59.09	1.74%	[0.00]	mg/L
Fe 273.955†	-849.1	17.62	2.07%	[0.00]	mg/L
K 404.721†	-1648.2	69.31	4.21%	[0.00]	mg/L
Mg 279.077†	-5559.3	135.94	2.45%	[0.00]	mg/L
Mn 257.610†	1303.0	10.42	0.80%	[0.00]	mg/L
Mo 202.031†	49.0	0.83	1.69%	[0.00]	mg/L
Na 330.237†	2476.2	478.44	19.32%	[0.00]	mg/L
Ni 231.604†	279.4	16.23	5.81%	[0.00]	mg/L
Pb 220.353†	-217.9	13.97	6.41%	[0.00]	mg/L
Sb 206.836†	67.3	1.85	2.75%	[0.00]	mg/L
Se 196.026†	3.1	8.68	280.44%	[0.00]	mg/L
Sn 189.927†	30.6	1.55	5.06%	[0.00]	mg/L
Ti 334.940†	1942.7	120.32	6.19%	[0.00]	mg/L
Tl 190.801†	30.6	10.93	35.78%	[0.00]	mg/L
V 290.880†	5470.6	51.98	0.95%	[0.00]	mg/L
Zn 206.200†	256.2	5.84	2.28%	[0.00]	mg/L

16381
32819

QC, 78793.001 2D all elements reported except Na, K

78787.003 2D
.011 4D
.016 4D
} Fe reported

78787.011 2D
016 2D
} all elements reported except Fe, Na, K

Sequence No.: 2
Sample ID: CALST1 V-185362
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 5/28/2014 10:55:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST1 V-185362

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1034834.3	1369.89	0.13%	103	%
Y 371.029	338332.0	407.33	0.12%	101	%
As 188.979†	5.1	3.51	69.23%	[0.005]	mg/L
Be 313.107†	9515.4	26.39	0.28%	[0.003]	mg/L
Cd 228.802†	190.3	11.82	6.21%	[0.003]	mg/L
Pb 220.353†	65.1	7.84	12.03%	[0.004]	mg/L
Tl 190.801†	10.7	2.30	21.42%	[0.005]	mg/L

Sequence No.: 3
Sample ID: CALST2 V-185756
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 5/28/2014 10:58:44 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-185756

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1026755.9	8391.23	0.82%	102	%
Y 371.029	336156.0	3409.23	1.01%	101	%
Ag 328.068†	197.2	128.86	65.33%	[0.002]	mg/L
Al 308.215†	3182.8	25.56	0.80%	[0.10]	mg/L
As 188.979†	13.6	3.09	22.69%	[0.010]	mg/L
Ba 233.527†	1672.6	4.99	0.30%	[0.010]	mg/L
Be 313.107†	30598.5	165.07	0.54%	[0.010]	mg/L
Ca 315.887†	125579.7	1206.07	0.96%	[1.0]	mg/L
Cd 228.802†	592.5	8.21	1.39%	[0.010]	mg/L
Co 228.616†	528.1	7.54	1.43%	[0.010]	mg/L
Cr 267.716†	970.6	6.63	0.68%	[0.010]	mg/L
Cu 327.393†	1290.8	86.45	6.70%	[0.010]	mg/L
Fe 273.955†	2697.2	3.37	0.12%	[0.10]	mg/L
K 404.721†	148.2	43.36	29.27%	[1.0]	mg/L
Mg 279.077†	23384.3	108.67	0.46%	[1.0]	mg/L
Mn 257.610†	8459.1	50.03	0.59%	[0.010]	mg/L
Mo 202.031†	222.3	2.64	1.19%	[0.010]	mg/L
Na 330.237†	788.7	65.77	8.34%	[1.0]	mg/L
Ni 231.604†	640.9	24.16	3.77%	[0.010]	mg/L
Pb 220.353†	163.8	3.71	2.27%	[0.010]	mg/L
Sb 206.836†	12.3	0.72	5.83%	[0.010]	mg/L
Se 196.026†	12.8	3.04	23.80%	[0.010]	mg/L
Sn 189.927†	52.2	4.66	8.93%	[0.010]	mg/L
Ti 334.940†	7725.7	54.64	0.71%	[0.010]	mg/L
Tl 190.801†	25.0	1.96	7.83%	[0.010]	mg/L
V 290.880†	1404.3	41.34	2.94%	[0.010]	mg/L
Zn 206.200†	704.4	8.85	1.26%	[0.010]	mg/L

Sequence No.: 4
Sample ID: CALST3 V-185198
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 5/28/2014 11:02:05 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-185198

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	980581.1	520.07	0.05%	97.6	%
Y 371.029	316980.5	1446.69	0.46%	95.1	%
Ag 328.068†	22037.5	31.54	0.14%	[0.10]	mg/L
Al 308.215†	163859.7	251.35	0.15%	[5.0]	mg/L
As 188.979†	828.6	5.63	0.68%	[0.50]	mg/L
Ba 233.527†	78787.7	144.54	0.18%	[0.50]	mg/L
Be 313.107†	1561971.2	152.40	0.01%	[0.50]	mg/L
Ca 315.887†	6149028.9	4560.54	0.07%	[50]	mg/L
Cd 228.802†	31154.0	118.38	0.38%	[0.50]	mg/L
Co 228.616†	26557.6	127.81	0.48%	[0.50]	mg/L
Cr 267.716†	49387.1	96.63	0.20%	[0.50]	mg/L
Cu 327.393†	64454.6	98.01	0.15%	[0.50]	mg/L
Fe 273.955†	121514.3	57.63	0.05%	[5.0]	mg/L
K 404.721†	4831.2	33.04	0.68%	[50]	mg/L
Mg 279.077†	1098591.7	2646.61	0.24%	[50]	mg/L
Mn 257.610†	409878.6	744.14	0.18%	[0.50]	mg/L
Mo 202.031†	11169.9	45.26	0.41%	[0.50]	mg/L
Na 330.237†	68865.2	68.92	0.10%	[50]	mg/L
Ni 231.604†	31011.0	174.14	0.56%	[0.50]	mg/L
Pb 220.353†	8323.2	69.48	0.83%	[0.50]	mg/L
Sb 206.836†	1199.2	7.51	0.63%	[0.50]	mg/L
Se 196.026†	827.0	2.78	0.34%	[0.50]	mg/L
Sn 189.927†	2846.1	15.05	0.53%	[0.50]	mg/L
Ti 334.940†	387916.3	1610.24	0.42%	[0.50]	mg/L
Tl 190.801†	1190.9	6.05	0.51%	[0.50]	mg/L
V 290.880†	73315.2	260.44	0.36%	[0.50]	mg/L
Zn 206.200†	36524.6	158.01	0.43%	[0.50]	mg/L

Sequence No.: 5
Sample ID: CALST4 V-185758
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/28/2014 11:05:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-185758

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	965025.4	2984.51	0.31%	96.0	%
Y 371.029	313136.7	594.36	0.19%	93.9	%
Ag 328.068†	43762.2	55.47	0.13%	[0.20]	mg/L
Al 308.215†	313748.8	588.47	0.19%	[10]	mg/L
As 188.979†	1644.9	7.84	0.48%	[1.0]	mg/L
Ba 233.527†	154578.2	278.14	0.18%	[1.0]	mg/L
Be 313.107†	3107521.3	4690.53	0.15%	[1.0]	mg/L
Ca 315.887†	12042375.7	6900.89	0.06%	[100]	mg/L
Cd 228.802†	61367.7	217.34	0.35%	[1.0]	mg/L
Co 228.616†	51881.5	156.07	0.30%	[1.0]	mg/L
Cr 267.716†	97174.7	214.18	0.22%	[1.0]	mg/L
Cu 327.393†	126754.1	302.81	0.24%	[1.0]	mg/L
Fe 273.955†	238279.3	203.98	0.09%	[10]	mg/L
K 404.721†	10577.4	102.91	0.97%	[100]	mg/L
Mg 279.077†	2141303.0	3900.09	0.18%	[100]	mg/L
Mn 257.610†	806463.0	1145.84	0.14%	[1.0]	mg/L
Mo 202.031†	21861.7	16.55	0.08%	[1.0]	mg/L
Na 330.237†	139786.2	330.48	0.24%	[100]	mg/L
Ni 231.604†	60773.6	116.33	0.19%	[1.0]	mg/L
Pb 220.353†	16143.3	9.54	0.06%	[1.0]	mg/L
Sb 206.836†	2380.7	6.86	0.29%	[1.0]	mg/L
Se 196.026†	1658.2	6.71	0.40%	[1.0]	mg/L
Sn 189.927†	5613.1	23.19	0.41%	[1.0]	mg/L
Ti 334.940†	766715.5	4736.39	0.62%	[1.0]	mg/L
Tl 190.801†	2316.9	0.39	0.02%	[1.0]	mg/L
V 290.880†	143029.8	255.42	0.18%	[1.0]	mg/L
Zn 206.200†	71668.7	165.48	0.23%	[1.0]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	-80.7	219600	0.00000	0.999976	
Al 308.215	3	Lin, Calc Int	1291.9	31500	0.00000	0.999738	
As 188.979	4	Lin, Calc Int	-1.1	1649	0.00000	0.999990	
Ba 233.527	3	Lin, Calc Int	330.3	154800	0.00000	0.999952	
Be 313.107	4	Lin, Calc Int	935.1	3110000	0.00000	0.999997	
Ca 315.887	3	Lin, Calc Int	25608.1	120600	0.00000	0.999941	
Cd 228.802	4	Lin, Calc Int	53.9	61490	0.00000	0.999972	
Co 228.616	3	Lin, Calc Int	116.5	51990	0.00000	0.999925	
Cr 267.716	3	Lin, Calc Int	145.0	97320	0.00000	0.999964	
Cu 327.393	3	Lin, Calc Int	206.7	126900	0.00000	0.999962	
Fe 273.955	3	Lin, Calc Int	574.9	23850	0.00000	0.999950	
K 404.721	3	Lin, Calc Int	-64.0	104.7	0.00000	0.998926	
Mg 279.077	3	Lin, Calc Int	5980.1	21450	0.00000	0.999912	
Mn 257.610	3	Lin, Calc Int	1388.9	807400	0.00000	0.999965	
Mo 202.031	3	Lin, Calc Int	45.2	21900	0.00000	0.999937	
Na 330.237	3	Lin, Calc Int	-463.6	1399	0.00000	0.999972	
Ni 231.604	3	Lin, Calc Int	128.7	60870	0.00000	0.999945	
Pb 220.353	4	Lin, Calc Int	32.2	16200	0.00000	0.999886	
Sb 206.836	3	Lin, Calc Int	-3.6	2388	0.00000	0.999979	
Se 196.026	3	Lin, Calc Int	-2.1	1660	0.00000	0.999998	
Sn 189.927	3	Lin, Calc Int	5.4	5622	0.00000	0.999972	
Ti 334.940	3	Lin, Calc Int	856.2	767500	0.00000	0.999981	
Tl 190.801	4	Lin, Calc Int	4.3	2325	0.00000	0.999908	
V 290.880	3	Lin, Calc Int	315.8	143400	0.00000	0.999915	
Zn 206.200	3	Lin, Calc Int	120.0	71800	0.00000	0.999950	

Sequence No.: 6
Sample ID: ICS3 V-185198
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 5/28/2014 11:10:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-185198

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	980576.6	97.6	%	0.22				0.23%
Y 371.029	315862.1	94.7	%	1.22				1.28%
Ag 328.068†	22192.9	0.101995	mg/L	0.0009750	0.101995	mg/L	0.0009750	0.96%
QC value within limits for Ag 328.068 Recovery = 101.99%								
Al 308.215†	164744.3	5.18087	mg/L	0.007167	5.18087	mg/L	0.007167	0.14%
QC value within limits for Al 308.215 Recovery = 103.62%								
As 188.979†	826.6	0.501203	mg/L	0.0018626	0.501203	mg/L	0.0018626	0.37%
QC value within limits for As 188.979 Recovery = 100.24%								
Ba 233.527†	79237.0	0.509606	mg/L	0.0012630	0.509606	mg/L	0.0012630	0.25%
QC value within limits for Ba 233.527 Recovery = 101.92%								
Be 313.107†	1567199.3	0.503492	mg/L	0.0006049	0.503492	mg/L	0.0006049	0.12%
QC value within limits for Be 313.107 Recovery = 100.70%								
Ca 315.887†	6176016.1	50.9737	mg/L	0.24419	50.9737	mg/L	0.24419	0.48%
QC value within limits for Ca 315.887 Recovery = 101.95%								
Cd 228.802†	31086.5	0.504331	mg/L	0.0021140	0.504331	mg/L	0.0021140	0.42%
QC value within limits for Cd 228.802 Recovery = 100.87%								
Co 228.616†	26463.2	0.507659	mg/L	0.0027102	0.507659	mg/L	0.0027102	0.53%
QC value within limits for Co 228.616 Recovery = 101.53%								
Cr 267.716†	49748.9	0.512508	mg/L	0.0023142	0.512508	mg/L	0.0023142	0.45%
QC value within limits for Cr 267.716 Recovery = 102.50%								
Cu 327.393†	64664.9	0.507591	mg/L	0.0010058	0.507591	mg/L	0.0010058	0.20%
QC value within limits for Cu 327.393 Recovery = 101.52%								
Fe 273.955†	122398.1	5.10709	mg/L	0.022409	5.10709	mg/L	0.022409	0.44%
QC value within limits for Fe 273.955 Recovery = 102.14%								
K 404.721†	4961.9	47.9931	mg/L	0.75574	47.9931	mg/L	0.75574	1.57%
QC value within limits for K 404.721 Recovery = 95.99%								
Mg 279.077†	1102388.7	51.1134	mg/L	0.20485	51.1134	mg/L	0.20485	0.40%
QC value within limits for Mg 279.077 Recovery = 102.23%								
Mn 257.610†	412676.8	0.507627	mg/L	0.0013755	0.507627	mg/L	0.0013755	0.27%
QC value within limits for Mn 257.610 Recovery = 101.53%								
Mo 202.031†	11165.2	0.506233	mg/L	0.0016842	0.506233	mg/L	0.0016842	0.33%
QC value within limits for Mo 202.031 Recovery = 101.25%								
Na 330.237†	69063.6	49.6871	mg/L	0.04125	49.6871	mg/L	0.04125	0.08%
QC value within limits for Na 330.237 Recovery = 99.37%								
Ni 231.604†	30926.5	0.506565	mg/L	0.0025071	0.506565	mg/L	0.0025071	0.49%
QC value within limits for Ni 231.604 Recovery = 101.31%								
Pb 220.353†	8256.2	0.510787	mg/L	0.0022194	0.510787	mg/L	0.0022194	0.43%
QC value within limits for Pb 220.353 Recovery = 102.16%								
Sb 206.836†	1206.1	0.507023	mg/L	0.0007107	0.507023	mg/L	0.0007107	0.14%
QC value within limits for Sb 206.836 Recovery = 101.40%								
Se 196.026†	837.5	0.509029	mg/L	0.0049443	0.509029	mg/L	0.0049443	0.97%
QC value within limits for Se 196.026 Recovery = 101.81%								
Sn 189.927†	2848.5	0.507261	mg/L	0.0034861	0.507261	mg/L	0.0034861	0.69%
QC value within limits for Sn 189.927 Recovery = 101.45%								
Ti 334.940†	390258.7	0.507361	mg/L	0.0011654	0.507361	mg/L	0.0011654	0.23%
QC value within limits for Ti 334.940 Recovery = 101.47%								
Tl 190.801†	1195.5	0.514313	mg/L	0.0029382	0.514313	mg/L	0.0029382	0.57%
QC value within limits for Tl 190.801 Recovery = 102.86%								
V 290.880†	73755.1	0.507168	mg/L	0.0017519	0.507168	mg/L	0.0017519	0.35%
QC value within limits for V 290.880 Recovery = 101.43%								
Zn 206.200†	36658.8	0.508474	mg/L	0.0012642	0.508474	mg/L	0.0012642	0.25%
QC value within limits for Zn 206.200 Recovery = 101.69%								

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/28/2014 11:14:01 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-185530

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	979299.5	97.4	%	0.70				0.72%
Y 371.029	314735.7	94.4	%	0.07				0.08%
Ag 328.068†	21677.5	0.0996440	mg/L	0.00150217	0.0996440	mg/L	0.00150217	1.51%
QC value within limits for Ag 328.068 Recovery = 99.64%								
Al 308.215†	164000.6	5.15740	mg/L	0.062427	5.15740	mg/L	0.062427	1.21%
QC value within limits for Al 308.215 Recovery = 103.15%								
As 188.979†	827.4	0.501695	mg/L	0.0040546	0.501695	mg/L	0.0040546	0.81%
QC value within limits for As 188.979 Recovery = 100.34%								
Ba 233.527†	79704.3	0.512627	mg/L	0.0057859	0.512627	mg/L	0.0057859	1.13%
QC value within limits for Ba 233.527 Recovery = 102.53%								
Be 313.107†	1575009.3	0.506004	mg/L	0.0008616	0.506004	mg/L	0.0008616	0.17%
QC value within limits for Be 313.107 Recovery = 101.20%								
Ca 315.887†	6167655.0	50.9045	mg/L	0.02131	50.9045	mg/L	0.02131	0.04%
QC value within limits for Ca 315.887 Recovery = 101.81%								
Cd 228.802†	31355.4	0.508706	mg/L	0.0029804	0.508706	mg/L	0.0029804	0.59%
QC value within limits for Cd 228.802 Recovery = 101.74%								
Co 228.616†	26458.8	0.507544	mg/L	0.0031179	0.507544	mg/L	0.0031179	0.61%
QC value within limits for Co 228.616 Recovery = 101.51%								
Cr 267.716†	50330.8	0.518443	mg/L	0.0051428	0.518443	mg/L	0.0051428	0.99%
QC value within limits for Cr 267.716 Recovery = 103.69%								
Cu 327.393†	64156.3	0.503581	mg/L	0.0053742	0.503581	mg/L	0.0053742	1.07%
QC value within limits for Cu 327.393 Recovery = 100.72%								
Fe 273.955†	121158.5	5.05513	mg/L	0.049349	5.05513	mg/L	0.049349	0.98%
QC value within limits for Fe 273.955 Recovery = 101.10%								
K 404.721†	4942.8	47.8114	mg/L	0.18076	47.8114	mg/L	0.18076	0.38%
QC value within limits for K 404.721 Recovery = 95.62%								
Mg 279.077†	1125419.6	52.1868	mg/L	0.09139	52.1868	mg/L	0.09139	0.18%
QC value within limits for Mg 279.077 Recovery = 104.37%								
Mn 257.610†	410144.7	0.504449	mg/L	0.0055244	0.504449	mg/L	0.0055244	1.10%
QC value within limits for Mn 257.610 Recovery = 100.89%								
Mo 202.031†	10980.5	0.497800	mg/L	0.0033423	0.497800	mg/L	0.0033423	0.67%
QC value within limits for Mo 202.031 Recovery = 99.56%								
Na 330.237†	69232.1	49.8075	mg/L	0.67299	49.8075	mg/L	0.67299	1.35%
QC value within limits for Na 330.237 Recovery = 99.62%								
Ni 231.604†	31147.6	0.510189	mg/L	0.0032897	0.510189	mg/L	0.0032897	0.64%
QC value within limits for Ni 231.604 Recovery = 102.04%								
Pb 220.353†	8247.4	0.510207	mg/L	0.0025145	0.510207	mg/L	0.0025145	0.49%
QC value within limits for Pb 220.353 Recovery = 102.04%								
Sb 206.836†	1204.9	0.506507	mg/L	0.0054919	0.506507	mg/L	0.0054919	1.08%
QC value within limits for Sb 206.836 Recovery = 101.30%								
Se 196.026†	825.7	0.501917	mg/L	0.0084435	0.501917	mg/L	0.0084435	1.68%
QC value within limits for Se 196.026 Recovery = 100.38%								
Sn 189.927†	2880.5	0.512958	mg/L	0.0031197	0.512958	mg/L	0.0031197	0.61%
QC value within limits for Sn 189.927 Recovery = 102.59%								
Ti 334.940†	389653.5	0.506573	mg/L	0.0049683	0.506573	mg/L	0.0049683	0.98%
QC value within limits for Ti 334.940 Recovery = 101.31%								
Tl 190.801†	1184.4	0.509512	mg/L	0.0022357	0.509512	mg/L	0.0022357	0.44%
QC value within limits for Tl 190.801 Recovery = 101.90%								
V 290.880†	73690.2	0.506608	mg/L	0.0061294	0.506608	mg/L	0.0061294	1.21%
QC value within limits for V 290.880 Recovery = 101.32%								
Zn 206.200†	36509.3	0.506398	mg/L	0.0025552	0.506398	mg/L	0.0025552	0.50%
QC value within limits for Zn 206.200 Recovery = 101.28%								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: LLICV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/28/2014 11:17:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV V-185635 [aq]

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1018717.8	101	%	0.0				0.03%
Y 371.029	332784.5	99.8	%	0.15				0.16%
Ag 328.068†	4010.2	0.0186675	mg/L	0.00000271	0.0186675	mg/L	0.00000271	0.01%
QC value within limits for Ag 328.068 Recovery = 93.34%								
Al 308.215†	7923.2	0.210224	mg/L	0.0001621	0.210224	mg/L	0.0001621	0.08%
QC value within limits for Al 308.215 Recovery = 105.11%								
As 188.979†	28.8	0.0180438	mg/L	0.00232737	0.0180438	mg/L	0.00232737	12.90%
QC value within limits for As 188.979 Recovery = 90.22%								
Ba 233.527†	7813.1	0.0483340	mg/L	0.00001270	0.0483340	mg/L	0.00001270	0.03%
QC value within limits for Ba 233.527 Recovery = 96.67%								
Be 313.107†	36186.0	0.0113192	mg/L	0.00003718	0.0113192	mg/L	0.00003718	0.33%
QC value within limits for Be 313.107 Recovery = 94.33%								
Ca 315.887†	602299.1	4.78009	mg/L	0.010960	4.78009	mg/L	0.010960	0.23%
QC value within limits for Ca 315.887 Recovery = 95.60%								
Cd 228.802†	707.3	0.0106001	mg/L	0.00014965	0.0106001	mg/L	0.00014965	1.41%
QC value within limits for Cd 228.802 Recovery = 88.33%								
Co 228.616†	1012.7	0.0172134	mg/L	0.00001487	0.0172134	mg/L	0.00001487	0.09%
QC value within limits for Co 228.616 Recovery = 86.07%								
Cr 267.716†	4789.9	0.0478384	mg/L	0.00069461	0.0478384	mg/L	0.00069461	1.45%
QC value within limits for Cr 267.716 Recovery = 95.68%								
Cu 327.393†	6287.7	0.0478763	mg/L	0.00064588	0.0478763	mg/L	0.00064588	1.35%
QC value within limits for Cu 327.393 Recovery = 95.75%								
Fe 273.955†	7260.8	0.280285	mg/L	0.0024281	0.280285	mg/L	0.0024281	0.87%
QC value within limits for Fe 273.955 Recovery = 93.43%								
K 404.721†	430.8	4.72475	mg/L	0.092531	4.72475	mg/L	0.092531	1.96%
QC value within limits for K 404.721 Recovery = 94.49%								
Mg 279.077†	110626.2	4.87823	mg/L	0.021704	4.87823	mg/L	0.021704	0.44%
QC value within limits for Mg 279.077 Recovery = 97.56%								
Mn 257.610†	31827.3	0.0375218	mg/L	0.00019319	0.0375218	mg/L	0.00019319	0.51%
QC value within limits for Mn 257.610 Recovery = 93.80%								
Mo 202.031†	452.8	0.0184770	mg/L	0.00026778	0.0184770	mg/L	0.00026778	1.45%
QC value within limits for Mo 202.031 Recovery = 92.39%								
Na 330.237†	5809.4	4.48297	mg/L	0.035003	4.48297	mg/L	0.035003	0.78%
QC value within limits for Na 330.237 Recovery = 89.66%								
Ni 231.604†	3018.0	0.0474898	mg/L	0.00000307	0.0474898	mg/L	0.00000307	0.01%
QC value within limits for Ni 231.604 Recovery = 94.98%								
Pb 220.353†	202.1	0.0106443	mg/L	0.00043508	0.0106443	mg/L	0.00043508	4.09%
QC value within limits for Pb 220.353 Recovery = 88.70%								
Sb 206.836†	37.7	0.0173164	mg/L	0.00022807	0.0173164	mg/L	0.00022807	1.32%
QC value within limits for Sb 206.836 Recovery = 86.58%								
Se 196.026†	61.7	0.0386890	mg/L	0.00370743	0.0386890	mg/L	0.00370743	9.58%
QC value within limits for Se 196.026 Recovery = 96.72%								
Sn 189.927†	255.8	0.0446879	mg/L	0.00022823	0.0446879	mg/L	0.00022823	0.51%
QC value within limits for Sn 189.927 Recovery = 89.38%								
Ti 334.940†	36462.3	0.0463920	mg/L	0.00002015	0.0463920	mg/L	0.00002015	0.04%
QC value within limits for Ti 334.940 Recovery = 92.78%								
Tl 190.801†	42.2	0.0164577	mg/L	0.00049821	0.0164577	mg/L	0.00049821	3.03%
QC value within limits for Tl 190.801 Recovery = 82.29%								
V 290.880†	7032.4	0.0463648	mg/L	0.00017170	0.0463648	mg/L	0.00017170	0.37%
QC value within limits for V 290.880 Recovery = 92.73%								
Zn 206.200†	3447.5	0.0463247	mg/L	0.00016313	0.0463247	mg/L	0.00016313	0.35%
QC value within limits for Zn 206.200 Recovery = 92.65%								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICB V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/28/2014 11:20:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-183928

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1020347.5	102	%	0.5				0.51%
Y 371.029	339603.6	102	%	0.7				0.73%
Ag 328.068†	-167.1	-0.0003962	mg/L	0.00016154	-0.0003962	mg/L	0.00016154	40.78%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-379.3	-0.0530258	mg/L	0.00090941	-0.0530258	mg/L	0.00090941	1.72%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-4.8	-0.0022581	mg/L	0.00160996	-0.0022581	mg/L	0.00160996	71.30%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	61.3	-0.0017374	mg/L	0.00002616	-0.0017374	mg/L	0.00002616	1.51%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	148.7	-0.0002524	mg/L	0.00002050	-0.0002524	mg/L	0.00002050	8.12%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	245.3	-0.210196	mg/L	0.0023883	-0.210196	mg/L	0.0023883	1.14%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	9.2	-0.0007266	mg/L	0.00008960	-0.0007266	mg/L	0.00008960	12.33%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-1.8	-0.0022796	mg/L	0.00004014	-0.0022796	mg/L	0.00004014	1.76%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-38.4	-0.0018955	mg/L	0.00003055	-0.0018955	mg/L	0.00003055	1.61%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-59.4	-0.0020952	mg/L	0.00020284	-0.0020952	mg/L	0.00020284	9.68%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	19.1	-0.0233001	mg/L	0.00071727	-0.0233001	mg/L	0.00071727	3.08%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	37.4	0.968640	mg/L	0.6912289	0.968640	mg/L	0.6912289	71.36%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	227.3	-0.268178	mg/L	0.0065922	-0.268178	mg/L	0.0065922	2.46%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-44.7	-0.0017661	mg/L	0.00002552	-0.0017661	mg/L	0.00002552	1.44%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	2.5	-0.0019417	mg/L	0.00012167	-0.0019417	mg/L	0.00012167	6.27%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	-420.1	0.0310681	mg/L	0.00697572	0.0310681	mg/L	0.00697572	22.45%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	11.4	-0.0019291	mg/L	0.00009396	-0.0019291	mg/L	0.00009396	4.87%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	12.6	-0.0012326	mg/L	0.00055551	-0.0012326	mg/L	0.00055551	45.07%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-7.3	-0.0015360	mg/L	0.00023596	-0.0015360	mg/L	0.00023596	15.36%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	0.6	0.0009291	mg/L	0.00087166	0.0009291	mg/L	0.00087166	93.82%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	1.6	-0.0006889	mg/L	0.00019977	-0.0006889	mg/L	0.00019977	29.00%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-96.5	-0.0012413	mg/L	0.00000374	-0.0012413	mg/L	0.00000374	0.30%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-1.3	-0.0024428	mg/L	0.00160921	-0.0024428	mg/L	0.00160921	65.87%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-51.5	-0.0025355	mg/L	0.00025434	-0.0025355	mg/L	0.00025434	10.03%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	2.4	-0.0016367	mg/L	0.00000120	-0.0016367	mg/L	0.00000120	0.07%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICSA V-185195
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/28/2014 11:24:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185195

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	886396.6	88.2	%	0.40				0.46%
Y 371.029	288870.8	86.7	%	0.43				0.50%
Ag 328.068†	-3653.8	-0.0001876	mg/L	0.00049818	-0.0001876	mg/L	0.00049818	265.50%
Al 308.215†	15781160.7	500.976	mg/L	2.4142	500.976	mg/L	2.4142	0.48%
QC value within limits for Al 308.215 Recovery = 100.20%								
As 188.979†	11.8	-0.0005196	mg/L	0.00001312	-0.0005196	mg/L	0.00001312	2.53%
Ba 233.527†	1460.7	-0.0001638	mg/L	0.00000635	-0.0001638	mg/L	0.00000635	3.88%
Be 313.107†	-3009.2	-0.0012709	mg/L	0.00000061	-0.0012709	mg/L	0.00000061	0.05%
Ca 315.887†	59205406.3	490.250	mg/L	2.9119	490.250	mg/L	2.9119	0.59%
QC value within limits for Ca 315.887 Recovery = 98.05%								
Cd 228.802†	285.1	-0.0022292	mg/L	0.00044046	-0.0022292	mg/L	0.00044046	19.76%
Co 228.616†	-9.4	-0.0023859	mg/L	0.00013109	-0.0023859	mg/L	0.00013109	5.49%
Cr 267.716†	187.5	0.0005152	mg/L	0.00009210	0.0005152	mg/L	0.00009210	17.88%
Cu 327.393†	1338.3	0.0010457	mg/L	0.00018176	0.0010457	mg/L	0.00018176	17.38%
Fe 273.955†	4698114.7	196.931	mg/L	0.2683	196.931	mg/L	0.2683	0.14%
QC value within limits for Fe 273.955 Recovery = 98.47%								
K 404.721†	-329.1	-2.53150	mg/L	1.072490	-2.53150	mg/L	1.072490	42.37%
Mg 279.077†	11050426.4	514.690	mg/L	3.3609	514.690	mg/L	3.3609	0.65%
QC value within limits for Mg 279.077 Recovery = 102.94%								
Mn 257.610†	20203.6	0.0042085	mg/L	0.00010786	0.0042085	mg/L	0.00010786	2.56%
Mo 202.031†	341.9	-0.0027009	mg/L	0.00075258	-0.0027009	mg/L	0.00075258	27.86%
Na 330.237†	-182.2	0.201109	mg/L	0.0025229	0.201109	mg/L	0.0025229	1.25%
Ni 231.604†	43.4	-0.0013860	mg/L	0.00057337	-0.0013860	mg/L	0.00057337	41.37%
Pb 220.353†	-1817.3	0.0041554	mg/L	0.00059367	0.0041554	mg/L	0.00059367	14.29%
Sb 206.836†	-20.0	-0.0000398	mg/L	0.00084549	-0.0000398	mg/L	0.00084549	>999.9%
Se 196.026†	-155.7	0.0020852	mg/L	0.00404490	0.0020852	mg/L	0.00404490	193.98%
Sn 189.927†	-47.8	-0.0031146	mg/L	0.00150205	-0.0031146	mg/L	0.00150205	48.23%
Ti 334.940†	6252.5	0.0070309	mg/L	0.00007791	0.0070309	mg/L	0.00007791	1.11%
Tl 190.801†	97.7	-0.0083498	mg/L	0.00126756	-0.0083498	mg/L	0.00126756	15.18%
V 290.880†	8274.1	-0.0031166	mg/L	0.00022663	-0.0031166	mg/L	0.00022663	7.27%
Zn 206.200†	1159.3	-0.0017750	mg/L	0.00037672	-0.0017750	mg/L	0.00037672	21.22%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/28/2014 11:29:24 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	909959.4	90.5	%	3.08				3.40%
Y 371.029	296279.3	88.9	%	2.86				3.22%
Ag 328.068†	229453.4	1.06086	mg/L	0.070997	1.06086	mg/L	0.070997	6.69%
QC value within limits for Ag 328.068 Recovery = 106.09%								
Al 308.215†	15602224.9	495.295	mg/L	16.6820	495.295	mg/L	16.6820	3.37%
QC value within limits for Al 308.215 Recovery = 99.06%								
As 188.979†	1698.4	1.02230	mg/L	0.015091	1.02230	mg/L	0.015091	1.48%
QC value within limits for As 188.979 Recovery = 102.23%								
Ba 233.527†	80448.6	0.510387	mg/L	0.0316336	0.510387	mg/L	0.0316336	6.20%
QC value within limits for Ba 233.527 Recovery = 102.08%								
Be 313.107†	1562999.0	0.502322	mg/L	0.0326612	0.502322	mg/L	0.0326612	6.50%
QC value within limits for Be 313.107 Recovery = 100.46%								
Ca 315.887†	58443835.0	483.942	mg/L	16.6783	483.942	mg/L	16.6783	3.45%
QC value within limits for Ca 315.887 Recovery = 96.79%								
Cd 228.802†	65176.8	1.05320	mg/L	0.032727	1.05320	mg/L	0.032727	3.11%
QC value within limits for Cd 228.802 Recovery = 105.32%								
Co 228.616†	25457.2	0.487472	mg/L	0.0144970	0.487472	mg/L	0.0144970	2.97%
QC value within limits for Co 228.616 Recovery = 97.49%								
Cr 267.716†	49079.9	0.503081	mg/L	0.0163646	0.503081	mg/L	0.0163646	3.25%
QC value within limits for Cr 267.716 Recovery = 100.62%								
Cu 327.393†	67524.0	0.522549	mg/L	0.0339647	0.522549	mg/L	0.0339647	6.50%
QC value within limits for Cu 327.393 Recovery = 104.51%								
Fe 273.955†	4556180.9	190.981	mg/L	11.7468	190.981	mg/L	11.7468	6.15%
QC value within limits for Fe 273.955 Recovery = 95.49%								
K 404.721†	-143.0	-0.753966	mg/L	0.3225634	-0.753966	mg/L	0.3225634	42.78%
Mg 279.077†	10897828.4	507.584	mg/L	17.5442	507.584	mg/L	17.5442	3.46%
QC value within limits for Mg 279.077 Recovery = 101.52%								
Mn 257.610†	415644.2	0.494214	mg/L	0.0320788	0.494214	mg/L	0.0320788	6.49%
QC value within limits for Mn 257.610 Recovery = 98.84%								
Mo 202.031†	325.2	-0.0032613	mg/L	0.00127643	-0.0032613	mg/L	0.00127643	39.14%
Na 330.237†	545.8	0.721350	mg/L	0.0107059	0.721350	mg/L	0.0107059	1.48%
Ni 231.604†	58202.8	0.954113	mg/L	0.0304610	0.954113	mg/L	0.0304610	3.19%
QC value within limits for Ni 231.604 Recovery = 95.41%								
Pb 220.353†	14114.7	0.985981	mg/L	0.0269436	0.985981	mg/L	0.0269436	2.73%
QC value within limits for Pb 220.353 Recovery = 98.60%								
Sb 206.836†	2445.1	1.03148	mg/L	0.026952	1.03148	mg/L	0.026952	2.61%
QC value within limits for Sb 206.836 Recovery = 103.15%								
Se 196.026†	1483.1	0.986473	mg/L	0.0253698	0.986473	mg/L	0.0253698	2.57%
QC value within limits for Se 196.026 Recovery = 98.65%								
Sn 189.927†	-66.8	-0.0066008	mg/L	0.00050399	-0.0066008	mg/L	0.00050399	7.64%
Ti 334.940†	5943.7	0.0066286	mg/L	0.00059615	0.0066286	mg/L	0.00059615	8.99%
Tl 190.801†	2323.5	0.949835	mg/L	0.0283421	0.949835	mg/L	0.0283421	2.98%
QC value within limits for Tl 190.801 Recovery = 94.98%								
V 290.880†	76725.6	0.475407	mg/L	0.0300628	0.475407	mg/L	0.0300628	6.32%
QC value within limits for V 290.880 Recovery = 95.08%								
Zn 206.200†	70658.6	0.966517	mg/L	0.0257909	0.966517	mg/L	0.0257909	2.67%
QC value within limits for Zn 206.200 Recovery = 96.65%								

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: 78793-001 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 113
Date Collected: 5/28/2014 11:34:03 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 2D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	666162.7	66.3	%	0.37				0.56%
Y 371.029	225859.2	67.8	%	0.22				0.33%
Ag 328.068†	-1595.7	-0.0064731	mg/L	0.00063244	-0.0064731	mg/L	0.00063244	9.77%
Al 308.215†	11983.0	0.339289	mg/L	0.0009871	0.339289	mg/L	0.0009871	0.29%
As 188.979†	7.8	0.0022490	mg/L	0.00141708	0.0022490	mg/L	0.00141708	63.01%
Ba 233.527†	10943.3	0.0685340	mg/L	0.00057471	0.0685340	mg/L	0.00057471	0.84%
Be 313.107†	1030.3	0.0000241	mg/L	0.00000645	0.0000241	mg/L	0.00000645	26.77%
Ca 315.887†	11081596.8	91.6534	mg/L	0.45310	91.6534	mg/L	0.45310	0.49%
Cd 228.802†	-51.5	-0.0021113	mg/L	0.00018916	-0.0021113	mg/L	0.00018916	8.96%
Co 228.616†	-37.2	-0.0029642	mg/L	0.00021320	-0.0029642	mg/L	0.00021320	7.19%
Cr 267.716†	47.7	-0.0009379	mg/L	0.00011682	-0.0009379	mg/L	0.00011682	12.46%
Cu 327.393†	2088.4	0.0144760	mg/L	0.00024850	0.0144760	mg/L	0.00024850	1.72%
Fe 273.955†	22275.1	0.909720	mg/L	0.0051747	0.909720	mg/L	0.0051747	0.57%
K 404.721†	17718.2	169.806	mg/L	1.6353	169.806	mg/L	1.6353	0.96%
Mg 279.077†	5473197.3	254.850	mg/L	1.1320	254.850	mg/L	1.1320	0.44%
Mn 257.610†	47622.0	0.0478074	mg/L	0.00025191	0.0478074	mg/L	0.00025191	0.53%
Mo 202.031†	219.7	0.0056784	mg/L	0.00035962	0.0056784	mg/L	0.00035962	6.33%
Na 330.237†	17458624.7	12477.0	mg/L	55.87	12477.0	mg/L	55.87	0.45%
Ni 231.604†	130.9	0.0000458	mg/L	0.00000548	0.0000458	mg/L	0.00000548	11.97%
Pb 220.353†	99.1	0.0048853	mg/L	0.00193355	0.0048853	mg/L	0.00193355	39.58%
Sb 206.836†	-1.1	-0.0003253	mg/L	0.00091299	-0.0003253	mg/L	0.00091299	280.67%
Se 196.026†	0.3	0.0067076	mg/L	0.00998610	0.0067076	mg/L	0.00998610	148.88%
Sn 189.927†	-60.8	-0.0070419	mg/L	0.00050596	-0.0070419	mg/L	0.00050596	7.18%
Ti 334.940†	14809.1	0.0181795	mg/L	0.00752735	0.0181795	mg/L	0.00752735	41.41%
Tl 190.801†	7.7	-0.0051909	mg/L	0.00027690	-0.0051909	mg/L	0.00027690	5.33%
V 290.880†	6111.9	0.0150214	mg/L	0.00024690	0.0150214	mg/L	0.00024690	1.64%
Zn 206.200†	3480.7	0.0467625	mg/L	0.00024426	0.0467625	mg/L	0.00024426	0.52%

Sequence No.: 13
Sample ID: 78793-001 MR 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 114
Date Collected: 5/28/2014 11:37:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 MR 2D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	645976.7	64.3	%	0.42				0.65%
Y 371.029	220259.1	66.1	%	0.28				0.42%
Ag 328.068†	-1613.8	-0.0065303	mg/L	0.00080232	-0.0065303	mg/L	0.00080232	12.29%
Al 308.215†	12802.2	0.365278	mg/L	0.0058321	0.365278	mg/L	0.0058321	1.60%
As 188.979†	6.8	0.0014570	mg/L	0.00276809	0.0014570	mg/L	0.00276809	189.99%
Ba 233.527†	11601.4	0.0727826	mg/L	0.00098264	0.0727826	mg/L	0.00098264	1.35%
Be 313.107†	1285.1	0.0001072	mg/L	0.00000727	0.0001072	mg/L	0.00000727	6.78%
Ca 315.887†	11668267.1	96.5168	mg/L	0.60553	96.5168	mg/L	0.60553	0.63%
Cd 228.802†	-65.1	-0.0023527	mg/L	0.00025921	-0.0023527	mg/L	0.00025921	11.02%
Co 228.616†	-36.9	-0.0029467	mg/L	0.00031760	-0.0029467	mg/L	0.00031760	10.78%
Cr 267.716†	62.9	-0.0007746	mg/L	0.00029422	-0.0007746	mg/L	0.00029422	37.98%
Cu 327.393†	2216.5	0.0154688	mg/L	0.00074185	0.0154688	mg/L	0.00074185	4.80%
Fe 273.955†	24269.7	0.993337	mg/L	0.0052591	0.993337	mg/L	0.0052591	0.53%
K 404.721†	19389.8	185.769	mg/L	1.4814	185.769	mg/L	1.4814	0.80%
Mg 279.077†	5725472.5	266.609	mg/L	1.5903	266.609	mg/L	1.5903	0.60%
Mn 257.610†	50451.7	0.0508760	mg/L	0.00034357	0.0508760	mg/L	0.00034357	0.68%
Mo 202.031†	243.0	0.0066216	mg/L	0.00043157	0.0066216	mg/L	0.00043157	6.52%
Na 330.237†	18645583.1	13325.3	mg/L	117.11	13325.3	mg/L	117.11	0.88%
Ni 231.604†	139.6	0.0001891	mg/L	0.00036335	0.0001891	mg/L	0.00036335	192.13%
Pb 220.353†	109.3	0.0055697	mg/L	0.00181200	0.0055697	mg/L	0.00181200	32.53%
Sb 206.836†	-5.2	-0.0020882	mg/L	0.00186814	-0.0020882	mg/L	0.00186814	89.46%
Se 196.026†	-7.1	0.0025077	mg/L	0.00628668	0.0025077	mg/L	0.00628668	250.69%
Sn 189.927†	-54.4	-0.0056753	mg/L	0.00033174	-0.0056753	mg/L	0.00033174	5.85%
Ti 334.940†	12305.3	0.0149173	mg/L	0.00006301	0.0149173	mg/L	0.00006301	0.42%
Tl 190.801†	4.9	-0.0067595	mg/L	0.00045726	-0.0067595	mg/L	0.00045726	6.76%
V 290.880†	6301.2	0.0151682	mg/L	0.00056853	0.0151682	mg/L	0.00056853	3.75%
Zn 206.200†	3543.1	0.0476275	mg/L	0.00028323	0.0476275	mg/L	0.00028323	0.59%

Sequence No.: 14
Sample ID: 78793-001 MS 1 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 115
Date Collected: 5/28/2014 11:41:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 MS 1 2D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	642556.4	63.9	%	0.04				0.06%
Y 371.029	218783.7	65.6	%	0.21				0.33%
Ag 328.068†	11151.6	0.0518221	mg/L	0.00019085	0.0518221	mg/L	0.00019085	0.37%
Al 308.215†	85599.1	2.67288	mg/L	0.005027	2.67288	mg/L	0.005027	0.19%
As 188.979†	416.6	0.249700	mg/L	0.0019716	0.249700	mg/L	0.0019716	0.79%
Ba 233.527†	45099.8	0.289132	mg/L	0.0004997	0.289132	mg/L	0.0004997	0.17%
Be 313.107†	677690.9	0.217540	mg/L	0.0003304	0.217540	mg/L	0.0003304	0.15%
Ca 315.887†	14017305.2	115.985	mg/L	0.2442	115.985	mg/L	0.2442	0.21%
Cd 228.802†	15771.9	0.255064	mg/L	0.0004425	0.255064	mg/L	0.0004425	0.17%
Co 228.616†	10154.6	0.193420	mg/L	0.0005707	0.193420	mg/L	0.0005707	0.30%
Cr 267.716†	20239.5	0.207732	mg/L	0.0000394	0.207732	mg/L	0.0000394	0.02%
Cu 327.393†	36174.2	0.282896	mg/L	0.0013119	0.282896	mg/L	0.0013119	0.46%
Fe 273.955†	72624.6	3.02048	mg/L	0.004302	3.02048	mg/L	0.004302	0.14%
K 404.721†	23798.4	227.868	mg/L	2.2650	227.868	mg/L	2.2650	0.99%
Mg 279.077†	6076266.9	282.963	mg/L	0.3267	282.963	mg/L	0.3267	0.12%
Mn 257.610†	222409.5	0.263300	mg/L	0.0006071	0.263300	mg/L	0.0006071	0.23%
Mo 202.031†	4935.4	0.220285	mg/L	0.0002189	0.220285	mg/L	0.0002189	0.10%
Na 330.237†	18650962.7	13329.1	mg/L	28.79	13329.1	mg/L	28.79	0.22%
Ni 231.604†	12108.9	0.197081	mg/L	0.0007416	0.197081	mg/L	0.0007416	0.38%
Pb 220.353†	3116.4	0.192533	mg/L	0.0017531	0.192533	mg/L	0.0017531	0.91%
Sb 206.836†	607.1	0.254525	mg/L	0.0003557	0.254525	mg/L	0.0003557	0.14%
Se 196.026†	384.2	0.239447	mg/L	0.0039457	0.239447	mg/L	0.0039457	1.65%
Sn 189.927†	988.1	0.180304	mg/L	0.0006773	0.180304	mg/L	0.0006773	0.38%
Ti 334.940†	190628.5	0.247259	mg/L	0.0010794	0.247259	mg/L	0.0010794	0.44%
Tl 190.801†	412.7	0.169745	mg/L	0.0017942	0.169745	mg/L	0.0017942	1.06%
V 290.880†	37396.9	0.230444	mg/L	0.0007247	0.230444	mg/L	0.0007247	0.31%
Zn 206.200†	17247.5	0.238321	mg/L	0.0004514	0.238321	mg/L	0.0004514	0.19%

Sequence No.: 15
Sample ID: 78793-001 MS 2 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 116
Date Collected: 5/28/2014 11:44:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 MS 2 2D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	656480.6	65.3	%	0.46				0.71%
Y 371.029	223103.4	66.9	%	0.30				0.45%
Ag 328.068†	10913.6	0.0507201	mg/L	0.00043905	0.0507201	mg/L	0.00043905	0.87%
Al 308.215†	83027.1	2.59129	mg/L	0.014822	2.59129	mg/L	0.014822	0.57%
As 188.979†	405.9	0.243338	mg/L	0.0037552	0.243338	mg/L	0.0037552	1.54%
Ba 233.527†	44348.8	0.284283	mg/L	0.0005359	0.284283	mg/L	0.0005359	0.19%
Be 313.107†	673346.2	0.216145	mg/L	0.0001578	0.216145	mg/L	0.0001578	0.07%
Ca 315.887†	13669454.9	113.101	mg/L	0.2342	113.101	mg/L	0.2342	0.21%
Cd 228.802†	15465.8	0.250100	mg/L	0.0017867	0.250100	mg/L	0.0017867	0.71%
Co 228.616†	10067.2	0.191737	mg/L	0.0011577	0.191737	mg/L	0.0011577	0.60%
Cr 267.716†	19972.2	0.204963	mg/L	0.0000428	0.204963	mg/L	0.0000428	0.02%
Cu 327.393†	35624.6	0.278579	mg/L	0.0005157	0.278579	mg/L	0.0005157	0.19%
Fe 273.955†	70391.7	2.92687	mg/L	0.004193	2.92687	mg/L	0.004193	0.14%
K 404.721†	22605.6	216.478	mg/L	2.3775	216.478	mg/L	2.3775	1.10%
Mg 279.077†	5944664.7	276.829	mg/L	0.4685	276.829	mg/L	0.4685	0.17%
Mn 257.610†	218361.0	0.258512	mg/L	0.0007138	0.258512	mg/L	0.0007138	0.28%
Mo 202.031†	4846.4	0.216295	mg/L	0.0009374	0.216295	mg/L	0.0009374	0.43%
Na 330.237†	18075969.4	12918.2	mg/L	39.22	12918.2	mg/L	39.22	0.30%
Ni 231.604†	11932.8	0.194185	mg/L	0.0008195	0.194185	mg/L	0.0008195	0.42%
Pb 220.353†	3085.3	0.190554	mg/L	0.0005714	0.190554	mg/L	0.0005714	0.30%
Sb 206.836†	593.8	0.248985	mg/L	0.0005688	0.248985	mg/L	0.0005688	0.23%
Se 196.026†	372.3	0.232116	mg/L	0.0009702	0.232116	mg/L	0.0009702	0.42%
Sn 189.927†	983.8	0.179424	mg/L	0.0020285	0.179424	mg/L	0.0020285	1.13%
Ti 334.940†	185876.1	0.241067	mg/L	0.0003691	0.241067	mg/L	0.0003691	0.15%
Tl 190.801†	413.3	0.170109	mg/L	0.0031975	0.170109	mg/L	0.0031975	1.88%
V 290.880†	37015.7	0.228398	mg/L	0.0003881	0.228398	mg/L	0.0003881	0.17%
Zn 206.200†	17057.0	0.235675	mg/L	0.0016718	0.235675	mg/L	0.0016718	0.71%

Sequence No.: 16
Sample ID: 78793-001 PS 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 117
Date Collected: 5/28/2014 11:48:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 PS 2D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	667249.6	66.4	%	0.54				0.81%
Y 371.029	226219.4	67.9	%	0.66				0.98%
Ag 328.068†	20017.8	0.0923945	mg/L	0.00006422	0.0923945	mg/L	0.00006422	0.07%
Al 308.215†	158456.5	4.98237	mg/L	0.001786	4.98237	mg/L	0.001786	0.04%
As 188.979†	839.6	0.506198	mg/L	0.0062195	0.506198	mg/L	0.0062195	1.23%
Ba 233.527†	80202.1	0.515844	mg/L	0.0016643	0.515844	mg/L	0.0016643	0.32%
Be 313.107†	1406207.8	0.451729	mg/L	0.0001394	0.451729	mg/L	0.0001394	0.03%
Ca 315.887†	15628117.7	129.333	mg/L	2.2169	129.333	mg/L	2.2169	1.71%
Cd 228.802†	32365.4	0.524811	mg/L	0.0050360	0.524811	mg/L	0.0050360	0.96%
Co 228.616†	21119.9	0.404672	mg/L	0.0048845	0.404672	mg/L	0.0048845	1.21%
Cr 267.716†	42272.0	0.435326	mg/L	0.0005657	0.435326	mg/L	0.0005657	0.13%
Cu 327.393†	70413.0	0.552562	mg/L	0.0018423	0.552562	mg/L	0.0018423	0.33%
Fe 273.955†	121117.6	5.05341	mg/L	0.016122	5.05341	mg/L	0.016122	0.32%
K 404.721†	26092.0	249.770	mg/L	1.9425	249.770	mg/L	1.9425	0.78%
Mg 279.077†	6099708.9	284.058	mg/L	4.8575	284.058	mg/L	4.8575	1.71%
Mn 257.610†	399673.1	0.482861	mg/L	0.0009812	0.482861	mg/L	0.0009812	0.20%
Mo 202.031†	9687.4	0.436817	mg/L	0.0057322	0.436817	mg/L	0.0057322	1.31%
Na 330.237†	17111091.2	12228.6	mg/L	186.38	12228.6	mg/L	186.38	1.52%
Ni 231.604†	25035.0	0.409696	mg/L	0.0054838	0.409696	mg/L	0.0054838	1.34%
Pb 220.353†	6446.3	0.399372	mg/L	0.0039942	0.399372	mg/L	0.0039942	1.00%
Sb 206.836†	1236.9	0.518524	mg/L	0.0100970	0.518524	mg/L	0.0100970	1.95%
Se 196.026†	804.5	0.493525	mg/L	0.0090966	0.493525	mg/L	0.0090966	1.84%
Sn 189.927†	2140.7	0.385580	mg/L	0.0046100	0.385580	mg/L	0.0046100	1.20%
Ti 334.940†	372778.4	0.484586	mg/L	0.0016199	0.484586	mg/L	0.0016199	0.33%
Tl 190.801†	857.6	0.362591	mg/L	0.0030680	0.362591	mg/L	0.0030680	0.85%
V 290.880†	70056.5	0.458151	mg/L	0.0011888	0.458151	mg/L	0.0011888	0.26%
Zn 206.200†	32251.1	0.447109	mg/L	0.0052182	0.447109	mg/L	0.0052182	1.17%

Sequence No.: 17
Sample ID: 78793-001 SD 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 118
Date Collected: 5/28/2014 11:52:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 SD 2D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	830475.1	82.6	%	0.44				0.53%
Y 371.029	266211.9	79.9	%	0.07				0.09%
Ag 328.068†	832.9	0.0042568	mg/L	0.00063842	0.0042568	mg/L	0.00063842	15.00%
Al 308.215†	4180.9	0.0916949	mg/L	0.00403196	0.0916949	mg/L	0.00403196	4.40%
As 188.979†	5.2	0.0030224	mg/L	0.00110811	0.0030224	mg/L	0.00110811	36.66%
Ba 233.527†	2118.4	0.0115459	mg/L	0.00009584	0.0115459	mg/L	0.00009584	0.83%
Be 313.107†	-327.6	-0.0004068	mg/L	0.00005344	-0.0004068	mg/L	0.00005344	13.14%
Ca 315.887†	2619504.1	21.5033	mg/L	0.11124	21.5033	mg/L	0.11124	0.52%
Cd 228.802†	62.7	0.0000493	mg/L	0.00029931	0.0000493	mg/L	0.00029931	606.91%
Co 228.616†	31.2	-0.0016383	mg/L	0.00011913	-0.0016383	mg/L	0.00011913	7.27%
Cr 267.716†	161.1	0.0001764	mg/L	0.00007933	0.0001764	mg/L	0.00007933	44.98%
Cu 327.393†	896.3	0.0053516	mg/L	0.00058350	0.0053516	mg/L	0.00058350	10.90%
Fe 273.955†	4549.2	0.166609	mg/L	0.0008342	0.166609	mg/L	0.0008342	0.50%
K 404.721†	2418.4	23.7049	mg/L	1.49361	23.7049	mg/L	1.49361	6.30%
Mg 279.077†	1355480.6	62.9058	mg/L	0.30182	62.9058	mg/L	0.30182	0.48%
Mn 257.610†	10501.1	0.0089522	mg/L	0.00001355	0.0089522	mg/L	0.00001355	0.15%
Mo 202.031†	77.2	0.0009259	mg/L	0.00024910	0.0009259	mg/L	0.00024910	26.90%
Na 330.237†	4800343.3	3430.86	mg/L	16.185	3430.86	mg/L	16.185	0.47%
Ni 231.604†	109.8	-0.0003083	mg/L	0.00013899	-0.0003083	mg/L	0.00013899	45.08%
Pb 220.353†	7.1	-0.0013865	mg/L	0.00124829	-0.0013865	mg/L	0.00124829	90.03%
Sb 206.836†	7.9	0.0044774	mg/L	0.00097617	0.0044774	mg/L	0.00097617	21.80%
Se 196.026†	2.2	0.0038639	mg/L	0.00158935	0.0038639	mg/L	0.00158935	41.13%
Sn 189.927†	-5.5	-0.0008036	mg/L	0.00026587	-0.0008036	mg/L	0.00026587	33.09%
Ti 334.940†	2390.0	0.0019984	mg/L	0.00002976	0.0019984	mg/L	0.00002976	1.49%
Tl 190.801†	9.8	0.0006656	mg/L	0.00009926	0.0006656	mg/L	0.00009926	14.91%
V 290.880†	4567.5	0.0233858	mg/L	0.00113763	0.0233858	mg/L	0.00113763	4.86%
Zn 206.200†	965.7	0.0117696	mg/L	0.00011002	0.0117696	mg/L	0.00011002	0.93%

Sequence No.: 18
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/28/2014 11:55:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	963332.8	95.8	%	0.81				0.85%
Y 371.029	306834.4	92.0	%	0.79				0.86%
Ag 328.068†	21344.9	0.0981131	mg/L	0.00234200	0.0981131	mg/L	0.00234200	2.39%
QC value within limits for Ag 328.068 Recovery = 98.11%								
Al 308.215†	161010.0	5.06257	mg/L	0.092269	5.06257	mg/L	0.092269	1.82%
QC value within limits for Al 308.215 Recovery = 101.25%								
As 188.979†	821.2	0.497946	mg/L	0.0075809	0.497946	mg/L	0.0075809	1.52%
QC value within limits for As 188.979 Recovery = 99.59%								
Ba 233.527†	76979.6	0.495030	mg/L	0.0083984	0.495030	mg/L	0.0083984	1.70%
QC value within limits for Ba 233.527 Recovery = 99.01%								
Be 313.107†	1539795.5	0.494686	mg/L	0.0005138	0.494686	mg/L	0.0005138	0.10%
QC value within limits for Be 313.107 Recovery = 98.94%								
Ca 315.887†	6032008.8	49.7803	mg/L	0.13208	49.7803	mg/L	0.13208	0.27%
QC value within limits for Ca 315.887 Recovery = 99.56%								
Cd 228.802†	31033.9	0.503485	mg/L	0.0021912	0.503485	mg/L	0.0021912	0.44%
QC value within limits for Cd 228.802 Recovery = 100.70%								
Co 228.616†	26070.3	0.500079	mg/L	0.0019747	0.500079	mg/L	0.0019747	0.39%
QC value within limits for Co 228.616 Recovery = 100.02%								
Cr 267.716†	48675.7	0.501394	mg/L	0.0092959	0.501394	mg/L	0.0092959	1.85%
QC value within limits for Cr 267.716 Recovery = 100.28%								
Cu 327.393†	62416.4	0.489882	mg/L	0.0076792	0.489882	mg/L	0.0076792	1.57%
QC value within limits for Cu 327.393 Recovery = 97.98%								
Fe 273.955†	117221.3	4.89007	mg/L	0.077258	4.89007	mg/L	0.077258	1.58%
QC value within limits for Fe 273.955 Recovery = 97.80%								
K 404.721†	4883.0	47.2401	mg/L	1.57692	47.2401	mg/L	1.57692	3.34%
QC value within limits for K 404.721 Recovery = 94.48%								
Mg 279.077†	1102207.9	51.1048	mg/L	0.10333	51.1048	mg/L	0.10333	0.20%
QC value within limits for Mg 279.077 Recovery = 102.21%								
Mn 257.610†	396801.6	0.487962	mg/L	0.0083106	0.487962	mg/L	0.0083106	1.70%
QC value within limits for Mn 257.610 Recovery = 97.59%								
Mo 202.031†	10828.1	0.490875	mg/L	0.0029238	0.490875	mg/L	0.0029238	0.60%
QC value within limits for Mo 202.031 Recovery = 98.18%								
Na 330.237†	69841.6	50.2431	mg/L	0.29116	50.2431	mg/L	0.29116	0.58%
QC value within limits for Na 330.237 Recovery = 100.49%								
Ni 231.604†	30718.7	0.503134	mg/L	0.0020152	0.503134	mg/L	0.0020152	0.40%
QC value within limits for Ni 231.604 Recovery = 100.63%								
Pb 220.353†	8130.4	0.502934	mg/L	0.0037796	0.502934	mg/L	0.0037796	0.75%
QC value within limits for Pb 220.353 Recovery = 100.59%								
Sb 206.836†	1187.5	0.499220	mg/L	0.0052751	0.499220	mg/L	0.0052751	1.06%
QC value within limits for Sb 206.836 Recovery = 99.84%								
Se 196.026†	818.8	0.497655	mg/L	0.0057614	0.497655	mg/L	0.0057614	1.16%
QC value within limits for Se 196.026 Recovery = 99.53%								
Sn 189.927†	2838.3	0.505430	mg/L	0.0040103	0.505430	mg/L	0.0040103	0.79%
QC value within limits for Sn 189.927 Recovery = 101.09%								
Ti 334.940†	376728.0	0.489732	mg/L	0.0085748	0.489732	mg/L	0.0085748	1.75%
QC value within limits for Ti 334.940 Recovery = 97.95%								
Tl 190.801†	1168.8	0.502724	mg/L	0.0039127	0.502724	mg/L	0.0039127	0.78%
QC value within limits for Tl 190.801 Recovery = 100.54%								
V 290.880†	71317.2	0.490165	mg/L	0.0092700	0.490165	mg/L	0.0092700	1.89%
QC value within limits for V 290.880 Recovery = 98.03%								
Zn 206.200†	36061.7	0.500173	mg/L	0.0021982	0.500173	mg/L	0.0021982	0.44%
QC value within limits for Zn 206.200 Recovery = 100.03%								

All analyte(s) passed QC.

Sequence No.: 19
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/28/2014 11:59:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1006850.5	100	%	0.7				0.70%
Y 371.029	327951.8	98.4	%	0.67				0.68%
Ag 328.068†	4111.7	0.0191286	mg/L	0.00013392	0.0191286	mg/L	0.00013392	0.70%
QC value within limits for Ag 328.068 Recovery = 95.64%								
Al 308.215†	8068.4	0.214844	mg/L	0.0032301	0.214844	mg/L	0.0032301	1.50%
QC value within limits for Al 308.215 Recovery = 107.42%								
As 188.979†	28.3	0.0177603	mg/L	0.00020775	0.0177603	mg/L	0.00020775	1.17%
QC value within limits for As 188.979 Recovery = 88.80%								
Ba 233.527†	7590.9	0.0468987	mg/L	0.00015395	0.0468987	mg/L	0.00015395	0.33%
QC value within limits for Ba 233.527 Recovery = 93.80%								
Be 313.107†	34979.3	0.0109316	mg/L	0.00007240	0.0109316	mg/L	0.00007240	0.66%
QC value within limits for Be 313.107 Recovery = 91.10%								
Ca 315.887†	584906.8	4.63593	mg/L	0.020556	4.63593	mg/L	0.020556	0.44%
QC value within limits for Ca 315.887 Recovery = 92.72%								
Cd 228.802†	699.1	0.0104674	mg/L	0.00023268	0.0104674	mg/L	0.00023268	2.22%
QC value within limits for Cd 228.802 Recovery = 87.23%								
Co 228.616†	999.1	0.0169530	mg/L	0.00004843	0.0169530	mg/L	0.00004843	0.29%
QC value within limits for Co 228.616 Recovery = 84.76%								
Cr 267.716†	4716.3	0.0470785	mg/L	0.00060044	0.0470785	mg/L	0.00060044	1.28%
QC value within limits for Cr 267.716 Recovery = 94.16%								
Cu 327.393†	6018.1	0.0457523	mg/L	0.00111797	0.0457523	mg/L	0.00111797	2.44%
QC value within limits for Cu 327.393 Recovery = 91.50%								
Fe 273.955†	7066.2	0.272128	mg/L	0.0003830	0.272128	mg/L	0.0003830	0.14%
QC value within limits for Fe 273.955 Recovery = 90.71%								
K 404.721†	368.8	4.13341	mg/L	1.279338	4.13341	mg/L	1.279338	30.95%
QC value within limits for K 404.721 Recovery = 82.67%								
Mg 279.077†	107392.3	4.72747	mg/L	0.026988	4.72747	mg/L	0.026988	0.57%
QC value within limits for Mg 279.077 Recovery = 94.55%								
Mn 257.610†	30892.6	0.0363696	mg/L	0.00009834	0.0363696	mg/L	0.00009834	0.27%
QC value within limits for Mn 257.610 Recovery = 90.92%								
Mo 202.031†	438.7	0.0178367	mg/L	0.00019081	0.0178367	mg/L	0.00019081	1.07%
QC value within limits for Mo 202.031 Recovery = 89.18%								
Na 330.237†	6400.5	4.90541	mg/L	0.013397	4.90541	mg/L	0.013397	0.27%
QC value within limits for Na 330.237 Recovery = 98.11%								
Ni 231.604†	2927.9	0.0460092	mg/L	0.00008662	0.0460092	mg/L	0.00008662	0.19%
QC value within limits for Ni 231.604 Recovery = 92.02%								
Pb 220.353†	164.9	0.0083512	mg/L	0.00049846	0.0083512	mg/L	0.00049846	5.97%
QC value less than the lower limit for Pb 220.353 Recovery = 69.59%								
Sb 206.836†	39.2	0.0179289	mg/L	0.00387002	0.0179289	mg/L	0.00387002	21.59%
QC value within limits for Sb 206.836 Recovery = 89.64%								
Se 196.026†	63.7	0.0398516	mg/L	0.00058350	0.0398516	mg/L	0.00058350	1.46%
QC value within limits for Se 196.026 Recovery = 99.63%								
Sn 189.927†	243.3	0.0424581	mg/L	0.00045826	0.0424581	mg/L	0.00045826	1.08%
QC value within limits for Sn 189.927 Recovery = 84.92%								
Ti 334.940†	35573.9	0.0452345	mg/L	0.00029881	0.0452345	mg/L	0.00029881	0.66%
QC value within limits for Ti 334.940 Recovery = 90.47%								
Tl 190.801†	43.5	0.0170356	mg/L	0.00085420	0.0170356	mg/L	0.00085420	5.01%
QC value within limits for Tl 190.801 Recovery = 85.18%								
V 290.880†	7009.5	0.0462199	mg/L	0.00059054	0.0462199	mg/L	0.00059054	1.28%
QC value within limits for V 290.880 Recovery = 92.44%								
Zn 206.200†	3387.1	0.0454831	mg/L	0.00017234	0.0454831	mg/L	0.00017234	0.38%
QC value within limits for Zn 206.200 Recovery = 90.97%								

QC Failed. Continue with analysis.

Sequence No.: 20
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/28/2014 12:02:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1007206.5	100	%	0.4				0.43%
Y 371.029	334948.7	100	%	0.4				0.37%
Ag 328.068†	-274.8	-0.0008862	mg/L	0.00028189	-0.0008862	mg/L	0.00028189	31.81%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	9.3	-0.0406899	mg/L	0.00102795	-0.0406899	mg/L	0.00102795	2.53%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-4.2	-0.0018663	mg/L	0.00090041	-0.0018663	mg/L	0.00090041	48.25%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	17.5	-0.0020203	mg/L	0.00002960	-0.0020203	mg/L	0.00002960	1.46%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	165.7	-0.0002470	mg/L	0.00002136	-0.0002470	mg/L	0.00002136	8.65%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	127.7	-0.211182	mg/L	0.0045754	-0.211182	mg/L	0.0045754	2.17%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	22.0	-0.0005182	mg/L	0.00032171	-0.0005182	mg/L	0.00032171	62.09%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-10.3	-0.0024424	mg/L	0.00014071	-0.0024424	mg/L	0.00014071	5.76%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-19.8	-0.0017035	mg/L	0.00001646	-0.0017035	mg/L	0.00001646	0.97%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-96.4	-0.0023868	mg/L	0.00077194	-0.0023868	mg/L	0.00077194	32.34%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	138.1	-0.0183147	mg/L	0.00044784	-0.0183147	mg/L	0.00044784	2.45%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	9.0	0.696869	mg/L	0.3913031	0.696869	mg/L	0.3913031	56.15%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	184.0	-0.270199	mg/L	0.0006563	-0.270199	mg/L	0.0006563	0.24%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-10.8	-0.0017240	mg/L	0.00000335	-0.0017240	mg/L	0.00000335	0.19%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	6.5	-0.0017587	mg/L	0.00018844	-0.0017587	mg/L	0.00018844	10.71%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	102.0	0.404187	mg/L	0.0863577	0.404187	mg/L	0.0863577	21.37%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	30.4	-0.0016171	mg/L	0.00026661	-0.0016171	mg/L	0.00026661	16.49%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-9.3	-0.0025817	mg/L	0.00015408	-0.0025817	mg/L	0.00015408	5.97%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-4.0	-0.0001859	mg/L	0.00354479	-0.0001859	mg/L	0.00354479	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	10.3	0.0074993	mg/L	0.00131169	0.0074993	mg/L	0.00131169	17.49%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-3.4	-0.0015815	mg/L	0.00076639	-0.0015815	mg/L	0.00076639	48.46%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-28.5	-0.0011527	mg/L	0.00006296	-0.0011527	mg/L	0.00006296	5.46%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	1.5	-0.0012354	mg/L	0.00078187	-0.0012354	mg/L	0.00078187	63.29%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-37.8	-0.0024401	mg/L	0.00095404	-0.0024401	mg/L	0.00095404	39.10%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	12.6	-0.0014939	mg/L	0.00008587	-0.0014939	mg/L	0.00008587	5.75%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 21
Sample ID: 78787-003 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 119
Date Collected: 5/28/2014 12:06:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-003 2D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1088053.2	108	%	0.5				0.47%
Y 371.029	539762.7	162	%	0.9				0.53%
Ag 328.068†	-6404.4	-0.0073322	mg/L	0.00033270	-0.0073322	mg/L	0.00033270	4.54%
Al 308.215†	4756494.1	150.966	mg/L	1.0677	150.966	mg/L	1.0677	0.71%
As 188.979†	5145.4	3.14373	mg/L	0.025927	3.14373	mg/L	0.025927	0.82%
Ba 233.527†	243709.3	1.56120	mg/L	0.001018	1.56120	mg/L	0.001018	0.07%
Be 313.107†	41387.8	0.0107066	mg/L	0.00002958	0.0107066	mg/L	0.00002958	0.28%
Ca 315.887†	5999818.8	49.0766	mg/L	0.42343	49.0766	mg/L	0.42343	0.86%
Cd 228.802†	1953.4	0.0271929	mg/L	0.00095824	0.0271929	mg/L	0.00095824	3.52%
Co 228.616†	13990.7	0.254003	mg/L	0.0004197	0.254003	mg/L	0.0004197	0.17%
Cr 267.716†	62581.4	0.644855	mg/L	0.0006765	0.644855	mg/L	0.0006765	0.10%
Cu 327.393†	73751.1	0.574702	mg/L	0.0002294	0.574702	mg/L	0.0002294	0.04%
Fe 273.955†	7060105.2	295.951	mg/L	3.0926	295.951	mg/L	3.0926	1.04%
K 404.721†	4810.5	46.5482	mg/L	0.23944	46.5482	mg/L	0.23944	0.51%
Mg 279.077†	3073644.5	142.838	mg/L	0.1715	142.838	mg/L	0.1715	0.12%
Mn 257.610†	6679289.3	8.26510	mg/L	0.076046	8.26510	mg/L	0.076046	0.92%
Mo 202.031†	1173.6	0.0471089	mg/L	0.00032309	0.0471089	mg/L	0.00032309	0.69%
Na 330.237†	24318.7	17.7105	mg/L	0.23098	17.7105	mg/L	0.23098	1.30%
Ni 231.604†	70089.9	1.14945	mg/L	0.000442	1.14945	mg/L	0.000442	0.04%
Pb 220.353†	4453.7	0.304597	mg/L	0.0017365	0.304597	mg/L	0.0017365	0.57%
Sb 206.836†	-117.7	-0.0127211	mg/L	0.00086065	-0.0127211	mg/L	0.00086065	6.77%
Se 196.026†	-165.2	0.0052470	mg/L	0.00005519	0.0052470	mg/L	0.00005519	1.05%
Sn 189.927†	28.9	0.0037427	mg/L	0.00164674	0.0037427	mg/L	0.00164674	44.00%
Ti 334.940†	4902989.3	6.38710	mg/L	0.047172	6.38710	mg/L	0.047172	0.74%
Tl 190.801†	-57.2	-0.0030017	mg/L	0.00094723	-0.0030017	mg/L	0.00094723	31.56%
V 290.880†	61485.8	0.403763	mg/L	0.0010191	0.403763	mg/L	0.0010191	0.25%
Zn 206.200†	94238.1	1.29666	mg/L	0.001294	1.29666	mg/L	0.001294	0.10%

Sequence No.: 22
Sample ID: 78787-011 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 120
Date Collected: 5/28/2014 12:09:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-011 2D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1118522.4	111	%	0.1				0.06%
Y 371.029	691687.7	207	%	0.7				0.35%
Ag 328.068†	-10126.1	-0.0104908	mg/L	0.00109576	-0.0104908	mg/L	0.00109576	10.44%
Al 308.215†	7325326.6	232.521	mg/L	0.1838	232.521	mg/L	0.1838	0.08%
As 188.979†	8740.4	5.33542	mg/L	0.052915	5.33542	mg/L	0.052915	0.99%
Ba 233.527†	860778.5	5.54105	mg/L	0.009223	5.54105	mg/L	0.009223	0.17%
Be 313.107†	61003.7	0.0153072	mg/L	0.00009536	0.0153072	mg/L	0.00009536	0.62%
Ca 315.887†	27271694.2	225.114	mg/L	0.1864	225.114	mg/L	0.1864	0.08%
Cd 228.802†	3403.2	0.0479333	mg/L	0.00185998	0.0479333	mg/L	0.00185998	3.88%
Co 228.616†	37418.1	0.694846	mg/L	0.0036807	0.694846	mg/L	0.0036807	0.53%
Cr 267.716†	69070.3	0.715628	mg/L	0.0017338	0.715628	mg/L	0.0017338	0.24%
Cu 327.393†	113909.0	0.887411	mg/L	0.0002296	0.887411	mg/L	0.0002296	0.03%
Fe 273.955†	11406328.9	478.154	mg/L	0.6057	478.154	mg/L	0.6057	0.13%
K 404.721†	8255.4	79.4443	mg/L	0.01349	79.4443	mg/L	0.01349	0.02%
Mg 279.077†	7784434.8	362.367	mg/L	0.2352	362.367	mg/L	0.2352	0.06%
Mn 257.610†	16013242.8	19.8168	mg/L	0.00324	19.8168	mg/L	0.00324	0.02%
Mo 202.031†	590.7	0.0139928	mg/L	0.00074834	0.0139928	mg/L	0.00074834	5.35%
Na 330.237†	10476.5	7.81825	mg/L	0.040346	7.81825	mg/L	0.040346	0.52%
Ni 231.604†	259651.0	4.26371	mg/L	0.001394	4.26371	mg/L	0.001394	0.03%
Pb 220.353†	70307.4	4.38742	mg/L	0.023080	4.38742	mg/L	0.023080	0.53%
Sb 206.836†	-169.6	-0.0132865	mg/L	0.00088166	-0.0132865	mg/L	0.00088166	6.64%
Se 196.026†	-274.5	0.0006636	mg/L	0.01533067	0.0006636	mg/L	0.01533067	>999.9%
Sn 189.927†	91.8	0.0195707	mg/L	0.00117819	0.0195707	mg/L	0.00117819	6.02%
Ti 334.940†	8539088.7	11.1247	mg/L	0.03153	11.1247	mg/L	0.03153	0.28%
Tl 190.801†	-106.6	-0.0064257	mg/L	0.00228462	-0.0064257	mg/L	0.00228462	35.55%
V 290.880†	111698.1	0.728640	mg/L	0.0001012	0.728640	mg/L	0.0001012	0.01%
Zn 206.200†	179307.1	2.47295	mg/L	0.003671	2.47295	mg/L	0.003671	0.15%

Sequence No.: 23
Sample ID: 78787-011 4D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 121
Date Collected: 5/28/2014 12:14:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-011 4D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1055451.8	105	%	0.3				0.30%
Y 371.029	514062.0	154	%	0.7				0.43%
Ag 328.068†	-5730.6	-0.0052147	mg/L	0.00000001	-0.0052147	mg/L	0.00000001	0.00%
Al 308.215†	4102142.4	130.193	mg/L	0.2292	130.193	mg/L	0.2292	0.18%
As 188.979†	4837.0	2.95418	mg/L	0.001222	2.95418	mg/L	0.001222	0.04%
Ba 233.527†	479268.8	3.08377	mg/L	0.005960	3.08377	mg/L	0.005960	0.19%
Be 313.107†	33452.0	0.0082068	mg/L	0.00003076	0.0082068	mg/L	0.00003076	0.37%
Ca 315.887†	15354399.9	126.638	mg/L	0.1245	126.638	mg/L	0.1245	0.10%
Cd 228.802†	1882.1	0.0259654	mg/L	0.00074513	0.0259654	mg/L	0.00074513	2.87%
Co 228.616†	21256.3	0.393924	mg/L	0.0016632	0.393924	mg/L	0.0016632	0.42%
Cr 267.716†	38761.2	0.401011	mg/L	0.0011027	0.401011	mg/L	0.0011027	0.27%
Cu 327.393†	62519.0	0.486222	mg/L	0.0009680	0.486222	mg/L	0.0009680	0.20%
Fe 273.955†	6643231.1	278.475	mg/L	0.6106	278.475	mg/L	0.6106	0.22%
K 404.721†	4431.4	42.9272	mg/L	0.22013	42.9272	mg/L	0.22013	0.51%
Mg 279.077†	4394915.7	204.457	mg/L	0.4982	204.457	mg/L	0.4982	0.24%
Mn 257.610†	9104704.9	11.2666	mg/L	0.02042	11.2666	mg/L	0.02042	0.18%
Mo 202.031†	404.8	0.0102886	mg/L	0.00033999	0.0102886	mg/L	0.00033999	3.30%
Na 330.237†	5610.0	4.34044	mg/L	0.088766	4.34044	mg/L	0.088766	2.05%
Ni 231.604†	146099.5	2.39817	mg/L	0.000450	2.39817	mg/L	0.000450	0.02%
Pb 220.353†	40248.5	2.51011	mg/L	0.015650	2.51011	mg/L	0.015650	0.62%
Sb 206.836†	-104.6	-0.0093210	mg/L	0.00024109	-0.0093210	mg/L	0.00024109	2.59%
Se 196.026†	-157.6	0.0021760	mg/L	0.00117563	0.0021760	mg/L	0.00117563	54.03%
Sn 189.927†	33.3	0.0073365	mg/L	0.00063746	0.0073365	mg/L	0.00063746	8.69%
Ti 334.940†	4791891.7	6.24235	mg/L	0.005738	6.24235	mg/L	0.005738	0.09%
Tl 190.801†	-62.9	-0.0059635	mg/L	0.00371564	-0.0059635	mg/L	0.00371564	62.31%
V 290.880†	63644.8	0.414195	mg/L	0.0006637	0.414195	mg/L	0.0006637	0.16%
Zn 206.200†	100665.6	1.38723	mg/L	0.002307	1.38723	mg/L	0.002307	0.17%

Sequence No.: 24
Sample ID: 78787-016 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 122
Date Collected: 5/28/2014 12:17:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-016 2D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1196092.8	119	%	0.2				0.18%
Y 371.029	826560.3	248	%	0.5				0.21%
Ag 328.068†	-13977.4	-0.0179265	mg/L	0.00118922	-0.0179265	mg/L	0.00118922	6.63%
Al 308.215†	10969913.4	348.229	mg/L	0.3489	348.229	mg/L	0.3489	0.10%
As 188.979†	10730.8	6.54866	mg/L	0.039629	6.54866	mg/L	0.039629	0.61%
Ba 233.527†	789128.2	5.07301	mg/L	0.004660	5.07301	mg/L	0.004660	0.09%
Be 313.107†	82938.4	0.0226276	mg/L	0.00010927	0.0226276	mg/L	0.00010927	0.48%
Ca 315.887†	39262045.0	324.294	mg/L	0.4812	324.294	mg/L	0.4812	0.15%
Cd 228.802†	4129.2	0.0575439	mg/L	0.00122510	0.0575439	mg/L	0.00122510	2.13%
Co 228.616†	40041.4	0.746842	mg/L	0.0046812	0.746842	mg/L	0.0046812	0.63%
Cr 267.716†	108535.5	1.12297	mg/L	0.003638	1.12297	mg/L	0.003638	0.32%
Cu 327.393†	220662.3	1.72696	mg/L	0.001505	1.72696	mg/L	0.001505	0.09%
Fe 273.955†	14629422.2	613.273	mg/L	2.3101	613.273	mg/L	2.3101	0.38%
K 404.721†	12043.0	115.613	mg/L	1.1344	115.613	mg/L	1.1344	0.98%
Mg 279.077†	12505143.2	582.353	mg/L	1.2738	582.353	mg/L	1.2738	0.22%
Mn 257.610†	19965748.5	24.7037	mg/L	0.05100	24.7037	mg/L	0.05100	0.21%
Mo 202.031†	727.0	0.0170395	mg/L	0.00059712	0.0170395	mg/L	0.00059712	3.50%
Na 330.237†	20952.3	15.3047	mg/L	0.09412	15.3047	mg/L	0.09412	0.62%
Ni 231.604†	491668.6	8.07553	mg/L	0.036206	8.07553	mg/L	0.036206	0.45%
Pb 220.353†	134939.4	8.40204	mg/L	0.008162	8.40204	mg/L	0.008162	0.10%
Sb 206.836†	-233.1	-0.0263904	mg/L	0.00262859	-0.0263904	mg/L	0.00262859	9.96%
Se 196.026†	-386.0	-0.0175873	mg/L	0.00603035	-0.0175873	mg/L	0.00603035	34.29%
Sn 189.927†	429.9	0.0818997	mg/L	0.00224957	0.0818997	mg/L	0.00224957	2.75%
Ti 334.940†	7971130.5	10.3847	mg/L	0.00608	10.3847	mg/L	0.00608	0.06%
Tl 190.801†	-84.0	-0.0174277	mg/L	0.00454873	-0.0174277	mg/L	0.00454873	26.10%
V 290.880†	133779.1	0.857101	mg/L	0.0000986	0.857101	mg/L	0.0000986	0.01%
Zn 206.200†	300070.9	4.14764	mg/L	0.003903	4.14764	mg/L	0.003903	0.09%

Sequence No.: 25
Sample ID: 78787-016 4D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 123
Date Collected: 5/28/2014 12:23:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-016 4D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1096576.2	109	%	0.4				0.33%
Y 371.029	589624.7	177	%	0.3				0.17%
Ag 328.068†	-7974.4	-0.0079787	mg/L	0.00026210	-0.0079787	mg/L	0.00026210	3.28%
Al 308.215†	6580245.8	208.867	mg/L	0.4991	208.867	mg/L	0.4991	0.24%
As 188.979†	5997.0	3.66271	mg/L	0.106943	3.66271	mg/L	0.106943	2.92%
Ba 233.527†	462657.7	2.97265	mg/L	0.004157	2.97265	mg/L	0.004157	0.14%
Be 313.107†	47758.4	0.0128584	mg/L	0.00000134	0.0128584	mg/L	0.00000134	0.01%
Ca 315.887†	23459758.3	193.670	mg/L	1.4153	193.670	mg/L	1.4153	0.73%
Cd 228.802†	2276.4	0.0308064	mg/L	0.00158552	0.0308064	mg/L	0.00158552	5.15%
Co 228.616†	23292.8	0.433404	mg/L	0.0079699	0.433404	mg/L	0.0079699	1.84%
Cr 267.716†	63211.3	0.653605	mg/L	0.0014810	0.653605	mg/L	0.0014810	0.23%
Cu 327.393†	125385.4	0.980346	mg/L	0.0010748	0.980346	mg/L	0.0010748	0.11%
Fe 273.955†	9029396.2	378.508	mg/L	2.0045	378.508	mg/L	2.0045	0.53%
K 404.721†	6462.3	62.3216	mg/L	0.78303	62.3216	mg/L	0.78303	1.26%
Mg 279.077†	7433665.2	346.057	mg/L	2.7166	346.057	mg/L	2.7166	0.79%
Mn 257.610†	12042419.0	14.8996	mg/L	0.10655	14.8996	mg/L	0.10655	0.72%
Mo 202.031†	512.8	0.0129589	mg/L	0.00058108	0.0129589	mg/L	0.00058108	4.48%
Na 330.237†	11604.7	8.62451	mg/L	0.152379	8.62451	mg/L	0.152379	1.77%
Ni 231.604†	292189.2	4.79828	mg/L	0.007989	4.79828	mg/L	0.007989	0.17%
Pb 220.353†	80244.0	4.99596	mg/L	0.007466	4.99596	mg/L	0.007466	0.15%
Sb 206.836†	-135.5	-0.0119025	mg/L	0.00336597	-0.0119025	mg/L	0.00336597	28.28%
Se 196.026†	-243.9	-0.0139736	mg/L	0.00545515	-0.0139736	mg/L	0.00545515	39.04%
Sn 189.927†	224.5	0.0427601	mg/L	0.00154775	0.0427601	mg/L	0.00154775	3.62%
Ti 334.940†	4683476.8	6.10109	mg/L	0.003651	6.10109	mg/L	0.003651	0.06%
Tl 190.801†	-40.6	-0.0079737	mg/L	0.00300448	-0.0079737	mg/L	0.00300448	37.68%
V 290.880†	79131.0	0.505415	mg/L	0.0015870	0.505415	mg/L	0.0015870	0.31%
Zn 206.200†	177772.9	2.45589	mg/L	0.003703	2.45589	mg/L	0.003703	0.15%

Sequence No.: 26
Sample ID: ICSA V-185195
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/28/2014 12:27:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185195

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	885783.5	88.1	%	0.11				0.13%
Y 371.029	288778.6	86.6	%	0.01				0.01%
Ag 328.068†	-3576.0	-0.0000741	mg/L	0.00061208	-0.0000741	mg/L	0.00061208	825.79%
Al 308.215†	15851378.9	503.205	mg/L	1.0700	503.205	mg/L	1.0700	0.21%
QC value within limits for Al 308.215 Recovery = 100.64%								
As 188.979†	9.1	-0.0024320	mg/L	0.00205385	-0.0024320	mg/L	0.00205385	84.45%
Ba 233.527†	1484.6	0.0001116	mg/L	0.00006350	0.0001116	mg/L	0.00006350	56.88%
Be 313.107†	-2994.2	-0.0012664	mg/L	0.00001698	-0.0012664	mg/L	0.00001698	1.34%
Ca 315.887†	58827449.3	487.120	mg/L	1.3980	487.120	mg/L	1.3980	0.29%
QC value within limits for Ca 315.887 Recovery = 97.42%								
Cd 228.802†	264.4	-0.0025305	mg/L	0.00020744	-0.0025305	mg/L	0.00020744	8.20%
Co 228.616†	-3.1	-0.0022660	mg/L	0.00028520	-0.0022660	mg/L	0.00028520	12.59%
Cr 267.716†	224.2	0.0008919	mg/L	0.00027687	0.0008919	mg/L	0.00027687	31.04%
Cu 327.393†	1351.4	0.0011330	mg/L	0.00019951	0.0011330	mg/L	0.00019951	17.61%
Fe 273.955†	4622219.5	193.749	mg/L	0.2031	193.749	mg/L	0.2031	0.10%
QC value within limits for Fe 273.955 Recovery = 96.87%								
K 404.721†	-228.8	-1.57407	mg/L	0.627443	-1.57407	mg/L	0.627443	39.86%
Mg 279.077†	10954956.0	510.242	mg/L	1.7752	510.242	mg/L	1.7752	0.35%
QC value within limits for Mg 279.077 Recovery = 102.05%								
Mn 257.610†	20544.4	0.0047957	mg/L	0.00014383	0.0047957	mg/L	0.00014383	3.00%
Mo 202.031†	342.5	-0.0026129	mg/L	0.00018829	-0.0026129	mg/L	0.00018829	7.21%
Na 330.237†	129.2	0.423615	mg/L	0.0525228	0.423615	mg/L	0.0525228	12.40%
Ni 231.604†	80.2	-0.0007809	mg/L	0.00009872	-0.0007809	mg/L	0.00009872	12.64%
Pb 220.353†	-1801.3	0.0056160	mg/L	0.00083161	0.0056160	mg/L	0.00083161	14.81%
Sb 206.836†	-15.7	0.0012783	mg/L	0.00107866	0.0012783	mg/L	0.00107866	84.38%
Se 196.026†	-156.3	0.0005349	mg/L	0.00602025	0.0005349	mg/L	0.00602025	>999.9%
Sn 189.927†	-49.7	-0.0036104	mg/L	0.00057670	-0.0036104	mg/L	0.00057670	15.97%
Ti 334.940†	6966.0	0.0079605	mg/L	0.00021320	0.0079605	mg/L	0.00021320	2.68%
Tl 190.801†	95.7	-0.0091848	mg/L	0.00074506	-0.0091848	mg/L	0.00074506	8.11%
V 290.880†	8489.7	-0.0010505	mg/L	0.00079996	-0.0010505	mg/L	0.00079996	76.15%
Zn 206.200†	1179.9	-0.0014015	mg/L	0.00040660	-0.0014015	mg/L	0.00040660	29.01%

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/28/2014 12:32:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	884079.1	88.0	%	0.19				0.21%
Y 371.029	289188.4	86.7	%	0.09				0.11%
Ag 328.068†	238381.1	1.10203	mg/L	0.002175	1.10203	mg/L	0.002175	0.20%
QC value within limits for Ag 328.068 Recovery = 110.20%								
Al 308.215†	16146582.7	512.577	mg/L	1.6621	512.577	mg/L	1.6621	0.32%
QC value within limits for Al 308.215 Recovery = 102.52%								
As 188.979†	1788.1	1.07647	mg/L	0.006804	1.07647	mg/L	0.006804	0.63%
QC value within limits for As 188.979 Recovery = 107.65%								
Ba 233.527†	83424.7	0.529371	mg/L	0.0018824	0.529371	mg/L	0.0018824	0.36%
QC value within limits for Ba 233.527 Recovery = 105.87%								
Be 313.107†	1627002.1	0.522904	mg/L	0.0003094	0.522904	mg/L	0.0003094	0.06%
QC value within limits for Be 313.107 Recovery = 104.58%								
Ca 315.887†	59924885.1	496.208	mg/L	2.3343	496.208	mg/L	2.3343	0.47%
QC value within limits for Ca 315.887 Recovery = 99.24%								
Cd 228.802†	66661.2	1.07715	mg/L	0.008361	1.07715	mg/L	0.008361	0.78%
QC value within limits for Cd 228.802 Recovery = 107.72%								
Co 228.616†	26136.0	0.500533	mg/L	0.0061878	0.500533	mg/L	0.0061878	1.24%
QC value within limits for Co 228.616 Recovery = 100.11%								
Cr 267.716†	50172.7	0.514326	mg/L	0.0052690	0.514326	mg/L	0.0052690	1.02%
QC value within limits for Cr 267.716 Recovery = 102.87%								
Cu 327.393†	70476.0	0.545551	mg/L	0.0006194	0.545551	mg/L	0.0006194	0.11%
QC value within limits for Cu 327.393 Recovery = 109.11%								
Fe 273.955†	4709567.7	197.411	mg/L	0.2167	197.411	mg/L	0.2167	0.11%
QC value within limits for Fe 273.955 Recovery = 98.71%								
K 404.721†	-289.1	-2.14924	mg/L	0.113852	-2.14924	mg/L	0.113852	5.30%
Mg 279.077†	11158188.9	519.716	mg/L	3.0255	519.716	mg/L	3.0255	0.58%
QC value within limits for Mg 279.077 Recovery = 103.94%								
Mn 257.610†	431026.0	0.512814	mg/L	0.0013082	0.512814	mg/L	0.0013082	0.26%
QC value within limits for Mn 257.610 Recovery = 102.56%								
Mo 202.031†	361.9	-0.0020301	mg/L	0.00166032	-0.0020301	mg/L	0.00166032	81.79%
Na 330.237†	882.5	0.961982	mg/L	0.0140586	0.961982	mg/L	0.0140586	1.46%
Ni 231.604†	59542.9	0.976132	mg/L	0.0111231	0.976132	mg/L	0.0111231	1.14%
QC value within limits for Ni 231.604 Recovery = 97.61%								
Pb 220.353†	14585.1	1.01903	mg/L	0.011655	1.01903	mg/L	0.011655	1.14%
QC value within limits for Pb 220.353 Recovery = 101.90%								
Sb 206.836†	2520.9	1.06344	mg/L	0.006938	1.06344	mg/L	0.006938	0.65%
QC value within limits for Sb 206.836 Recovery = 106.34%								
Se 196.026†	1573.0	1.04364	mg/L	0.000968	1.04364	mg/L	0.000968	0.09%
QC value within limits for Se 196.026 Recovery = 104.36%								
Sn 189.927†	-44.3	-0.0025388	mg/L	0.00235263	-0.0025388	mg/L	0.00235263	92.67%
Ti 334.940†	6660.3	0.0075623	mg/L	0.00003444	0.0075623	mg/L	0.00003444	0.46%
Tl 190.801†	2386.4	0.975379	mg/L	0.0016015	0.975379	mg/L	0.0016015	0.16%
QC value within limits for Tl 190.801 Recovery = 97.54%								
V 290.880†	80106.7	0.497547	mg/L	0.0009769	0.497547	mg/L	0.0009769	0.20%
QC value within limits for V 290.880 Recovery = 99.51%								
Zn 206.200†	72264.9	0.988342	mg/L	0.0093915	0.988342	mg/L	0.0093915	0.95%
QC value within limits for Zn 206.200 Recovery = 98.83%								

All analyte(s) passed QC.

Sequence No.: 28
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/28/2014 12:37:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	981881.7	97.7	%	0.29				0.30%
Y 371.029	317918.0	95.4	%	0.04				0.04%
Ag 328.068†	21667.1	0.0995947	mg/L	0.00031593	0.0995947	mg/L	0.00031593	0.32%
QC value within limits for Ag 328.068 Recovery = 99.59%								
Al 308.215†	166546.8	5.23836	mg/L	0.026341	5.23836	mg/L	0.026341	0.50%
QC value within limits for Al 308.215 Recovery = 104.77%								
As 188.979†	832.7	0.504896	mg/L	0.0006052	0.504896	mg/L	0.0006052	0.12%
QC value within limits for As 188.979 Recovery = 100.98%								
Ba 233.527†	79490.9	0.511250	mg/L	0.0024784	0.511250	mg/L	0.0024784	0.48%
QC value within limits for Ba 233.527 Recovery = 102.25%								
Be 313.107†	1565122.1	0.502825	mg/L	0.0011329	0.502825	mg/L	0.0011329	0.23%
QC value within limits for Be 313.107 Recovery = 100.56%								
Ca 315.887†	6135534.3	50.6383	mg/L	0.18941	50.6383	mg/L	0.18941	0.37%
QC value within limits for Ca 315.887 Recovery = 101.28%								
Cd 228.802†	31016.0	0.503189	mg/L	0.0027651	0.503189	mg/L	0.0027651	0.55%
QC value within limits for Cd 228.802 Recovery = 100.64%								
Co 228.616†	26331.5	0.505068	mg/L	0.0031912	0.505068	mg/L	0.0031912	0.63%
QC value within limits for Co 228.616 Recovery = 101.01%								
Cr 267.716†	50012.3	0.515131	mg/L	0.0027393	0.515131	mg/L	0.0027393	0.53%
QC value within limits for Cr 267.716 Recovery = 103.03%								
Cu 327.393†	64174.6	0.503721	mg/L	0.0014962	0.503721	mg/L	0.0014962	0.30%
QC value within limits for Cu 327.393 Recovery = 100.74%								
Fe 273.955†	120845.6	5.04201	mg/L	0.013182	5.04201	mg/L	0.013182	0.26%
QC value within limits for Fe 273.955 Recovery = 100.84%								
K 404.721†	4946.1	47.8423	mg/L	1.14025	47.8423	mg/L	1.14025	2.38%
QC value within limits for K 404.721 Recovery = 95.68%								
Mg 279.077†	1118847.0	51.8804	mg/L	0.23218	51.8804	mg/L	0.23218	0.45%
QC value within limits for Mg 279.077 Recovery = 103.76%								
Mn 257.610†	408688.6	0.502655	mg/L	0.0022530	0.502655	mg/L	0.0022530	0.45%
QC value within limits for Mn 257.610 Recovery = 100.53%								
Mo 202.031†	10816.3	0.490311	mg/L	0.0034678	0.490311	mg/L	0.0034678	0.71%
QC value within limits for Mo 202.031 Recovery = 98.06%								
Na 330.237†	69908.2	50.2907	mg/L	0.18187	50.2907	mg/L	0.18187	0.36%
QC value within limits for Na 330.237 Recovery = 100.58%								
Ni 231.604†	30732.3	0.503357	mg/L	0.0033016	0.503357	mg/L	0.0033016	0.66%
QC value within limits for Ni 231.604 Recovery = 100.67%								
Pb 220.353†	8207.6	0.507746	mg/L	0.0020677	0.507746	mg/L	0.0020677	0.41%
QC value within limits for Pb 220.353 Recovery = 101.55%								
Sb 206.836†	1217.3	0.511709	mg/L	0.0009845	0.511709	mg/L	0.0009845	0.19%
QC value within limits for Sb 206.836 Recovery = 102.34%								
Se 196.026†	825.1	0.501532	mg/L	0.0025809	0.501532	mg/L	0.0025809	0.51%
QC value within limits for Se 196.026 Recovery = 100.31%								
Sn 189.927†	2861.6	0.509585	mg/L	0.0024194	0.509585	mg/L	0.0024194	0.47%
QC value within limits for Sn 189.927 Recovery = 101.92%								
Ti 334.940†	389828.3	0.506801	mg/L	0.0025578	0.506801	mg/L	0.0025578	0.50%
QC value within limits for Ti 334.940 Recovery = 101.36%								
Tl 190.801†	1190.3	0.512023	mg/L	0.0068616	0.512023	mg/L	0.0068616	1.34%
QC value within limits for Tl 190.801 Recovery = 102.40%								
V 290.880†	73529.6	0.505518	mg/L	0.0018582	0.505518	mg/L	0.0018582	0.37%
QC value within limits for V 290.880 Recovery = 101.10%								
Zn 206.200†	36073.3	0.500326	mg/L	0.0029475	0.500326	mg/L	0.0029475	0.59%
QC value within limits for Zn 206.200 Recovery = 100.07%								

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/28/2014 12:40:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1013318.2	101	%	0.2				0.20%
Y 371.029	332429.1	99.7	%	0.39				0.39%
Ag 328.068†	4069.1	0.0189361	mg/L	0.00064346	0.0189361	mg/L	0.00064346	3.40%
QC value within limits for Ag 328.068 Recovery = 94.68%								
Al 308.215†	8340.8	0.223490	mg/L	0.0008085	0.223490	mg/L	0.0008085	0.36%
QC value within limits for Al 308.215 Recovery = 111.74%								
As 188.979†	29.7	0.0185838	mg/L	0.00316805	0.0185838	mg/L	0.00316805	17.05%
QC value within limits for As 188.979 Recovery = 92.92%								
Ba 233.527†	7775.0	0.0480880	mg/L	0.00022169	0.0480880	mg/L	0.00022169	0.46%
QC value within limits for Ba 233.527 Recovery = 96.18%								
Be 313.107†	36197.3	0.0113227	mg/L	0.00000854	0.0113227	mg/L	0.00000854	0.08%
QC value within limits for Be 313.107 Recovery = 94.36%								
Ca 315.887†	603391.3	4.78914	mg/L	0.005651	4.78914	mg/L	0.005651	0.12%
QC value within limits for Ca 315.887 Recovery = 95.78%								
Cd 228.802†	688.0	0.0102857	mg/L	0.00007614	0.0102857	mg/L	0.00007614	0.74%
QC value within limits for Cd 228.802 Recovery = 85.71%								
Co 228.616†	1025.3	0.0174532	mg/L	0.00011973	0.0174532	mg/L	0.00011973	0.69%
QC value within limits for Co 228.616 Recovery = 87.27%								
Cr 267.716†	4778.6	0.0477191	mg/L	0.00018220	0.0477191	mg/L	0.00018220	0.38%
QC value within limits for Cr 267.716 Recovery = 95.44%								
Cu 327.393†	6366.4	0.0484955	mg/L	0.00052728	0.0484955	mg/L	0.00052728	1.09%
QC value within limits for Cu 327.393 Recovery = 96.99%								
Fe 273.955†	7374.7	0.285060	mg/L	0.0057945	0.285060	mg/L	0.0057945	2.03%
QC value within limits for Fe 273.955 Recovery = 95.02%								
K 404.721†	384.5	4.28273	mg/L	0.453524	4.28273	mg/L	0.453524	10.59%
QC value within limits for K 404.721 Recovery = 85.65%								
Mg 279.077†	110614.0	4.87765	mg/L	0.004127	4.87765	mg/L	0.004127	0.08%
QC value within limits for Mg 279.077 Recovery = 97.55%								
Mn 257.610†	31837.6	0.0375344	mg/L	0.00001642	0.0375344	mg/L	0.00001642	0.04%
QC value within limits for Mn 257.610 Recovery = 93.84%								
Mo 202.031†	438.9	0.0178386	mg/L	0.00042488	0.0178386	mg/L	0.00042488	2.38%
QC value within limits for Mo 202.031 Recovery = 89.19%								
Na 330.237†	6061.9	4.66343	mg/L	0.057386	4.66343	mg/L	0.057386	1.23%
QC value within limits for Na 330.237 Recovery = 93.27%								
Ni 231.604†	2987.9	0.0469955	mg/L	0.00003246	0.0469955	mg/L	0.00003246	0.07%
QC value within limits for Ni 231.604 Recovery = 93.99%								
Pb 220.353†	168.0	0.0085456	mg/L	0.00160921	0.0085456	mg/L	0.00160921	18.83%
QC value within limits for Pb 220.353 Recovery = 71.21%								
Sb 206.836†	43.0	0.0195141	mg/L	0.00005448	0.0195141	mg/L	0.00005448	0.28%
QC value within limits for Sb 206.836 Recovery = 97.57%								
Se 196.026†	67.8	0.0423504	mg/L	0.00093524	0.0423504	mg/L	0.00093524	2.21%
QC value within limits for Se 196.026 Recovery = 105.88%								
Sn 189.927†	255.2	0.0445795	mg/L	0.00044423	0.0445795	mg/L	0.00044423	1.00%
QC value within limits for Sn 189.927 Recovery = 89.16%								
Ti 334.940†	36828.5	0.0468691	mg/L	0.00029346	0.0468691	mg/L	0.00029346	0.63%
QC value within limits for Ti 334.940 Recovery = 93.74%								
Tl 190.801†	44.9	0.0176135	mg/L	0.00141536	0.0176135	mg/L	0.00141536	8.04%
QC value within limits for Tl 190.801 Recovery = 88.07%								
V 290.880†	7043.5	0.0464421	mg/L	0.00055143	0.0464421	mg/L	0.00055143	1.19%
QC value within limits for V 290.880 Recovery = 92.88%								
Zn 206.200†	3445.3	0.0462936	mg/L	0.00007908	0.0462936	mg/L	0.00007908	0.17%
QC value within limits for Zn 206.200 Recovery = 92.59%								

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/28/2014 12:44:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1004796.0	100.0	%	0.67				0.67%
Y 371.029	335437.7	101	%	0.9				0.94%
Ag 328.068†	-263.6	-0.0008352	mg/L	0.00037559	-0.0008352	mg/L	0.00037559	44.97%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-123.1	-0.0448979	mg/L	0.00138455	-0.0448979	mg/L	0.00138455	3.08%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-0.9	0.0001062	mg/L	0.00159578	0.0001062	mg/L	0.00159578	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	32.2	-0.0019251	mg/L	0.00002283	-0.0019251	mg/L	0.00002283	1.19%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	130.5	-0.0002584	mg/L	0.00003640	-0.0002584	mg/L	0.00003640	14.08%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	1585.0	-0.199097	mg/L	0.0047790	-0.199097	mg/L	0.0047790	2.40%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	-12.8	-0.0010847	mg/L	0.00000553	-0.0010847	mg/L	0.00000553	0.51%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	5.7	-0.0021353	mg/L	0.00002097	-0.0021353	mg/L	0.00002097	0.98%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-3.0	-0.0015291	mg/L	0.00001197	-0.0015291	mg/L	0.00001197	0.78%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-29.4	-0.0018591	mg/L	0.00112838	-0.0018591	mg/L	0.00112838	60.70%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	45.3	-0.0222030	mg/L	0.00073668	-0.0222030	mg/L	0.00073668	3.32%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	19.3	0.795237	mg/L	1.3102310	0.795237	mg/L	1.3102310	164.76%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	146.5	-0.271941	mg/L	0.0014356	-0.271941	mg/L	0.0014356	0.53%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	70.0	-0.0016238	mg/L	0.00000325	-0.0016238	mg/L	0.00000325	0.20%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	12.3	-0.0014936	mg/L	0.00020217	-0.0014936	mg/L	0.00020217	13.54%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	-389.8	0.0527523	mg/L	0.05718524	0.0527523	mg/L	0.05718524	108.40%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	17.3	-0.0018324	mg/L	0.00016959	-0.0018324	mg/L	0.00016959	9.26%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-27.4	-0.0036970	mg/L	0.00059710	-0.0036970	mg/L	0.00059710	16.15%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-5.8	-0.0009356	mg/L	0.00046624	-0.0009356	mg/L	0.00046624	49.83%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	4.0	0.0036765	mg/L	0.00179621	0.0036765	mg/L	0.00179621	48.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-5.2	-0.0018938	mg/L	0.00036832	-0.0018938	mg/L	0.00036832	19.45%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	196.5	-0.0008596	mg/L	0.00003717	-0.0008596	mg/L	0.00003717	4.32%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-4.7	-0.0038866	mg/L	0.00117336	-0.0038866	mg/L	0.00117336	30.19%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	8.1	-0.0021191	mg/L	0.00039046	-0.0021191	mg/L	0.00039046	18.43%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-5.9	-0.0017515	mg/L	0.00007521	-0.0017515	mg/L	0.00007521	4.29%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

File SW16381D2 Batch 16381-32819 4052101 1996

Analyst 5/28/14

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Analysis Begun

Start Time: 5/28/2014 12:48:57 PM
Logged In Analyst: shiamala
Spectrometer Model: Optima 4300 DV, S/N 077N1030901
Plasma On Time: 5/28/2014 9:54:54 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\administrator\Sample Information\05.27.14.sif
Batch ID: PEICP 2
Results Data Set: SW16381D2
Results Library: C:\pe\administrator\Results\Results.mdb

5/28/14

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Method Loaded
Method Name: PE 2 4300DV RADIAL
IEC File: IECrad101413.iec
Method Description: 200.7/6010B/6010C
Method Last Saved: 5/9/2014 3:17:36 PM
MSF File:

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Sequence No.: 1
Sample ID: CALBLK V-183928
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 5/28/2014 12:48:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-183928

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	21148.2	224.89	1.06%	100.000	%
Sc 361.383	61105.8	620.88	1.02%	100.0	%
Al 308.215†	607.5	12.64	2.08%	[0.00]	mg/L
Ca 315.887†	3091.1	46.95	1.52%	[0.00]	mg/L
Fe 273.955†	-315.7	7.25	2.30%	[0.00]	mg/L
Mg 279.077†	-1444.7	8.14	0.56%	[0.00]	mg/L
Mn 257.610†	411.9	3.27	0.79%	[0.00]	mg/L
K 766.490†	1247.7	66.70	5.35%	[0.00]	mg/L
Na 589.592†	31139.8	233.12	0.75%	[0.00]	mg/L
Ti 334.940†	-202.1	10.39	5.14%	[0.00]	mg/L

16381
32819

Na reported

QC, 78793.001 60D Na reported

78787.003 2D
011 2D
016 4D
Na, K reported

Sequence No.: 2
Sample ID: CALST2 V-185756
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 5/28/2014 12:52:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-185756

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	21116.2	208.83	0.99%	99.8486	%
Sc 361.383	61569.7	431.36	0.70%	101	%
Al 308.215†	125.1	19.32	15.44%	[0.1]	mg/L
Ca 315.887†	8190.8	93.02	1.14%	[1]	mg/L
Fe 273.955†	160.3	4.59	2.86%	[0.1]	mg/L
Mg 279.077†	1439.5	0.42	0.03%	[1]	mg/L
Mn 257.610†	455.7	20.73	4.55%	[0.01]	mg/L
K 766.490†	1236.2	4.14	0.33%	[1]	mg/L
Na 589.592†	5470.8	399.44	7.30%	[1]	mg/L
Ti 334.940†	456.9	9.36	2.05%	[0.01]	mg/L

Sequence No.: 3
Sample ID: CALST3 V-185198
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 5/28/2014 12:55:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-185198

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	20463.3	57.71	0.28%	96.7612	%
Sc 361.383	60115.2	218.73	0.36%	98.4	%
Al 308.215†	6978.4	30.71	0.44%	[5]	mg/L
Ca 315.887†	409858.8	710.70	0.17%	[50]	mg/L
Fe 273.955†	7174.8	55.28	0.77%	[5]	mg/L
Mg 279.077†	69093.4	278.79	0.40%	[50]	mg/L
Mn 257.610†	22006.7	66.58	0.30%	[0.5]	mg/L
K 766.490†	59453.4	662.81	1.11%	[50]	mg/L
Na 589.592†	298404.3	782.12	0.26%	[50]	mg/L
Ti 334.940†	24361.3	65.58	0.27%	[0.5]	mg/L

Sequence No.: 4
Sample ID: CALST4 V-185758
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/28/2014 12:58:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-185758

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	20249.7	105.19	0.52%	95.7514	%
Sc 361.383	59818.3	30.45	0.05%	97.9	%
Al 308.215†	13616.0	18.98	0.14%	[10]	mg/L
Ca 315.887†	793252.8	5728.57	0.72%	[100]	mg/L
Fe 273.955†	14113.9	52.71	0.37%	[10]	mg/L
Mg 279.077†	134508.8	433.14	0.32%	[100]	mg/L
Mn 257.610†	43280.3	146.62	0.34%	[1.0]	mg/L
K 766.490†	115840.6	882.64	0.76%	[100]	mg/L
Na 589.592†	584147.3	1017.35	0.17%	[100]	mg/L
Ti 334.940†	47948.5	130.87	0.27%	[1.0]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Al 308.215	3	Lin, Calc Int	26.0	1365	0.00000	0.999914	
Ca 315.887	3	Lin, Calc Int	2525.6	7955	0.00000	0.999853	
Fe 273.955	3	Lin, Calc Int	30.1	1412	0.00000	0.999965	
Mg 279.077	3	Lin, Calc Int	377.6	1348	0.00000	0.999903	
Mn 257.610	3	Lin, Calc Int	77.1	43330	0.00000	0.999963	
K 766.490	3	Lin, Calc Int	314.3	1161	0.00000	0.999909	
Na 589.592	3	Lin, Calc Int	983.9	5855	0.00000	0.999935	
Ti 334.940	3	Lin, Calc Int	60.2	48030	0.00000	0.999964	

Sequence No.: 5
Sample ID: ICS3 V-185198
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 5/28/2014 1:01:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-185198

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20504.7	96.9572	%	0.88163				0.91%
Sc 361.383	60368.5	98.8	%	0.71				0.72%
Al 308.215†	6956.7	5.07646	mg/L	0.015644	5.07646	mg/L	0.015644	0.31%
QC value within limits for Al 308.215 Recovery = 101.53%								
Ca 315.887†	402471.5	50.2762	mg/L	0.03310	50.2762	mg/L	0.03310	0.07%
QC value within limits for Ca 315.887 Recovery = 100.55%								
Fe 273.955†	7178.2	5.06061	mg/L	0.012680	5.06061	mg/L	0.012680	0.25%
QC value within limits for Fe 273.955 Recovery = 101.21%								
Mg 279.077†	69244.5	51.0924	mg/L	0.04309	51.0924	mg/L	0.04309	0.08%
QC value within limits for Mg 279.077 Recovery = 102.18%								
Mn 257.610†	22032.0	0.509944	mg/L	0.0002957	0.509944	mg/L	0.0002957	0.06%
QC value within limits for Mn 257.610 Recovery = 101.99%								
K 766.490†	59960.0	51.3856	mg/L	0.47647	51.3856	mg/L	0.47647	0.93%
QC value within limits for K 766.490 Recovery = 102.77%								
Na 589.592†	294333.2	50.1034	mg/L	0.03298	50.1034	mg/L	0.03298	0.07%
QC value within limits for Na 589.592 Recovery = 100.21%								
Ti 334.940†	24390.6	0.506562	mg/L	0.0004821	0.506562	mg/L	0.0004821	0.10%
QC value within limits for Ti 334.940 Recovery = 101.31%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/28/2014 1:03:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-185530

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20436.6	96.6350	%	1.04613				1.08%
Sc 361.383	60401.3	98.8	%	1.19				1.20%
Al 308.215†	6993.3	5.10328	mg/L	0.008728	5.10328	mg/L	0.008728	0.17%
QC value within limits for Al 308.215 Recovery = 102.07%								
Ca 315.887†	407054.2	50.8523	mg/L	0.69187	50.8523	mg/L	0.69187	1.36%
QC value within limits for Ca 315.887 Recovery = 101.70%								
Fe 273.955†	7148.2	5.03944	mg/L	0.026896	5.03944	mg/L	0.026896	0.53%
QC value within limits for Fe 273.955 Recovery = 100.79%								
Mg 279.077†	70498.1	52.0224	mg/L	0.03519	52.0224	mg/L	0.03519	0.07%
QC value within limits for Mg 279.077 Recovery = 104.04%								
Mn 257.610†	22006.6	0.509342	mg/L	0.0008930	0.509342	mg/L	0.0008930	0.18%
QC value within limits for Mn 257.610 Recovery = 101.87%								
K 766.490†	60994.6	52.2769	mg/L	0.13601	52.2769	mg/L	0.13601	0.26%
QC value within limits for K 766.490 Recovery = 104.55%								
Na 589.592†	300187.0	51.1032	mg/L	0.79949	51.1032	mg/L	0.79949	1.56%
QC value within limits for Na 589.592 Recovery = 102.21%								
Ti 334.940†	24460.4	0.508014	mg/L	0.0000793	0.508014	mg/L	0.0000793	0.02%
QC value within limits for Ti 334.940 Recovery = 101.60%								

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: LLICV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/28/2014 1:06:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV V-185635 [aq]

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21170.5	100.105	%	0.2545				0.25%
Sc 361.383	62516.3	102	%	0.9				0.87%
Al 308.215†	323.5	0.217891	mg/L	0.0112745	0.217891	mg/L	0.0112745	5.17%
QC value within limits for Al 308.215 Recovery = 108.95%								
Ca 315.887†	39164.2	4.60575	mg/L	0.020528	4.60575	mg/L	0.020528	0.45%
QC value within limits for Ca 315.887 Recovery = 92.12%								
Fe 273.955†	437.5	0.288376	mg/L	0.0010142	0.288376	mg/L	0.0010142	0.35%
QC value within limits for Fe 273.955 Recovery = 96.13%								
Mg 279.077†	6837.9	4.79293	mg/L	0.052602	4.79293	mg/L	0.052602	1.10%
QC value within limits for Mg 279.077 Recovery = 95.86%								
Mn 257.610†	1688.8	0.0373803	mg/L	0.00058664	0.0373803	mg/L	0.00058664	1.57%
QC value within limits for Mn 257.610 Recovery = 93.45%								
K 766.490†	5432.1	4.40902	mg/L	0.001083	4.40902	mg/L	0.001083	0.02%
QC value within limits for K 766.490 Recovery = 88.18%								
Na 589.592†	28146.9	4.63938	mg/L	0.029536	4.63938	mg/L	0.029536	0.64%
QC value within limits for Na 589.592 Recovery = 92.79%								
Ti 334.940†	2212.9	0.0448184	mg/L	0.00001949	0.0448184	mg/L	0.00001949	0.04%
QC value within limits for Ti 334.940 Recovery = 89.64%								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB V-183928
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/28/2014 1:09:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-183928

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21323.7	100.830	%	0.5329				0.53%
Sc 361.383	61372.1	100	%	0.7				0.74%
Al 308.215†	0.3	-0.0188153	mg/L	0.03155051	-0.0188153	mg/L	0.03155051	167.69%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	1.3	-0.317319	mg/L	0.0008432	-0.317319	mg/L	0.0008432	0.27%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-6.2	-0.0256858	mg/L	0.00151300	-0.0256858	mg/L	0.00151300	5.89%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-9.2	-0.286934	mg/L	0.0152243	-0.286934	mg/L	0.0152243	5.31%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-7.4	-0.0019672	mg/L	0.00008322	-0.0019672	mg/L	0.00008322	4.23%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	87.7	-0.195237	mg/L	0.1184287	-0.195237	mg/L	0.1184287	60.66%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	-1266.8	-0.384418	mg/L	0.0049431	-0.384418	mg/L	0.0049431	1.29%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	10.6	-0.0010328	mg/L	0.00005947	-0.0010328	mg/L	0.00005947	5.76%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSA V-185195
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/28/2014 1:13:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185195

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	19418.7	91.8217	%	0.34609				0.38%
Sc 361.383	58433.9	95.6	%	0.43				0.45%
Al 308.215†	677647.9	496.329	mg/L	11.4641	496.329	mg/L	11.4641	2.31%
QC value within limits for Al 308.215 Recovery = 99.27%								
Ca 315.887†	3909875.2	491.184	mg/L	10.7480	491.184	mg/L	10.7480	2.19%
QC value within limits for Ca 315.887 Recovery = 98.24%								
Fe 273.955†	272410.8	192.838	mg/L	4.4335	192.838	mg/L	4.4335	2.30%
QC value within limits for Fe 273.955 Recovery = 96.42%								
Mg 279.077†	681659.2	505.443	mg/L	11.4236	505.443	mg/L	11.4236	2.26%
QC value within limits for Mg 279.077 Recovery = 101.09%								
Mn 257.610†	-3683.7	0.0389130	mg/L	0.00376667	0.0389130	mg/L	0.00376667	9.68%
QC value within limits for Mn 257.610 Recovery = 3.89%								
K 766.490†	456.6	0.122580	mg/L	0.0245847	0.122580	mg/L	0.0245847	20.06%
QC value within limits for K 766.490 Recovery = 12.26%								
Na 589.592†	9625.8	1.47601	mg/L	0.216433	1.47601	mg/L	0.216433	14.66%
QC value within limits for Na 589.592 Recovery = 147.60%								
Ti 334.940†	-1440.6	-0.0312463	mg/L	0.00008357	-0.0312463	mg/L	0.00008357	0.27%
QC value within limits for Ti 334.940 Recovery = -3.12%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/28/2014 1:16:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	19515.9	92.2814	%	1.04077				1.13%
Sc 361.383	58800.1	96.2	%	0.90				0.93%
Al 308.215†	689753.7	505.196	mg/L	10.1508	505.196	mg/L	10.1508	2.01%
QC value within limits for Al 308.215 Recovery = 101.04%								
Ca 315.887†	3982378.5	500.298	mg/L	11.2532	500.298	mg/L	11.2532	2.25%
QC value within limits for Ca 315.887 Recovery = 100.06%								
Fe 273.955†	278133.9	196.890	mg/L	4.1666	196.890	mg/L	4.1666	2.12%
QC value within limits for Fe 273.955 Recovery = 98.45%								
Mg 279.077†	695495.7	515.708	mg/L	12.0307	515.708	mg/L	12.0307	2.33%
QC value within limits for Mg 279.077 Recovery = 103.14%								
Mn 257.610†	17962.3	0.541068	mg/L	0.0032201	0.541068	mg/L	0.0032201	0.60%
QC value within limits for Mn 257.610 Recovery = 108.21%								
K 766.490†	400.6	0.0743393	mg/L	0.01227737	0.0743393	mg/L	0.01227737	16.52%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	7846.0	1.17203	mg/L	0.009712	1.17203	mg/L	0.009712	0.83%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-1361.7	-0.0296050	mg/L	0.00084820	-0.0296050	mg/L	0.00084820	2.87%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: MB 32819 (1)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 90
Date Collected: 5/28/2014 1:20:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 32819 (1)

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21849.6	103.316	%	0.1251				0.12%
Sc 361.383	64048.1	105	%	0.5				0.50%
Al 308.215†	-11.7	-0.0275876	mg/L	0.00602966	-0.0275876	mg/L	0.00602966	21.86%
Ca 315.887†	-38.2	-0.322291	mg/L	0.0051066	-0.322291	mg/L	0.0051066	1.58%
Fe 273.955†	16.9	-0.0093810	mg/L	0.00720239	-0.0093810	mg/L	0.00720239	76.78%
Mg 279.077†	64.6	-0.232185	mg/L	0.0095396	-0.232185	mg/L	0.0095396	4.11%
Mn 257.610†	-9.6	-0.0020057	mg/L	0.00005883	-0.0020057	mg/L	0.00005883	2.93%
K 766.490†	18.8	-0.254565	mg/L	0.0136711	-0.254565	mg/L	0.0136711	5.37%
Na 589.592†	-2432.7	-0.583551	mg/L	0.0151118	-0.583551	mg/L	0.0151118	2.59%
Ti 334.940†	18.8	-0.0008625	mg/L	0.00032914	-0.0008625	mg/L	0.00032914	38.16%

Sequence No.: 12
Sample ID: LCSW 32819
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 91
Date Collected: 5/28/2014 1:23:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSW 32819

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21011.6	99.3539	%	0.66582				0.67%
Sc 361.383	62092.6	102	%	1.0				1.03%
Al 308.215†	6722.8	4.90512	mg/L	0.008418	4.90512	mg/L	0.008418	0.17%
Ca 315.887†	403863.4	50.4512	mg/L	0.13861	50.4512	mg/L	0.13861	0.27%
Fe 273.955†	7111.2	5.01324	mg/L	0.015488	5.01324	mg/L	0.015488	0.31%
Mg 279.077†	68196.9	50.3152	mg/L	0.13600	50.3152	mg/L	0.13600	0.27%
Mn 257.610†	21777.6	0.504041	mg/L	0.0026545	0.504041	mg/L	0.0026545	0.53%
K 766.490†	57966.3	49.6680	mg/L	0.21394	49.6680	mg/L	0.21394	0.43%
Na 589.592†	290389.4	49.4298	mg/L	0.39151	49.4298	mg/L	0.39151	0.79%
Ti 334.940†	23873.1	0.495787	mg/L	0.0014054	0.495787	mg/L	0.0014054	0.28%

Sequence No.: 13
Sample ID: LCSW MR 32819
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 92
Date Collected: 5/28/2014 1:26:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSW MR 32819

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20791.2	98.3120	%	0.88109				0.90%
Sc 361.383	61532.4	101	%	0.8				0.77%
Al 308.215†	6866.2	5.01013	mg/L	0.025043	5.01013	mg/L	0.025043	0.50%
Ca 315.887†	407457.0	50.9030	mg/L	0.30010	50.9030	mg/L	0.30010	0.59%
Fe 273.955†	7140.6	5.03402	mg/L	0.024403	5.03402	mg/L	0.024403	0.48%
Mg 279.077†	69040.5	50.9411	mg/L	0.41481	50.9411	mg/L	0.41481	0.81%
Mn 257.610†	21935.6	0.507700	mg/L	0.0039553	0.507700	mg/L	0.0039553	0.78%
K 766.490†	59798.0	51.2460	mg/L	0.02332	51.2460	mg/L	0.02332	0.05%
Na 589.592†	292889.5	49.8568	mg/L	0.18936	49.8568	mg/L	0.18936	0.38%
Ti 334.940†	24183.9	0.502258	mg/L	0.0047272	0.502258	mg/L	0.0047272	0.94%

Sequence No.: 14
Sample ID: 78793-001 60D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 124
Date Collected: 5/28/2014 1:29:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 60D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20268.4	95.8395	%	0.84525				0.88%
Sc 361.383	59937.7	98.1	%	1.24				1.27%
Al 308.215†	7.4	-0.0136349	mg/L	0.00194151	-0.0136349	mg/L	0.00194151	14.24%
Ca 315.887†	29653.2	3.41016	mg/L	0.015804	3.41016	mg/L	0.015804	0.46%
Fe 273.955†	32.5	0.0016984	mg/L	0.00755582	0.0016984	mg/L	0.00755582	444.89%
Mg 279.077†	15525.6	11.2383	mg/L	0.04466	11.2383	mg/L	0.04466	0.40%
Mn 257.610†	107.0	0.0006922	mg/L	0.00013170	0.0006922	mg/L	0.00013170	19.03%
K 766.490†	4212.2	3.35807	mg/L	0.026900	3.35807	mg/L	0.026900	0.80%
Na 589.592†	3334936.2	569.431	mg/L	8.6225	569.431	mg/L	8.6225	1.51%
Ti 334.940†	19.0	-0.0008587	mg/L	0.00070015	-0.0008587	mg/L	0.00070015	81.54%

Sequence No.: 15
Sample ID: 78793-001 MR 60D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 125
Date Collected: 5/28/2014 1:33:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 MR 60D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20343.8	96.1960	%	0.30578				0.32%
Sc 361.383	60435.5	98.9	%	0.62				0.63%
Al 308.215†	37.7	0.0085606	mg/L	0.00111923	0.0085606	mg/L	0.00111923	13.07%
Ca 315.887†	30852.9	3.56096	mg/L	0.025442	3.56096	mg/L	0.025442	0.71%
Fe 273.955†	43.0	0.0091418	mg/L	0.00804526	0.0091418	mg/L	0.00804526	88.01%
Mg 279.077†	16582.8	12.0226	mg/L	0.06365	12.0226	mg/L	0.06365	0.53%
Mn 257.610†	114.9	0.0008788	mg/L	0.00017692	0.0008788	mg/L	0.00017692	20.13%
K 766.490†	4089.1	3.25199	mg/L	0.055831	3.25199	mg/L	0.055831	1.72%
Na 589.592†	3564758.0	608.684	mg/L	8.7700	608.684	mg/L	8.7700	1.44%
Ti 334.940†	25.4	-0.0007243	mg/L	0.00074719	-0.0007243	mg/L	0.00074719	103.16%

Sequence No.: 16
Sample ID: 78793-001 MS 1 60D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 126
Date Collected: 5/28/2014 1:38:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 MS 1 60D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20564.0	97.2376	%	1.01550				1.04%
Sc 361.383	60891.1	99.6	%	1.02				1.02%
Al 308.215†	112.0	0.0629794	mg/L	0.00417194	0.0629794	mg/L	0.00417194	6.62%
Ca 315.887†	37142.4	4.35160	mg/L	0.117450	4.35160	mg/L	0.117450	2.70%
Fe 273.955†	152.9	0.0869128	mg/L	0.00270881	0.0869128	mg/L	0.00270881	3.12%
Mg 279.077†	17715.6	12.8631	mg/L	0.12382	12.8631	mg/L	0.12382	0.96%
Mn 257.610†	458.8	0.0088652	mg/L	0.00010806	0.0088652	mg/L	0.00010806	1.22%
K 766.490†	5058.6	4.08724	mg/L	0.030022	4.08724	mg/L	0.030022	0.73%
Na 589.592†	3575183.9	610.465	mg/L	8.8005	610.465	mg/L	8.8005	1.44%
Ti 334.940†	394.4	0.0069571	mg/L	0.00063128	0.0069571	mg/L	0.00063128	9.07%

Sequence No.: 17
Sample ID: 78793-001 MS 2 60D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 127
Date Collected: 5/28/2014 1:42:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 MS 2 60D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20349.1	96.2212	%	0.49541				0.51%
Sc 361.383	60929.5	99.7	%	0.30				0.30%
Al 308.215†	98.6	0.0531953	mg/L	0.00089215	0.0531953	mg/L	0.00089215	1.68%
Ca 315.887†	36939.8	4.32613	mg/L	0.007886	4.32613	mg/L	0.007886	0.18%
Fe 273.955†	146.9	0.0826578	mg/L	0.00082845	0.0826578	mg/L	0.00082845	1.00%
Mg 279.077†	17333.8	12.5799	mg/L	0.07742	12.5799	mg/L	0.07742	0.62%
Mn 257.610†	449.5	0.0086471	mg/L	0.00007156	0.0086471	mg/L	0.00007156	0.83%
K 766.490†	5019.1	4.05325	mg/L	0.085039	4.05325	mg/L	0.085039	2.10%
Na 589.592†	3452576.5	589.524	mg/L	3.9144	589.524	mg/L	3.9144	0.66%
Ti 334.940†	408.4	0.0072497	mg/L	0.00017404	0.0072497	mg/L	0.00017404	2.40%

Sequence No.: 18
Sample ID: 78793-001 PS 60D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 128
Date Collected: 5/28/2014 1:47:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 PS 60D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20232.2	95.6686	%	0.34644				0.36%
Sc 361.383	59763.6	97.8	%	0.21				0.21%
Al 308.215†	6763.8	4.93515	mg/L	0.062088	4.93515	mg/L	0.062088	1.26%
Ca 315.887†	420619.6	52.5576	mg/L	0.55373	52.5576	mg/L	0.55373	1.05%
Fe 273.955†	6990.4	4.92767	mg/L	0.021863	4.92767	mg/L	0.021863	0.44%
Mg 279.077†	83459.1	61.6382	mg/L	0.08694	61.6382	mg/L	0.08694	0.14%
Mn 257.610†	21436.2	0.496106	mg/L	0.0012047	0.496106	mg/L	0.0012047	0.24%
K 766.490†	63983.4	54.8518	mg/L	0.36165	54.8518	mg/L	0.36165	0.66%
Na 589.592†	3546795.6	605.617	mg/L	5.7696	605.617	mg/L	5.7696	0.95%
Ti 334.940†	23844.7	0.495196	mg/L	0.0012051	0.495196	mg/L	0.0012051	0.24%

Sequence No.: 19
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/28/2014 1:51:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20546.5	97.1545	%	0.08872				0.09%
Sc 361.383	61085.3	100.0	%	0.19				0.19%
Al 308.215†	6932.9	5.05899	mg/L	0.001042	5.05899	mg/L	0.001042	0.02%
QC value within limits for Al 308.215 Recovery = 101.18%								
Ca 315.887†	409598.4	51.1722	mg/L	0.14710	51.1722	mg/L	0.14710	0.29%
QC value within limits for Ca 315.887 Recovery = 102.34%								
Fe 273.955†	7232.9	5.09939	mg/L	0.026482	5.09939	mg/L	0.026482	0.52%
QC value within limits for Fe 273.955 Recovery = 101.99%								
Mg 279.077†	71213.7	52.5533	mg/L	0.04378	52.5533	mg/L	0.04378	0.08%
QC value within limits for Mg 279.077 Recovery = 105.11%								
Mn 257.610†	22129.6	0.512220	mg/L	0.0010845	0.512220	mg/L	0.0010845	0.21%
QC value within limits for Mn 257.610 Recovery = 102.44%								
K 766.490†	61161.3	52.4205	mg/L	0.21591	52.4205	mg/L	0.21591	0.41%
QC value within limits for K 766.490 Recovery = 104.84%								
Na 589.592†	299185.2	50.9321	mg/L	0.23369	50.9321	mg/L	0.23369	0.46%
QC value within limits for Na 589.592 Recovery = 101.86%								
Ti 334.940†	24479.6	0.508415	mg/L	0.0015166	0.508415	mg/L	0.0015166	0.30%
QC value within limits for Ti 334.940 Recovery = 101.68%								

All analyte(s) passed QC.

Sequence No.: 20
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/28/2014 1:53:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21366.9	101.034	%	0.9007				0.89%
Sc 361.383	63253.7	104	%	0.7				0.65%
Al 308.215†	322.1	0.216867	mg/L	0.0147088	0.216867	mg/L	0.0147088	6.78%
QC value within limits for Al 308.215 Recovery = 108.43%								
Ca 315.887†	39515.2	4.64988	mg/L	0.027511	4.64988	mg/L	0.027511	0.59%
QC value within limits for Ca 315.887 Recovery = 93.00%								
Fe 273.955†	421.8	0.277278	mg/L	0.0038883	0.277278	mg/L	0.0038883	1.40%
QC value within limits for Fe 273.955 Recovery = 92.43%								
Mg 279.077†	6870.0	4.81672	mg/L	0.042205	4.81672	mg/L	0.042205	0.88%
QC value within limits for Mg 279.077 Recovery = 96.33%								
Mn 257.610†	1707.5	0.0378047	mg/L	0.00062442	0.0378047	mg/L	0.00062442	1.65%
QC value within limits for Mn 257.610 Recovery = 94.51%								
K 766.490†	5489.7	4.45863	mg/L	0.093283	4.45863	mg/L	0.093283	2.09%
QC value within limits for K 766.490 Recovery = 89.17%								
Na 589.592†	27684.9	4.56047	mg/L	0.073070	4.56047	mg/L	0.073070	1.60%
QC value within limits for Na 589.592 Recovery = 91.21%								
Ti 334.940†	2242.7	0.0454396	mg/L	0.00027080	0.0454396	mg/L	0.00027080	0.60%
QC value within limits for Ti 334.940 Recovery = 90.88%								

All analyte(s) passed QC.

Sequence No.: 21
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/28/2014 1:57:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21391.7	101.151	%	0.5904				0.58%
Sc 361.383	61887.7	101	%	0.8				0.76%
Al 308.215†	-9.0	-0.0256084	mg/L	0.00079460	-0.0256084	mg/L	0.00079460	3.10%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	-14.1	-0.319261	mg/L	0.0029272	-0.319261	mg/L	0.0029272	0.92%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-6.4	-0.0258410	mg/L	0.00192777	-0.0258410	mg/L	0.00192777	7.46%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-0.8	-0.280714	mg/L	0.0046104	-0.280714	mg/L	0.0046104	1.64%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-1.0	-0.0018193	mg/L	0.00011684	-0.0018193	mg/L	0.00011684	6.42%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	41.2	-0.235279	mg/L	0.0001944	-0.235279	mg/L	0.0001944	0.08%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	-1997.6	-0.509231	mg/L	0.0468306	-0.509231	mg/L	0.0468306	9.20%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	6.9	-0.0011102	mg/L	0.00047612	-0.0011102	mg/L	0.00047612	42.89%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 22
Sample ID: 78793-001 SD 60D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 129
Date Collected: 5/28/2014 2:00:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78793-001 SD 60D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20683.4	97.8021	%	1.19412				1.22%
Sc 361.383	62456.7	102	%	0.5				0.45%
Al 308.215†	-3.3	-0.0214631	mg/L	0.00825826	-0.0214631	mg/L	0.00825826	38.48%
Ca 315.887†	5858.4	0.418964	mg/L	0.0130303	0.418964	mg/L	0.0130303	3.11%
Fe 273.955†	8.5	-0.0153058	mg/L	0.00960643	-0.0153058	mg/L	0.00960643	62.76%
Mg 279.077†	3151.8	2.05820	mg/L	0.000775	2.05820	mg/L	0.000775	0.04%
Mn 257.610†	20.2	-0.0013218	mg/L	0.00006247	-0.0013218	mg/L	0.00006247	4.73%
K 766.490†	799.0	0.417569	mg/L	0.0362434	0.417569	mg/L	0.0362434	8.68%
Na 589.592†	665173.0	113.442	mg/L	0.2841	113.442	mg/L	0.2841	0.25%
Ti 334.940†	17.8	-0.0008841	mg/L	0.00032711	-0.0008841	mg/L	0.00032711	37.00%

Sequence No.: 23
Sample ID: 78787-003 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 119
Date Collected: 5/28/2014 2:03:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-003 2D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	35164.6	166.277	%	0.0196				0.01%
Sc 361.383	70737.1	116	%	0.1				0.13%
Al 308.215†	200390.5	146.758	mg/L	0.2895	146.758	mg/L	0.2895	0.20%
Ca 315.887†	400170.5	49.9870	mg/L	0.04532	49.9870	mg/L	0.04532	0.09%
Fe 273.955†	435147.4	308.052	mg/L	0.2369	308.052	mg/L	0.2369	0.08%
Mg 279.077†	198431.5	146.936	mg/L	0.0294	146.936	mg/L	0.0294	0.02%
Mn 257.610†	358838.2	8.47977	mg/L	0.003959	8.47977	mg/L	0.003959	0.05%
K 766.490†	46004.0	39.3623	mg/L	0.12187	39.3623	mg/L	0.12187	0.31%
Na 589.592†	120081.8	20.3417	mg/L	0.03975	20.3417	mg/L	0.03975	0.20%
Ti 334.940†	308414.0	6.41997	mg/L	0.008515	6.41997	mg/L	0.008515	0.13%

Sequence No.: 24
Sample ID: 78787-004
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 100
Date Collected: 5/28/2014 2:06:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-004

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	21684.3	102.535	%	0.6185				0.60%
Sc 361.383	64325.7	105	%	0.2				0.20%
Al 308.215†	24.3	-0.0012676	mg/L	0.00195311	-0.0012676	mg/L	0.00195311	154.08%
Ca 315.887†	134678.1	16.6126	mg/L	0.15631	16.6126	mg/L	0.15631	0.94%
Fe 273.955†	82.3	0.0369683	mg/L	0.00063347	0.0369683	mg/L	0.00063347	1.71%
Mg 279.077†	9146.6	6.50571	mg/L	0.027391	6.50571	mg/L	0.027391	0.42%
Mn 257.610†	875.5	0.0184486	mg/L	0.00013034	0.0184486	mg/L	0.00013034	0.71%
K 766.490†	5755.5	4.68761	mg/L	0.154399	4.68761	mg/L	0.154399	3.29%
Na 589.592†	188516.8	32.0302	mg/L	0.38352	32.0302	mg/L	0.38352	1.20%
Ti 334.940†	-3.4	-0.0013244	mg/L	0.00050607	-0.0013244	mg/L	0.00050607	38.21%

Sequence No.: 25
Sample ID: 78787-005
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 101
Date Collected: 5/28/2014 2:09:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-005

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21906.9	103.587	%	1.7491				1.69%
Sc 361.383	64443.2	105	%	2.2				2.08%
Al 308.215†	4.4	-0.0157933	mg/L	0.00654241	-0.0157933	mg/L	0.00654241	41.43%
Ca 315.887†	325.8	-0.276525	mg/L	0.0052826	-0.276525	mg/L	0.0052826	1.91%
Fe 273.955†	32.8	0.0019011	mg/L	0.01293250	0.0019011	mg/L	0.01293250	680.26%
Mg 279.077†	41.1	-0.249618	mg/L	0.0233782	-0.249618	mg/L	0.0233782	9.37%
Mn 257.610†	3.7	-0.0016915	mg/L	0.00054294	-0.0016915	mg/L	0.00054294	32.10%
K 766.490†	-43.4	-0.308207	mg/L	0.0130824	-0.308207	mg/L	0.0130824	4.24%
Na 589.592†	-3116.3	-0.700313	mg/L	0.1049180	-0.700313	mg/L	0.1049180	14.98%
Ti 334.940†	22.4	-0.0007882	mg/L	0.00012368	-0.0007882	mg/L	0.00012368	15.69%

Sequence No.: 26
Sample ID: 78787-006
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 102
Date Collected: 5/28/2014 2:13:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-006

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21736.8	102.783	%	0.0547				0.05%
Sc 361.383	63707.2	104	%	0.5				0.52%
Al 308.215†	-22.6	-0.0355945	mg/L	0.00340873	-0.0355945	mg/L	0.00340873	9.58%
Ca 315.887†	649.1	-0.235887	mg/L	0.0038365	-0.235887	mg/L	0.0038365	1.63%
Fe 273.955†	66.7	0.0258708	mg/L	0.00453374	0.0258708	mg/L	0.00453374	17.52%
Mg 279.077†	3.0	-0.277879	mg/L	0.0100087	-0.277879	mg/L	0.0100087	3.60%
Mn 257.610†	14.2	-0.0014352	mg/L	0.00038846	-0.0014352	mg/L	0.00038846	27.07%
K 766.490†	13.1	-0.259482	mg/L	0.0325361	-0.259482	mg/L	0.0325361	12.54%
Na 589.592†	-2812.5	-0.648426	mg/L	0.0142248	-0.648426	mg/L	0.0142248	2.19%
Ti 334.940†	15.8	-0.0009240	mg/L	0.00002835	-0.0009240	mg/L	0.00002835	3.07%

Sequence No.: 27
Sample ID: ICSA V-185195
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/28/2014 2:16:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185195

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	19655.7	92.9426	%	0.55737				0.60%
Sc 361.383	58991.6	96.5	%	0.64				0.67%
Al 308.215†	690298.8	505.595	mg/L	3.2786	505.595	mg/L	3.2786	0.65%
QC value within limits for Al 308.215 Recovery = 101.12%								
Ca 315.887†	3995315.8	501.924	mg/L	3.5418	501.924	mg/L	3.5418	0.71%
QC value within limits for Ca 315.887 Recovery = 100.38%								
Fe 273.955†	278241.3	196.966	mg/L	1.1824	196.966	mg/L	1.1824	0.60%
QC value within limits for Fe 273.955 Recovery = 98.48%								
Mg 279.077†	697816.5	517.430	mg/L	3.8256	517.430	mg/L	3.8256	0.74%
QC value within limits for Mg 279.077 Recovery = 103.49%								
Mn 257.610†	-3718.2	0.0408075	mg/L	0.00039169	0.0408075	mg/L	0.00039169	0.96%
QC value within limits for Mn 257.610 Recovery = 4.08%								
K 766.490†	389.4	0.0646510	mg/L	0.04919458	0.0646510	mg/L	0.04919458	76.09%
QC value within limits for K 766.490 Recovery = 6.47%								
Na 589.592†	5748.2	0.813725	mg/L	0.0501733	0.813725	mg/L	0.0501733	6.17%
QC value within limits for Na 589.592 Recovery = 81.37%								
Ti 334.940†	-1281.3	-0.0279303	mg/L	0.00082560	-0.0279303	mg/L	0.00082560	2.96%
QC value within limits for Ti 334.940 Recovery = -2.79%								

All analyte(s) passed QC.

Sequence No.: 28
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/28/2014 2:20:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	19497.9	92.1962	%	1.79711				1.95%
Sc 361.383	58716.9	96.1	%	1.74				1.81%
Al 308.215†	690753.1	505.928	mg/L	6.1055	505.928	mg/L	6.1055	1.21%
QC value within limits for Al 308.215 Recovery = 101.19%								
Ca 315.887†	3997450.4	502.192	mg/L	7.1194	502.192	mg/L	7.1194	1.42%
QC value within limits for Ca 315.887 Recovery = 100.44%								
Fe 273.955†	278795.8	197.359	mg/L	2.6150	197.359	mg/L	2.6150	1.32%
QC value within limits for Fe 273.955 Recovery = 98.68%								
Mg 279.077†	698398.6	517.862	mg/L	8.8258	517.862	mg/L	8.8258	1.70%
QC value within limits for Mg 279.077 Recovery = 103.57%								
Mn 257.610†	18210.1	0.547093	mg/L	0.0002211	0.547093	mg/L	0.0002211	0.04%
QC value within limits for Mn 257.610 Recovery = 109.42%								
K 766.490†	360.2	0.0395025	mg/L	0.03624047	0.0395025	mg/L	0.03624047	91.74%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	4969.9	0.680792	mg/L	0.0774881	0.680792	mg/L	0.0774881	11.38%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-1327.0	-0.0288819	mg/L	0.00042765	-0.0288819	mg/L	0.00042765	1.48%

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/28/2014 2:23:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20704.2	97.9002	%	0.18468				0.19%
Sc 361.383	61204.0	100	%	0.1				0.14%
Al 308.215†	6948.5	5.07044	mg/L	0.014599	5.07044	mg/L	0.014599	0.29%
QC value within limits for Al 308.215 Recovery = 101.41%								
Ca 315.887†	410986.3	51.3466	mg/L	0.63638	51.3466	mg/L	0.63638	1.24%
QC value within limits for Ca 315.887 Recovery = 102.69%								
Fe 273.955†	7163.5	5.05026	mg/L	0.001125	5.05026	mg/L	0.001125	0.02%
QC value within limits for Fe 273.955 Recovery = 101.01%								
Mg 279.077†	71060.4	52.4396	mg/L	0.11073	52.4396	mg/L	0.11073	0.21%
QC value within limits for Mg 279.077 Recovery = 104.88%								
Mn 257.610†	22063.1	0.510654	mg/L	0.0003105	0.510654	mg/L	0.0003105	0.06%
QC value within limits for Mn 257.610 Recovery = 102.13%								
K 766.490†	60735.7	52.0539	mg/L	0.17723	52.0539	mg/L	0.17723	0.34%
QC value within limits for K 766.490 Recovery = 104.11%								
Na 589.592†	298706.9	50.8504	mg/L	0.67384	50.8504	mg/L	0.67384	1.33%
QC value within limits for Na 589.592 Recovery = 101.70%								
Ti 334.940†	24376.5	0.506267	mg/L	0.0002640	0.506267	mg/L	0.0002640	0.05%
QC value within limits for Ti 334.940 Recovery = 101.25%								

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/28/2014 2:26:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21085.2	99.7018	%	1.64040				1.65%
Sc 361.383	62155.4	102	%	2.1				2.02%
Al 308.215†	323.3	0.217750	mg/L	0.0003311	0.217750	mg/L	0.0003311	0.15%
QC value within limits for Al 308.215 Recovery = 108.88%								
Ca 315.887†	38889.9	4.57127	mg/L	0.088238	4.57127	mg/L	0.088238	1.93%
QC value within limits for Ca 315.887 Recovery = 91.43%								
Fe 273.955†	429.6	0.282814	mg/L	0.0057243	0.282814	mg/L	0.0057243	2.02%
QC value within limits for Fe 273.955 Recovery = 94.27%								
Mg 279.077†	6969.2	4.89030	mg/L	0.104344	4.89030	mg/L	0.104344	2.13%
QC value within limits for Mg 279.077 Recovery = 97.81%								
Mn 257.610†	1730.1	0.0383309	mg/L	0.00095714	0.0383309	mg/L	0.00095714	2.50%
QC value within limits for Mn 257.610 Recovery = 95.83%								
K 766.490†	5308.3	4.30240	mg/L	0.008422	4.30240	mg/L	0.008422	0.20%
QC value within limits for K 766.490 Recovery = 86.05%								
Na 589.592†	25627.1	4.20901	mg/L	0.038988	4.20901	mg/L	0.038988	0.93%
QC value within limits for Na 589.592 Recovery = 84.18%								
Ti 334.940†	2251.8	0.0456294	mg/L	0.00121880	0.0456294	mg/L	0.00121880	2.67%
QC value within limits for Ti 334.940 Recovery = 91.26%								

All analyte(s) passed QC.

Sequence No.: 31
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/28/2014 2:29:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21224.7	100.362	%	0.5536				0.55%
Sc 361.383	61285.5	100	%	0.5				0.47%
Al 308.215†	-5.9	-0.0233433	mg/L	0.00914824	-0.0233433	mg/L	0.00914824	39.19%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	22.1	-0.314708	mg/L	0.0016415	-0.314708	mg/L	0.0016415	0.52%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-11.9	-0.0297531	mg/L	0.00147498	-0.0297531	mg/L	0.00147498	4.96%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-32.5	-0.304254	mg/L	0.0026829	-0.304254	mg/L	0.0026829	0.88%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	10.5	-0.0015550	mg/L	0.00012551	-0.0015550	mg/L	0.00012551	8.07%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	0.2	-0.270665	mg/L	0.0348099	-0.270665	mg/L	0.0348099	12.86%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	-3441.4	-0.755832	mg/L	0.0563315	-0.755832	mg/L	0.0563315	7.45%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	10.5	-0.0010352	mg/L	0.00020425	-0.0010352	mg/L	0.00020425	19.73%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 32
Sample ID: 78787-009
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 103
Date Collected: 5/28/2014 2:33:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-009

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	26325.7	124.482	%	0.9920				0.80%
Sc 361.383	65480.4	107	%	1.5				1.42%
Al 308.215†	64484.6	47.2132	mg/L	0.02019	47.2132	mg/L	0.02019	0.04%
Ca 315.887†	517987.7	64.7975	mg/L	0.12388	64.7975	mg/L	0.12388	0.19%
Fe 273.955†	151172.6	107.005	mg/L	0.0778	107.005	mg/L	0.0778	0.07%
Mg 279.077†	95585.8	70.6350	mg/L	0.30439	70.6350	mg/L	0.30439	0.43%
Mn 257.610†	200754.4	4.70069	mg/L	0.005613	4.70069	mg/L	0.005613	0.12%
K 766.490†	22170.7	18.8296	mg/L	0.20588	18.8296	mg/L	0.20588	1.09%
Na 589.592†	118002.5	19.9865	mg/L	0.00657	19.9865	mg/L	0.00657	0.03%
Ti 334.940†	136261.7	2.83573	mg/L	0.002727	2.83573	mg/L	0.002727	0.10%

Sequence No.: 33
Sample ID: 78787-010
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 104
Date Collected: 5/28/2014 2:35:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-010

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	21449.9	101.426	%	0.6639				0.65%
Sc 361.383	63686.2	104	%	0.5				0.43%
Al 308.215†	-3.3	-0.0214356	mg/L	0.00195696	-0.0214356	mg/L	0.00195696	9.13%
Ca 315.887†	241444.7	30.0339	mg/L	0.24945	30.0339	mg/L	0.24945	0.83%
Fe 273.955†	17.0	-0.0092892	mg/L	0.00347121	-0.0092892	mg/L	0.00347121	37.37%
Mg 279.077†	13004.0	9.36751	mg/L	0.036979	9.36751	mg/L	0.036979	0.39%
Mn 257.610†	284.7	0.0047859	mg/L	0.00011864	0.0047859	mg/L	0.00011864	2.48%
K 766.490†	8005.1	6.62568	mg/L	0.067367	6.62568	mg/L	0.067367	1.02%
Na 589.592†	111626.7	18.8975	mg/L	0.17975	18.8975	mg/L	0.17975	0.95%
Ti 334.940†	-80.9	-0.0029386	mg/L	0.00015765	-0.0029386	mg/L	0.00015765	5.36%

Sequence No.: 34
Sample ID: 78787-011 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 120
Date Collected: 5/28/2014 2:39:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-011 2D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	45007.4	212.819	%	0.0957				0.04%
Sc 361.383	73176.4	120	%	0.3				0.22%
Al 308.215†	311724.5	228.306	mg/L	0.0997	228.306	mg/L	0.0997	0.04%
Ca 315.887†	1832563.1	230.050	mg/L	1.9997	230.050	mg/L	1.9997	0.87%
Fe 273.955†	728972.1	516.072	mg/L	1.2068	516.072	mg/L	1.2068	0.23%
Mg 279.077†	496878.7	368.354	mg/L	0.2739	368.354	mg/L	0.2739	0.07%
Mn 257.610†	889391.8	20.8587	mg/L	0.16859	20.8587	mg/L	0.16859	0.81%
K 766.490†	75762.9	65.0000	mg/L	0.45034	65.0000	mg/L	0.45034	0.69%
Na 589.592†	73998.9	12.4708	mg/L	0.00427	12.4708	mg/L	0.00427	0.03%
Ti 334.940†	543118.9	11.3066	mg/L	0.00113	11.3066	mg/L	0.00113	0.01%

Sequence No.: 35
Sample ID: 78787-012
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 106
Date Collected: 5/28/2014 2:41:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-012

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21607.6	102.172	%	1.8200				1.78%
Sc 361.383	64038.4	105	%	1.1				1.06%
Al 308.215†	39.5	0.0098903	mg/L	0.00113872	0.0098903	mg/L	0.00113872	11.51%
Ca 315.887†	254631.0	31.6916	mg/L	0.01955	31.6916	mg/L	0.01955	0.06%
Fe 273.955†	40.3	0.0071752	mg/L	0.01070036	0.0071752	mg/L	0.01070036	149.13%
Mg 279.077†	13689.6	9.87617	mg/L	0.129141	9.87617	mg/L	0.129141	1.31%
Mn 257.610†	192.4	0.0026668	mg/L	0.00013084	0.0026668	mg/L	0.00013084	4.91%
K 766.490†	9023.0	7.50263	mg/L	0.187926	7.50263	mg/L	0.187926	2.50%
Na 589.592†	107614.9	18.2123	mg/L	0.17074	18.2123	mg/L	0.17074	0.94%
Ti 334.940†	-37.1	-0.0020262	mg/L	0.00005133	-0.0020262	mg/L	0.00005133	2.53%

Sequence No.: 36
Sample ID: 78787-016 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 122
Date Collected: 5/28/2014 2:45:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-016 2D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	54979.7	259.973	%	3.8550				1.48%
Sc 361.383	81225.1	133	%	1.5				1.10%
Al 308.215†	478921.8	350.771	mg/L	1.1247	350.771	mg/L	1.1247	0.32%
Ca 315.887†	2679539.0	336.521	mg/L	2.6143	336.521	mg/L	2.6143	0.78%
Fe 273.955†	965148.3	683.278	mg/L	4.8695	683.278	mg/L	4.8695	0.71%
Mg 279.077†	809255.9	600.107	mg/L	4.6624	600.107	mg/L	4.6624	0.78%
Mn 257.610†	1132195.9	26.5708	mg/L	0.19660	26.5708	mg/L	0.19660	0.74%
K 766.490†	112130.5	96.3312	mg/L	0.85339	96.3312	mg/L	0.85339	0.89%
Na 589.592†	110965.8	18.7847	mg/L	0.01645	18.7847	mg/L	0.01645	0.09%
Ti 334.940†	506954.9	10.5536	mg/L	0.08755	10.5536	mg/L	0.08755	0.83%

Sequence No.: 37
Sample ID: 78787-016 4D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 123
Date Collected: 5/28/2014 2:48:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-016 4D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	38244.2	180.839	%	0.7807				0.43%
Sc 361.383	71552.1	117	%	0.7				0.63%
Al 308.215†	277964.0	203.578	mg/L	0.1872	203.578	mg/L	0.1872	0.09%
Ca 315.887†	1586432.3	199.109	mg/L	5.4069	199.109	mg/L	5.4069	2.72%
Fe 273.955†	567641.2	401.854	mg/L	0.0025	401.854	mg/L	0.0025	0.00%
Mg 279.077†	473494.5	351.006	mg/L	0.3636	351.006	mg/L	0.3636	0.10%
Mn 257.610†	668374.6	15.6840	mg/L	0.40249	15.6840	mg/L	0.40249	2.57%
K 766.490†	61111.0	52.3772	mg/L	0.61521	52.3772	mg/L	0.61521	1.17%
Na 589.592†	60137.4	10.1033	mg/L	0.01887	10.1033	mg/L	0.01887	0.19%
Ti 334.940†	293030.7	6.09969	mg/L	0.005050	6.09969	mg/L	0.005050	0.08%

Sequence No.: 38
Sample ID: 78787-017
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 108
Date Collected: 5/28/2014 2:50:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78787-017

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21334.8	100.882	%	0.6102				0.60%
Sc 361.383	63482.9	104	%	0.5				0.51%
Al 308.215†	19.7	-0.0046407	mg/L	0.01009050	-0.0046407	mg/L	0.01009050	217.44%
Ca 315.887†	645336.8	80.8063	mg/L	0.30580	80.8063	mg/L	0.30580	0.38%
Fe 273.955†	35.2	0.0036172	mg/L	0.00845842	0.0036172	mg/L	0.00845842	233.84%
Mg 279.077†	19862.7	14.4560	mg/L	0.15629	14.4560	mg/L	0.15629	1.08%
Mn 257.610†	236.0	0.0036704	mg/L	0.00020026	0.0036704	mg/L	0.00020026	5.46%
K 766.490†	16461.7	13.9112	mg/L	0.06145	13.9112	mg/L	0.06145	0.44%
Na 589.592†	286750.4	48.8083	mg/L	0.22949	48.8083	mg/L	0.22949	0.47%
Ti 334.940†	-212.2	-0.0056713	mg/L	0.00007502	-0.0056713	mg/L	0.00007502	1.32%

Sequence No.: 39
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/28/2014 2:54:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20782.1	98.2688	%	0.10847				0.11%
Sc 361.383	61248.1	100	%	0.2				0.15%
Al 308.215†	7009.9	5.11542	mg/L	0.031395	5.11542	mg/L	0.031395	0.61%
QC value within limits for Al 308.215 Recovery = 102.31%								
Ca 315.887†	408117.1	50.9859	mg/L	0.06387	50.9859	mg/L	0.06387	0.13%
QC value within limits for Ca 315.887 Recovery = 101.97%								
Fe 273.955†	7220.1	5.09031	mg/L	0.031739	5.09031	mg/L	0.031739	0.62%
QC value within limits for Fe 273.955 Recovery = 101.81%								
Mg 279.077†	71652.8	52.8791	mg/L	0.12938	52.8791	mg/L	0.12938	0.24%
QC value within limits for Mg 279.077 Recovery = 105.76%								
Mn 257.610†	22236.4	0.514679	mg/L	0.0017733	0.514679	mg/L	0.0017733	0.34%
QC value within limits for Mn 257.610 Recovery = 102.94%								
K 766.490†	58738.4	50.3332	mg/L	0.37295	50.3332	mg/L	0.37295	0.74%
QC value within limits for K 766.490 Recovery = 100.67%								
Na 589.592†	296014.2	50.3905	mg/L	0.43549	50.3905	mg/L	0.43549	0.86%
QC value within limits for Na 589.592 Recovery = 100.78%								
Ti 334.940†	24584.7	0.510603	mg/L	0.0029469	0.510603	mg/L	0.0029469	0.58%
QC value within limits for Ti 334.940 Recovery = 102.12%								

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/28/2014 2:57:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21123.3	99.8823	%	0.74110				0.74%
Sc 361.383	62350.8	102	%	1.0				1.03%
Al 308.215†	345.0	0.233616	mg/L	0.0128734	0.233616	mg/L	0.0128734	5.51%
QC value within limits for Al 308.215 Recovery = 116.81%								
Ca 315.887†	39505.7	4.64869	mg/L	0.019953	4.64869	mg/L	0.019953	0.43%
QC value within limits for Ca 315.887 Recovery = 92.97%								
Fe 273.955†	423.8	0.278695	mg/L	0.0010913	0.278695	mg/L	0.0010913	0.39%
QC value within limits for Fe 273.955 Recovery = 92.90%								
Mg 279.077†	6933.5	4.86387	mg/L	0.055264	4.86387	mg/L	0.055264	1.14%
QC value within limits for Mg 279.077 Recovery = 97.28%								
Mn 257.610†	1724.0	0.0381867	mg/L	0.00040933	0.0381867	mg/L	0.00040933	1.07%
QC value within limits for Mn 257.610 Recovery = 95.47%								
K 766.490†	5508.1	4.47451	mg/L	0.003793	4.47451	mg/L	0.003793	0.08%
QC value within limits for K 766.490 Recovery = 89.49%								
Na 589.592†	23799.8	3.89691	mg/L	0.087745	3.89691	mg/L	0.087745	2.25%
QC value within limits for Na 589.592 Recovery = 77.94%								
Ti 334.940†	2280.4	0.0462237	mg/L	0.00036274	0.0462237	mg/L	0.00036274	0.78%
QC value within limits for Ti 334.940 Recovery = 92.45%								

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/28/2014 3:00:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21259.5	100.526	%	1.7251				1.72%
Sc 361.383	61487.0	101	%	1.5				1.44%
Al 308.215†	-24.4	-0.0369156	mg/L	0.01551125	-0.0369156	mg/L	0.01551125	42.02%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	33.7	-0.313244	mg/L	0.0022139	-0.313244	mg/L	0.0022139	0.71%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-6.3	-0.0257651	mg/L	0.00149395	-0.0257651	mg/L	0.00149395	5.80%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-11.6	-0.288708	mg/L	0.0037809	-0.288708	mg/L	0.0037809	1.31%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	22.4	-0.0012793	mg/L	0.00011729	-0.0012793	mg/L	0.00011729	9.17%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	95.6	-0.188435	mg/L	0.0916886	-0.188435	mg/L	0.0916886	48.66%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	-4618.2	-0.956825	mg/L	0.2200284	-0.956825	mg/L	0.2200284	23.00%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	14.7	-0.0009479	mg/L	0.00027559	-0.0009479	mg/L	0.00027559	29.07%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: 78790-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 109
Date Collected: 5/28/2014 3:03:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78790-003

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	21755.5	102.871	%	0.7578				0.74%
Sc 361.383	63557.9	104	%	0.8				0.80%
Al 308.215†	-5.6	-0.0231841	mg/L	0.00108464	-0.0231841	mg/L	0.00108464	4.68%
Ca 315.887†	330.1	-0.275993	mg/L	0.0003161	-0.275993	mg/L	0.0003161	0.11%
Fe 273.955†	8.2	-0.0155260	mg/L	0.00267933	-0.0155260	mg/L	0.00267933	17.26%
Mg 279.077†	17.3	-0.267308	mg/L	0.0075514	-0.267308	mg/L	0.0075514	2.82%
Mn 257.610†	4.7	-0.0016799	mg/L	0.00019029	-0.0016799	mg/L	0.00019029	11.33%
K 766.490†	25.5	-0.248870	mg/L	0.0456711	-0.248870	mg/L	0.0456711	18.35%
Na 589.592†	-5085.6	-1.03666	mg/L	0.020858	-1.03666	mg/L	0.020858	2.01%
Ti 334.940†	5.4	-0.0011416	mg/L	0.00000506	-0.0011416	mg/L	0.00000506	0.44%

Sequence No.: 43
Sample ID: 78792-009
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 110
Date Collected: 5/28/2014 3:06:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78792-009

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21562.8	101.960	%	0.3500				0.34%
Sc 361.383	63225.2	103	%	0.5				0.45%
Al 308.215†	2.3	-0.0173556	mg/L	0.00420504	-0.0173556	mg/L	0.00420504	24.23%
Ca 315.887†	909.0	-0.203215	mg/L	0.0010000	-0.203215	mg/L	0.0010000	0.49%
Fe 273.955†	3.1	-0.0191058	mg/L	0.00326386	-0.0191058	mg/L	0.00326386	17.08%
Mg 279.077†	15.1	-0.268926	mg/L	0.0017479	-0.268926	mg/L	0.0017479	0.65%
Mn 257.610†	20.8	-0.0013112	mg/L	0.00000060	-0.0013112	mg/L	0.00000060	0.05%
K 766.490†	19.8	-0.253756	mg/L	0.0010949	-0.253756	mg/L	0.0010949	0.43%
Na 589.592†	-5016.6	-1.02487	mg/L	0.029601	-1.02487	mg/L	0.029601	2.89%
Ti 334.940†	11.5	-0.0010144	mg/L	0.00009473	-0.0010144	mg/L	0.00009473	9.34%

Sequence No.: 44
Sample ID: 78818-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 111
Date Collected: 5/28/2014 3:10:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78818-003

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21646.2	102.355	%	0.5129				0.50%
Sc 361.383	63358.0	104	%	0.5				0.44%
Al 308.215†	17.3	-0.0063948	mg/L	0.00443636	-0.0063948	mg/L	0.00443636	69.37%
Ca 315.887†	800.1	-0.216901	mg/L	0.0011084	-0.216901	mg/L	0.0011084	0.51%
Fe 273.955†	2.9	-0.0192589	mg/L	0.00439324	-0.0192589	mg/L	0.00439324	22.81%
Mg 279.077†	11.9	-0.271275	mg/L	0.0005511	-0.271275	mg/L	0.0005511	0.20%
Mn 257.610†	9.9	-0.0015635	mg/L	0.00003132	-0.0015635	mg/L	0.00003132	2.00%
K 766.490†	-46.2	-0.310625	mg/L	0.0674493	-0.310625	mg/L	0.0674493	21.71%
Na 589.592†	-5191.5	-1.05474	mg/L	0.023417	-1.05474	mg/L	0.023417	2.22%
Ti 334.940†	22.7	-0.0007807	mg/L	0.00006182	-0.0007807	mg/L	0.00006182	7.92%

Sequence No.: 45
Sample ID: 78829-014
Analyst:
Initial Sample Wt:
Dilution:

missed cup (not used)

Autosampler Location: 112
Date Collected: 5/28/2014 3:13:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78829-014

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	25994.5	122.916	%	1.0067				0.82%
Sc 361.383	66177.3	108	%	1.0				0.89%
Al 308.215†	184377.6	135.030	mg/L	0.0804	135.030	mg/L	0.0804	0.06%
Ca 315.887†	213157.3	26.4780	mg/L	0.11174	26.4780	mg/L	0.11174	0.42%
Fe 273.955†	253299.1	179.308	mg/L	0.9588	179.308	mg/L	0.9588	0.53%
Mg 279.077†	13387.2	9.65184	mg/L	0.100436	9.65184	mg/L	0.100436	1.04%
Mn 257.610†	39893.1	1.03570	mg/L	0.004871	1.03570	mg/L	0.004871	0.47%
K 766.490†	4847.4	3.90531	mg/L	0.049021	3.90531	mg/L	0.049021	1.26%
Na 589.592†	-2913.3	-0.665636	mg/L	0.0201396	-0.665636	mg/L	0.0201396	3.03%
Ti 334.940†	58250.5	1.21153	mg/L	0.003728	1.21153	mg/L	0.003728	0.31%

Sequence No.: 46
Sample ID: ICSA V-185195
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/28/2014 3:16:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185195

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	19578.6	92.5780	%	0.88962				0.96%
Sc 361.383	58949.3	96.5	%	0.54				0.56%
Al 308.215†	688774.0	504.479	mg/L	2.8008	504.479	mg/L	2.8008	0.56%
QC value within limits for Al 308.215 Recovery = 100.90%								
Ca 315.887†	3989787.1	501.229	mg/L	2.9100	501.229	mg/L	2.9100	0.58%
QC value within limits for Ca 315.887 Recovery = 100.25%								
Fe 273.955†	277686.5	196.573	mg/L	0.9955	196.573	mg/L	0.9955	0.51%
QC value within limits for Fe 273.955 Recovery = 98.29%								
Mg 279.077†	697741.1	517.374	mg/L	3.1309	517.374	mg/L	3.1309	0.61%
QC value within limits for Mg 279.077 Recovery = 103.47%								
Mn 257.610†	-3721.0	0.0404875	mg/L	0.00110993	0.0404875	mg/L	0.00110993	2.74%
QC value within limits for Mn 257.610 Recovery = 4.05%								
K 766.490†	287.3	-0.0233027	mg/L	0.03007679	-0.0233027	mg/L	0.03007679	129.07%
QC value within limits for K 766.490 Recovery = -2.33%								
Na 589.592†	1798.7	0.139165	mg/L	0.0530157	0.139165	mg/L	0.0530157	38.10%
QC value within limits for Na 589.592 Recovery = 13.92%								
Ti 334.940†	-1301.8	-0.0283578	mg/L	0.00152259	-0.0283578	mg/L	0.00152259	5.37%
QC value within limits for Ti 334.940 Recovery = -2.84%								

All analyte(s) passed QC.

Sequence No.: 47
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/28/2014 3:19:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	19620.1	92.7741	%	0.59545				0.64%
Sc 361.383	59043.6	96.6	%	0.37				0.38%
Al 308.215†	689536.8	505.037	mg/L	2.8590	505.037	mg/L	2.8590	0.57%
QC value within limits for Al 308.215 Recovery = 101.01%								
Ca 315.887†	3995144.8	501.903	mg/L	4.0578	501.903	mg/L	4.0578	0.81%
QC value within limits for Ca 315.887 Recovery = 100.38%								
Fe 273.955†	280621.7	198.651	mg/L	0.3310	198.651	mg/L	0.3310	0.17%
QC value within limits for Fe 273.955 Recovery = 99.33%								
Mg 279.077†	698692.1	518.080	mg/L	4.8080	518.080	mg/L	4.8080	0.93%
QC value within limits for Mg 279.077 Recovery = 103.62%								
Mn 257.610†	17917.1	0.541174	mg/L	0.0015371	0.541174	mg/L	0.0015371	0.28%
QC value within limits for Mn 257.610 Recovery = 108.23%								
K 766.490†	217.1	-0.0837539	mg/L	0.07386305	-0.0837539	mg/L	0.07386305	88.19%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	2139.2	0.197323	mg/L	0.0348099	0.197323	mg/L	0.0348099	17.64%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-1352.3	-0.0294095	mg/L	0.00101402	-0.0294095	mg/L	0.00101402	3.45%

All analyte(s) passed QC.

Sequence No.: 48
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/28/2014 3:23:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20660.6	97.6943	%	1.49068				1.53%
Sc 361.383	60670.4	99.3	%	1.78				1.79%
Al 308.215†	6993.5	5.10340	mg/L	0.002469	5.10340	mg/L	0.002469	0.05%
QC value within limits for Al 308.215 Recovery = 102.07%								
Ca 315.887†	416977.1	52.0997	mg/L	1.99047	52.0997	mg/L	1.99047	3.82%
QC value within limits for Ca 315.887 Recovery = 104.20%								
Fe 273.955†	7239.0	5.10367	mg/L	0.016954	5.10367	mg/L	0.016954	0.33%
QC value within limits for Fe 273.955 Recovery = 102.07%								
Mg 279.077†	71603.5	52.8425	mg/L	0.21355	52.8425	mg/L	0.21355	0.40%
QC value within limits for Mg 279.077 Recovery = 105.69%								
Mn 257.610†	22233.2	0.514613	mg/L	0.0016769	0.514613	mg/L	0.0016769	0.33%
QC value within limits for Mn 257.610 Recovery = 102.92%								
K 766.490†	60277.0	51.6587	mg/L	0.22235	51.6587	mg/L	0.22235	0.43%
QC value within limits for K 766.490 Recovery = 103.32%								
Na 589.592†	300714.5	51.1933	mg/L	2.14673	51.1933	mg/L	2.14673	4.19%
QC value within limits for Na 589.592 Recovery = 102.39%								
Ti 334.940†	24563.7	0.510165	mg/L	0.0005186	0.510165	mg/L	0.0005186	0.10%
QC value within limits for Ti 334.940 Recovery = 102.03%								

All analyte(s) passed QC.

Sequence No.: 49
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/28/2014 3:26:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21409.7	101.236	%	0.4510				0.45%
Sc 361.383	63288.1	104	%	0.3				0.31%
Al 308.215†	324.8	0.218868	mg/L	0.0231953	0.218868	mg/L	0.0231953	10.60%
QC value within limits for Al 308.215 Recovery = 109.43%								
Ca 315.887†	39694.7	4.67245	mg/L	0.034927	4.67245	mg/L	0.034927	0.75%
QC value within limits for Ca 315.887 Recovery = 93.45%								
Fe 273.955†	425.7	0.280050	mg/L	0.0070692	0.280050	mg/L	0.0070692	2.52%
QC value within limits for Fe 273.955 Recovery = 93.35%								
Mg 279.077†	6929.7	4.86101	mg/L	0.042096	4.86101	mg/L	0.042096	0.87%
QC value within limits for Mg 279.077 Recovery = 97.22%								
Mn 257.610†	1718.1	0.0380526	mg/L	0.00023243	0.0380526	mg/L	0.00023243	0.61%
QC value within limits for Mn 257.610 Recovery = 95.13%								
K 766.490†	5474.9	4.44587	mg/L	0.060568	4.44587	mg/L	0.060568	1.36%
QC value within limits for K 766.490 Recovery = 88.92%								
Na 589.592†	24155.7	3.95769	mg/L	0.073037	3.95769	mg/L	0.073037	1.85%
QC value within limits for Na 589.592 Recovery = 79.15%								
Ti 334.940†	2282.8	0.0462752	mg/L	0.00001372	0.0462752	mg/L	0.00001372	0.03%
QC value within limits for Ti 334.940 Recovery = 92.55%								

All analyte(s) passed QC.

Sequence No.: 50
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/28/2014 3:29:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21324.1	100.832	%	0.0398				0.04%
Sc 361.383	61522.8	101	%	0.2				0.19%
Al 308.215†	-11.7	-0.0275832	mg/L	0.00317421	-0.0275832	mg/L	0.00317421	11.51%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	52.2	-0.310919	mg/L	0.0031334	-0.310919	mg/L	0.0031334	1.01%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-9.0	-0.0276953	mg/L	0.00686300	-0.0276953	mg/L	0.00686300	24.78%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-33.8	-0.305165	mg/L	0.0028213	-0.305165	mg/L	0.0028213	0.92%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	3.2	-0.0017234	mg/L	0.00007199	-0.0017234	mg/L	0.00007199	4.18%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	45.6	-0.231491	mg/L	0.0227812	-0.231491	mg/L	0.0227812	9.84%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	-4991.4	-1.02056	mg/L	0.012147	-1.02056	mg/L	0.012147	1.19%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	6.7	-0.0011137	mg/L	0.00046523	-0.0011137	mg/L	0.00046523	41.77%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 51
Sample ID: 78829-014
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 112
Date Collected: 5/28/2014 3:32:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 78829-014

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21623.0	102.245	%	0.3291				0.32%
Sc 361.383	63401.2	104	%	0.7				0.64%
Al 308.215†	-7.9	-0.0248179	mg/L	0.00267035	-0.0248179	mg/L	0.00267035	10.76%
Ca 315.887†	460.3	-0.259624	mg/L	0.0003130	-0.259624	mg/L	0.0003130	0.12%
Fe 273.955†	22.7	-0.0052826	mg/L	0.00141511	-0.0052826	mg/L	0.00141511	26.79%
Mg 279.077†	17.3	-0.267284	mg/L	0.0195298	-0.267284	mg/L	0.0195298	7.31%
Mn 257.610†	7.0	-0.0016202	mg/L	0.00014908	-0.0016202	mg/L	0.00014908	9.20%
K 766.490†	63.6	-0.215985	mg/L	0.0112713	-0.215985	mg/L	0.0112713	5.22%
Na 589.592†	-4963.3	-1.01577	mg/L	0.047090	-1.01577	mg/L	0.047090	4.64%
Ti 334.940†	29.7	-0.0006352	mg/L	0.00072143	-0.0006352	mg/L	0.00072143	113.58%

Sequence No.: 52
Sample ID: ICSA V-185195
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/28/2014 3:36:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-185195

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	19594.4	92.6525	%	0.00448				0.00%
Sc 361.383	59266.1	97.0	%	0.03				0.03%
Al 308.215†	687522.5	503.562	mg/L	4.2110	503.562	mg/L	4.2110	0.84%
Ca 315.887†	3978848.6	499.854	mg/L	4.8415	499.854	mg/L	4.8415	0.97%
Fe 273.955†	278636.7	197.246	mg/L	0.1991	197.246	mg/L	0.1991	0.10%
Mg 279.077†	694878.0	515.250	mg/L	5.5261	515.250	mg/L	5.5261	1.07%
Mn 257.610†	-3678.6	0.0419044	mg/L	0.00001986	0.0419044	mg/L	0.00001986	0.05%
K 766.490†	237.0	-0.0665952	mg/L	0.09014265	-0.0665952	mg/L	0.09014265	135.36%
Na 589.592†	1534.1	0.0939672	mg/L	0.03044709	0.0939672	mg/L	0.03044709	32.40%
Ti 334.940†	-1319.4	-0.0287239	mg/L	0.00079233	-0.0287239	mg/L	0.00079233	2.76%

Sequence No.: 53
Sample ID: ICSAB V-185755
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 5/28/2014 3:39:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-185755

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	19524.6	92.3227	%	0.50659				0.55%
Sc 361.383	59067.6	96.7	%	0.83				0.86%
Al 308.215†	699398.9	512.261	mg/L	0.4923	512.261	mg/L	0.4923	0.10%
Ca 315.887†	4051274.0	508.959	mg/L	0.1046	508.959	mg/L	0.1046	0.02%
Fe 273.955†	281029.8	198.940	mg/L	0.2326	198.940	mg/L	0.2326	0.12%
Mg 279.077†	709399.1	526.023	mg/L	0.4818	526.023	mg/L	0.4818	0.09%
Mn 257.610†	17974.9	0.542696	mg/L	0.0005789	0.542696	mg/L	0.0005789	0.11%
K 766.490†	227.5	-0.0748342	mg/L	0.02288167	-0.0748342	mg/L	0.02288167	30.58%
Na 589.592†	1272.8	0.0493354	mg/L	0.04711532	0.0493354	mg/L	0.04711532	95.50%
Ti 334.940†	-1343.1	-0.0292169	mg/L	0.00129370	-0.0292169	mg/L	0.00129370	4.43%

Sequence No.: 54
Sample ID: CCV V-185530
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/28/2014 3:43:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-185530

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20647.1	97.6304	%	0.13053				0.13%
Sc 361.383	60745.0	99.4	%	0.52				0.53%
Al 308.215†	7046.3	5.14209	mg/L	0.013978	5.14209	mg/L	0.013978	0.27%
Ca 315.887†	410773.6	51.3199	mg/L	0.00008	51.3199	mg/L	0.00008	0.00%
Fe 273.955†	7205.9	5.08025	mg/L	0.000194	5.08025	mg/L	0.000194	0.00%
Mg 279.077†	71362.3	52.6636	mg/L	0.02065	52.6636	mg/L	0.02065	0.04%
Mn 257.610†	22214.9	0.514176	mg/L	0.0004343	0.514176	mg/L	0.0004343	0.08%
K 766.490†	60614.9	51.9497	mg/L	0.15908	51.9497	mg/L	0.15908	0.31%
Na 589.592†	297020.0	50.5623	mg/L	0.05566	50.5623	mg/L	0.05566	0.11%
Ti 334.940†	24562.3	0.510137	mg/L	0.0001776	0.510137	mg/L	0.0001776	0.03%

Sequence No.: 55
Sample ID: LLCCV V-185635 [aq]
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/28/2014 3:46:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV V-185635 [aq]

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21219.6	100.337	%	1.4305				1.43%
Sc 361.383	62497.2	102	%	1.2				1.14%
Al 308.215†	329.0	0.221898	mg/L	0.0175605	0.221898	mg/L	0.0175605	7.91%
Ca 315.887†	39707.0	4.67398	mg/L	0.018278	4.67398	mg/L	0.018278	0.39%
Fe 273.955†	427.9	0.281577	mg/L	0.0003564	0.281577	mg/L	0.0003564	0.13%
Mg 279.077†	6865.3	4.81322	mg/L	0.055858	4.81322	mg/L	0.055858	1.16%
Mn 257.610†	1699.0	0.0376125	mg/L	0.00075045	0.0376125	mg/L	0.00075045	2.00%
K 766.490†	5454.3	4.42811	mg/L	0.072499	4.42811	mg/L	0.072499	1.64%
Na 589.592†	24436.5	4.00565	mg/L	0.031560	4.00565	mg/L	0.031560	0.79%
Ti 334.940†	2227.9	0.0451306	mg/L	0.00006837	0.0451306	mg/L	0.00006837	0.15%

Sequence No.: 56
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/28/2014 3:49:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	21322.9	100.826	%	0.7436				0.74%
Sc 361.383	61771.6	101	%	0.3				0.28%
Al 308.215†	-13.0	-0.0285747	mg/L	0.00660235	-0.0285747	mg/L	0.00660235	23.11%
Ca 315.887†	41.0	-0.312327	mg/L	0.0013231	-0.312327	mg/L	0.0013231	0.42%
Fe 273.955†	-6.5	-0.0259428	mg/L	0.00641395	-0.0259428	mg/L	0.00641395	24.72%
Mg 279.077†	-21.4	-0.295969	mg/L	0.0060679	-0.295969	mg/L	0.0060679	2.05%
Mn 257.610†	0.7	-0.0017792	mg/L	0.00003989	-0.0017792	mg/L	0.00003989	2.24%
K 766.490†	6.0	-0.265615	mg/L	0.0133846	-0.265615	mg/L	0.0133846	5.04%
Na 589.592†	-5281.0	-1.07003	mg/L	0.006369	-1.07003	mg/L	0.006369	0.60%
Ti 334.940†	3.4	-0.0011832	mg/L	0.00041798	-0.0011832	mg/L	0.00041798	35.33%

H16381SW

4052101 2052

1st Review QA 05/28/2014 V-187558

Analysis Begun

Logged In Analyst: johns
Spectrometer Model: FIMS-100, S/N B050-9550

Technique: AA FIMS-MHS
Autosampler Model: AS-91

5/29/14

Sample Information File: C:\data-AA\johns\Sample Information\H16381SW.sif
Batch ID: H16381SW
Results Data Set: H16381SW
Results Library: C:\data-AA\johns\Results\Results.mdb

Method Loaded
Method Name: HgCV1 SWH2O (7470A)
Method Description: HgCV1 SW846H2O

Method Last Saved: 7/5/2013 12:40:17 PM

Sequence No.: 1
Sample ID: Calibration Blank
Analyst:

Autosampler Location: 1
Date Collected: 5/28/2014 12:28:17 PM
Data Type: Original

Replicate Data: Calibration Blank

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	-0.0001	-0.0053	-0.0001	12:29:05	Yes
2		[0.00]	0.0001	-0.0003	0.0001	12:29:38	Yes
Mean:		[0.00]	0.0000				
SD:		0.00	0.0002				
%RSD:		0.00	>999.9%				

Auto-zero performed.

Sequence No.: 2
Sample ID: .2 PPB
Analyst:

Autosampler Location: 2
Date Collected: 5/28/2014 12:29:40 PM
Data Type: Original

Replicate Data: .2 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0014	0.0050	0.0014	12:30:26	Yes
2		[0.2]	0.0014	0.0058	0.0014	12:31:00	Yes
Mean:		[0.2]	0.0014				
SD:		0.0	0.0000				
%RSD:		0.0	0.06				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00708 Intercept: 0.00000

Sequence No.: 3
Sample ID: .5 PPB
Analyst:

Autosampler Location: 3
Date Collected: 5/28/2014 12:31:01 PM
Data Type: Original

Replicate Data: .5 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0029	0.0106	0.0029	12:31:48	Yes
2		[0.5]	0.0027	0.0087	0.0028	12:32:21	Yes
Mean:		[0.5]	0.0028				
SD:		0.0	0.0001				
%RSD:		0.0	3.03				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.992839 Slope: 0.00554 Intercept: 0.00012

Sequence No.: 4
Sample ID: 1 PPB
Analyst:

Autosampler Location: 4
Date Collected: 5/28/2014 12:32:22 PM
Data Type: Original

Replicate Data: 1 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	[1]	0.0066	0.0256	0.0066	12:33:09	Yes
2	[1]	0.0064	0.0235	0.0064	12:33:43	Yes
Mean:	[1]	0.0065				
SD:	0	0.0001				
%RSD:	0	2.21				

Standard number 3 applied. [1]
Correlation Coef.: 0.996394 Slope: 0.00636 Intercept: -0.00003

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: 2 PPB **Date Collected: 5/28/2014 12:33:44 PM**
Analyst: **Data Type: Original**

Replicate Data: 2 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2]	0.0136	0.0504	0.0136	12:34:31	Yes
2		[2]	0.0133	0.0483	0.0133	12:35:04	Yes
Mean:		[2]	0.0134				
SD:		0	0.0002				
%RSD:		0	1.66				

Standard number 4 applied. [2]
Correlation Coef.: 0.998855 Slope: 0.00673 Intercept: -0.00015

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: 5 PPB **Date Collected: 5/28/2014 12:35:06 PM**
Analyst: **Data Type: Original**

Replicate Data: 5 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0335	0.1245	0.0335	12:35:52	Yes
2		[5]	0.0333	0.1239	0.0333	12:36:25	Yes
Mean:		[5]	0.0334				
SD:		0	0.0002				
%RSD:		0	0.48				

Standard number 5 applied. [5]
Correlation Coef.: 0.999832 Slope: 0.00670 Intercept: -0.00014

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: 10 PPB **Date Collected: 5/28/2014 12:36:27 PM**
Analyst: **Data Type: Original**

Replicate Data: 10 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.0662	0.2470	0.0662	12:37:13	Yes
2		[10]	0.0658	0.2453	0.0658	12:37:47	Yes
Mean:		[10]	0.0660				
SD:		0	0.0003				
%RSD:		0	0.40				

Standard number 6 applied. [10]
Correlation Coef.: 0.999941 Slope: 0.00662 Intercept: -0.00005

Sequence No.: 8 **Autosampler Location: 8**
Sample ID: 25 PPB **Date Collected: 5/28/2014 12:37:48 PM**
Analyst: **Data Type: Original**

Replicate Data: 25 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[25]	0.1569	0.5904	0.1569	12:38:35	Yes
2		[25]	0.1574	0.5855	0.1574	12:39:08	Yes
Mean:		[25]	0.1572				
SD:		0	0.0004				
%RSD:		0	0.23				

Standard number 7 applied. [25]
Correlation Coef.: 0.999759 Slope: 0.00631 Intercept: 0.00063

Calibration data for Hg 253.7 Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calibration Blank	0.0000	0	-0.100	0.00	>999.9%
.2 PPB	0.0014	0.2	0.124	0.00	0.1
.5 PPB	0.0028	0.5	0.345	0.00	3.0
1 PPB	0.0065	1.0	0.925	0.00	2.2
2 PPB	0.0134	2.0	2.031	0.00	1.7
5 PPB	0.0334	5.0	5.190	0.00	0.5
10 PPB	0.0660	10.0	10.366	0.00	0.4
25 PPB	0.1572	25.0	24.820	0.00	0.2

Correlation Coef.: 0.999759 Slope: 0.00631 Intercept: 0.00063

Sequence No.: 9 Autosampler Location: 10
Sample ID: ICV (2) Date Collected: 5/28/2014 12:39:10 PM
Analyst: Data Type: Original

Replicate Data: ICV (2)

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	20.61	20.61	0.1306	0.4889	0.1306	12:39:59	Yes
2	20.34	20.34	0.1289	0.4786	0.1289	12:40:33	Yes
Mean:	20.47	20.47	0.1298				
SD:	0.190	0.190	0.0012				
%RSD:	0.927	0.927	0.92				

QC value within limits for Hg 253.7 Recovery = 102.36%
All analyte(s) passed QC.

Sequence No.: 10 Autosampler Location: 1
Sample ID: ICB Date Collected: 5/28/2014 12:40:34 PM
Analyst: Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.113	-0.113	-0.0001	-0.0024	-0.0001	12:41:21	Yes
2	-0.101	-0.101	-0.0000	-0.0005	0.0000	12:41:54	Yes
Mean:	-0.107	-0.107	-0.0000				
SD:	0.008	0.008	0.0001				
%RSD:	7.843	7.843	122.41				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 11 Autosampler Location: 11
Sample ID: MB 32819 (1) Date Collected: 5/28/2014 12:41:56 PM
Analyst: Data Type: Original

Replicate Data: MB 32819 (1)

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.104	-0.104	-0.0000	-0.0012	-0.0000	12:42:43	Yes
2	-0.109	-0.109	-0.0001	-0.0029	-0.0000	12:43:17	Yes
Mean:	-0.107	-0.107	-0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	3.845	3.845	67.41				

Sequence No.: 12 Autosampler Location: 12
Sample ID: LCSW 32819 Date Collected: 5/28/2014 12:43:18 PM
Analyst: Data Type: Original

Replicate Data: LCSW 32819

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.457	9.457	0.0603	0.2238	0.0603	12:44:05	Yes
2	9.463	9.463	0.0603	0.2254	0.0603	12:44:38	Yes
Mean:	9.460	9.460	0.0603				

SD:	0.005	0.005	0.0000
%RSD:	0.048	0.048	0.05

==========

Sequence No.: 13 **Autosampler Location: 13**
Sample ID: LCSW MR 32819 **Date Collected: 5/28/2014 12:44:40 PM**
Analyst: **Data Type: Original**

Replicate Data: LCSW MR 32819

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.467	9.467	0.0603	0.2258	0.0604	12:45:26	Yes
2	9.507	9.507	0.0606	0.2245	0.0606	12:45:59	Yes
Mean:	9.487	9.487	0.0605				
SD:	0.028	0.028	0.0002				
%RSD:	0.299	0.299	0.30				

==========

Sequence No.: 14 **Autosampler Location: 14**
Sample ID: 78793-001 **Date Collected: 5/28/2014 12:46:01 PM**
Analyst: **Data Type: Original**

Replicate Data: 78793-001

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.107	-0.107	-0.0000	-0.0016	-0.0000	12:46:47	Yes
2	-0.098	-0.098	0.0000	-0.0002	0.0000	12:47:21	Yes
Mean:	-0.103	-0.103	-0.0000				
SD:	0.006	0.006	0.0000				
%RSD:	5.666	5.666	279.67				

==========

Sequence No.: 15 **Autosampler Location: 15**
Sample ID: 78793-001 MR **Date Collected: 5/28/2014 12:47:22 PM**
Analyst: **Data Type: Original**

Replicate Data: 78793-001 MR

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.102	-0.102	-0.0000	-0.0025	-0.0000	12:48:09	Yes
2	-0.095	-0.095	0.0000	-0.0016	0.0000	12:48:42	Yes
Mean:	-0.099	-0.099	0.0000				
SD:	0.005	0.005	0.0000				
%RSD:	5.113	5.113	282.37				

==========

Sequence No.: 16 **Autosampler Location: 16**
Sample ID: 78793-001 MS1 **Date Collected: 5/28/2014 12:48:43 PM**
Analyst: **Data Type: Original**

Replicate Data: 78793-001 MS1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.067	6.067	0.0389	0.1545	0.0389	12:49:30	Yes
2	6.070	6.070	0.0389	0.1535	0.0389	12:50:03	Yes
Mean:	6.069	6.069	0.0389				
SD:	0.002	0.002	0.0000				
%RSD:	0.028	0.028	0.03				

==========

Sequence No.: 17 **Autosampler Location: 17**
Sample ID: 78793-001 MS2 **Date Collected: 5/28/2014 12:50:05 PM**
Analyst: **Data Type: Original**

Replicate Data: 78793-001 MS2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.157	6.157	0.0395	0.1565	0.0395	12:50:51	Yes
2	6.227	6.227	0.0399	0.1602	0.0399	12:51:24	Yes
Mean:	6.192	6.192	0.0397				
SD:	0.050	0.050	0.0003				

%RSD:	0.802	0.802	0.79

==========

Sequence No.: 18 **Autosampler Location: 18**
Sample ID: 78787-003 **Date Collected: 5/28/2014 12:51:26 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-003

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.626	0.626	0.0046	0.0150	0.0046	12:52:12	Yes
2	0.596	0.596	0.0044	0.0151	0.0044	12:52:46	Yes
Mean:	0.611	0.611	0.0045				
SD:	0.021	0.021	0.0001				
%RSD:	3.420	3.420	2.94				

==========

Sequence No.: 19 **Autosampler Location: 19**
Sample ID: 78787-004 **Date Collected: 5/28/2014 12:52:47 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-004

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.106	-0.106	-0.0000	-0.0026	-0.0000	12:53:37	Yes
2	-0.076	-0.076	0.0002	0.0017	0.0002	12:54:11	Yes
Mean:	-0.091	-0.091	0.0001				
SD:	0.021	0.021	0.0001				
%RSD:	23.24	23.24	235.62				

==========

Sequence No.: 20 **Autosampler Location: 20**
Sample ID: 78787-005 **Date Collected: 5/28/2014 12:54:12 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-005

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.110	-0.110	-0.0001	-0.0029	-0.0001	12:54:59	Yes
2	-0.101	-0.101	-0.0000	-0.0003	0.0000	12:55:32	Yes
Mean:	-0.105	-0.105	-0.0000				
SD:	0.007	0.007	0.0000				
%RSD:	6.482	6.482	140.95				

==========

Sequence No.: 21 **Autosampler Location: 9**
Sample ID: CCV **Date Collected: 5/28/2014 12:55:33 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.54	10.54	0.0671	0.2483	0.0671	12:56:21	Yes
2	10.48	10.48	0.0667	0.2442	0.0668	12:56:54	Yes
Mean:	10.51	10.51	0.0669				
SD:	0.044	0.044	0.0003				
%RSD:	0.416	0.416	0.41				

QC value within limits for Hg 253.7 Recovery = 105.12%
All analyte(s) passed QC.

==========

Sequence No.: 22 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 5/28/2014 12:56:55 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.103	-0.103	-0.0000	-0.0009	-0.0000	12:57:42	Yes
2	-0.100	-0.100	0.0000	-0.0008	0.0000	12:58:15	Yes
Mean:	-0.101	-0.101	-0.0000				

SD:	0.003	0.003	0.0000
%RSD:	2.700	2.700	274.05

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 23 **Autosampler Location: 21**
Sample ID: 78787-006 **Date Collected: 5/28/2014 12:58:17 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-006

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.097	-0.097	0.0000	-0.0013	0.0000	12:59:05	Yes
2	-0.109	-0.109	-0.0001	-0.0026	-0.0000	12:59:38	Yes
Mean:	-0.103	-0.103	-0.0000				
SD:	0.009	0.009	0.0001				
%RSD:	8.656	8.656	371.17				

==========

Sequence No.: 24 **Autosampler Location: 22**
Sample ID: 78787-009 **Date Collected: 5/28/2014 12:59:40 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-009

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	14.24	14.24	0.0904	0.3332	0.0905	13:00:26	Yes
2	14.17	14.17	0.0900	0.3325	0.0900	13:01:00	Yes
Mean:	14.20	14.20	0.0902				
SD:	0.050	0.050	0.0003				
%RSD:	0.352	0.352	0.35				

==========

Sequence No.: 25 **Autosampler Location: 23**
Sample ID: 78787-010 **Date Collected: 5/28/2014 1:01:01 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-010

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.101	-0.101	-0.0000	-0.0015	0.0000	13:01:48	Yes
2	-0.111	-0.111	-0.0001	-0.0031	-0.0001	13:02:21	Yes
Mean:	-0.106	-0.106	-0.0000				
SD:	0.007	0.007	0.0000				
%RSD:	6.494	6.494	121.04				

==========

Sequence No.: 26 **Autosampler Location: 24**
Sample ID: 78787-011 **Date Collected: 5/28/2014 1:02:22 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-011

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	150.3	150.3	0.9484	4.1466	0.9484	13:03:09	Yes
	Sample concentration is greater than that of the highest standard.						
2	149.8	149.8	0.9456	4.1317	0.9456	13:03:42	Yes
	Sample concentration is greater than that of the highest standard.						
Mean:	150.0	150.0	0.9470				
SD:	0.318	0.318	0.0020				
%RSD:	0.212	0.212	0.21				
	Sample concentration is greater than that of the highest standard.						

==========

Sequence No.: 27 **Autosampler Location: 25**
Sample ID: 78787-012 **Date Collected: 5/28/2014 1:03:44 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-012

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.147	0.147	0.0016	-0.0010	0.0016	13:04:30	Yes
2	-0.044	-0.044	0.0004	0.0003	0.0004	13:05:03	Yes
Mean:	0.052	0.052	0.0010				
SD:	0.135	0.135	0.0009				
%RSD:	262.4	262.4	88.92				

==========

Sequence No.: 28 **Autosampler Location: 26**
Sample ID: 78787-016 **Date Collected: 5/28/2014 1:05:05 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-016

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	140.9	140.9	0.8893	3.8446	0.8893	13:05:51	Yes
Sample concentration is greater than that of the highest standard.							
2	140.2	140.2	0.8847	3.8130	0.8847	13:06:25	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	140.5	140.5	0.8870				
SD:	0.522	0.522	0.0033				
%RSD:	0.371	0.371	0.37				
Sample concentration is greater than that of the highest standard.							

==========

Sequence No.: 29 **Autosampler Location: 27**
Sample ID: 78787-017 **Date Collected: 5/28/2014 1:06:26 PM**
Analyst: **Data Type: Original**

Replicate Data: 78787-017

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.213	0.213	0.0020	0.0039	0.0020	13:07:13	Yes
2	-0.063	-0.063	0.0002	-0.0014	0.0002	13:07:46	Yes
Mean:	0.075	0.075	0.0011				
SD:	0.195	0.195	0.0012				
%RSD:	259.4	259.4	111.11				

==========

Sequence No.: 30 **Autosampler Location: 28**
Sample ID: 78790-003 **Date Collected: 5/28/2014 1:07:48 PM**
Analyst: **Data Type: Original**

Replicate Data: 78790-003

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.109	-0.109	-0.0001	-0.0021	-0.0000	13:08:38	Yes
2	-0.097	-0.097	0.0000	-0.0004	0.0000	13:09:11	Yes
Mean:	-0.103	-0.103	-0.0000				
SD:	0.009	0.009	0.0001				
%RSD:	8.354	8.354	303.44				

==========

Sequence No.: 31 **Autosampler Location: 29**
Sample ID: 78792-009 **Date Collected: 5/28/2014 1:09:13 PM**
Analyst: **Data Type: Original**

Replicate Data: 78792-009

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.080	-0.080	0.0001	0.0003	0.0001	13:10:00	Yes
2	-0.092	-0.092	0.0001	0.0003	0.0001	13:10:33	Yes
Mean:	-0.086	-0.086	0.0001				
SD:	0.009	0.009	0.0001				
%RSD:	10.44	10.44	61.94				

==========

Sequence No.: 32 **Autosampler Location: 30**
Sample ID: 78818-003 **Date Collected: 5/28/2014 1:10:35 PM**
Analyst: **Data Type: Original**

Replicate Data: 78818-003

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.093	-0.093	0.0000	0.0001	0.0001	13:11:22	Yes
2	-0.109	-0.109	-0.0001	-0.0020	-0.0000	13:11:55	Yes
Mean:	-0.101	-0.101	-0.0000				
SD:	0.012	0.012	0.0001				
%RSD:	11.43	11.43	>999.9%				

==========

Sequence No.: 33 Autosampler Location: 9
Sample ID: CCV Date Collected: 5/28/2014 1:11:57 PM
Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.49	10.49	0.0668	0.2428	0.0668	13:12:45	Yes
2	10.26	10.26	0.0654	0.2438	0.0654	13:13:18	Yes
Mean:	10.38	10.38	0.0661				
SD:	0.157	0.157	0.0010				
%RSD:	1.512	1.512	1.50				

QC value within limits for Hg 253.7 Recovery = 103.76%
All analyte(s) passed QC.

==========

Sequence No.: 34 Autosampler Location: 1
Sample ID: CCB Date Collected: 5/28/2014 1:13:20 PM
Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.093	-0.093	0.0000	0.0002	0.0001	13:14:06	Yes
2	-0.068	-0.068	0.0002	-0.0002	0.0002	13:14:40	Yes
Mean:	-0.080	-0.080	0.0001				
SD:	0.017	0.017	0.0001				
%RSD:	21.71	21.71	86.83				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 35 Autosampler Location: 32
Sample ID: 78787-011 10D Date Collected: 5/28/2014 1:14:41 PM
Analyst: Data Type: Original

Replicate Data: 78787-011 10D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	24.68	24.68	0.1563	0.5768	0.1563	13:15:30	Yes
2	24.64	24.64	0.1560	0.5737	0.1560	13:16:04	Yes
Mean:	24.66	24.66	0.1562				
SD:	0.033	0.033	0.0002				
%RSD:	0.135	0.135	0.13				

==========

Sequence No.: 36 Autosampler Location: 33
Sample ID: 78787-016 10D Date Collected: 5/28/2014 1:16:05 PM
Analyst: Data Type: Original

Replicate Data: 78787-016 10D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	22.29	22.29	0.1412	0.5229	0.1412	13:16:52	Yes
2	22.33	22.33	0.1415	0.5185	0.1415	13:17:25	Yes
Mean:	22.31	22.31	0.1414				
SD:	0.030	0.030	0.0002				
%RSD:	0.136	0.136	0.14				

==========

Sequence No.: 37 Autosampler Location: 31
Sample ID: 78829-014 Date Collected: 5/28/2014 1:17:27 PM

Analyst: Data Type: Original

Replicate Data: 78829-014

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.083	-0.083	0.0001	0.0009	0.0001	13:18:14	Yes
2	-0.097	-0.097	0.0000	0.0002	0.0000	13:18:48	Yes
Mean:	-0.090	-0.090	0.0001				
SD:	0.010	0.010	0.0001				
%RSD:	10.57	10.57	90.77				

Sequence No.: 38 Autosampler Location: 9
Sample ID: CCV Date Collected: 5/28/2014 1:18:49 PM
Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.52	10.52	0.0670	0.2455	0.0670	13:19:37	Yes
2	10.56	10.56	0.0672	0.2481	0.0672	13:20:11	Yes
Mean:	10.54	10.54	0.0671				
SD:	0.029	0.029	0.0002				
%RSD:	0.272	0.272	0.27				

QC value within limits for Hg 253.7 Recovery = 105.38%
All analyte(s) passed QC.

Sequence No.: 39 Autosampler Location: 1
Sample ID: CCB Date Collected: 5/28/2014 1:20:12 PM
Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.101	-0.101	-0.0000	-0.0004	0.0000	13:20:59	Yes
2	-0.099	-0.099	0.0000	-0.0011	0.0000	13:21:33	Yes
Mean:	-0.100	-0.100	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	1.190	1.190	262.09				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Metal Data
Digestion Logbook Data

Hampton-Clarke/Veritech

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B (6020) 200.7/200.8 OTHER

Batch No.: 16380 Analyst: em

QC Number: 32818 Prep Date: 5/22/14

Matrix: 6020 8811 Reviewed By: m

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50ml	50ml	25ml	50ml		--	
LCS	0.19					--	
LCSD						--	
1. ~~LC~~ 78787-015	0.59						
MR 78787-015							
MS 78787-015							
MSD 78787-015							
2. 78787-001							
3. 78787-002							
4. 78787-007							
5. 78787-008							
6. 78787-014							
7. 78787-018							
8. 78787-019							
9. 78787-020							
10. 78787-021							
11. 78787-022							
12. 78787-023							
13. 78787-024							
14. 78787-025							
15. 78787-026							
16. 78793-002							
17. 78790-001							
18. 78790-002							
19.							
20.							

Hot Plate Temperature: 94.1 C (90-95° C)

	Volume mL	Lot #
LCS, LCSD	0.19	V- 8496
LLLCS, LLLCSD		V-
MS, MSD	0.5ml	V-8534, 8535
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5ml	V-8515
HCl		V-
H_2O_2	1.5ml	V- 8583

Acid	Vol mL	Lot#
1:1 HNO_3	5ml	V-185545
1:1 HCl		V-

Relinquished By em Date 5/22/14

Received By m Date 5/23/14

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2012.DOC

Hampton-Clarke/Veritech

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B (6020) 200.7/200.8 OTHER

Batch No.: 16379 Analyst: km

QC Number: 32817 Prep Date: 5/22/14

Matrix: soil Reviewed By: [illegible]

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50ml	50ml				--	
LCS	0.5g					--	
LCSD						--	
1 LC 78787-015	1gm	100ml	20 6/19/14				
MR 78787-015	0.5gm	50ml					
MS 78787-015							
MSD 78787-015							
2. 78787-001							
3. 78787-002							
4. 78787-007							
5. 78787-008							
6. 78787-014							
7. 78787-018							
8. 78787-019							
9. 78787-020							
10. 78787-021							
11. 78787-022							
12. 78787-023							
13. 78787-024							
14. 78787-025							
15. 78787-026							
16. 78793-002							
17. 78790-001							
18. 78790-002							
19.							
20.							

Hot Plate Temperature: 93.8 C (90-95° C)

	Volume mL	Lot #
LCS, LCSD	0.5g	V- 8496
LLLCS, LLLCSD		V-
MS, MSD	0.5ml	V- 8534, 8535
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5ml	V- 8515
HCl	5ml	V- 8308
H_2O_2	1.5ml	V- 8583

Acid	Vol mL	Lot#
1:1 HNO_3	5ml	V- 185545
1:1 HCl		V-

Relinquished By km Date 5/22/14

Received By [illegible] Date 05/23/2014

0036

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Hampton-Clarke/Veritech

HG SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 245.1 7470A (7471B) OTHER _____

Batch No.:* 16379

QC Number: 32817

Matrix: Soil

Analyst: km

Prep Date: 5/22/14

Review By: [illegible]

LAB ID#	MERCURY INITIAL	MERCURY FINAL	COMMENTS
Method blank	25ml	25ml	
LCS	0.155		
LCSD			
1 ~~LC~~ 78787-015			
MR 78787-015			
MS 78787-015			
MSD 78787-015			
2 78787-001			
3 78787-002			
4 78787-007			
5 78787-008			
6 78787-014			
7 78787-018			
8 78787-019			
9 78787-020			
10 78787-021			
11 78787-022			
12 78787-023			
13 78787-024			
14 78787-025			
15 78787-026			
16 78793-002			
17 78790-001			
18 78790-002			
19			
20			

Lot Numbers		Acid	Volume (mL)	Lot #
$KmnO_4$: V-	18592	HNO_3		V-
$K_2S_2O_8$: V-		HCl		V-
NH_2OH: V-	187070	H_2SO_4		V-
		Aqua Regia	1.25ml	V- 187311

**Block Temp	93.1° C
Time In Block:	1100
Time Out of Block:	1130

Spike Volume & Lot #

☐ LCS V- 8496 (0.15ml / 0.25 ml)

☐ MS V- 187310 (0.250 ml)

☐ Standards/Control Batch B- 17412

**Temperature ranges:
245.1 / 7470A: 90-95C
7471B : 92-98C

Relinquished By: km

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

Hampton-Clarke/Veritech

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B (6020) 200.7/200.8 OTHER_____

Batch No.: 16301 Analyst: JH

QC Number: 32819 Prep Date: 5/23/14

Matrix: SW-846 Reviewed By: SB

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50ml	50ml	10ml	20ml		--	
LCS	↓	↓				--	
LCSD						--	
1. AC 78793-001	100ml	100ml					
MR 78793-001	50ml	50ml					
MS 78793-001							
MSD 78793-001							
2. 78787-003							
3. 78787-004							lab filter pH<2 (F
4. 78787-005							(FA)
5. 78787-006							(FA) F
6. 78787-009							
7. 78787-010							F
8. 78787-011							
9. 78787-012							F
10. 78787-016	25ml						
11. 78787-017	50ml						F
12. 78790-003							(FA)
13. 78790-009							(FA)
14. 78818-003							(FA)
15. 78829-014	↓	↓	↓	↓			(FA)
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 93.4°C (90-95° C)

	Volume mL	Lot #
LCS, LCSD	0.25ml	V-8344, 8345
LLLCS, LLLCSD		V-
MS, MSD	0.25ml	V-8344, 8345
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	3	V-8515
HCl		V-
H_2O_2		V-

Acid	Vol mL	Lot#
1:1 HNO_3		V-
1:1 HCl	5	V-186749

Relinquished By JH Date 5/23/14

Received By [illegible] Date 5/27/14

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Hampton-Clarke/Veritech

HG SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 245.1 7470A 7471B **OTHER**_____

Batch No.:* 163381

QC Number: 32819

Matrix: SW846

Analyst: JM

Prep Date: 5/23/14

Review By: [illegible]

LAB ID#	MERCURY INITIAL	MERCURY FINAL	COMMENTS
Method blank	25ml	25ml	
LCS			
LCSD			
1 AC 78793-001			
MR 78793-001			
MS 78793-001			
MSD 78793-001			
2 78787-003			
3 78787-004			lab filter pH<2 (F)
4 78787-005			(FB)
5 78787-006			(FB) F
6 78787-009			
7 78787-010			F
8 78787-011			
9 78787-012			F
10 78787-016			
11 78787-017			F
12 78790-003			(FB)
13 78792-009			(FB)
14 78818-003			(FB)
15 78829-014			(FB)
16			
17			
18			
19			
20			

Lot Numbers		Acid	Volume (mL)	Lot #
$KmnO_4$: V-	185921	HNO_3	0.625ml	V- 8514
$K_2S_2O_8$: V-	181840	HCl		V-
NH_2OH: V-	184344	H_2SO_4	1.25ml	V- 8606
		Aqua Regia		V-

**Block Temp.:	93.18
Time In Block:	23:00
Time Out of Block:	01:00

Spike Volume & Lot #

☐ LCS V- 187420 0.15g / (0.25 ml)

☐ MS V- 187420 0.250 ml

☐ Standards/Control Batch B- 17423

**Temperature ranges:
245.1 / 7470A: 90-95C
7471B : 92-98C

Relinquished By: JM

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 4052101**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AC78787-001	EXT1(0-2')	Soil	1	82	Percent			05/22/14	05/20/14	05/20/14
AC78787-002	EXT1(15-17')	Soil	1	87	Percent			05/22/14	05/20/14	05/20/14
AC78787-007	EXT 2(0-2')	Soil	1	83	Percent			05/22/14	05/20/14	05/20/14
AC78787-008	EXT 2(15-17')	Soil	1	95	Percent			05/22/14	05/20/14	05/20/14
AC78787-014	EXT 3(0-2')	Soil	1	91	Percent			05/22/14	05/20/14	05/20/14
AC78787-015	EXT 3(15-17')	Soil	1	89	Percent			05/22/14	05/20/14	05/20/14
AC78787-018	EXT 3(27-29')	Soil	1	87	Percent			05/22/14	05/20/14	05/20/14
AC78787-019	SUMP1(0-2')	Soil	1	92	Percent			05/22/14	05/20/14	05/19/14
AC78787-020	SUMP1(3-5')	Soil	1	94	Percent			05/22/14	05/20/14	05/19/14
AC78787-021	BASE 1(0-2')	Soil	1	89	Percent			05/22/14	05/20/14	05/19/14
AC78787-022	BASE 1(3-5')	Soil	1	93	Percent			05/22/14	05/20/14	05/19/14
AC78787-023	BASE 2 (0-2')	Soil	1	93	Percent			05/22/14	05/20/14	05/19/14
AC78787-024	BASE 2 (3-5')	Soil	1	95	Percent			05/22/14	05/20/14	05/19/14
AC78787-025	BASE 3 (0-2')	Soil	1	92	Percent			05/22/14	05/20/14	05/19/14
AC78787-026	BASE 3 (3-5')	Soil	1	93	Percent			05/22/14	05/20/14	05/19/14

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-3013

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AC78787-008	94	94.36229	Percent	1.09	11.91	11.31	05/22/14	ANTHONY	0.29	5
Sample	AC78787-001	82	82.43626	Percent	1.09	11.68	9.82	05/22/14	ANTHONY		
Sample	AC78787-002	87	86.59595	Percent	1.09	11.46	10.06	05/22/14	ANTHONY		
Sample	AC78787-007	83	82.79570	Percent	1.08	11.31	9.56	05/22/14	ANTHONY		
Sample	AC78787-008	95	94.63460	Percent	1.10	11.91	11.33	05/22/14	ANTHONY		
Sample	AC78787-014	91	91.24158	Percent	1.07	11.46	10.56	05/22/14	ANTHONY		
Sample	AC78787-015	89	89.10985	Percent	1.08	11.64	10.49	05/22/14	ANTHONY		
Sample	AC78787-018	87	87.08765	Percent	1.08	11.69	10.31	05/22/14	ANTHONY		
Sample	AC78787-019	92	92.32246	Percent	1.09	11.51	10.72	05/22/14	ANTHONY		
Sample	AC78787-020	94	93.96472	Percent	1.10	11.87	11.21	05/22/14	ANTHONY		
Sample	AC78787-021	89	88.53868	Percent	1.09	11.56	10.36	05/22/14	ANTHONY		
Sample	AC78787-022	93	92.98893	Percent	1.09	11.93	11.17	05/22/14	ANTHONY		
Sample	AC78787-023	93	92.98893	Percent	1.09	11.93	11.17	05/22/14	ANTHONY		
Sample	AC78787-024	95	94.93213	Percent	1.08	12.13	11.57	05/22/14	ANTHONY		
Sample	AC78787-025	92	91.59741	Percent	1.08	11.91	11.00	05/22/14	ANTHONY		
Sample	AC78787-026	93	92.87749	Percent	1.09	11.62	10.87	05/22/14	ANTHONY		
Sample	AC78795-001	72	72.19604	Percent	1.08	11.69	8.75	05/22/14	ANTHONY		
Sample	AC78795-002	81	80.71298	Percent	1.08	12.02	9.91	05/22/14	ANTHONY		
Sample	AC78795-003	83	82.55924	Percent	1.08	11.63	9.79	05/22/14	ANTHONY		
Sample	AC78795-004	81	81.09125	Percent	1.09	11.72	9.71	05/22/14	ANTHONY		
Sample	AC78795-005	78	77.52381	Percent	1.09	11.59	9.24	05/22/14	ANTHONY		

* - Indicates Failed Rpd Criteria

HC·V
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Last Page of Report

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

June 19, 2014

Robert Wolff
URS Corporation- New York
1 Penn Plaza
Suite 600
New York, NY 10119

RE: Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

Dear Robert Wolff:
Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #40770
Alabama Certification #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #: Pace
Georgia Certification #: 959
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
Wisconsin Certification #: 999407970
West Virginia Certification #: 382
West Virginia TO-15 Approval
West Virginia DHHR #:9952C

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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10269786001	**Base 1**	Air	06/04/14 12:12	06/06/14 08:40
10269786002	**Base 2**	Air	06/04/14 12:33	06/06/14 08:40
10269786003	**Base 3**	Air	06/04/14 13:00	06/06/14 08:40
10269786004	**AMB060414**	Air	06/04/14 12:39	06/06/14 08:40

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SAMPLE ANALYTE COUNT

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10269786001	**Base 1**	TO-15	JAM	61
10269786002	**Base 2**	TO-15	JAM	61
10269786003	**Base 3**	TO-15	JAM	61
10269786004	**AMB060414**	TO-15	JAM	61

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ANALYTICAL RESULTS

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

Sample: Base 1 **Lab ID: 10269786001** Collected: 06/04/14 12:12 Received: 06/06/14 08:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**34.1**	ug/m3	3.7	1.55		06/17/14 12:02	67-64-1	
Benzene	**2.6**	ug/m3	0.50	1.55		06/17/14 12:02	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	1.55		06/17/14 12:02	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	1.55		06/17/14 12:02	75-27-4	
Bromoform	ND	ug/m3	3.3	1.55		06/17/14 12:02	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.55		06/17/14 12:02	74-83-9	
1,3-Butadiene	ND	ug/m3	0.70	1.55		06/17/14 12:02	106-99-0	
2-Butanone (MEK)	**17.2**	ug/m3	0.93	1.55		06/17/14 12:02	78-93-3	
Carbon disulfide	ND	ug/m3	0.98	1.55		06/17/14 12:02	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.99	1.55		06/17/14 12:02	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	1.55		06/17/14 12:02	108-90-7	
Chloroethane	ND	ug/m3	0.84	1.55		06/17/14 12:02	75-00-3	
Chloroform	**29.4**	ug/m3	1.5	1.55		06/17/14 12:02	67-66-3	
Chloromethane	ND	ug/m3	0.65	1.55		06/17/14 12:02	74-87-3	
Cyclohexane	**12.2**	ug/m3	1.1	1.55		06/17/14 12:02	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.55		06/17/14 12:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.4	1.55		06/17/14 12:02	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.55		06/17/14 12:02	95-50-1	
1,3-Dichlorobenzene	**60.2**	ug/m3	1.9	1.55		06/17/14 12:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	1.55		06/17/14 12:02	106-46-7	
Dichlorodifluoromethane	**1.8**	ug/m3	1.6	1.55		06/17/14 12:02	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		06/17/14 12:02	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.64	1.55		06/17/14 12:02	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.55		06/17/14 12:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.55		06/17/14 12:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.55		06/17/14 12:02	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.55		06/17/14 12:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.55		06/17/14 12:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.55		06/17/14 12:02	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.55		06/17/14 12:02	76-14-2	
Ethanol	**1400**	ug/m3	29.8	31		06/17/14 23:47	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	1.55		06/17/14 12:02	141-78-6	
Ethylbenzene	**7.1**	ug/m3	1.4	1.55		06/17/14 12:02	100-41-4	
4-Ethyltoluene	**3.8**	ug/m3	1.6	1.55		06/17/14 12:02	622-96-8	
n-Heptane	**9.5**	ug/m3	1.3	1.55		06/17/14 12:02	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.4	1.55		06/17/14 12:02	87-68-3	
n-Hexane	**9.2**	ug/m3	1.1	1.55		06/17/14 12:02	110-54-3	
2-Hexanone	ND	ug/m3	1.3	1.55		06/17/14 12:02	591-78-6	
Methylene Chloride	ND	ug/m3	5.5	1.55		06/17/14 12:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.55		06/17/14 12:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.55		06/17/14 12:02	1634-04-4	
Naphthalene	**4.3**	ug/m3	4.1	1.55		06/17/14 12:02	91-20-3	SS
2-Propanol	**781**	ug/m3	38.8	31		06/17/14 23:47	67-63-0	
Propylene	ND	ug/m3	0.54	1.55		06/17/14 12:02	115-07-1	
Styrene	**1.4**	ug/m3	1.3	1.55		06/17/14 12:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	1.55		06/17/14 12:02	79-34-5	
Tetrachloroethene	**43.0**	ug/m3	1.1	1.55		06/17/14 12:02	127-18-4	

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ANALYTICAL RESULTS

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

Sample: Base 1 **Lab ID: 10269786001** Collected: 06/04/14 12:12 Received: 06/06/14 08:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	**4.1**	ug/m3	0.93	1.55		06/17/14 12:02	109-99-9	
Toluene	**55.0**	ug/m3	1.2	1.55		06/17/14 12:02	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.7	1.55		06/17/14 12:02	120-82-1	
1,1,1-Trichloroethane	**1.8**	ug/m3	1.7	1.55		06/17/14 12:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.85	1.55		06/17/14 12:02	79-00-5	
Trichloroethene	**12.9**	ug/m3	0.85	1.55		06/17/14 12:02	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.8	1.55		06/17/14 12:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.55		06/17/14 12:02	76-13-1	
1,2,4-Trimethylbenzene	**7.3**	ug/m3	1.5	1.55		06/17/14 12:02	95-63-6	
1,3,5-Trimethylbenzene	**1.9**	ug/m3	1.5	1.55		06/17/14 12:02	108-67-8	
Vinyl acetate	**4.3**	ug/m3	1.1	1.55		06/17/14 12:02	108-05-4	
Vinyl chloride	ND	ug/m3	0.40	1.55		06/17/14 12:02	75-01-4	
m&p-Xylene	**24.7**	ug/m3	2.7	1.55		06/17/14 12:02	179601-23-1	
o-Xylene	**7.8**	ug/m3	1.4	1.55		06/17/14 12:02	95-47-6	

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ANALYTICAL RESULTS

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

Sample: Base 2 **Lab ID: 10269786002** Collected: 06/04/14 12:33 Received: 06/06/14 08:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**162**	ug/m3	3.5	1.44		06/17/14 22:19	67-64-1	E
Benzene	**3.7**	ug/m3	0.47	1.44		06/17/14 22:19	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	1.44		06/17/14 22:19	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	1.44		06/17/14 22:19	75-27-4	
Bromoform	ND	ug/m3	7.6	1.44		06/17/14 22:19	75-25-2	
Bromomethane	ND	ug/m3	1.1	1.44		06/17/14 22:19	74-83-9	
1,3-Butadiene	ND	ug/m3	1.6	1.44		06/17/14 22:19	106-99-0	
2-Butanone (MEK)	**30.9**	ug/m3	2.6	1.44		06/17/14 22:19	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	1.44		06/17/14 22:19	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.92	1.44		06/17/14 22:19	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.44		06/17/14 22:19	108-90-7	
Chloroethane	ND	ug/m3	1.9	1.44		06/17/14 22:19	75-00-3	
Chloroform	**9.9**	ug/m3	1.4	1.44		06/17/14 22:19	67-66-3	
Chloromethane	ND	ug/m3	0.60	1.44		06/17/14 22:19	74-87-3	
Cyclohexane	**25.4**	ug/m3	2.5	1.44		06/17/14 22:19	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.44		06/17/14 22:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	5.6	1.44		06/17/14 22:19	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.44		06/17/14 22:19	95-50-1	
1,3-Dichlorobenzene	**79.4**	ug/m3	1.8	1.44		06/17/14 22:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	1.44		06/17/14 22:19	106-46-7	
Dichlorodifluoromethane	**1.7**	ug/m3	1.5	1.44		06/17/14 22:19	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.44		06/17/14 22:19	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	1.44		06/17/14 22:19	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		06/17/14 22:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		06/17/14 22:19	156-59-2	
trans-1,2-Dichloroethene	**1.7**	ug/m3	1.2	1.44		06/17/14 22:19	156-60-5	
1,2-Dichloropropane	ND	ug/m3	3.4	1.44		06/17/14 22:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	3.3	1.44		06/17/14 22:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.3	1.44		06/17/14 22:19	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	1.44		06/17/14 22:19	76-14-2	
Ethanol	**4290**	ug/m3	27.6	28.8		06/17/14 22:41	64-17-5	E
Ethyl acetate	ND	ug/m3	2.6	1.44		06/17/14 22:19	141-78-6	
Ethylbenzene	**5.1**	ug/m3	1.3	1.44		06/17/14 22:19	100-41-4	
4-Ethyltoluene	**3.7**	ug/m3	3.6	1.44		06/17/14 22:19	622-96-8	
n-Heptane	**9.0**	ug/m3	3.0	1.44		06/17/14 22:19	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	1.44		06/17/14 22:19	87-68-3	
n-Hexane	**18.1**	ug/m3	1.0	1.44		06/17/14 22:19	110-54-3	
2-Hexanone	ND	ug/m3	1.2	1.44		06/17/14 22:19	591-78-6	
Methylene Chloride	ND	ug/m3	5.1	1.44		06/17/14 22:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	1.44		06/17/14 22:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.44		06/17/14 22:19	1634-04-4	
Naphthalene	**5.0**	ug/m3	3.8	1.44		06/17/14 22:19	91-20-3	SS
2-Propanol	**2380**	ug/m3	36.0	28.8		06/17/14 22:41	67-63-0	E
Propylene	ND	ug/m3	1.3	1.44		06/17/14 22:19	115-07-1	
Styrene	**2.1**	ug/m3	1.3	1.44		06/17/14 22:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	1.44		06/17/14 22:19	79-34-5	
Tetrachloroethene	**5.7**	ug/m3	0.99	1.44		06/17/14 22:19	127-18-4	

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ANALYTICAL RESULTS

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

Sample: Base 2 **Lab ID: 10269786002** Collected: 06/04/14 12:33 Received: 06/06/14 08:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	2.2	1.44		06/17/14 22:19	109-99-9	
Toluene	**56.7**	ug/m3	1.1	1.44		06/17/14 22:19	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.2	1.44		06/17/14 22:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.44		06/17/14 22:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	1.44		06/17/14 22:19	79-00-5	
Trichloroethene	**3.9**	ug/m3	0.79	1.44		06/17/14 22:19	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	1.44		06/17/14 22:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.44		06/17/14 22:19	76-13-1	
1,2,4-Trimethylbenzene	**7.8**	ug/m3	3.6	1.44		06/17/14 22:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.6	1.44		06/17/14 22:19	108-67-8	
Vinyl acetate	ND	ug/m3	2.6	1.44		06/17/14 22:19	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	1.44		06/17/14 22:19	75-01-4	
m&p-Xylene	**19.2**	ug/m3	2.5	1.44		06/17/14 22:19	179601-23-1	
o-Xylene	**6.9**	ug/m3	1.3	1.44		06/17/14 22:19	95-47-6	

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ANALYTICAL RESULTS

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

Sample: Base 3 **Lab ID: 10269786003** Collected: 06/04/14 13:00 Received: 06/06/14 08:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**72.0**	ug/m3	5.8	2.4		06/17/14 12:24	67-64-1	
Benzene	**2.7**	ug/m3	0.78	2.4		06/17/14 12:24	71-43-2	
Benzyl chloride	ND	ug/m3	2.5	2.4		06/17/14 12:24	100-44-7	
Bromodichloromethane	ND	ug/m3	3.3	2.4		06/17/14 12:24	75-27-4	
Bromoform	ND	ug/m3	5.0	2.4		06/17/14 12:24	75-25-2	
Bromomethane	ND	ug/m3	1.9	2.4		06/17/14 12:24	74-83-9	
1,3-Butadiene	ND	ug/m3	1.1	2.4		06/17/14 12:24	106-99-0	
2-Butanone (MEK)	**27.0**	ug/m3	1.4	2.4		06/17/14 12:24	78-93-3	
Carbon disulfide	ND	ug/m3	1.5	2.4		06/17/14 12:24	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.5	2.4		06/17/14 12:24	56-23-5	
Chlorobenzene	ND	ug/m3	2.3	2.4		06/17/14 12:24	108-90-7	
Chloroethane	ND	ug/m3	1.3	2.4		06/17/14 12:24	75-00-3	
Chloroform	**4.4**	ug/m3	2.4	2.4		06/17/14 12:24	67-66-3	
Chloromethane	ND	ug/m3	1.0	2.4		06/17/14 12:24	74-87-3	
Cyclohexane	**18.9**	ug/m3	1.7	2.4		06/17/14 12:24	110-82-7	
Dibromochloromethane	ND	ug/m3	4.2	2.4		06/17/14 12:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	3.7	2.4		06/17/14 12:24	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.9	2.4		06/17/14 12:24	95-50-1	
1,3-Dichlorobenzene	**43.2**	ug/m3	2.9	2.4		06/17/14 12:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.9	2.4		06/17/14 12:24	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	2.4	2.4		06/17/14 12:24	75-71-8	
1,1-Dichloroethane	ND	ug/m3	2.0	2.4		06/17/14 12:24	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.98	2.4		06/17/14 12:24	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.9	2.4		06/17/14 12:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.9	2.4		06/17/14 12:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.9	2.4		06/17/14 12:24	156-60-5	
1,2-Dichloropropane	ND	ug/m3	2.3	2.4		06/17/14 12:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.2	2.4		06/17/14 12:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.2	2.4		06/17/14 12:24	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	3.4	2.4		06/17/14 12:24	76-14-2	
Ethanol	**2630**	ug/m3	36.9	38.4		06/18/14 00:09	64-17-5	E
Ethyl acetate	ND	ug/m3	1.8	2.4		06/17/14 12:24	141-78-6	
Ethylbenzene	**4.0**	ug/m3	2.1	2.4		06/17/14 12:24	100-41-4	
4-Ethyltoluene	**3.5**	ug/m3	2.4	2.4		06/17/14 12:24	622-96-8	
n-Heptane	**5.2**	ug/m3	2.0	2.4		06/17/14 12:24	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.3	2.4		06/17/14 12:24	87-68-3	
n-Hexane	**18.8**	ug/m3	1.7	2.4		06/17/14 12:24	110-54-3	
2-Hexanone	ND	ug/m3	2.0	2.4		06/17/14 12:24	591-78-6	
Methylene Chloride	ND	ug/m3	8.5	2.4		06/17/14 12:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.0	2.4		06/17/14 12:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.8	2.4		06/17/14 12:24	1634-04-4	
Naphthalene	ND	ug/m3	6.4	2.4		06/17/14 12:24	91-20-3	
2-Propanol	**1540**	ug/m3	48.0	38.4		06/18/14 00:09	67-63-0	
Propylene	ND	ug/m3	0.84	2.4		06/17/14 12:24	115-07-1	
Styrene	ND	ug/m3	2.1	2.4		06/17/14 12:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.7	2.4		06/17/14 12:24	79-34-5	
Tetrachloroethene	ND	ug/m3	1.7	2.4		06/17/14 12:24	127-18-4	

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ANALYTICAL RESULTS

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

Sample: Base 3 **Lab ID: 10269786003** Collected: 06/04/14 13:00 Received: 06/06/14 08:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	**5.6**	ug/m3	1.4	2.4		06/17/14 12:24	109-99-9	
Toluene	**41.8**	ug/m3	1.8	2.4		06/17/14 12:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	18.1	2.4		06/17/14 12:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2.7	2.4		06/17/14 12:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.3	2.4		06/17/14 12:24	79-00-5	
Trichloroethene	ND	ug/m3	1.3	2.4		06/17/14 12:24	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2.7	2.4		06/17/14 12:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	3.8	2.4		06/17/14 12:24	76-13-1	
1,2,4-Trimethylbenzene	**6.5**	ug/m3	2.4	2.4		06/17/14 12:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	2.4	2.4		06/17/14 12:24	108-67-8	
Vinyl acetate	**4.6**	ug/m3	1.7	2.4		06/17/14 12:24	108-05-4	
Vinyl chloride	ND	ug/m3	0.62	2.4		06/17/14 12:24	75-01-4	
m&p-Xylene	**15.8**	ug/m3	4.2	2.4		06/17/14 12:24	179601-23-1	
o-Xylene	**5.1**	ug/m3	2.1	2.4		06/17/14 12:24	95-47-6	

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ANALYTICAL RESULTS

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

Sample: AMB060414 **Lab ID: 10269786004** Collected: 06/04/14 12:39 Received: 06/06/14 08:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**39.8**	ug/m3	4.4	1.83		06/17/14 23:04	67-64-1	
Benzene	**0.61**	ug/m3	0.59	1.83		06/17/14 23:04	71-43-2	
Benzyl chloride	ND	ug/m3	1.9	1.83		06/17/14 23:04	100-44-7	
Bromodichloromethane	ND	ug/m3	2.5	1.83		06/17/14 23:04	75-27-4	
Bromoform	ND	ug/m3	9.6	1.83		06/17/14 23:04	75-25-2	
Bromomethane	ND	ug/m3	1.4	1.83		06/17/14 23:04	74-83-9	
1,3-Butadiene	ND	ug/m3	2.1	1.83		06/17/14 23:04	106-99-0	
2-Butanone (MEK)	**6.1**	ug/m3	3.4	1.83		06/17/14 23:04	78-93-3	
Carbon disulfide	ND	ug/m3	1.2	1.83		06/17/14 23:04	75-15-0	
Carbon tetrachloride	**1.7**	ug/m3	1.2	1.83		06/17/14 23:04	56-23-5	
Chlorobenzene	ND	ug/m3	1.7	1.83		06/17/14 23:04	108-90-7	
Chloroethane	ND	ug/m3	2.5	1.83		06/17/14 23:04	75-00-3	
Chloroform	ND	ug/m3	1.8	1.83		06/17/14 23:04	67-66-3	
Chloromethane	ND	ug/m3	0.77	1.83		06/17/14 23:04	74-87-3	
Cyclohexane	ND	ug/m3	3.2	1.83		06/17/14 23:04	110-82-7	
Dibromochloromethane	ND	ug/m3	3.2	1.83		06/17/14 23:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	7.1	1.83		06/17/14 23:04	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.2	1.83		06/17/14 23:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.2	1.83		06/17/14 23:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.2	1.83		06/17/14 23:04	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.8	1.83		06/17/14 23:04	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.5	1.83		06/17/14 23:04	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.75	1.83		06/17/14 23:04	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.5	1.83		06/17/14 23:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.83		06/17/14 23:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.5	1.83		06/17/14 23:04	156-60-5	
1,2-Dichloropropane	ND	ug/m3	4.3	1.83		06/17/14 23:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	4.2	1.83		06/17/14 23:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	4.2	1.83		06/17/14 23:04	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.6	1.83		06/17/14 23:04	76-14-2	
Ethanol	**36.1**	ug/m3	1.8	1.83		06/17/14 23:04	64-17-5	
Ethyl acetate	ND	ug/m3	3.4	1.83		06/17/14 23:04	141-78-6	
Ethylbenzene	ND	ug/m3	1.6	1.83		06/17/14 23:04	100-41-4	
4-Ethyltoluene	ND	ug/m3	4.6	1.83		06/17/14 23:04	622-96-8	
n-Heptane	ND	ug/m3	3.8	1.83		06/17/14 23:04	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	4.0	1.83		06/17/14 23:04	87-68-3	
n-Hexane	**7.4**	ug/m3	1.3	1.83		06/17/14 23:04	110-54-3	
2-Hexanone	ND	ug/m3	1.5	1.83		06/17/14 23:04	591-78-6	
Methylene Chloride	ND	ug/m3	6.5	1.83		06/17/14 23:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	7.6	1.83		06/17/14 23:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.3	1.83		06/17/14 23:04	1634-04-4	
Naphthalene	ND	ug/m3	4.9	1.83		06/17/14 23:04	91-20-3	
2-Propanol	ND	ug/m3	2.3	1.83		06/17/14 23:04	67-63-0	
Propylene	ND	ug/m3	1.6	1.83		06/17/14 23:04	115-07-1	
Styrene	ND	ug/m3	1.6	1.83		06/17/14 23:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.3	1.83		06/17/14 23:04	79-34-5	
Tetrachloroethene	**1.4**	ug/m3	1.3	1.83		06/17/14 23:04	127-18-4	

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ANALYTICAL RESULTS

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

Sample: AMB060414 **Lab ID: 10269786004** Collected: 06/04/14 12:39 Received: 06/06/14 08:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	2.7	1.83		06/17/14 23:04	109-99-9	
Toluene	**13.4**	ug/m3	1.4	1.83		06/17/14 23:04	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.8	1.83		06/17/14 23:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.83		06/17/14 23:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.0	1.83		06/17/14 23:04	79-00-5	
Trichloroethene	ND	ug/m3	1.0	1.83		06/17/14 23:04	79-01-6	
Trichlorofluoromethane	**2.2**	ug/m3	2.1	1.83		06/17/14 23:04	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.9	1.83		06/17/14 23:04	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	4.6	1.83		06/17/14 23:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	4.6	1.83		06/17/14 23:04	108-67-8	
Vinyl acetate	**8.0**	ug/m3	3.3	1.83		06/17/14 23:04	108-05-4	
Vinyl chloride	ND	ug/m3	0.48	1.83		06/17/14 23:04	75-01-4	
m&p-Xylene	ND	ug/m3	3.2	1.83		06/17/14 23:04	179601-23-1	
o-Xylene	**2.1**	ug/m3	1.6	1.83		06/17/14 23:04	95-47-6	

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QUALITY CONTROL DATA

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

QC Batch: AIR/20553 | Analysis Method: TO-15
QC Batch Method: TO-15 | Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10269786001, 10269786003

METHOD BLANK: 1709620 | Matrix: Air
Associated Lab Samples: 10269786001, 10269786003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/16/14 15:24	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	06/16/14 15:24	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/16/14 15:24	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	06/16/14 15:24	
1,1-Dichloroethane	ug/m3	ND	0.82	06/16/14 15:24	
1,1-Dichloroethene	ug/m3	ND	0.81	06/16/14 15:24	
1,2,4-Trichlorobenzene	ug/m3	ND	7.5	06/16/14 15:24	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	06/16/14 15:24	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	06/16/14 15:24	
1,2-Dichlorobenzene	ug/m3	ND	1.2	06/16/14 15:24	
1,2-Dichloroethane	ug/m3	ND	0.41	06/16/14 15:24	
1,2-Dichloropropane	ug/m3	ND	0.94	06/16/14 15:24	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	06/16/14 15:24	
1,3-Butadiene	ug/m3	ND	0.45	06/16/14 15:24	
1,3-Dichlorobenzene	ug/m3	ND	1.2	06/16/14 15:24	
1,4-Dichlorobenzene	ug/m3	ND	1.2	06/16/14 15:24	
2-Butanone (MEK)	ug/m3	ND	0.60	06/16/14 15:24	
2-Hexanone	ug/m3	ND	0.83	06/16/14 15:24	
2-Propanol	ug/m3	ND	1.2	06/16/14 15:24	
4-Ethyltoluene	ug/m3	ND	1.0	06/16/14 15:24	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	06/16/14 15:24	
Acetone	ug/m3	ND	2.4	06/16/14 15:24	
Benzene	ug/m3	ND	0.32	06/16/14 15:24	
Benzyl chloride	ug/m3	ND	1.0	06/16/14 15:24	
Bromodichloromethane	ug/m3	ND	1.4	06/16/14 15:24	
Bromoform	ug/m3	ND	2.1	06/16/14 15:24	
Bromomethane	ug/m3	ND	0.79	06/16/14 15:24	
Carbon disulfide	ug/m3	ND	0.63	06/16/14 15:24	
Carbon tetrachloride	ug/m3	ND	0.64	06/16/14 15:24	
Chlorobenzene	ug/m3	ND	0.94	06/16/14 15:24	
Chloroethane	ug/m3	ND	0.54	06/16/14 15:24	
Chloroform	ug/m3	ND	0.99	06/16/14 15:24	
Chloromethane	ug/m3	ND	0.42	06/16/14 15:24	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/16/14 15:24	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	06/16/14 15:24	
Cyclohexane	ug/m3	ND	0.70	06/16/14 15:24	
Dibromochloromethane	ug/m3	ND	1.7	06/16/14 15:24	
Dichlorodifluoromethane	ug/m3	ND	1.0	06/16/14 15:24	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	06/16/14 15:24	
Ethanol	ug/m3	ND	0.96	06/16/14 15:24	
Ethyl acetate	ug/m3	ND	0.73	06/16/14 15:24	

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QUALITY CONTROL DATA

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

METHOD BLANK: 1709620 Matrix: Air
Associated Lab Samples: 10269786001, 10269786003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	06/16/14 15:24	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	06/16/14 15:24	
m&p-Xylene	ug/m3	ND	1.8	06/16/14 15:24	
Methyl-tert-butyl ether	ug/m3	ND	0.73	06/16/14 15:24	
Methylene Chloride	ug/m3	ND	3.5	06/16/14 15:24	
n-Heptane	ug/m3	ND	0.83	06/16/14 15:24	
n-Hexane	ug/m3	ND	0.72	06/16/14 15:24	
Naphthalene	ug/m3	ND	2.7	06/16/14 15:24	
o-Xylene	ug/m3	ND	0.88	06/16/14 15:24	
Propylene	ug/m3	ND	0.35	06/16/14 15:24	
Styrene	ug/m3	ND	0.87	06/16/14 15:24	
Tetrachloroethene	ug/m3	ND	0.69	06/16/14 15:24	
Tetrahydrofuran	ug/m3	ND	0.60	06/16/14 15:24	
Toluene	ug/m3	ND	0.77	06/16/14 15:24	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/16/14 15:24	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	06/16/14 15:24	
Trichloroethene	ug/m3	ND	0.55	06/16/14 15:24	
Trichlorofluoromethane	ug/m3	ND	1.1	06/16/14 15:24	
Vinyl acetate	ug/m3	ND	0.72	06/16/14 15:24	
Vinyl chloride	ug/m3	ND	0.26	06/16/14 15:24	

LABORATORY CONTROL SAMPLE: 1709621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.1	103	72-128	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	70.4	101	72-136	
1,1,2-Trichloroethane	ug/m3	55.5	52.3	94	72-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	80.4	103	68-126	
1,1-Dichloroethane	ug/m3	41.2	43.6	106	68-128	
1,1-Dichloroethene	ug/m3	40.3	40.4	100	68-130	
1,2,4-Trichlorobenzene	ug/m3	75.5	81.6	108	30-150	SS
1,2,4-Trimethylbenzene	ug/m3	50	55.2	110	71-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	89.5	115	73-136	
1,2-Dichlorobenzene	ug/m3	61.2	65.8	108	63-150	
1,2-Dichloroethane	ug/m3	41.2	43.1	105	71-132	
1,2-Dichloropropane	ug/m3	47	43.4	92	72-130	
1,3,5-Trimethylbenzene	ug/m3	50	51.7	103	73-136	
1,3-Butadiene	ug/m3	22.5	20.7	92	72-130	
1,3-Dichlorobenzene	ug/m3	61.2	66.7	109	69-142	
1,4-Dichlorobenzene	ug/m3	61.2	64.3	105	65-142	
2-Butanone (MEK)	ug/m3	30	28.3	94	71-135	
2-Hexanone	ug/m3	41.7	49.1	118	75-133	
2-Propanol	ug/m3	25	25.0	100	68-135	
4-Ethyltoluene	ug/m3	50	54.2	108	73-134	

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QUALITY CONTROL DATA

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

LABORATORY CONTROL SAMPLE: 1709621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	37.7	90	72-137	
Acetone	ug/m3	24.2	23.9	99	68-136	
Benzene	ug/m3	32.5	31.3	96	69-134	
Benzyl chloride	ug/m3	52.5	57.5	110	71-136	
Bromodichloromethane	ug/m3	68.2	71.5	105	74-129	
Bromoform	ug/m3	105	127	121	69-138	
Bromomethane	ug/m3	39.5	36.6	93	68-127	
Carbon disulfide	ug/m3	31.7	29.4	93	68-130	
Carbon tetrachloride	ug/m3	64	66.9	105	66-134	
Chlorobenzene	ug/m3	46.8	47.2	101	72-137	
Chloroethane	ug/m3	26.8	26.7	99	69-128	
Chloroform	ug/m3	49.7	54.7	110	72-127	
Chloromethane	ug/m3	21	19.2	92	69-125	
cis-1,2-Dichloroethene	ug/m3	40.3	44.1	109	71-135	
cis-1,3-Dichloropropene	ug/m3	46.2	44.6	97	74-134	
Cyclohexane	ug/m3	35	32.8	94	72-130	
Dibromochloromethane	ug/m3	86.6	104	120	73-133	
Dichlorodifluoromethane	ug/m3	50.3	50.8	101	69-125	
Dichlorotetrafluoroethane	ug/m3	71.1	67.6	95	68-128	
Ethanol	ug/m3	19.2	18.6	97	70-134	
Ethyl acetate	ug/m3	36.6	39.3	107	71-134	
Ethylbenzene	ug/m3	44.2	47.1	107	73-139	
Hexachloro-1,3-butadiene	ug/m3	108	144	133	30-150	CH
m&p-Xylene	ug/m3	44.2	46.2	105	73-139	
Methyl-tert-butyl ether	ug/m3	36.7	38.4	105	72-132	
Methylene Chloride	ug/m3	35.3	35.2	100	64-134	
n-Heptane	ug/m3	41.7	36.1	87	70-130	
n-Hexane	ug/m3	35.8	35.4	99	69-128	
Naphthalene	ug/m3	53.3	57.2	107	61-150	SS
o-Xylene	ug/m3	44.2	46.8	106	71-138	
Propylene	ug/m3	17.5	14.0	80	69-133	
Styrene	ug/m3	43.3	48.3	111	74-136	
Tetrachloroethene	ug/m3	69	74.4	108	69-136	
Tetrahydrofuran	ug/m3	30	30.3	101	73-131	
Toluene	ug/m3	38.3	36.5	95	67-133	
trans-1,2-Dichloroethene	ug/m3	40.3	41.5	103	70-131	
trans-1,3-Dichloropropene	ug/m3	46.2	46.6	101	72-135	
Trichloroethene	ug/m3	54.6	52.5	96	70-135	
Trichlorofluoromethane	ug/m3	57.1	58.3	102	67-125	
Vinyl acetate	ug/m3	35.8	37.1	103	72-133	
Vinyl chloride	ug/m3	26	22.9	88	69-132	

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QUALITY CONTROL DATA

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

SAMPLE DUPLICATE: 1710199

Parameter	Units	10269671001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	4.6	5.2	12	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	1.5	1.4	5	25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	1.5J		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	9.4	9.6	2	25	
2-Hexanone	ug/m3	1.7	1.3J		25	
2-Propanol	ug/m3	16.5	16.7	1	25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	145	150	3	25	E
Benzene	ug/m3	0.73	0.71	2	25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	0.86	0.84	3	25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	1.5J		25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	69.7	74.7	7	25	
Ethyl acetate	ug/m3	43.2	44.4	3	25	
Ethylbenzene	ug/m3	4.3	4.3	.6	25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	7.7	7.3	6	25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	51.9	53.3	3	25	
n-Heptane	ug/m3	ND	1.1J		25	

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QUALITY CONTROL DATA

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

SAMPLE DUPLICATE: 1710199

Parameter	Units	10269671001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	ND		25	
Naphthalene	ug/m3	6.8	5.1	29	25	R1,SS
o-Xylene	ug/m3	3.1	3.2	4	25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	10.7	10.4	3	25	
Tetrachloroethene	ug/m3	14.1	14.9	6	25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	10.6	11.1	5	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	ND		25	
Vinyl acetate	ug/m3	1.9	1.7	8	25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

QC Batch: AIR/20569
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10269786002, 10269786004

METHOD BLANK: 1710420
Matrix: Air
Associated Lab Samples: 10269786002, 10269786004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/17/14 20:02	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	06/17/14 20:02	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/17/14 20:02	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	06/17/14 20:02	
1,1-Dichloroethane	ug/m3	ND	0.82	06/17/14 20:02	
1,1-Dichloroethene	ug/m3	ND	0.81	06/17/14 20:02	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	06/17/14 20:02	
1,2,4-Trimethylbenzene	ug/m3	ND	2.5	06/17/14 20:02	
1,2-Dibromoethane (EDB)	ug/m3	ND	3.9	06/17/14 20:02	
1,2-Dichlorobenzene	ug/m3	ND	1.2	06/17/14 20:02	
1,2-Dichloroethane	ug/m3	ND	0.41	06/17/14 20:02	
1,2-Dichloropropane	ug/m3	ND	2.3	06/17/14 20:02	
1,3,5-Trimethylbenzene	ug/m3	ND	2.5	06/17/14 20:02	
1,3-Butadiene	ug/m3	ND	1.1	06/17/14 20:02	
1,3-Dichlorobenzene	ug/m3	ND	1.2	06/17/14 20:02	
1,4-Dichlorobenzene	ug/m3	ND	1.2	06/17/14 20:02	
2-Butanone (MEK)	ug/m3	ND	1.8	06/17/14 20:02	
2-Hexanone	ug/m3	ND	0.83	06/17/14 20:02	
2-Propanol	ug/m3	ND	1.2	06/17/14 20:02	
4-Ethyltoluene	ug/m3	ND	2.5	06/17/14 20:02	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	06/17/14 20:02	
Acetone	ug/m3	ND	2.4	06/17/14 20:02	
Benzene	ug/m3	ND	0.32	06/17/14 20:02	
Benzyl chloride	ug/m3	ND	1.0	06/17/14 20:02	
Bromodichloromethane	ug/m3	ND	1.4	06/17/14 20:02	
Bromoform	ug/m3	ND	5.3	06/17/14 20:02	
Bromomethane	ug/m3	ND	0.79	06/17/14 20:02	
Carbon disulfide	ug/m3	ND	0.63	06/17/14 20:02	
Carbon tetrachloride	ug/m3	ND	0.64	06/17/14 20:02	
Chlorobenzene	ug/m3	ND	0.94	06/17/14 20:02	
Chloroethane	ug/m3	ND	1.3	06/17/14 20:02	
Chloroform	ug/m3	ND	0.99	06/17/14 20:02	
Chloromethane	ug/m3	ND	0.42	06/17/14 20:02	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/17/14 20:02	
cis-1,3-Dichloropropene	ug/m3	ND	2.3	06/17/14 20:02	
Cyclohexane	ug/m3	ND	1.7	06/17/14 20:02	
Dibromochloromethane	ug/m3	ND	1.7	06/17/14 20:02	
Dichlorodifluoromethane	ug/m3	ND	1.0	06/17/14 20:02	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	06/17/14 20:02	
Ethanol	ug/m3	ND	0.96	06/17/14 20:02	
Ethyl acetate	ug/m3	ND	1.8	06/17/14 20:02	

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

METHOD BLANK: 1710420 Matrix: Air
Associated Lab Samples: 10269786002, 10269786004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	06/17/14 20:02	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	06/17/14 20:02	
m&p-Xylene	ug/m3	ND	1.8	06/17/14 20:02	
Methyl-tert-butyl ether	ug/m3	ND	0.73	06/17/14 20:02	
Methylene Chloride	ug/m3	ND	3.5	06/17/14 20:02	
n-Heptane	ug/m3	ND	2.1	06/17/14 20:02	
n-Hexane	ug/m3	ND	0.72	06/17/14 20:02	
Naphthalene	ug/m3	ND	2.7	06/17/14 20:02	
o-Xylene	ug/m3	ND	0.88	06/17/14 20:02	
Propylene	ug/m3	ND	0.88	06/17/14 20:02	
Styrene	ug/m3	ND	0.87	06/17/14 20:02	
Tetrachloroethene	ug/m3	ND	0.69	06/17/14 20:02	
Tetrahydrofuran	ug/m3	ND	1.5	06/17/14 20:02	
Toluene	ug/m3	ND	0.77	06/17/14 20:02	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/17/14 20:02	
trans-1,3-Dichloropropene	ug/m3	ND	2.3	06/17/14 20:02	
Trichloroethene	ug/m3	ND	0.55	06/17/14 20:02	
Trichlorofluoromethane	ug/m3	ND	1.1	06/17/14 20:02	
Vinyl acetate	ug/m3	ND	1.8	06/17/14 20:02	
Vinyl chloride	ug/m3	ND	0.26	06/17/14 20:02	

LABORATORY CONTROL SAMPLE: 1710421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.2	107	72-128	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	73.5	105	72-136	
1,1,2-Trichloroethane	ug/m3	55.5	61.8	111	72-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	85.5	110	68-126	
1,1-Dichloroethane	ug/m3	41.2	46.0	112	68-128	
1,1-Dichloroethene	ug/m3	40.3	44.0	109	68-130	
1,2,4-Trichlorobenzene	ug/m3	75.5	80.6	107	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	54.6	109	71-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	91.1	117	73-136	
1,2-Dichlorobenzene	ug/m3	61.2	72.5	119	63-150	
1,2-Dichloroethane	ug/m3	41.2	45.4	110	71-132	
1,2-Dichloropropane	ug/m3	47	57.4	122	72-130	
1,3,5-Trimethylbenzene	ug/m3	50	52.7	105	73-136	
1,3-Butadiene	ug/m3	22.5	25.2	112	72-130	
1,3-Dichlorobenzene	ug/m3	61.2	73.2	120	69-142	
1,4-Dichlorobenzene	ug/m3	61.2	69.0	113	65-142	
2-Butanone (MEK)	ug/m3	30	31.6	105	71-135	
2-Hexanone	ug/m3	41.7	45.1	108	75-133	
2-Propanol	ug/m3	25	29.1	116	68-135	
4-Ethyltoluene	ug/m3	50	55.5	111	73-134	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

LABORATORY CONTROL SAMPLE: 1710421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	48.1	115	72-137	
Acetone	ug/m3	24.2	25.4	105	68-136	
Benzene	ug/m3	32.5	37.4	115	69-134	
Benzyl chloride	ug/m3	52.5	57.4	109	71-136	
Bromodichloromethane	ug/m3	68.2	81.4	119	74-129	
Bromoform	ug/m3	105	105	100	69-138	
Bromomethane	ug/m3	39.5	45.8	116	68-127	
Carbon disulfide	ug/m3	31.7	33.3	105	68-130	
Carbon tetrachloride	ug/m3	64	68.7	107	66-134	
Chlorobenzene	ug/m3	46.8	52.2	111	72-137	
Chloroethane	ug/m3	26.8	28.5	106	69-128	
Chloroform	ug/m3	49.7	52.0	105	72-127	
Chloromethane	ug/m3	21	24.5	117	69-125	
cis-1,2-Dichloroethene	ug/m3	40.3	48.1	119	71-135	
cis-1,3-Dichloropropene	ug/m3	46.2	54.5	118	74-134	
Cyclohexane	ug/m3	35	38.1	109	72-130	
Dibromochloromethane	ug/m3	86.6	105	121	73-133	
Dichlorodifluoromethane	ug/m3	50.3	55.9	111	69-125	
Dichlorotetrafluoroethane	ug/m3	71.1	75.8	107	68-128	
Ethanol	ug/m3	19.2	19.2	100	70-134	
Ethyl acetate	ug/m3	36.6	40.9	112	71-134	
Ethylbenzene	ug/m3	44.2	45.0	102	73-139	
Hexachloro-1,3-butadiene	ug/m3	108	103	95	30-150	
m&p-Xylene	ug/m3	44.2	45.3	103	73-139	
Methyl-tert-butyl ether	ug/m3	36.7	41.7	114	72-132	
Methylene Chloride	ug/m3	35.3	40.3	114	64-134	
n-Heptane	ug/m3	41.7	48.9	117	70-130	
n-Hexane	ug/m3	35.8	38.0	106	69-128	
Naphthalene	ug/m3	53.3	64.8	121	61-150	SS
o-Xylene	ug/m3	44.2	42.4	96	71-138	
Propylene	ug/m3	17.5	18.9	108	69-133	
Styrene	ug/m3	43.3	44.8	103	74-136	
Tetrachloroethene	ug/m3	69	77.1	112	69-136	
Tetrahydrofuran	ug/m3	30	35.3	118	73-131	
Toluene	ug/m3	38.3	43.0	112	67-133	
trans-1,2-Dichloroethene	ug/m3	40.3	47.5	118	70-131	
trans-1,3-Dichloropropene	ug/m3	46.2	45.7	99	72-135	
Trichloroethene	ug/m3	54.6	65.7	120	70-135	
Trichlorofluoromethane	ug/m3	57.1	58.9	103	67-125	
Vinyl acetate	ug/m3	35.8	39.6	111	72-133	
Vinyl chloride	ug/m3	26	27.3	105	69-132	

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QUALITY CONTROL DATA

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

SAMPLE DUPLICATE: 1711154

Parameter	Units	10270041002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	47.1	48.4	3	25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	4.1	4.6	12	25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	123	104	17	25	IS
Benzene	ug/m3	ND	ND		25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	1.4	1.4	.1	25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	11.7	12.3	5	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	14.2	15.8	11	25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	2.2J		25	
n-Heptane	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

SAMPLE DUPLICATE: 1711154

Parameter	Units	10270041002 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	ND		25	
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	ND	ND		25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Tetrahydrofuran	ug/m3	341	350	3	25	IS
Toluene	ug/m3	1.6	1.7	4	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	2.0	2.2	9	25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
IS	The internal standard recovery associated with this result exceeds the lower control limit. The reported result should be considered an estimated value.
R1	RPD value was outside control limits.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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Minneapolis, MN 55414
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11140247.00001 156 Tillary St.
Pace Project No.: 10269786

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10269786001	**Base 1**	TO-15	AIR/20553		
10269786002	**Base 2**	TO-15	AIR/20569		
10269786003	**Base 3**	TO-15	AIR/20553		
10269786004	**AMB060414**	TO-15	AIR/20569		

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10269786

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www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

13541

Page: 1 of 1

Section A Required Client Information:

Company: URS CORP
Address: 1 PENN PLAZA N.Y.C., N.Y.
Email To: ROBERT.WOLFF@URS.COM
Phone: 212-896-0300 Fax: —
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: ROBERT WOLFF
Copy To: —
Purchase Order No.:
Project Name: 156 TILLARY ST.
Project Number: 11140247.00001

Section C Invoice Information:

Attention: MARY ANN CICHELLI
Company Name: URS CORP
Address: 1255 BROAD ST. CLIFTON, NJ.
Pace Quote Reference:
Pace Project Manager/Sales Rep.: NATHAN BOBERG
Pace Profile #: PO 11140247

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other____

Location of Sampling by State: NY

Reporting Units: ug/m³___ mg/m³___ PPBV___ PPMV___ Other___

Report Level: II.___ III.___ IV.___ Other_____

Section D Required Client Information

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab DATE	TIME	Composite - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	BASE 1	6LC	1.7	6/4/14	10:12	6/4/14	12:12	-23	-5	1639	0422							X			001
2	BASE 2	6LC	1.1	↓	10:33	↓	12:33	-29	-3	0851	0192							X			002
3	BASE 3	6LC	0.5	↓	11:00	↓	13:00	-30	-11	2374	0239							X			003
4	AMB 060414	6LC	0	↓	10:39	↓	12:39	-30	-8	2312	0170							X			004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John Crespo / URS	6/4/14		[illegible] / PACE	6/6/14	0840

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JOHN CRESPO

SIGNATURE of SAMPLER: John Crespo — DATE Signed (MM/DD/YY): 6/4/14

ORIGINAL

Pace Analytical	Document Name: **Air Sample Condition Upon Receipt**	Document Revised: 26Dec2013 Page 1 of 1
	Document No.: **F-MN-A-106-rev.09**	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: URS CT

Project #: WO# : 10269786

10269786

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other: _____

Tracking Number: 5979 6584 3540

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other: _____ **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** ☐ B88A912167504 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** 6/6/14

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: air can				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
base 1	1639		0422		
base 2	0851		0162		
base 3	2374		0239		
AMB	2312		0170		

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [signature] **Date:** 6-6-14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)