

2014 Periodic Review Report

**Former Utility Platers and Kingston
Diagnostics
BCP No. C 356035
Schwenk Drive and Washington Avenue
City of Kingston, Ulster County, New York
Site County, New York**

May 2014

Chazen Project No. 41103.00



Prepared for:

New York State Department of Environmental
Conservation
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Albany, New York 12233

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1.0 EXECUTIVE SUMMARY

On behalf of Woodhaven National Management, LLC, The Chazen Companies, Inc. (Chazen) provides Operations, Maintenance, and Monitoring (OM&M) support for existing remedial systems at the former Utility Platters, Inc./Kingston Diagnostics facility in Kingston, New York (the "Site"). The Site is identified as Brownfield Cleanup Program (BCP) Site No. C356035 and currently houses a CVS pharmacy. A Site Location Map is included as **Figure 1**.

This Periodic Review Report summarizes site conditions and recent on-site treatment system data with respect to the Remedial Action Objectives for the Site and the results, analysis, and conclusions for system operations parameters data and environmental media sampling, collected for the period April 19, 2013 through April 19, 2014. The Site Management Periodic Review Report Notice and Institutional and Engineering Controls Certification Form, signed appropriately, are attached in Appendix B.

1.1 Remedial History

The remedy for this site included the 2009 removal of volatile organic compound (VOC) impacted soils from beneath the former on-site Utility Platters building and areas immediately downgradient, the closure and removal of three fuel oil underground storage tanks (USTs) and related petroleum impacted soil, the installation of a sub-slab depressurization (SSDS) system beneath the constructed CVS building, and construction of an impermeable soil cover system.

1.2 Effectiveness of Remedial Program

- Source soil was removed with remaining soil VOC concentrations mostly below Part 375 Restricted Residential Use (RRU) Soil Cleanup Objectives (SCOs).
- Groundwater impacts remain primarily in on-site monitoring well (MW-1). The concentration of the most prevalent VOC compound in this well, TCE, has been reduced from over 10 ppm during periods prior to the remedy down to 490 ug/L during the most recent March 2014 sampling event. Relative to the highest pre-remedial MW-1 sample results, this is an approximate 98 percent TCE reduction. Downgradient wells MW-2 and MW-5 reflect this reduction with TCE near ND in MW-2 and a TCE concentration of 110 upg/l in MW-5. VOC concentrations in MW-5 were higher in 2014 than in 2013 for unknown reasons.
- Post-remedy indoor air sampling has revealed low or non-detect concentrations of New York State Department of Health (NYSDOH) Matrix 1 and Matrix 2 VOCs during the March 2014 sampling event, consistent with concentrations detected in prior sampling events.

1.3 Compliance

The active SSDS has been operating as intended/designed, no breaching of the impermeable soil cover has been observed, and groundwater monitoring wells remain operational. The SSDS system was operating normally during both site inspections conducted during this monitoring period.

1.4 Recommendations

The data suggest that VOC impacts to groundwater are continuing to attenuate, with residual concentrations remaining primarily in one well (MW-1), significantly lesser impacts in well MW-5 and only slight exceedences of groundwater quality standards in well MW-2. Wells MW-3 and MW-4 were abandoned on October 25, 2013 with NYSDEC approval.

Continued monitoring of the three remaining wells (MW-1, MW-2 and MW-5) in accordance with the current monitoring and inspection schedule, is sufficient to monitor the continuing VOC attenuation occurring at this Site.

2.0 SITE OVERVIEW

2.1 Site Location and Pre-Remedy Conditions

The site is a 1.73-acre parcel located in a commercial area of the City of Kingston, Ulster County, New York. The site is bounded by Schwenk Drive to the north, Trailways Bus Terminal to the south, Esposito's Dry Cleaning to the east, and Washington Avenue to the west. The current main site features include one commercial retail building occupied as a CVS retail store and pharmacy. A Site Layout Map is included as **Figure 2**. The site formerly contained a masonry block structure known as Utility Platers and a commercial medical office building known as Kingston Diagnostics.

Prior uses of the Site, primarily handling/storage/disposal practices at the former Utility Platers facility, appear to have resulted in impacts to on-site soils and groundwater from the release of chlorinated solvents trichloroethylene (TCE), dichloroethylene (DCE) and vinyl chloride. Groundwater impacts extended from the upgradient Utility Platers parcel to the downgradient Kingston Diagnostics parcel. Both parcels were later combined to form the BCP site which is currently occupied by the CVS retail/pharmacy facility.

2.2 Chronology of Remedial Program

The site remedy was implemented by DT Consulting Services, Inc. in accordance with the NYSDEC-approved Interim Remedial Measure Work Plan dated July 2009. The following is a summary of Remedial Actions and IRMs performed at the site in the BCP:

- Excavation of soil and fill exceeding Restricted-Residential Use (RRU) Soil Cleanup Objectives (SCOs) encountered during historical site investigations including during the remedial investigation (RI). Impacted materials were excavated from areas beneath and downgradient of the former Utility Platers facility to a depth of 10 to 12 feet below the ground surface (bgs) totaling 4,563 tons of material excavated and removed from the site (September 2009).
- Closure and removal of three No. 2 fuel oil underground storage tanks (USTs) and excavation and removal of approximately 350 tons of related petroleum-impacted soil (September 2009).
- Installation of a Subslab Depressurization System (SSDS) to remove VOC vapors from beneath the newly completed site structure (June 2010).

- Construction and maintenance of a soil cover system consisting of asphalt pavement to prevent infiltration of storm water into the plume area, to prevent human exposure to remaining impacted soil/fill remaining on the site, and to extend an impermeable surface over the SSDS footprint for vapor control optimization.
- Execution and recoding of an Environmental Easement to restrict land use to prevent future human and environmental exposure to residual site contaminants.
- Development and implementation of a Site Management Plan (SMP) for long term management of remaining impacts as required by the Environmental Easement including: 1) Institutional and Engineering Controls; 2) Monitoring; 3) Operation and Maintenance of the SSDS; and 4) Reporting.

These remedial activities were completed at the site between September 2009 and October 2010.

3.0 REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS

In accordance with the Department-approved SMP dated September 2010, the Certificate of Completion (COC) dated December 3, 2010 and correspondence from NYSDEC dated September 18, 2013, monitoring events included the collection and analysis of groundwater from three on-site monitoring wells (MW-1, MW-2, and MW-5 – **Figure 2**) conducted on a semi-annual basis and sampling of indoor air quality (IAQ) on an annual basis.

Groundwater samples for the current reporting period were collected from the site on October 25, 2013 and March 26, 2014. The groundwater samples were collected in a manner consistent with the methodologies identified in the approved Field Sampling Plan. Copies of the field sampling sheets are attached. Samples were collected in laboratory-provided sample jars and immediately chilled. Duplicate samples were also collected from MW-1 during the March 2014 event and from MW-5 during the October 2013 event.

The groundwater samples were analyzed for VOCs via USEPA Method 8260 and for priority pollutant metals via USEPA Method 3010A/7471. The SMP also included the sampling of semi-volatile organic compounds (SVOCs); however, based on the general absence of SVOCs detected in historic groundwater samples and the low solubility of SVOCs in groundwater, the Department previously agreed to exclude SVOCs analyses from the post-COC sampling events. The laboratory provided ASP Category B deliverable data packages which were submitted for data validation to DATAVAL, Inc. of Endwell, New York. Copies of the laboratory reports are attached electronically in Appendix B. The DUSRs are still in process and will be provided under separate cover after receipt and review by Chazen.

During the March 2014 sampling event, one IAQ sample was also collected from within the existing CVS building. Chazen utilized a laboratory-provided SUMMA Canister with eight hour regulator to collect the annual indoor sample.

The following summarizes laboratory analytical results of this groundwater sampling event compared to the previous rounds of sampling conducted at the site. **Table 2** compares the sampling to guidance values published in Part 703.

- VOC concentrations in the historically most-impacted well, MW-1, have dropped substantially below pre-treatment concentrations. TCE was found at concentrations as high as 30,000 ug/L prior to remediation, now at 490 ug/L as of the recent March 2014 sampling round. Vinyl chloride previously found at 3,900 ug/L was 99 ug/L during the recent sampling round. Also, the concentration of 1,2-Dichloroethylene in MW-1, originally present as high as 8,435 ug/L was 568 ug/L in March 2014. All 2014 concentrations are equal to or below 2013 concentrations, suggestive of successful VOC attenuation.
- In the remaining site monitoring wells, VOC concentrations are currently within 10 ppb of Part 703 standards in well MW-2 but higher and somewhat variable in MW-5. TCE and 1,2-DCE concentrations in MW-5 have been increasing since late 2012, potentially representing a residual dissolved-phase pulse migrating across the excavation footprint from the upgradient MW-1 area. As noted previously, wells MW-3 and MW-4 were abandoned in October 2013 with NYSDEC approval.
- Metals of concern at this site have been cadmium, lead, nickel and selenium. In MW-1, concentrations of nickel and selenium consistent with data from prior rounds and remain between 100 and 200 ug/L, in exceedence of Part 703 standards. The 2014 dissolved cadmium concentration was below the 2013 sampling results and all data lie within the range of site condition variability. Metals in remaining wells MW-2 and MW-5 are all near or below Part 703 standards.

Pre-remediation vapor concentrations of TCE and cis-1, 2-Dichloroethylene in the former Kingston Diagnostics building were 290 and 28.03 ug/m³, respectively. With the SSDS system now in place, March 2014 concentrations of these compounds in the CVS building were 0.0098 ug/m³ for TCE and below laboratory detection limits for cis-1,2-Dichloroethylene (**Table 3**). These indicate effective implementation of the soil excavation remedy and the SSDS system.

The SSDS system has operated nearly continuously since start-up in 2010. Chazen used a photo-ionization detector (PID) to screen the bulk concentration of VOCs in the airstream during the March 2014 site visit. The recorded bulk VOC concentration was below the detection limit of the instrument, limiting plausible continuing venting concentrations to the high ppb concentrations at most.

4.0 INSTITUTIONAL CONTROL/ENGINEERING CONTROL COMPLIANCE REPORT

4.1 IC/EC Requirements and Compliance

The following IC/ECs are in place at the site:

1. A Composite Cover System- exposure to remaining contamination in soil/fill at the site is prevented by a combination of a minimum of 24 inches of clean soil, asphalt pavement, concrete sidewalks or the concrete building slab. The visual integrity of this system is reviewed during each annual site inspection and noted on a Site Inspection Report (Appendix A). An Excavation Work Plan presented in the SMP outlines procedures required in the event that the cover system is observed to be breached, penetrated, or any

underlying contaminated material is disturbed. Based on the March 2014 inspection, the cover appears to be in-place and does not appear to have been breached.

2. SSDS- An active SSDS was installed on the property in 2010 and contains a blower unit continuously depressurizing a sub-slab gravel layer with slotted PVC piping. The blower vents through the roof of the building, continuously vacuuming air from beneath the sub-slab to draw any impacted air past occupied spaces. Procedures for operating and maintaining the SSDS are documented in the O&M Plan of the SMP. The SSDS is evaluated annually through collection of an indoor air sample and an inspection of the system. Copies of the annual system inspection forms are included in Appendix A and a figure of the SSDS design is included as **Figure 3**.
3. Groundwater Monitoring-Monitored Natural Attenuation – Post remedy groundwater monitoring activities to assess ongoing natural attenuation are conducted on a semi-annual basis and will continue until residual groundwater concentrations are found to be below Part 703 groundwater quality standards or have become asymptotic at an acceptable level to the NYSDEC over time.
4. The property may be used for “Restricted-residential use,” “Commercial use” and/or “Industrial use” as described within 6 NYSRR Part 375-1.8(g)(2)(ii), (iii) and (iv).
5. Data and information pertinent to the SMP of the Controlled Property must be reported at the frequency and manner defined in the SMP;
6. Access to the Site must be provided to agents, employees or other representatives of the state of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.

4.2 IC/EC Certification

The EC/IC Certification forms are included in **Appendix B**.

5.0 MONITORING PLAN COMPLIANCE REPORT

5.1 Components of the Monitoring Plan

The Monitoring Plan included sampling of five existing groundwater monitoring wells on a semi-annual basis for the first two years following completion of remedial activities in late 2010, annual sampling of indoor air and SSDS discharge for the first five years followed by sampling every five years thereafter until year 15, and annual visual inspection of the impermeable cover system. Permission to decommission monitoring wells MW-3 and 4 was provided in 2013. The remaining monitoring plan components are as follows:

1. Three monitoring wells exist on the site (MW-1, MW-2 and MW-5) to monitor up- and down-gradient conditions at the site. Groundwater sampling is conducted semi-annually in March/April and October. Well sampling activities are logged in a groundwater sampling log (Appendix A), which serve as the inspection form for the well network. Groundwater samples are analyzed for VOCs and priority pollutant metals. Wells are inspected during each sampling event. If an event renders the wells unusable, or if the approval is granted that well sampling is

no longer required, they will be property decommissioned and/or replaced. The NYSDEC will be notified prior to any well repair or decommissioning.

2. SSDS discharge and IAQ monitoring is performed annually during or before April to ensure sampling during the heating season. Sampling activities for the SSDS are recorded in the designated field book and field logs. IAQ samples are analyzed for VOCs via USEPA Method T0-15. In addition, the SSDS system is inspected periodically to determine if it is functioning properly, if there is foundation damage or building defects that could reduce its effectiveness, and to assess blower conditions.
3. A site-wide inspection of the facility is conducted annually in April as well as after any severe weather condition that may affect ECs or monitoring devices. An inspection form is completed after each inspection (Appendix A). The inspection assesses compliance with ICs and site usage; condition and continued effectiveness of ECs; general site conditions, site management activities being conducted, compliance with the O&M Plan.

5.2 Summary of Monitoring Completed During Reporting Period

Monitoring completed during the reporting period (October 2013 and March 2014) has included two semi-annual groundwater sampling events of the three functional on-site wells, one annual indoor air sampling event (March 2014) from within the current CVS structure, one inspection of the SSDS (March 2014), and one site-wide inspection (March 2014). Groundwater and sampling points are depicted on **Figure 2**. **Table 1** provides groundwater elevations for each sampling event. **Table 2** shows post-remediation groundwater sampling data from December 2009 to the present. **Table 3** compares annual IAQ sampling data to NYSDOH Matrix 1 and Matrix 2 compounds. Field sampling sheets, a copy of the 2014 Annual Site Wide Inspection form and 2014 SSDS inspection form are attached in **Appendix A**.

5.3 Comparisons with Remedial Objectives

Soil

- Post excavation sampling completed during the remedy and IRMs confirmed that Track 4 Restricted Residential SCOs were met for most all post-excavation soil samples. Post-excavation soil sampling revealed that most remaining soil met Restricted Residential SCOs.

Groundwater

- Dissolved chlorinated solvents in all site monitoring wells remain above groundwater standards. From pre-remedial TCE concentrations in MW-1 as high as 30,000, post-remedy TCE concentrations in MW-1 have declined from 14,000 ug/L in 2009 to below 500 ug/L in March of 2014(**Table 2**). This current TCE concentration in the MW-1 location is an approximately 98 percent reduction from pre-remedial concentrations, a 95 percent reduction from the first post-remedy sampling event (December 2009) and an approximately 60 percent reduction in the past two years, from the March 2012 sampling event.
- Downgradient well MW-2 identifies VOC concentrations not exceeding 20 ug/L for any individual analyte and TCE near ND at 1.4 ug/L. Downgradient well WM-5 is currently showing 110 ug/L TCE and 37 ug/l 1,2-DCE. Chlorinated solvents in MW-5 have risen over the past two years and

may represent a dissolved CVOC remnant from the original source zone.

Indoor Air

- The 2012 through 2014 sampling data indicate the effectiveness of the active SSDS (**Table 3**).

5.4 Monitoring Deficiencies

No monitoring deficiencies were identified during the sampling and reporting period.

5.5 Conclusions and Recommendations for Changes

Site remedy (source removal and active SSDS) have substantially mitigated prior site source areas. Groundwater sampling data show decreasing dissolved chlorinated compounds in the prior MW-1 highest-impacted area, and limited although varying TCE, 1-2,-DCE and Vinyl Chloride concentrations in downgradient wells MW-2 and MW-5. .

6.0 OPERATION AND MAINTENANCE (O&M) PLAN COMPLIANCE RPEORT

6.1 Components of the O&M Plan

The O&M Plan presented in the SMP includes the steps necessary to operate and maintain the on-site SSDS and include an O&M contingency plan. Non-mechanical ECs (i.e., soil cover system) are discussed in the EC/IC Control Plan.

The SSDS system has operated at the site continuously since start-up on May 15, 2010. The system includes a vapor barrier, gravel layer, slotted vent pipe network, riser pipe with roof vent and in-line fan. The system must remain powered at all times to operate successfully and a control box is locked to securely to prevent unauthorized shut off.

Routine operation of the blower unit includes ensuring availability of a continuous power source to the blower motor and confirmation that the piping does not leak or have blockages. Routine equipment maintenance is to be conducted as needed and includes annual inspection and cleaning of the vapor riser pipe outlets, and collection and analyses of air quality samples per the annual sampling schedule. Non-routine equipment maintenance would include cutting through the concrete floor slab to install new equipment or make other building modifications to maintain the integrity and performance of the SSDS. In the event of a non-routine condition (i.e., system damage or reduced effectiveness which would initiate a red warning light, and/or system component replaces), the Site owner will notify the NYSDEC within 24 hours and proceed with correcting the maintenance and/or repair.

6.2 Summary of O&M Completed During Reporting Period

Annual air quality sampling and an SSDS inspection were conducted in March 2014. No deficiencies in the system were noted which required maintenance or repair from the prior March 2013 inspection to the current period.

6.3 Evaluation of Remedial Systems

Based on the results of the annual monitoring of the SSDS, the SSDS appears to be performing as designed/expected.

6.4 O&M Deficiencies

No O&M deficiencies were noted during the reporting period.

6.5 Conclusions and Recommendations for Improvement

The SSDS appears to be functioning as designed/expected. There are no recommendations for improvements to the O&M Plan or program at this time.

7.0 OVERALL PERIODIC REVIEW REPORT CONCLUSIONS AND RECOMMENDATIONS

7.1 Compliance with the Site Management Plan

IC/ECs in place at the site include an active SSDS and an impermeable cover system.

- Annual inspection of the SSDS during March 2014 indicate that the SSDS is operating as designed/expected. No maintenance of the system has occurred or was found to be necessary during the reporting period.
- The Annual Site Wide Inspection conducted in March 2014 indicates that groundwater monitoring wells are in place and in good condition and that no visible breaches in the impermeable cover were noted. In addition, the site is currently occupied as a CVS retail store and pharmacy which is in compliance with the commercial or restricted residential use of the site.
- Groundwater monitoring has been conducted semi-annually (October 2013 and March 2014) and IAQ monitoring has been conducted annually (March 2014), in accordance with the SMP schedule.

7.2 Performance and Effectiveness of the Remedy

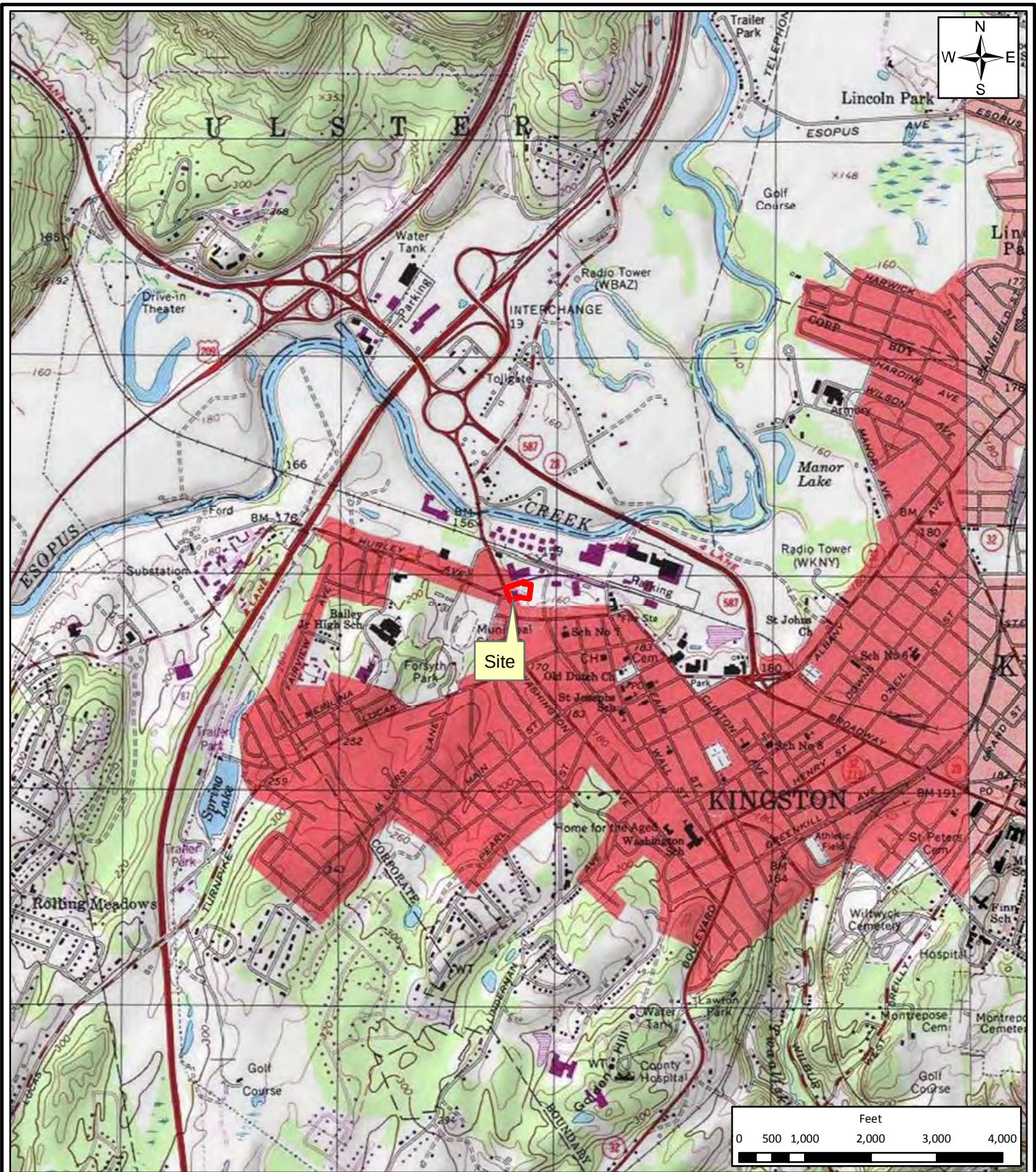
- Semi-annual groundwater monitoring suggests that remaining impacts have been significantly reduced since implementation of the remedy. Since the 2009 excavation of source soils and startup of the SSDS, VOCs are attenuating towards groundwater standards.
- Annual IAQ sampling and SSDS monitoring indicate that the SSDS system is working effectively.

The combined results of the site inspection, semi-annual groundwater sampling, and annual IAQ sampling suggest that the remedy is working effectively.

7.3 Future PRR Submittals

Monitoring for the fourth reporting period will include semi-annual groundwater monitoring in October 2014, and annual groundwater, IAQ, SSDS monitoring and a site-wide inspection in March 2015. A semi-annual report will be submitted to the NYSDEC for these events will be submitted in April 2015.

FIGURES



THE
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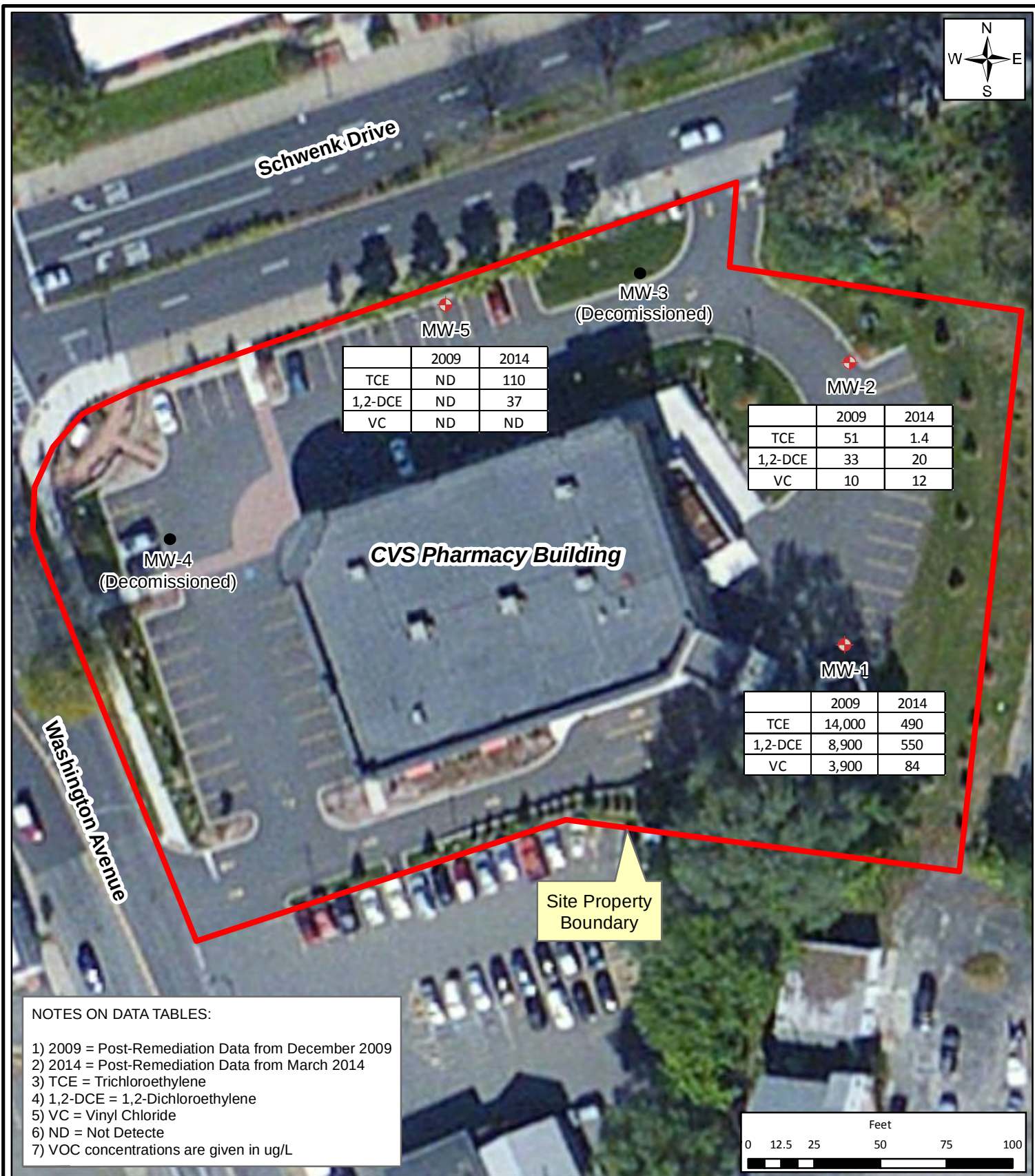
Northeast Retail Site

Figure 1 - Site Location Map

Schwenk Drive at Washington Avenue
City of Kingston, Ulster County, New York

Source: USGS Topographic Maps of the Kingston East and Kingston West, New York Quadrangles, Dated 1963 (Photorevised 1980) and 1997 respectively, 7.5-minute series; Ulster County Real Property Services 2007 Tax Parcel Data.

Drawn:	EJO
Date:	May 2014
Scale:	As Shown
Project:	41103.00
Figure:	1



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Former Utility Platers and Kingston Diagnostics Site

Figure 2 - Site Layout Map

Schwenk Drive at Washington Avenue
City of Kingston, Ulster County, New York

Source: i-Cubed Nationwide Prime orthoimagery, 2011; Ulster County Real Property Services
2007 Tax Parcel Data; Site Details from Mapping by DT Consulting, 2010.

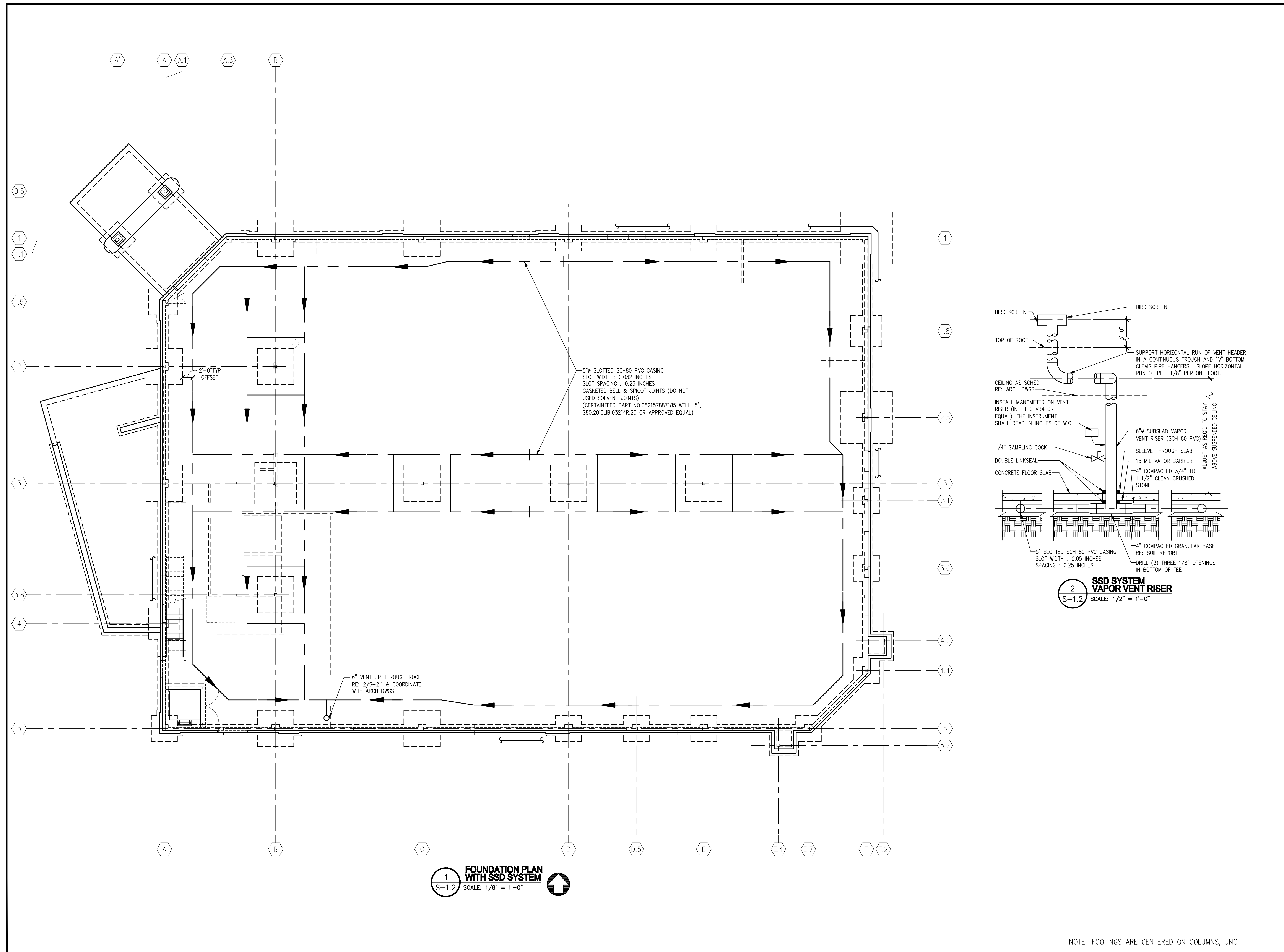
Drawn: EJO

Date: May 2014

Scale: As Shown

Project: 41103.00

Figure: 2



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ARCHITECTS ENGINEERS SURVEYORS

SEAL:

CVS/
pharmacy

12900
9.1.06
TYPE A

PROJECT TYPE: NEW

STORE NUMBER: 8945

WASHINGTON AVE. & SCHWENK DR. (SEC)
KINGSTON, NY 12401

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REVISIONS:

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CONSTRUCTION MGR. B. FLANNERY
DRAWING BY: RLH
DATE: 13 JUL 2009
JOB NUMBER: 6544-002
TITLE:

SUB-SLAB
DEPRESSURIZATION SYSTEM

SHEET NUMBER:

S-1.2

COMMENTS:

BID DOCUMENT

Figure 3- SSDS Layout

TABLES

Table 1: Monitoring Well and Groundwater Elevations

BCP Site No. C356035 - Former Utility Platers and Kingston Diagnostics (Current CVS Building)

Washington Avenue and Schwenck Drive, City of Kingston, Ulster County, New York

Well ID	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)						
		4/20/2011	10/20/2011	3/27/2012	10/9/2012	3/11/2013	10/25/2013	3/26/2014
MW-1	164.70	150.47	150.36	149.80	149.67	150.26	149.61	150.67
MW-2	160.56	148.06	148.02	143.37	143.91	145.70	142.34	147.19
MW-3	158.75	153.17	153.32	151.54	152.03	151.72	NA	NA
MW-4	168.32	162.40	162.48	161.75	161.80	162.10	NA	NA
MW-5	162.51	155.67	155.88	154.03	154.14	154.08	153.47	154.57

NOTES:

- 1) AMSL = Above Mean Sea Level
- 2) Top of Casing Elevations were obtained from a site survey map dated June 2, 2010, created by Brinner and Larios.
- 3) NA - groundwater elevation not applicable, as well was abandoned.

Table 2: Groundwater Monitoring Data
BCP Site No. C356035 - Former Utility Platers and Kingston Diagnostics Site (Current CVS Building)
Washington Avenue and Schwenk Drive, City of Kingston, Ulster County, New York

Sample Location					MW-1													
Sample Date					12/23/2009	4/20/2011	4/20/2011 (MW-DUP)	10/20/2011	10/20/2011 (MW-DUP)	3/27/2012	3/27/12 (MW-DUP)	10/9/2012	3/11/2013	3/11/2013 (MW-DUP)	10/25/2013	3/26/2014	3/26/2014 (MW-DUP)	
Analyte		Units	Part 703 Groundwater Standard	TOGS 1.1.1 Groundwater Standard	Results													
EPA Method 8260 Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	ug/L	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,1-Trichloroethane		5*	5	3	1.2 J	1.2 J	2.8 J	2.8 J	1.3 J	1.3 J	1.7 J	1.2 J	1.4 J	ND	ND	1.4 J	
	1,1,2,2-Tetrachloroethane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,2-Trichloroethane		1	1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1-Dichloroethane		5*	0.6	23	3.8 J	3.7 J	5.3	5.8	6.4	6.2	7.5	3.1 J	2.8 J	6.8	1.4 J	1.4 J	
	1,1-Dichloroethylene		5*	5	38	3.1 J	3.5 J	3.4 J	3.4 J	8.2	7.6	5.5	1.3 J	1.2 J	6.6	ND	0.50 J	
	1,1-Dichloropropylene		NS	5	--	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichlorobenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane		0.04	0.04	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trimethylbenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trichlorobenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trimethylbenzene		5*	5	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane		0.04	0.04	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane		NS	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene		3**	3	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane		0.6	0.6	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethylene (Total)		5*	5	8,435	1,026	629	1,624	1,324	1,975	2,070	1,029	572	710	2,457	568	216.6	
	1,2-Dichloropropane		1	1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3,5-Trimethylbenzene		5*	5	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND
	1,3-Dichlorobenzene		3**	3	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichloropropane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene		3**	3	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Chlorohexane		NS	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2,2-Dichloropropane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Chlorotoluene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Chlorotoluene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene		1	1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromobenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromodichloromethane		NS	50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform		NS	50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane		5*	5	--	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride		5	5	--	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	Chlorobenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform		7	7	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane		NS	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropylene		0.4**	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane		NS	50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichlorodifluoromethane		5*	5	--	ND	ND	ND	ND	ND	R	R	ND	ND	ND	ND	ND	ND
	Ethylbenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 J	ND
	Hexachlorobutadiene		0.5	0.5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Isopropylbenzene		5*	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl tert-butyl ether (MTBE)		NS	10	--	ND	ND	ND	ND	ND	ND J	ND J	ND	ND J	ND J	ND	ND	ND
	Methylene chloride		5*	5	6	3.4 JB	4.0 JB	4.5 JB	4.4 JB	ND	ND	ND	2.4 J	3.1 J	ND	ND	ND	ND
	Naphthalene		10	10	1	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	6.0 J	ND
n-Butylbenzene	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
n-Propylbenzene	5*	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
o-Xylene	5*	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
p-&m-Xylenes	5*	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2 J	ND		
p-Isopropyltoluene	5*	5	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
sec-Butylbenzene	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Styrene	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
tert-Butylbenzene	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Tetrachloroethylene	5*	5	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Toluene	5*	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
trans-1,3-Dichloropropylene	0.4**	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Trichloroethylene	5*	5	14,000	800	500	130	180	1,200	1,200	670 DJ	490	620	1,800	490	250			
Trichlorofluoromethane	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Vinyl chloride	1	1	3,900	130	150	100	110	160 J	170 J	190 J	99	83	ND	ND	84	30		
Sample Date					6/3/2010	4/20/2011	4/20/2011	10/20/2011	10/20/2011	3/27/2012	3/27/2012	10/9/2012	3/11/2013	3/11/2013	10/25/2013	3/26/2014	3/26/2014	
EPA Method 6010 Priority Pollutant Metals	Antimony	ug/L	3	3	ND	ND	ND	5	5	ND	ND	ND	ND	ND	ND	ND	ND	
	Arsenic		25	25	ND	11	ND	10	ND	ND	ND	10	ND	5	7	ND	ND	
	Beryllium		11***	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Cadmium		5	5	31	63	59	114	126	47	42	7	120	95	33	121	103	
	Chromium		50	50	13	11	8	29	32	5	ND	ND	28	17	8	21	15	
	Copper		200	200	38	8	6	17	18	ND	ND	ND	13	5	20	ND	ND	
	Lead		25	25	33	4	3	7	6	3 J	ND	ND	5	ND	3	ND	ND	
	Nickel		100	100	257	309	307	660	703	749	748	266	288	286	477	307	319	
	Selenium		10	10	14	ND	ND	ND	ND	22 J	16 J	15	13	11	ND	14	ND	
	Silver		50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Thallium		8	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Zinc		NS	2,000	136	158	146	234	244	144	139	78	239	191	104	302	285	
Mercury	0.7	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

NOTES:
1) * denotes that the principal organic compound (POC) standard of 5 ug/L applies to this compound
2) ** denotes that this standard applies to the sum of both isomers
3) *** denotes that this standard applies as long as total hardness is below 75 mg/L. If total hardness > 75 mg/L, the standard is 1,100 ug/L
4) NS = No standard exists in Part 703 for this compound
5) ND = Not detected
6) -- = Not analyzed for this compound.
7) Results exceeding one or both groundwater quality standards are presented in **BOLD** and shaded.
8) The flag J denotes a detection above the minimum detection but below the reporting limit. The noted concentration is an estimate.
9) The flag B denotes a compound that was also detected in the laboratory method blank. Therefore, this detection may represent a laboratory artifact.
10) The flag UI denotes a concentration that was estimated due to a poor calibration performance or poor matrix spike recoveries.
11) The flag DJ denotes a concentration that was estimated because the second analysis of these samples was performed outside the 12-hour window defined by the BFB standard.

Table 2: Groundwater Monitoring Data
BCP Site No. C356035 - Former Utility Platers and Kingston Diagnostics Site (Current CVS Building)
Washington Avenue and Schwenk Drive, City of Kingston, Ulster County, New York

Sample Location					MW-2								
Sample Date					12/23/2009	4/20/2011	10/20/2011	3/27/2012	10/9/2012	10/9/2012 (DUP)	3/11/2013	10/25/2013	3/26/2014
Analyte		Units	Part 703 Groundwater Standard	TOGS 1.1.1 Groundwater Standard	Results								
EPA Method 8260 Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	ug/L	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane		5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane		1	1	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane		5*	0.6	ND	1.1 J	1.3 J	1.3 J	1.7 J	1.4 J	ND	ND	ND
	1,1-Dichloroethylene		5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloropropylene		NS	5	--	ND	ND	ND J	ND	ND	ND	ND	ND
	1,2,3-Trichlorobenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane		0.04	0.04	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trichlorobenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trimethylbenzene		5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane		0.04	0.04	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane		NS	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene		3**	3	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane		0.6	0.6	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethylene (Total)		5*	5	33	17	25	29	48	45	27	18	20.28 J
	1,2-Dichloropropane		1	1	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,3,5-Trimethylbenzene		5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichlorobenzene		3**	3	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichloropropane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene		3**	3	--	ND	ND	ND	ND	ND	ND	ND	ND
	1-Chlorohexane		NS	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	2,2-Dichloropropane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	2-Chlorotoluene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	4-Chlorotoluene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene		1	1	--	ND	ND	ND	ND	ND	ND	ND	ND
	Bromobenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Bromodichloromethane		NS	50	--	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform		NS	50	--	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane		5*	5	--	ND	ND	ND J	ND	ND	ND	ND	ND
	Carbon Tetrachloride		5	5	--	ND	ND	ND J	ND	ND	ND	ND	ND
	Chlorobenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform		7	7	--	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane		NS	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropylene		0.4**	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane		NS	50	--	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Dichlorodifluoromethane		5*	5	--	ND	ND	R	ND	ND	ND	ND	ND
	Ethylbenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Hexachlorobutadiene		0.5	0.5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Isopropylbenzene		5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl tert-butyl ether (MTBE)		NS	10	--	ND	ND	ND	ND	ND	ND	ND	ND
	Methylene chloride		5*	5	4	3.6 JB	4.9 JB	ND	ND	ND	ND	ND	ND
	Naphthalene		10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	n-Butylbenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND		
o-Xylene	5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND		
p-&m-Xylenes	5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND		
p-Isopropyltoluene	5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND		
sec-Butylbenzene	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND		
Styrene	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND		
tert-Butylbenzene	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND		
Tetrachloroethylene	5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Toluene	5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND		
trans-1,3-Dichloropropylene	0.4**	5	--	ND	ND	ND	ND	ND	ND	ND	ND		
Trichloroethylene	5*	5	51	3.6 J	3.2 J	ND	3.3 J	2.8 J	1.8 J	ND	1.4 J		
Trichlorofluoromethane	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND		
Vinyl chloride	1	1	10	7.1	6.7	5.7	8.8	7.0	ND	ND	12		
Sample Date					6/3/2010	4/20/2011	10/20/2011	3/27/2012	10/9/2012	10/9/2012	3/11/2013	10/25/2013	3/26/2014
EPA Method 6010 Priority Pollutant Metals	Antimony	ug/L	3	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic		25	25	29	ND	ND	ND	ND	ND	43	ND	
	Beryllium		11***	3	6	ND	ND	ND	ND	ND	5	ND	
	Cadmium		5	5	10	ND	ND	ND	ND	4	30	4	
	Chromium		50	50	58	12	7	5	ND	7	160	7	
	Copper		200	200	430	9	5	6 J	6	7	ND	ND	
	Lead		25	25	552	10	7	6 J	8	6	7	7	
	Nickel		100	100	113	41	27	33	18	19	73	73	73
	Selenium		10	10	28	10	12	21 J	18	17	19	19	19
	Silver		50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Thallium		8	0.5	ND	ND	ND	ND	21	21	ND	ND	ND
	Zinc		NS	2,000	431	44	26	35	34	43	57	57	57
	Mercury		0.7	1	1.6	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
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3) *** denotes that this standard applies as long as total hardness is below 75 mg/L. If total hardness > 75 mg/L, the standard is 1,100 ug/L
4) NS = No standard exists in Part 703 for this compound
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7) Results exceeding one or both groundwater quality standards are presented in **BOLD** and shaded.
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9) The flag B denotes a compound that was also detected in the laboratory method blank. Therefore, this detection may represent a laboratory artifact.
10) The flag UJ denotes a concentration that was estimated due to a poor calibration performance or poor matrix spike recoveries.
11) The flag DJ denotes a concentration that was estimated because the second analysis of these samples was performed outside the 12-hour window defined by the BFB standard.

Table 2: Groundwater Monitoring Data
BCP Site No. C356035 - Former Utility Platers and Kingston Diagnostics Site (Current CVS Building)
Washington Avenue and Schwenk Drive, City of Kingston, Ulster County, New York

Sample ID					MW-5								
Sample Date					1/14/2010	4/20/2011	10/20/2011	3/27/2012	10/9/2012	3/11/2013	10/25/2013	10/25/13 (MW-DUP)	3/26/2014
Analyte		Units	Part 703 Groundwater Standard	TOGS 1.1.1 Groundwater Standard	Results								
EPA Method 8260 Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	ug/L	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane		5*	5	ND	ND	ND	ND	ND	ND	ND	ND	0.47 J
	1,1,2,2-Tetrachloroethane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane		1	1	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane		5*	0.6	ND	ND	ND	ND	0.81 J	ND	ND	ND	0.85
	1,1-Dichloroethylene		5*	5	ND	ND	ND	ND	53	ND	ND	ND	1.1
	1,1-Dichloropropylene		NS	5	--	ND	ND	ND J	ND	ND	ND	ND	ND
	1,2,3-Trichlorobenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane		0.04	0.04	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trimethylbenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trichlorobenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trimethylbenzene		5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane		0.04	0.04	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane		NS	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene		3**	3	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane		0.6	0.6	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethylene (Total)		5*	5	ND	ND	3.4 J	ND	ND	7.2	49	51	37.58
	1,2-Dichloropropane		1	1	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,3,5-Trimethylbenzene		5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichlorobenzene		3**	3	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichloropropane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene		3**	3	--	ND	ND	ND	ND	ND	ND	ND	ND
	1-Chlorohexane		NS	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	2,2-Dichloropropane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	2-Chlorotoluene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	4-Chlorotoluene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene		1	1	--	ND	ND	ND	ND	ND	ND	ND	ND
	Bromobenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Bromodichloromethane		NS	50	--	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform		NS	50	--	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane		5*	5	--	ND	ND	ND J	ND	ND	ND	ND	ND
	Carbon Tetrachloride		5	5	--	ND	ND	ND J	ND	ND	ND	ND	ND
	Chlorobenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform		7	7	--	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane		NS	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropylene		0.4**	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane		NS	50	--	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Dichlorodifluoromethane		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Hexachlorobutadiene		0.5	0.5	--	ND	ND	ND	ND	ND	ND	ND	ND
	Isopropylbenzene		5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl tert-butyl ether (MTBE)		NS	10	--	ND	ND	ND J	ND	ND J	ND	ND	ND
	Methylene chloride		5*	5	2	3.9 JB	4.6 JB	ND	ND	ND	ND	ND	ND
	m-phthalene		10	10	ND	ND	ND	ND J	ND	ND	ND	ND	ND
	n-Butylbenzene		5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND
	n-Propylbenzene		5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	o-Xylene		5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	p&m-Xylenes		5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND		
sec-Butylbenzene	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND		
Styrene	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND		
tert-Butylbenzene	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND		
Tetrachloroethylene	5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Toluene	5*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND		
trans-1,3-Dichloropropylene	0.4**	5	--	ND	ND	ND	ND	ND	ND	ND	ND		
Trichloroethylene	5*	5	ND	ND	6.1	45	9.4	78	84	110			
Trichlorofluoromethane	5*	5	--	ND	ND	ND	ND	ND	ND	ND	ND		
Vinyl chloride	1	1	ND	ND	ND	ND	ND	ND J	ND	ND	ND		
Sample Date					6/3/2010	4/20/2011	10/20/2011	3/27/2012	10/9/2012	3/11/2013	10/25/2013	10/25/2013	3/26/2014
EPA Method 6010 Priority Pollutant Metals	Antimony	ug/L	3	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic		25	25	ND	ND	ND	ND	ND	ND	4	ND	
	Beryllium		11***	3	ND	ND	ND	ND	ND	ND	ND	ND	
	Cadmium		5	5	ND	ND	ND	ND	ND	ND	ND	ND	
	Chromium		50	50	7	ND	ND	ND	ND	ND	ND	ND	
	Copper		200	200	94	ND	7	ND J	ND	ND	5	4	ND
	Lead		25	25	47	3	6	ND J	ND	ND	ND	4	ND
	Nickel		100	100	29	8	5	ND	ND	5	12	12	5
	Selenium		10	10	ND	ND	ND	ND	ND	11	ND	ND	ND
	Silver		50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Thallium		8	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc		NS	2,000	80	35	25	ND	20	22	29	29	22
	Mercury		0.7	1	ND	ND	ND	ND J	ND	ND	ND	ND	ND

NOTES:
1) * denotes that the principal organic compound (POC) standard of 5 ug/L applies to this compound
2) ** denotes that this standard applies to the sum of both isomers
3) *** denotes that this standard applies as long as total hardness is below 75 mg/L. If total hardness > 75 mg/L, the standard is 1,100 ug/L
4) NS = No standard exists in Part 703 for this compound
5) ND = Not detected
6) '-' = Not analyzed for this compound.
7) Results exceeding one or both groundwater quality standards are presented in **BOLD** and shaded.
8) The flag J denotes a detection above the minimum detection but below the reporting limit. The noted concentration is an estimate.
9) The flag B denotes a compound that was also detected in the laboratory method blank. Therefore, this detection may represent a laboratory artifact.
10) The flag UJ denotes a concentration that was estimated due to a poor calibration performance or poor matrix spike recoveries.
11) The flag DJ denotes a concentration that was estimated because the second analysis of these samples was performed outside the 12-hour window defined by the BFB standard.

Table 3: Indoor Air Quality Sampling Results
BCP Site C356035 - Former Utility Platers/ Kingston Diagnostics (Current CVS Building)
Washington Avenue and Schwenk Drive, City of Kingston, Ulster County, New York

Sample Date		April 20, 2011	March 27, 2012	March 11, 2013	March 26, 2014
NYSDOH Matrix Indoor Air Matrix	Analyte	NR-IAQ-001	KC-IAQ-001	KC-IAQ-001	KC-IAQ-001
		ug/m3	ug/m3	ug/m3	ug/m3
Matrix 1	Carbon tetrachloride	0.64	ND	0.81	0.46
	Trichloroethylene	0.55	ND	0.083 J	0.098
	Vinyl Chloride	ND	ND	ND	ND
Matrix 2	1,1,1-Trichloroethane	ND	ND	ND	ND
	1,1-Dichloroethylene	0.13	ND	ND	ND
	cis-1,2-Dichloroethylene	4.4	ND	ND	ND
	Tetrachloroethylene	0.60	ND	0.20	0.13
SSDS Effluent	Total VOCs (ppm)	0.00	0.00	0.00	0.00
SSDS Pressure	inches in Water Column	0.5	0.23	0.4	0.22

Notes:

- NYSDOH Matrix 1 Least Restrictive Action Level: 0.25 ug/m³ for Indoor Air; Most Restrictive Action Level: 5 ug/m3 and above for Indoor Air
- NYSDOH Matrix 2 Least Restrictive Action Level: less than 3 ug/m³; Most Restrictive Action Level: 100 ug/m3 and above for Indoor Air
- ug/m³=Micrograms per cubic meter
- D = Diluted/Reported from a dilution run
- B = Compound detected in laboratory method blank
- E = Estimated Concentration/Exceeded Calibration Limit
- J = Estimated Concentration/Exceeded the Method Detection Limit but was below the Method Reporting Limit
- ND = compound was not detected above laboratory method detection limit

Appendix A:
Field Sampling Sheets, SDS Monitoring Forms, Site-
Wide Inspection Form

SITE INSPECTION REPORT

Person performing inspection:

Signature:

Eric Orlowski

Date: 3/26/14

Weather: 30's, Sunny

Page: 1 of 7

SOIL COVER SYSTEM INSPECTION

Chestlist Items:	Acceptable	Not Acceptable	Remarks/Locations
There is no evidence of erosion of cover soils/materials from Site surface.	☒	☐	
There is no evidence of depressions in cover materials.	☒	☐	
There is no evidence of significant cracks in cover materials.	☒	☐	
There is no evidence of exposed or damaged demarcation barrier.	☒	☐	
There is no evidence of vapors or odors emanating from the Site.	☒	☐	

VEGETATIVE INSPECTION

Vegetation is well established over greenspace areas.	☒	☐	
There is no evidence of stressed vegetation.	☒	☐	
There is no evidence of bare or thin vegetative cover.	☒	☐	
There is no evidence of overgrowth or areas that need to be mowed.	☒	☐	
There is no evidence of recent areas of excavation or disturbed areas.	☒	☐	

VECTOR INSPECTION

No vectors or vector activity (e.g. tracks, droppings, dens, etc.) were observed.	☒	☐	
There was no evidence of damage to the soil cover system due to the vector activity.	☒	☐	

DRAINAGE SYSTEM INSPECTION

There is no evidence of erosion around drainage structures.	☒	☐	
There is no evidence of settlement of drainage structures	☒	☐	
Manhole covers present and in good condition.	☒	☐	
There is no evidence of siltation, debris, or other restrictions in the manholes.	☒	☐	
There are no exposed or damaged weep hole extension along retaining wall.	☒	☐	

SITE INSPECTION REPORT

Person performing inspection: Eric Orlowski Date: 3/26/14 Weather: 30's, sunny
 Signature: [Signature] Page: 2 of 2

MONITORING WELL INSPECTION

Chestlist Items:	Acceptable	Not Acceptable	Remarks/Locations
The monitoring wells are in generally good condition.	☒	☐	
Well Caps are installed on the wells.	☒	☐	
Locks present and secured.	☐	☐	NA - flush maint - no locks

SITE ACCESSIBILITY INSPECTION

Site accessible and passable.	☒	☐	

INSTITUTIONAL CONTROL INSPECTION

The Site continues to be utilized for commercial or restricted residential uses only.	☒	☐	
There is no evidence of groundwater extraction and/or use on Site. drainage structures	☒	☐	

ADDITIONAL NOTES & OBSERVATIONS

Kingston CVS Site **SSDS Inspection Worksheet**

Date: 3/26/2014	Inspector: Orłowski		
	Yes	No	General Comments/Notes
Is the system running normally?	☒	☐	
Is the indicator light functioning?	☒	☐	
Is the electrical/ control panel secure?	☒	☐	
	☐	☐	
Does the inlet pipe (copper) feel cool/cold to the touch?	☒	☐	
Does the outlet pipe (copper) feel warm but not hot?	☒	☐	
Is the stack clear and evenly discharging air?	☒	☐	
Is there any water being exhausted from the stack?	☐	☒	
Does the effluent air have any noticeable odor?	☐	☒	
	☐	☐	
Does the blower feel warm but not hot?	☒	☐	
Does the blower sound as if it's running smoothly?	☒	☐	
	☐	☐	

System Readings		
Time	Pressure (in WC)	PID (ppm)
11:05	0.22	0.0

Chazen Environmental Services, Inc Field Data Sheet

SAMPLE INFORMATION:

Sample ID: KC-MW-08

Sample Date: 3/26/2014

Sample Time: 1840

Well ID: MW-1

Sample Matrix: GW SW DW Soil Other: _____

Project Name: Kingston CVS

Project and Task#: 41103.00

Sample Location/Task: Semi-Annual

Proj. Manager: Ordazeshi

WELL INFORMATION:

Well Condition: Good

Lock Type: Non-flush mount Key #: NA

PURGE DATA:

Measuring Point: TDC PVC

Depth to Bottom: 26.20

Water Level: 14.03

Height of Water Column: 12.17

Purge Method: BAILER

Start Date: 3/26/2014

Start Time: 1201

Stop Time: 1212

Calculated Volume:

A = Water Column

(Bottom Depth-Depth to Water)

B = Gallons/Foot

C = # of Volumes To Be Purged

A x B x C = Gallons To Be Purged

Gallons to be purged: 5.95

Pipe Width	Gal/ Foot
1.5"	0.092
2.0"	0.163
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Actual Volume:

Purge Rate (gpm): ~0.55

Elapsed Time (min): 11

Well Volumes Purged (#): 3

Purge Volume (gal): 6

Well went dry?: • No • Yes

Condition: • No Odor • Odor

• Clear • Sl.Turbid • Turbid

FIELD RESULTS:

Water Level	Sample Depth	Temperature	pH	Conductivity	Turbidity	Other: <u>odor</u>
<u>14.03</u>	<u>Start</u>	<u>11.3</u>	<u>7.14</u>	<u>3042</u>	<u>slight</u>	<u>septic</u>
	<u>Volume 1</u>	<u>11.3</u>	<u>7.06</u>	<u>2900</u>	<u>slight</u>	<u>septic</u>
	<u>Volume 2</u>	<u>12.3</u>	<u>7.02</u>	<u>2872</u>	<u>turbid</u>	<u>septic</u>
<u>19.34</u>	<u>Volume 3</u>	<u>11.3</u>	<u>7.14</u>	<u>3101</u>	<u>turbid</u>	<u>septic</u>
	<u>Volume 4</u>					
<u>14.05</u>	<u>Sample</u>	<u>5.6</u>	<u>7.15</u>	<u>3170</u>	<u>slight</u>	<u>septic</u>

SAMPLE INFORMATION:

Sample Method: BAILER

i.e. Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, etc.

Sample Type: • Composite • Grab

Sample Depth: _____

Weather: 30s, sunny, windy

Sample Technician(s): Epe

Notes: _____

FD-01 collected here

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
<u>York</u>	<u>8260 VOCs</u>	<u>Std</u>
	<u>Priority Pollutant Metals</u>	

QA/QC

• Duplicate • Field Blank • Equip. Blank • Trip Blank

SAMPLE TRANSPORT:

Transported Via: York Date: 3/27

Chazen Environmental Services, Inc Field Data Sheet

SAMPLE INFORMATION:

Sample ID: KC-MW-02

Sample Date: 3/26/2014

Sample Time: 1820

Well ID: MW-2

Sample Matrix: GW SW DW Soil Other: _____

Project Name: Kingston CVS

Project and Task#: 41103.00

Sample Location/Task: Semi-Annual

Proj. Manager: ORWOLSH

WELL INFORMATION:

Well Condition: Good

Lock Type: New-blush mount Key #: NA

PURGE DATA:

Measuring Point: TOC-PVC

Depth to Bottom: 24.50

Water Level: 13.37

Height of Water Column: 11.13

Purge Method: BAILER

Start Date: 3/26/2014

Start Time: 1144

Stop Time: 1150

Calculated Volume:

A = Water Column

(Bottom Depth-Depth to Water)

B = Gallons/Foot

C = # of Volumes To Be Purged

A x B x C = Gallons To Be Purged

Gallons to be purged: 5.4

Pipe Width	Gal/ Foot
1.5"	0.092
2.0"	0.163
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Actual Volume:

Purge Rate (gpm): ~0.33

Elapsed Time (min): 6

Well Volumes Purged (#): 1+

Purge Volume (gal): ~2

Well went dry?: • No • Yes

Condition: • No Odor • Odor

• Clear • Sl.Turbid • Turbid

FIELD RESULTS:

Water Level	Sample Depth	Temperature °C	pH	Conductivity	Turbidity	Other: <u>odor</u>
<u>13.37</u>	<u>Start</u>	<u>10.2</u>	<u>6.78</u>	<u>>3999</u>	<u>slight</u>	<u>sl. septic</u>
	<u>Volume 1</u>	<u>11.2</u>	<u>6.73</u>	<u>>3999</u>	<u>slight</u>	<u>sl. septic</u>
	<u>Volume 2</u>					
	<u>Volume 3</u>					
	<u>Volume 4</u>					
<u>14.56</u>	<u>Sample</u>	<u>6.3</u>	<u>6.91</u>	<u>>3999</u>	<u>sl. slight</u>	<u>sl. septic</u>

SAMPLE INFORMATION:

Sample Method: BAILER Sample Type: • Composite • Grab

i.e. Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, etc.

Weather: Sunny, 30s, windy! Sample Depth: _____

Notes: _____ Sample Technician(s): GA

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
<u>York</u>	<u>8260 VOLs</u>	<u>Std</u>
	<u>Priority Pollutant Metals</u>	

QA/QC

• Duplicate • Field Blank • Equip. Blank • Trip Blank

SAMPLE TRANSPORT:

Transported Via: York Date: 3/27

Chazen Environmental Services, Inc Field Data Sheet

SAMPLE INFORMATION:

Sample ID: KC-MW-05 Sample Date: 3/26/2014 Sample Time: 1800
Well ID: MW-5 Sample Matrix: GW SW DW Soil Other: _____
Project Name: Kingston CVS Project and Task#: 41103.00
Sample Location/Task: Semi-Annual Proj. Manager: Orlowski

WELL INFORMATION:

Well Condition: Good
Lock Type: None-blush mount Key #: NA

PURGE DATA:

Measuring Point: TDC-PVC Calculated Volume: Actual Volume:
Depth to Bottom: 24.30 A = Water Column Pipe Gal/
Water Level: 7.94 (Bottom Depth-Depth to Water) Width Foot
Height of Water Column: 16.36 B = Gallons/Foot 1.5".....0.092
Purge Method: BAILER C = # of Volumes To Be Purged 2.0".....0.163
Start Date: 3/26/14 A x B x C = Gallons To Be Purged 3.0".....0.367
Start Time: 1118 4.0".....0.653
Stop Time: 1126 Gallons to be purged: 8.0 6.0".....1.469
8.0".....2.611

Purge Rate (gpm): 0.5
Elapsed Time (min): 8
Well Volumes Purged (#): 1.5
Purge Volume (gal): 4
Well went dry?: • No • Yes
Condition: • No Odor • Odor
• Clear • Sl.Turbid • Turbid

FIELD RESULTS:

Water Level	Sample Depth	Temperature	pH	Conductivity	Turbidity	Other: <u>odor</u>
<u>7.94</u>	<u>Start</u>	<u>7.3</u>	<u>7.11</u>	<u>73779</u>	<u>clear</u>	<u>none</u>
	<u>Volume 1</u>	<u>9.3</u>	<u>7.01</u>	<u>73799</u>	<u>slight</u>	<u>none</u>
	<u>Volume 2</u>					
	<u>Volume 3</u>					
	<u>Volume 4</u>					
<u>9.10</u>	<u>Sample</u>	<u>4.8</u>	<u>7.17</u>	<u>73789</u>	<u>clear</u>	<u>none</u>

SAMPLE INFORMATION:

Sample Method: BAILER Sample Type: • Composite Grab
i.e. Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, etc.. Sample Depth: _____
Weather: Sunny, 30s, windy Sample Technician(s): EP
Notes: _____

LAB REQUESTS:

Laboratory Name: York Analysis/Method: 2260 VOCs Turn Around Time: std
Priority Pollutant Metals

QA/QC

• Duplicate • Field Blank • Equip. Blank • Trip Blank

SAMPLE TRANSPORT:

Transported Via: York Date: 3/27

Chazen Environmental Services, Inc Field Data Sheet

SAMPLE INFORMATION:

Sample ID: KC-MW-01

Sample Date: 10/25/2013

Sample Time: 1700

Well ID: MW-1

Sample Matrix: GW SW DW Soil Other: _____

Project Name: Kingston CVS

Project and Task#: 41103-00

Sample Location/Task: Bi-Annual

Proj. Manager: Pereira

WELL INFORMATION:

Well Condition: Good

Lock Type: None-blush mount Key #: NA

PURGE DATA:

Measuring Point: TOC-PVC

Depth to Bottom: 26.20

Water Level: 15.09

Height of Water Column: 11.11

Purge Method: BAILER

Start Date: 10/25/13

Start Time: 1153

Stop Time: 1157

Calculated Volume:

A = Water Column
(Bottom Depth-Depth to Water)
B = Gallons/Foot
C = # of Volumes To Be Purged
A x B x C = Gallons To Be Purged

Pipe Width	Gal/Foot
1.5"	0.092
2.0"	0.163
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Actual Volume:

Purge Rate (gpm): ~0.52
Elapsed Time (min): 4
Well Volumes Purged (#): 1+
Purge Volume (gal): ~2.1
Well went dry?: • No • Yes
Condition: • No Odor • Odor
• Clear • SI.Turbid • Turbid

Gallons to be purged: 5.43

FIELD RESULTS:

Water Level	Sample Depth	Temperature	pH	Conductivity	Turbidity	Other:
<u>15.09</u>	<u>Start</u>	<u>13.7</u>	<u>6.63</u>	<u>1804</u>	<u>slight</u>	<u>odor</u>
	<u>Volume 1</u>	<u>13.2</u>	<u>6.87</u>	<u>1772</u>	<u>turbid</u>	<u>septic</u>
	<u>Volume 2</u>		<u>Well Dry</u>			
	<u>Volume 3</u>					
	<u>Volume 4</u>					
<u>15.27</u>	<u>Sample</u>	<u>13.4</u>	<u>6.74</u>	<u>1268</u>	<u>slight</u>	<u>septic</u>

SAMPLE INFORMATION:

Sample Method: BAILER Sample Type: • Composite • Grab

i.e. Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, etc.

Weather: Sunny, SDs, windy Sample Depth: _____

Notes: _____ Sample Technician(s): Ego

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
<u>York</u>	<u>8260</u>	<u>Std</u>
	<u>Priority, Pollutant Metals</u>	

QA/QC

• Duplicate • Field Blank • Equip. Blank • Trip Blank

SAMPLE TRANSPORT:

Transported Via: York Date: 10/28

Chazen Environmental Services, Inc Field Data Sheet

SAMPLE INFORMATION:

Sample ID: KC-MW-02 Sample Date: 10/25/13 Sample Time: 1650
Well ID: MW-2 Sample Matrix: GW SW DW Soil Other: _____
Project Name: Kington CVS Project and Task#: 41103.00
Sample Location/Task: Bi-Annual Proj. Manager: Pereira

WELL INFORMATION:

Well Condition: Good
Lock Type: None - flush mount Key #: NA

PURGE DATA:

Measuring Point: TOC-PVC **Calculated Volume:**
Depth to Bottom: 24.50 A = Water Column
Water Level: 18.22 (Bottom Depth - Depth to Water)
Height of Water Column: 6.28 B = Gallons/Foot
Purge Method: BAILER C = # of Volumes To Be Purged
Start Date: 10/25/13 A x B x C = Gallons To Be Purged
Start Time: 1137
Stop Time: 1141 Gallons to be purged: 3.1

Pipe Width	Gal/Foot
1.5"	0.092
2.0"	0.163
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Actual Volume:
Purge Rate (gpm): ~0.27
Elapsed Time (min): 4
Well Volumes Purged (#): 1.7
Purge Volume (gal): ~1.1
Well went dry?: • No • Yes
Condition: • No Odor • Odor
• Clear • SI.Turbid • Turbid

FIELD RESULTS:

Water Level	Sample Depth	Temperature	pH	Conductivity	Turbidity	Other:
<u>18.22</u>	<u>Start</u>	<u>13.2</u>	<u>6.49</u>	<u>2569</u>	<u>slight</u>	<u>odor</u>
	<u>Volume 1</u>	<u>13.8</u>	<u>6.67</u>	<u>3677</u>	<u>turbid</u>	<u>septic</u>
	<u>Volume 2</u>		<u>Well Dry</u>			<u>septic</u>
	<u>Volume 3</u>					
	<u>Volume 4</u>					
<u>21.60</u>	<u>Sample</u>	<u>12.9</u>	<u>6.11</u>	<u>1953</u>	<u>slight</u>	<u>septic</u>

SAMPLE INFORMATION:

Sample Method: BAILER Sample Type: • Composite • Grab
i.e. Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, etc.. Sample Depth: _____
Weather: overcast, 50s, windy Sample Technician(s): Ejo
Notes: _____

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
<u>York</u>	<u>8260</u>	<u>5td</u>
	<u>Priority Pollutant Metals</u>	

QA/QC

• Duplicate • Field Blank • Equip. Blank • Trip Blank

SAMPLE TRANSPORT:

Transported Via: York Date: 10/28

Chazen Environmental Services, Inc Field Data Sheet

SAMPLE INFORMATION:

Sample ID: KC-MW-05

Sample Date: 10/25/13

Sample Time: 1640

Well ID: MW-5

Sample Matrix: GW SW DW Soil Other: _____

Project Name: Kingston CVS

Project and Task#: 41103.00

Sample Location/Task: Bi Annual

Proj. Manager: Pereira

WELL INFORMATION:

Well Condition: Good

Lock Type: None - flush mount Key #: NA

PURGE DATA:

Measuring Point: TDC-PVC

Calculated Volume:

A = Water Column
(Bottom Depth-Depth to Water)

B = Gallons/Foot

C = # of Volumes To Be Purged

A x B x C = Gallons To Be Purged

Gallons to be purged: 7.5

Actual Volume:

Purge Rate (gpm): ~0.6

Elapsed Time (min): 8

Well Volumes Purged (#): 1+

Purge Volume (gal): ~4.8

Well went dry?: • No • Yes

Condition: • No Odor • Odor

• Clear • Sl. Turbid • Turbid

Pipe Width	Gal/Foot
1.5"	0.092
2.0"	0.163
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

FIELD RESULTS:

Water Level	Sample Depth	Temperature	pH	Conductivity	Turbidity	Other: <u>odor</u>
<u>9.04</u>	<u>Start</u>	<u>16.6</u>	<u>6.92</u>	<u>1981</u>	<u>slight</u>	<u>none</u>
	<u>Volume 1</u>	<u>15.2</u>	<u>6.93</u>	<u>2022</u>	<u>moderate</u>	<u>none</u>
	<u>Volume 2</u>		<u>Well Dry</u>		<u>moderate</u>	<u>none</u>
	<u>Volume 3</u>					
	<u>Volume 4</u>					
<u>10.27</u>	<u>Sample</u>	<u>16.0</u>	<u>7.11</u>	<u>2011</u>	<u>slight</u>	<u>none</u>

SAMPLE INFORMATION:

Sample Method: BAILER

Sample Type: • Composite • Grab

i.e. Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, etc..

Weather: overcast, windy, SDS

Sample Depth: _____

Notes: FD collected here

Sample Technician(s): Ego

LAB REQUESTS:

Laboratory Name: York

Analysis/Method: 8260

Turn Around Time: 5td

Priority Pollutant Metals

QA/QC

• Duplicate • Field Blank • Equip. Blank • Trip Blank

SAMPLE TRANSPORT:

Transported Via: York Date: 10/28

Appendix B:
Engineering Control/ Institutional Control
Certification Forms



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details		Box 1
Site No.	C356035	
Site Name Utility Platers, Inc./Kingston Diagnostics		
Site Address: 416 Washington Avenue/167 Schwenck Drive Zip Code: 12401		
City/Town: Kingston		
County: Ulster		
Site Acreage: 1.7		
Reporting Period: April 19, 2013 to April 19, 2014		
		YES NO
1. Is the information above correct?		☐ ☒
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		☐ ☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		☐ ☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		☐ ☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?		☐ ☒

Box 2	
YES NO	
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒ ☐
7. Are all ICs/ECs in place and functioning as designed?	☒ ☐
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	
A Corrective Measures Work Plan must be submitted along with this form to address these issues.	
Signature of Owner, Remedial Party or Designated Representative	Date

Box 2A

YES

NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid? ☐ ☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? ☒ ☐
 (The Qualitative Exposure Assessment must be certified every five years)

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C356035

Box 3

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
48.314-1-11.1	Woodhaven National Management LLC	Soil Management Plan Monitoring Plan O&M Plan IC/EC Plan Landuse Restriction Site Management Plan Ground Water Use Restriction

(1) The Controlled Property may be used for: "Restricted-residential use," "Commercial use" and/or "Industrial use", as described within 6 NYCRR Part 375-1.8(g)(2)(ii), (iii) and (iv).

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP.

(4) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(5) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(6) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(7) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP.

(8) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP.

(9) Access to the site must be provided to agents, employees or other representatives of the state of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

Box 4

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
48.314-1-11.1	Cover System Vapor Mitigation

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

- (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C356035

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Russell Urban-Mead 21 Fox Street, Port Jervis, NY
print name print business address

am certifying as Designated Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

[Signature]
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

May 16, 2014
Date

IC/EC CERTIFICATIONS

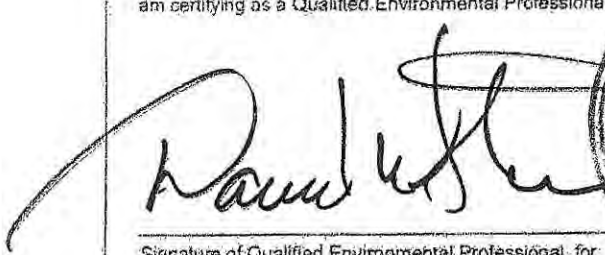
Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made hereon is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Daniel Stone at 547 River St. Troy NY 12180
print name print business address

am certifying as a Qualified Environmental Professional for the Owner
(Owner or Remedial Party)





Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification

Date

5/19/14

Appendix C: Laboratory Data Reports (Digital File)



Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)

21 Fox Street

Poughkeepsie NY, 12601

Attention: Eric Orlowski

Report Date: 01/15/2014

Client Project ID: 41103.00 Kingston CVS

York Project (SDG) No.: 13J1044

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

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York Project/SDG No. 13J1044

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VOLATILE DATA	39 - 222
METALS DATA	223 - 315

Report Date: 01/15/2014
Client Project ID: 41103.00 Kingston CVS
York Project (SDG) No.: 13J1044

Chazen Environmental Services (Poughkeepsie)

21 Fox Street
Poughkeepsie NY, 12601
Attention: Eric Orlowski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 29, 2013 and listed below. The project was identified as your project: **41103.00 Kingston CVS**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13J1044-01	KC-MW-01 1013	Water	10/25/2013	10/29/2013
13J1044-02	KC-MW-02 1013	Water	10/25/2013	10/29/2013
13J1044-03	KC-MW-05 1013	Water	10/25/2013	10/29/2013
13J1044-04	KC-FD-01 1013	Water	10/25/2013	10/29/2013

General Notes for York Project (SDG) No.: 13J1044

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 01/15/2014

YORK



Sample Information

Client Sample ID: KC-MW-01 1013

York Sample ID: 13J1044-01

York Project (SDG) No.

13J1044

Client Project ID

41103.00 Kingston CVS

Matrix

Water

Collection Date/Time

October 25, 2013 5:00 pm

Date Received

10/29/2013

Volatile Organics, 8260 List

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
75-34-3	1,1-Dichloroethane	6.8		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
75-35-4	1,1-Dichloroethylene	6.6		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
67-64-1	Acetone	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS



Sample Information

Client Sample ID: KC-MW-01 1013

York Sample ID: 13J1044-01

York Project (SDG) No.
13J1044

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
October 25, 2013 5:00 pm

Date Received
10/29/2013

Volatile Organics, 8260 List

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
156-59-2	cis-1,2-Dichloroethylene	2400		ug/L	62	120	25	EPA 8260C	11/03/2013 09:06	11/06/2013 11:18	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
91-20-3	Naphthalene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
156-60-5	trans-1,2-Dichloroethylene	57		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
79-01-6	Trichloroethylene	1800		ug/L	62	120	25	EPA 8260C	11/03/2013 09:06	11/06/2013 11:18	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C	11/03/2013 09:06	11/03/2013 18:39	SS



Sample Information

Client Sample ID: KC-MW-01 1013

York Sample ID: 13J1044-01

York Project (SDG) No.
13J1044

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
October 25, 2013 5:00 pm

Date Received
10/29/2013

Volatile Organics, 8260 List

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	93.6 %			78-122						
460-00-4	Surrogate: p-Bromofluorobenzene	101 %			87-112						
2037-26-5	Surrogate: Toluene-d8	98.2 %			91-110						

Metals, Priority Pollutant

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:11	MW
7440-38-2	Arsenic	0.007		mg/L	0.004	0.004	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:11	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:11	MW
7440-43-9	Cadmium	0.033		mg/L	0.003	0.003	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:11	MW
7440-47-3	Chromium	0.008		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:11	MW
7440-50-8	Copper	0.020		mg/L	0.003	0.003	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:11	MW
7439-92-1	Lead	0.003		mg/L	0.003	0.003	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:11	MW
7440-02-0	Nickel	0.477		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:11	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:11	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:11	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:11	MW
7440-66-6	Zinc	0.104		mg/L	0.010	0.010	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:11	MW

Mercury by 7473

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/04/2013 11:47	11/04/2013 13:08	ALD

Sample Information

Client Sample ID: KC-MW-02 1013

York Sample ID: 13J1044-02

York Project (SDG) No.
13J1044

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
October 25, 2013 4:50 pm

Date Received
10/29/2013

Volatile Organics, 8260 List

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS



Sample Information

Client Sample ID: KC-MW-02 1013

York Sample ID: 13J1044-02

York Project (SDG) No.

13J1044

Client Project ID

41103.00 Kingston CVS

Matrix

Water

Collection Date/Time

October 25, 2013 4:50 pm

Date Received

10/29/2013

Volatile Organics, 8260 List

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
67-64-1	Acetone	5.7		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS



Sample Information

Client Sample ID: KC-MW-02 1013

York Sample ID: 13J1044-02

York Project (SDG) No.
13J1044

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
October 25, 2013 4:50 pm

Date Received
10/29/2013

Volatile Organics, 8260 List

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
156-59-2	cis-1,2-Dichloroethylene	18		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
91-20-3	Naphthalene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C	11/03/2013 09:06	11/03/2013 19:50	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	96.9 %	78-122								



Sample Information

Client Sample ID: KC-MW-02 1013

York Sample ID: 13J1044-02

York Project (SDG) No.
13J1044

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
October 25, 2013 4:50 pm

Date Received
10/29/2013

Volatile Organics, 8260 List

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	95.8 %			87-112						
2037-26-5	Surrogate: Toluene- <i>d</i> 8	98.3 %			91-110						

Metals, Priority Pollutant

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:29	MW
7440-38-2	Arsenic	0.043		mg/L	0.004	0.004	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:29	MW
7440-41-7	Beryllium	0.005		mg/L	0.001	0.001	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:29	MW
7440-43-9	Cadmium	0.030		mg/L	0.003	0.003	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:29	MW
7440-47-3	Chromium	0.160		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:29	MW
7440-50-8	Copper	0.452		mg/L	0.003	0.003	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:29	MW
7439-92-1	Lead	0.267		mg/L	0.003	0.003	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:29	MW
7440-02-0	Nickel	0.367		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:29	MW
7782-49-2	Selenium	0.016		mg/L	0.010	0.010	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:29	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:29	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:29	MW
7440-66-6	Zinc	0.856		mg/L	0.010	0.010	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:29	MW

Mercury by 7473

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/04/2013 11:47	11/04/2013 13:08	ALD

Sample Information

Client Sample ID: KC-MW-05 1013

York Sample ID: 13J1044-03

York Project (SDG) No.
13J1044

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
October 25, 2013 4:40 pm

Date Received
10/29/2013

Volatile Organics, 8260 List

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS



Sample Information

Client Sample ID: KC-MW-05 1013

York Sample ID: 13J1044-03

York Project (SDG) No.

13J1044

Client Project ID

41103.00 Kingston CVS

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Water

Collection Date/Time

October 25, 2013 4:40 pm

Date Received

10/29/2013

Volatile Organics, 8260 List

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
67-64-1	Acetone	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS



Sample Information

Client Sample ID: KC-MW-05 1013

York Sample ID: 13J1044-03

York Project (SDG) No.
13J1044

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
October 25, 2013 4:40 pm

Date Received
10/29/2013

Volatile Organics, 8260 List

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
156-59-2	cis-1,2-Dichloroethylene	49		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
91-20-3	Naphthalene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
79-01-6	Trichloroethylene	78		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C	11/03/2013 09:06	11/03/2013 20:25	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	97.4 %	78-122								
460-00-4	Surrogate: p-Bromofluorobenzene	100 %	87-112								
2037-26-5	Surrogate: Toluene-d8	103 %	91-110								



Sample Information

Client Sample ID: KC-MW-05 1013

York Sample ID: 13J1044-03

York Project (SDG) No.
13J1044

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
October 25, 2013 4:40 pm

Date Received
10/29/2013

Metals, Priority Pollutant

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:34	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:34	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:34	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:34	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:34	MW
7440-50-8	Copper	0.005		mg/L	0.003	0.003	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:34	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:34	MW
7440-02-0	Nickel	0.012		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:34	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:34	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:34	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:34	MW
7440-66-6	Zinc	0.029		mg/L	0.010	0.010	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:34	MW

Mercury by 7473

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/04/2013 11:47	11/04/2013 13:08	ALD

Sample Information

Client Sample ID: KC-FD-01 1013

York Sample ID: 13J1044-04

York Project (SDG) No.
13J1044

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
October 25, 2013 3:00 pm

Date Received
10/29/2013

Volatile Organics, 8260 List

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS



Sample Information

Client Sample ID: KC-FD-01 1013

York Sample ID: 13J1044-04

York Project (SDG) No.
13J1044

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
October 25, 2013 3:00 pm

Date Received
10/29/2013

Volatile Organics, 8260 List

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
67-64-1	Acetone	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
156-59-2	cis-1,2-Dichloroethylene	51		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS



Sample Information

Client Sample ID: KC-FD-01 1013

York Sample ID: 13J1044-04

York Project (SDG) No.
13J1044

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
October 25, 2013 3:00 pm

Date Received
10/29/2013

Volatile Organics, 8260 List

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
91-20-3	Naphthalene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
79-01-6	Trichloroethylene	84		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C	11/03/2013 09:06	11/03/2013 21:01	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.3 %	78-122								
460-00-4	Surrogate: p-Bromofluorobenzene	94.4 %	87-112								
2037-26-5	Surrogate: Toluene-d8	97.0 %	91-110								



Sample Information

Client Sample ID: KC-FD-01 1013

York Sample ID: 13J1044-04

York Project (SDG) No.
13J1044

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
October 25, 2013 3:00 pm

Date Received
10/29/2013

Metals, Priority Pollutant

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:40	MW
7440-38-2	Arsenic	0.004		mg/L	0.004	0.004	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:40	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:40	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:40	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:40	MW
7440-50-8	Copper	0.004		mg/L	0.003	0.003	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:40	MW
7439-92-1	Lead	0.004		mg/L	0.003	0.003	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:40	MW
7440-02-0	Nickel	0.012		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:40	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:40	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:40	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:40	MW
7440-66-6	Zinc	0.029		mg/L	0.010	0.010	1	EPA 6010C	10/30/2013 08:25	10/30/2013 13:40	MW

Mercury by 7473

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/04/2013 11:47	11/04/2013 13:08	ALD



Case Narrative

Client: Chazen Environmental Services (Poughkeepsie)

Client Project ID: 41103.00 Kingston CVS

Prepared for: Eric Orlowski

Introduction

This Case Narrative applies only to the following samples submitted to our laboratory on **10/29/2013 3:50:00 PM** :

KC-FD-01 1013	Water
KC-MW-01 1013	Water
KC-MW-02 1013	Water
KC-MW-05 1013	Water

The 4 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature(s) was acceptable (2-6oC) and documented as:

Cooler 4.1 C

Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

All preparation and analyses were conducted according to the methods referenced in the body of the lab report.

Sample and Analysis Qualifiers

KC-FD-01 1013	No Qualifiers
KC-MW-01 1013	No Qualifiers
KC-MW-02 1013	No Qualifiers
KC-MW-05 1013	No Qualifiers

Analysis Issues (Calibration, Others)

No problems were encountered during analysis of this SDG.

York Project/SDG no.: 13J1044 Statement



We certify that these data are in compliance with SOP requirements both technically and for completeness for other than the conditions stated above. Release of the data contained in the hard copy report and any electronic deliverables has been authorized by the Laboratory Manager as verified by the signature on this laboratory report.

Approved by: Ben Gulizia
Laboratory Director

York Analytical Laboratories, Inc.

Formulae Used for Sample Calculations

VOLATILE ORGANICS

1. Volatiles in Air-ppbv

Cx (ppbv) = Compound concentration, ppbv (parts per billion by volume)

$$Cx = \frac{(Ax)(Cis)(DF)}{(Ais)(RRF)}$$

2. Volatiles in Air-ug/m3

Cx (ug/m3) = Compound concentration in ug/m3

$$Cx \text{ (ug/m3)} = \frac{(\text{ppbv} \times \text{Molecular wt.})}{(24.040)}$$

3. Volatile Organics (water and soil), ug/L or ug/kG

Soils/Waters

$$Cx = \frac{(Ax)(IS)(DF)}{(Ais)(RRF)(V)(\% \text{solids})}$$

Medium Level Soils

$$Cx = \frac{(Ax)(IS)(VT)(1000)(DF)}{(Ais)(RRF)(VA)(V)(\% \text{solids})} \quad -$$

4. Semi-Volatiles (waters and soils)

$$Cx = \frac{(Ax)(IS)(VE)(DF)}{(Ais)(RRF)(\text{Volume injected, uL})(V)(\% \text{solids})} \quad -$$

5. Pesticides/PCB (waters and soils), DRO, CTETPH

$$Cx = \frac{(Ax)(VE)(DF)}{\quad} \quad -$$



$(CF)(\text{Volume injected, uL})(V)(\% \text{solids})$

WHERE:

Cx = concentration of analyte as ug/L or ug/kg

Ax = Area of the characteristic ion for the compound to be measured, counts.

Ais = Area of the characteristic ion for the specific internal standard, counts.

IS = Concentration of the internal standard spiking mixture, ng

RRF= Mean relative response factor from the initial calibration.

DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF= 1

V= Volume for liquids in ml, weight for soils/solids in grams.

VA= volume of MeOH aliquot for medium level soils

VE= final volume of concentrated extract

VT= volume of MeOH for volatiles medium level soils

CF= calibration factor for external calibration used in GC pest/pcb

Cis = Concentration of the internal standard spiking mixture, ppbv



Analytical Batch Summary

Batch ID: BJ31394

Preparation Method: EPA 3010A

Prepared By: MW

YORK Sample ID	Client Sample ID	Preparation Date
13J1044-01	KC-MW-01 1013	10/30/13
13J1044-02	KC-MW-02 1013	10/30/13
13J1044-03	KC-MW-05 1013	10/30/13
13J1044-04	KC-FD-01 1013	10/30/13
BJ31394-BLK1	Blank	10/30/13
BJ31394-DUP1	Duplicate	10/30/13
BJ31394-MS1	Matrix Spike	10/30/13
BJ31394-SRM1	Reference	10/30/13

Batch ID: BK30107

Preparation Method: EPA 5030B

Prepared By: SS

YORK Sample ID	Client Sample ID	Preparation Date
13J1044-01	KC-MW-01 1013	11/03/13
13J1044-02	KC-MW-02 1013	11/03/13
13J1044-03	KC-MW-05 1013	11/03/13
13J1044-04	KC-FD-01 1013	11/03/13
BK30107-BLK1	Blank	11/03/13
BK30107-BS1	LCS	11/03/13
BK30107-BSD1	LCS Dup	11/03/13
BK30107-DUP1	Duplicate	11/03/13

Batch ID: BK30124

Preparation Method: EPA 7473 water

Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
13J1044-01	KC-MW-01 1013	11/04/13
13J1044-02	KC-MW-02 1013	11/04/13
13J1044-03	KC-MW-05 1013	11/04/13
13J1044-04	KC-FD-01 1013	11/04/13
BK30124-BLK1	Blank	11/04/13
BK30124-DUP1	Duplicate	11/04/13
BK30124-MS1	Matrix Spike	11/04/13
BK30124-SRM1	Reference	11/04/13

Batch ID: BK30233

Preparation Method: EPA 5030B

Prepared By: SS

YORK Sample ID	Client Sample ID	Preparation Date
13J1044-01RE1	KC-MW-01 1013	11/06/13
BK30233-BLK1	Blank	11/06/13
BK30233-BS1	LCS	11/06/13
BK30233-BSD1	LCS Dup	11/06/13



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	Limit	Flag

Batch BK30107 - EPA 5030B

Blank (BK30107-BLK1)

Prepared & Analyzed: 11/03/2013

1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	ND	5.0	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Methyl tert-butyl ether (MTBE)	ND	5.0	"
Methylene chloride	ND	5.0	"
Naphthalene	ND	5.0	"
n-Butylbenzene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
o-Xylene	ND	5.0	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30107 - EPA 5030B											
Blank (BK30107-BLK1)						Prepared & Analyzed: 11/03/2013					
p- & m- Xylenes	ND	10	ug/L								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	5.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.7</i>		<i>"</i>	<i>50.0</i>		<i>95.3</i>	<i>78-122</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>51.0</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>87-112</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.4</i>		<i>"</i>	<i>50.0</i>		<i>98.8</i>	<i>91-110</i>				
LCS (BK30107-BS1)						Prepared & Analyzed: 11/03/2013					
1,1,1,2-Tetrachloroethane	53		ug/L	50.0		107	90-116				
1,1,1-Trichloroethane	47		"	50.0		94.6	83-125				
1,1,2,2-Tetrachloroethane	54		"	50.0		109	84-122				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0		100	66-141				
1,1,2-Trichloroethane	55		"	50.0		111	83-116				
1,1-Dichloroethane	51		"	50.0		102	82-121				
1,1-Dichloroethylene	44		"	50.0		89.0	59-135				
1,1-Dichloropropylene	47		"	50.0		93.4	81-112				
1,2,3-Trichlorobenzene	50		"	50.0		101	74-132				
1,2,3-Trichloropropane	54		"	50.0		108	83-118				
1,2,4-Trichlorobenzene	50		"	50.0		99.7	72-133				
1,2,4-Trimethylbenzene	49		"	50.0		98.9	82-119				
1,2-Dibromo-3-chloropropane	55		"	50.0		111	69-134				
1,2-Dibromoethane	55		"	50.0		110	85-118				
1,2-Dichlorobenzene	49		"	50.0		98.6	87-116				
1,2-Dichloroethane	51		"	50.0		103	79-125				
1,2-Dichloropropane	57		"	50.0		114	82-119				
1,3,5-Trimethylbenzene	52		"	50.0		104	84-120				
1,3-Dichlorobenzene	50		"	50.0		100	85-116				
1,3-Dichloropropane	56		"	50.0		112	86-114				
1,4-Dichlorobenzene	51		"	50.0		102	84-116				
2,2-Dichloropropane	48		"	50.0		95.4	56-138				
2-Butanone	49		"	50.0		98.8	59-127				
2-Chlorotoluene	49		"	50.0		98.3	82-117				
4-Chlorotoluene	52		"	50.0		104	84-118				
Acetone	27		"	50.0		54.9	30-112				
Benzene	51		"	50.0		102	88-113				
Bromobenzene	53		"	50.0		107	85-117				
Bromochloromethane	54		"	50.0		108	80-120				
Bromodichloromethane	53		"	50.0		107	87-122				
Bromoform	52		"	50.0		104	83-127				
Bromomethane	30		"	50.0		59.2	36-135				
Carbon tetrachloride	48		"	50.0		95.7	82-128				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BK30107 - EPA 5030B

LCS (BK30107-BS1)

Prepared & Analyzed: 11/03/2013

Chlorobenzene	50		ug/L	50.0		100	90-111				
Chloroethane	37		"	50.0		74.6	60-132				
Chloroform	49		"	50.0		98.4	89-116				
Chloromethane	27		"	50.0		53.5	39-131				
cis-1,2-Dichloroethylene	50		"	50.0		99.3	90-112				
cis-1,3-Dichloropropylene	58		"	50.0		116	89-124				
Dibromochloromethane	51		"	50.0		102	82-132				
Dibromomethane	56		"	50.0		111	83-124				
Dichlorodifluoromethane	11		"	50.0		21.9	10-143				
Ethyl Benzene	54		"	50.0		107	91-117				
Hexachlorobutadiene	50		"	50.0		101	83-129				
Isopropylbenzene	52		"	50.0		103	82-122				
Methyl tert-butyl ether (MTBE)	51		"	50.0		103	59-135				
Methylene chloride	44		"	50.0		87.4	51-136				
Naphthalene	50		"	50.0		101	61-147				
n-Butylbenzene	49		"	50.0		97.5	79-122				
n-Propylbenzene	54		"	50.0		109	80-123				
o-Xylene	56		"	50.0		113	91-110	High Bias			
p- & m- Xylenes	110		"	100		108	86-118				
p-Isopropyltoluene	51		"	50.0		102	83-125				
sec-Butylbenzene	52		"	50.0		105	82-127				
Styrene	64		"	50.0		127	88-121	High Bias			
tert-Butylbenzene	50		"	50.0		99.7	70-130				
Tetrachloroethylene	52		"	50.0		104	67-138				
Toluene	55		"	50.0		109	88-113				
trans-1,2-Dichloroethylene	52		"	50.0		103	73-123				
trans-1,3-Dichloropropylene	55		"	50.0		110	85-123				
Trichloroethylene	53		"	50.0		105	83-120				
Trichlorofluoromethane	37		"	50.0		74.7	62-138				
Vinyl Chloride	31		"	50.0		63.0	49-127				
Vinyl acetate	14		"	50.0		27.2	21-90				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.3</i>		<i>"</i>	<i>50.0</i>		<i>92.7</i>	<i>78-122</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.4</i>		<i>"</i>	<i>50.0</i>		<i>98.8</i>	<i>87-112</i>				
<i>Surrogate: Toluene-d8</i>	<i>53.1</i>		<i>"</i>	<i>50.0</i>		<i>106</i>	<i>91-110</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30107 - EPA 5030B											
LCS Dup (BK30107-BSD1)						Prepared & Analyzed: 11/03/2013					
1,1,1,2-Tetrachloroethane	50		ug/L	50.0		100	90-116		6.42	30	
1,1,1-Trichloroethane	48		"	50.0		95.9	83-125		1.45	30	
1,1,2,2-Tetrachloroethane	53		"	50.0		107	84-122		1.84	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0		99.1	66-141		1.36	30	
1,1,2-Trichloroethane	51		"	50.0		103	83-116		7.62	30	
1,1-Dichloroethane	50		"	50.0		101	82-121		1.46	30	
1,1-Dichloroethylene	44		"	50.0		88.8	59-135		0.157	30	
1,1-Dichloropropylene	46		"	50.0		92.2	81-112		1.27	30	
1,2,3-Trichlorobenzene	49		"	50.0		97.6	74-132		3.11	30	
1,2,3-Trichloropropane	52		"	50.0		104	83-118		3.33	30	
1,2,4-Trichlorobenzene	49		"	50.0		98.5	72-133		1.19	30	
1,2,4-Trimethylbenzene	50		"	50.0		100	82-119		1.15	30	
1,2-Dibromo-3-chloropropane	57		"	50.0		114	69-134		3.31	30	
1,2-Dibromoethane	50		"	50.0		101	85-118		8.34	30	
1,2-Dichlorobenzene	50		"	50.0		100	87-116		1.71	30	
1,2-Dichloroethane	46		"	50.0		92.6	79-125		10.6	30	
1,2-Dichloropropane	55		"	50.0		109	82-119		3.95	30	
1,3,5-Trimethylbenzene	50		"	50.0		99.1	84-120		4.69	30	
1,3-Dichlorobenzene	52		"	50.0		105	85-116		4.78	30	
1,3-Dichloropropane	51		"	50.0		102	86-114		9.44	30	
1,4-Dichlorobenzene	51		"	50.0		101	84-116		0.158	30	
2,2-Dichloropropane	48		"	50.0		96.2	56-138		0.752	30	
2-Butanone	49		"	50.0		97.9	59-127		0.834	30	
2-Chlorotoluene	51		"	50.0		103	82-117		4.24	30	
4-Chlorotoluene	51		"	50.0		103	84-118		1.43	30	
Acetone	28		"	50.0		55.4	30-112		0.906	30	
Benzene	46		"	50.0		92.2	88-113		10.5	30	
Bromobenzene	53		"	50.0		105	85-117		1.51	30	
Bromochloromethane	56		"	50.0		112	80-120		3.22	30	
Bromodichloromethane	52		"	50.0		104	87-122		2.54	30	
Bromoform	49		"	50.0		98.1	83-127		5.61	30	
Bromomethane	30		"	50.0		59.1	36-135		0.203	30	
Carbon tetrachloride	46		"	50.0		91.4	82-128		4.62	30	
Chlorobenzene	51		"	50.0		103	90-111		2.25	30	
Chloroethane	39		"	50.0		78.4	60-132		4.92	30	
Chloroform	51		"	50.0		102	89-116		3.44	30	
Chloromethane	28		"	50.0		55.4	39-131		3.41	30	
cis-1,2-Dichloroethylene	49		"	50.0		98.2	90-112		1.15	30	
cis-1,3-Dichloropropylene	55		"	50.0		110	89-124		5.03	30	
Dibromochloromethane	49		"	50.0		98.6	82-132		3.19	30	
Dibromomethane	55		"	50.0		111	83-124		0.306	30	
Dichlorodifluoromethane	11		"	50.0		22.2	10-143		0.998	30	
Ethyl Benzene	51		"	50.0		102	91-117		5.08	30	
Hexachlorobutadiene	52		"	50.0		104	83-129		3.86	30	
Isopropylbenzene	51		"	50.0		102	82-122		1.11	30	
Methyl tert-butyl ether (MTBE)	49		"	50.0		97.0	59-135		5.51	30	
Methylene chloride	43		"	50.0		86.8	51-136		0.666	30	
Naphthalene	54		"	50.0		108	61-147		6.76	30	
n-Butylbenzene	46		"	50.0		92.8	79-122		4.92	30	
n-Propylbenzene	53		"	50.0		105	80-123		2.95	30	
o-Xylene	53		"	50.0		107	91-110		5.23	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	Limit	Flag

Batch BK30107 - EPA 5030B

LCS Dup (BK30107-BSD1)

Prepared & Analyzed: 11/03/2013

p- & m- Xylenes	99		ug/L	100		99.4	86-118		8.48	30	
p-Isopropyltoluene	56		"	50.0		111	83-125		9.16	30	
sec-Butylbenzene	56		"	50.0		111	82-127		5.65	30	
Styrene	59		"	50.0		119	88-121		6.84	30	
tert-Butylbenzene	51		"	50.0		101	70-130		1.73	30	
Tetrachloroethylene	49		"	50.0		98.6	67-138		4.99	30	
Toluene	50		"	50.0		100	88-113		8.83	30	
trans-1,2-Dichloroethylene	49		"	50.0		98.6	73-123		4.74	30	
trans-1,3-Dichloropropylene	52		"	50.0		105	85-123		5.25	30	
Trichloroethylene	52		"	50.0		103	83-120		2.13	30	
Trichlorofluoromethane	38		"	50.0		76.2	62-138		1.94	30	
Vinyl Chloride	32		"	50.0		63.5	49-127		0.854	30	
Vinyl acetate	13		"	50.0		26.1	21-90		4.21	30	
Surrogate: 1,2-Dichloroethane-d4	48.1		"	50.0		96.2	78-122				
Surrogate: p-Bromofluorobenzene	48.6		"	50.0		97.1	87-112				
Surrogate: Toluene-d8	48.6		"	50.0		97.2	91-110				

Duplicate (BK30107-DUP1)

*Source sample: 13J1044-02 (KC-MW-02 1013)

Prepared & Analyzed: 11/03/2013

1,1,1,2-Tetrachloroethane	ND	5.0	ug/L		ND					200	
1,1,1-Trichloroethane	ND	5.0	"		ND					200	
1,1,2,2-Tetrachloroethane	ND	5.0	"		ND					200	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"		ND					200	
1,1,2-Trichloroethane	ND	5.0	"		ND					200	
1,1-Dichloroethane	ND	5.0	"		ND					200	
1,1-Dichloroethylene	ND	5.0	"		ND					200	
1,1-Dichloropropylene	ND	5.0	"		ND					200	
1,2,3-Trichlorobenzene	ND	5.0	"		ND					200	
1,2,3-Trichloropropane	ND	5.0	"		ND					200	
1,2,4-Trichlorobenzene	ND	5.0	"		ND					200	
1,2,4-Trimethylbenzene	ND	5.0	"		ND					200	
1,2-Dibromo-3-chloropropane	ND	5.0	"		ND					200	
1,2-Dibromoethane	ND	5.0	"		ND					200	
1,2-Dichlorobenzene	ND	5.0	"		ND					200	
1,2-Dichloroethane	ND	5.0	"		ND					200	
1,2-Dichloropropane	ND	5.0	"		ND					200	
1,3,5-Trimethylbenzene	ND	5.0	"		ND					200	
1,3-Dichlorobenzene	ND	5.0	"		ND					200	
1,3-Dichloropropane	ND	5.0	"		ND					200	
1,4-Dichlorobenzene	ND	5.0	"		ND					200	
2,2-Dichloropropane	ND	5.0	"		ND					200	
2-Butanone	ND	5.0	"		ND					200	
2-Chlorotoluene	ND	5.0	"		ND					200	
4-Chlorotoluene	ND	5.0	"		ND					200	
Acetone	6.0	5.0	"		5.7				3.93	200	
Benzene	ND	5.0	"		ND					200	
Bromobenzene	ND	5.0	"		ND					200	
Bromochloromethane	ND	5.0	"		ND					200	
Bromodichloromethane	ND	5.0	"		ND					200	
Bromoform	ND	5.0	"		ND					200	
Bromomethane	ND	5.0	"		ND					200	
Carbon tetrachloride	ND	5.0	"		ND					200	
Chlorobenzene	ND	5.0	"		ND					200	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BK30107 - EPA 5030B

Duplicate (BK30107-DUP1)		*Source sample: 13J1044-02 (KC-MW-02 1013)				Prepared & Analyzed: 11/03/2013					
Chloroethane	ND	5.0	ug/L		ND					200	
Chloroform	ND	5.0	"		ND					200	
Chloromethane	ND	5.0	"		ND					200	
cis-1,2-Dichloroethylene	19	5.0	"		18				8.37	200	
cis-1,3-Dichloropropylene	ND	5.0	"		ND					200	
Dibromochloromethane	ND	5.0	"		ND					200	
Dibromomethane	ND	5.0	"		ND					200	
Dichlorodifluoromethane	ND	5.0	"		ND					200	
Ethyl Benzene	ND	5.0	"		ND					200	
Hexachlorobutadiene	ND	5.0	"		ND					200	
Isopropylbenzene	ND	5.0	"		ND					200	
Methyl tert-butyl ether (MTBE)	ND	5.0	"		ND					200	
Methylene chloride	ND	5.0	"		ND					200	
Naphthalene	ND	5.0	"		ND					200	
n-Butylbenzene	ND	5.0	"		ND					200	
n-Propylbenzene	ND	5.0	"		ND					200	
o-Xylene	ND	5.0	"		ND					200	
p- & m- Xylenes	ND	10	"		ND					200	
p-Isopropyltoluene	ND	5.0	"		ND					200	
sec-Butylbenzene	ND	5.0	"		ND					200	
Styrene	ND	5.0	"		ND					200	
tert-Butylbenzene	ND	5.0	"		ND					200	
Tetrachloroethylene	ND	5.0	"		ND					200	
Toluene	ND	5.0	"		ND					200	
trans-1,2-Dichloroethylene	ND	5.0	"		ND					200	
trans-1,3-Dichloropropylene	ND	5.0	"		ND					200	
Trichloroethylene	2.7	5.0	"		ND					200	
Trichlorofluoromethane	ND	5.0	"		ND					200	
Vinyl Chloride	3.0	5.0	"		ND					200	
Xylenes, Total	ND	15	"		ND					200	
Vinyl acetate	ND	5.0	"		ND					200	
Surrogate: 1,2-Dichloroethane-d4	48.5		"	50.0		97.1	78-122				
Surrogate: p-Bromofluorobenzene	48.5		"	50.0		97.0	87-112				
Surrogate: Toluene-d8	44.4		"	50.0		88.9	91-110				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BK30233 - EPA 5030B

Blank (BK30233-BLK1)

Prepared & Analyzed: 11/06/2013

1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	ND	5.0	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Methyl tert-butyl ether (MTBE)	ND	5.0	"
Methylene chloride	ND	5.0	"
Naphthalene	ND	5.0	"
n-Butylbenzene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
o-Xylene	ND	5.0	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BK30233 - EPA 5030B

Blank (BK30233-BLK1)

Prepared & Analyzed: 11/06/2013

p- & m- Xylenes	ND	10	ug/L
p-Isopropyltoluene	ND	5.0	"
sec-Butylbenzene	ND	5.0	"
Styrene	ND	5.0	"
tert-Butylbenzene	ND	5.0	"
Tetrachloroethylene	ND	5.0	"
Toluene	ND	5.0	"
trans-1,2-Dichloroethylene	ND	5.0	"
trans-1,3-Dichloropropylene	ND	5.0	"
Trichloroethylene	ND	5.0	"
Trichlorofluoromethane	ND	5.0	"
Vinyl Chloride	ND	5.0	"
Xylenes, Total	ND	15	"
Vinyl acetate	ND	5.0	"

Surrogate: 1,2-Dichloroethane-d4	48.7	"	50.0	97.4	78-122
Surrogate: p-Bromofluorobenzene	50.5	"	50.0	101	87-112
Surrogate: Toluene-d8	48.2	"	50.0	96.5	91-110

LCS (BK30233-BS1)

Prepared & Analyzed: 11/06/2013

1,1,1,2-Tetrachloroethane	54	ug/L	50.0	108	90-116	High Bias
1,1,1-Trichloroethane	50	"	50.0	99.0	83-125	
1,1,2,2-Tetrachloroethane	61	"	50.0	123	84-122	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53	"	50.0	105	66-141	
1,1,2-Trichloroethane	54	"	50.0	108	83-116	
1,1-Dichloroethane	53	"	50.0	106	82-121	
1,1-Dichloroethylene	47	"	50.0	95.0	59-135	
1,1-Dichloropropylene	50	"	50.0	101	81-112	High Bias
1,2,3-Trichlorobenzene	56	"	50.0	111	74-132	
1,2,3-Trichloropropane	61	"	50.0	121	83-118	
1,2,4-Trichlorobenzene	56	"	50.0	112	72-133	
1,2,4-Trimethylbenzene	50	"	50.0	100	82-119	
1,2-Dibromo-3-chloropropane	64	"	50.0	128	69-134	
1,2-Dibromoethane	58	"	50.0	116	85-118	
1,2-Dichlorobenzene	50	"	50.0	99.0	87-116	
1,2-Dichloroethane	55	"	50.0	110	79-125	
1,2-Dichloropropane	52	"	50.0	103	82-119	
1,3,5-Trimethylbenzene	53	"	50.0	106	84-120	
1,3-Dichlorobenzene	49	"	50.0	98.5	85-116	
1,3-Dichloropropane	56	"	50.0	113	86-114	
1,4-Dichlorobenzene	52	"	50.0	105	84-116	
2,2-Dichloropropane	52	"	50.0	103	56-138	
2-Butanone	59	"	50.0	118	59-127	
2-Chlorotoluene	49	"	50.0	97.6	82-117	
4-Chlorotoluene	54	"	50.0	107	84-118	
Acetone	37	"	50.0	73.8	30-112	
Benzene	52	"	50.0	103	88-113	
Bromobenzene	56	"	50.0	113	85-117	
Bromochloromethane	59	"	50.0	119	80-120	
Bromodichloromethane	54	"	50.0	108	87-122	
Bromoform	57	"	50.0	113	83-127	
Bromomethane	39	"	50.0	77.1	36-135	
Carbon tetrachloride	51	"	50.0	102	82-128	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BK30233 - EPA 5030B

LCS (BK30233-BS1)

Prepared & Analyzed: 11/06/2013

Chlorobenzene	51		ug/L	50.0		102	90-111				
Chloroethane	46		"	50.0		91.9	60-132				
Chloroform	52		"	50.0		104	89-116				
Chloromethane	41		"	50.0		82.7	39-131				
cis-1,2-Dichloroethylene	51		"	50.0		102	90-112				
cis-1,3-Dichloropropylene	58		"	50.0		115	89-124				
Dibromochloromethane	56		"	50.0		111	82-132				
Dibromomethane	56		"	50.0		111	83-124				
Dichlorodifluoromethane	25		"	50.0		49.7	10-143				
Ethyl Benzene	51		"	50.0		103	91-117				
Hexachlorobutadiene	54		"	50.0		109	83-129				
Isopropylbenzene	52		"	50.0		104	82-122				
Methyl tert-butyl ether (MTBE)	56		"	50.0		112	59-135				
Methylene chloride	50		"	50.0		101	51-136				
Naphthalene	60		"	50.0		119	61-147				
n-Butylbenzene	46		"	50.0		91.1	79-122				
n-Propylbenzene	55		"	50.0		110	80-123				
o-Xylene	51		"	50.0		103	91-110				
p- & m- Xylenes	100		"	100		101	86-118				
p-Isopropyltoluene	50		"	50.0		101	83-125				
sec-Butylbenzene	51		"	50.0		101	82-127				
Styrene	59		"	50.0		117	88-121				
tert-Butylbenzene	48		"	50.0		96.9	70-130				
Tetrachloroethylene	49		"	50.0		98.7	67-138				
Toluene	52		"	50.0		105	88-113				
trans-1,2-Dichloroethylene	52		"	50.0		105	73-123				
trans-1,3-Dichloropropylene	57		"	50.0		115	85-123				
Trichloroethylene	53		"	50.0		107	83-120				
Trichlorofluoromethane	43		"	50.0		86.1	62-138				
Vinyl Chloride	42		"	50.0		83.3	49-127				
Vinyl acetate	17		"	50.0		34.2	21-90				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.4</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>78-122</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.1</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>87-112</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.2</i>		<i>"</i>	<i>50.0</i>		<i>98.4</i>	<i>91-110</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30233 - EPA 5030B											
LCS Dup (BK30233-BSD1)						Prepared & Analyzed: 11/06/2013					
1,1,1,2-Tetrachloroethane	53		ug/L	50.0		105	90-116		2.22	30	
1,1,1-Trichloroethane	50		"	50.0		100	83-125		1.07	30	
1,1,2,2-Tetrachloroethane	54		"	50.0		109	84-122		12.2	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		107	66-141		1.64	30	
1,1,2-Trichloroethane	52		"	50.0		104	83-116		3.98	30	
1,1-Dichloroethane	51		"	50.0		102	82-121		3.48	30	
1,1-Dichloroethylene	50		"	50.0		99.3	59-135		4.43	30	
1,1-Dichloropropylene	49		"	50.0		98.0	81-112		2.74	30	
1,2,3-Trichlorobenzene	53		"	50.0		105	74-132		5.34	30	
1,2,3-Trichloropropane	52		"	50.0		105	83-118		14.3	30	
1,2,4-Trichlorobenzene	52		"	50.0		104	72-133		7.33	30	
1,2,4-Trimethylbenzene	52		"	50.0		104	82-119		3.53	30	
1,2-Dibromo-3-chloropropane	57		"	50.0		113	69-134		12.0	30	
1,2-Dibromoethane	54		"	50.0		107	85-118		7.98	30	
1,2-Dichlorobenzene	50		"	50.0		101	87-116		1.54	30	
1,2-Dichloroethane	53		"	50.0		107	79-125		2.49	30	
1,2-Dichloropropane	55		"	50.0		109	82-119		5.59	30	
1,3,5-Trimethylbenzene	52		"	50.0		105	84-120		1.16	30	
1,3-Dichlorobenzene	48		"	50.0		97.0	85-116		1.60	30	
1,3-Dichloropropane	51		"	50.0		102	86-114		9.85	30	
1,4-Dichlorobenzene	50		"	50.0		101	84-116		3.77	30	
2,2-Dichloropropane	52		"	50.0		103	56-138		0.252	30	
2-Butanone	50		"	50.0		101	59-127		15.8	30	
2-Chlorotoluene	51		"	50.0		102	82-117		4.39	30	
4-Chlorotoluene	52		"	50.0		104	84-118		3.01	30	
Acetone	37		"	50.0		74.0	30-112		0.352	30	
Benzene	52		"	50.0		103	88-113		0.349	30	
Bromobenzene	54		"	50.0		108	85-117		4.88	30	
Bromochloromethane	56		"	50.0		112	80-120		5.76	30	
Bromodichloromethane	51		"	50.0		102	87-122		5.37	30	
Bromoform	50		"	50.0		101	83-127		12.0	30	
Bromomethane	39		"	50.0		78.0	36-135		1.24	30	
Carbon tetrachloride	49		"	50.0		98.0	82-128		3.68	30	
Chlorobenzene	51		"	50.0		102	90-111		0.0591	30	
Chloroethane	47		"	50.0		93.1	60-132		1.30	30	
Chloroform	51		"	50.0		103	89-116		1.01	30	
Chloromethane	39		"	50.0		77.8	39-131		6.08	30	
cis-1,2-Dichloroethylene	51		"	50.0		102	90-112		0.157	30	
cis-1,3-Dichloropropylene	56		"	50.0		112	89-124		2.59	30	
Dibromochloromethane	51		"	50.0		102	82-132		8.17	30	
Dibromomethane	53		"	50.0		107	83-124		4.17	30	
Dichlorodifluoromethane	22		"	50.0		44.2	10-143		11.7	30	
Ethyl Benzene	53		"	50.0		105	91-117		2.73	30	
Hexachlorobutadiene	51		"	50.0		102	83-129		6.54	30	
Isopropylbenzene	48		"	50.0		95.1	82-122		9.07	30	
Methyl tert-butyl ether (MTBE)	53		"	50.0		106	59-135		5.92	30	
Methylene chloride	51		"	50.0		102	51-136		1.17	30	
Naphthalene	55		"	50.0		111	61-147		7.10	30	
n-Butylbenzene	45		"	50.0		90.7	79-122		0.374	30	
n-Propylbenzene	55		"	50.0		110	80-123		0.218	30	
o-Xylene	54		"	50.0		108	91-110		5.26	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BK30233 - EPA 5030B

LCS Dup (BK30233-BSD1)				Prepared & Analyzed: 11/06/2013							
p- & m- Xylenes	100		ug/L	100		103	86-118		2.47	30	
p-Isopropyltoluene	50		"	50.0		101	83-125		0.238	30	
sec-Butylbenzene	54		"	50.0		107	82-127		5.64	30	
Styrene	61		"	50.0		123	88-121	High Bias	4.25	30	
tert-Butylbenzene	51		"	50.0		102	70-130		4.72	30	
Tetrachloroethylene	50		"	50.0		99.9	67-138		1.13	30	
Toluene	51		"	50.0		102	88-113		3.03	30	
trans-1,2-Dichloroethylene	53		"	50.0		106	73-123		1.10	30	
trans-1,3-Dichloropropylene	54		"	50.0		107	85-123		6.80	30	
Trichloroethylene	53		"	50.0		107	83-120		0.0187	30	
Trichlorofluoromethane	42		"	50.0		84.6	62-138		1.80	30	
Vinyl Chloride	40		"	50.0		79.1	49-127		5.17	30	
Vinyl acetate	13		"	50.0		26.6	21-90		24.9	30	
Surrogate: 1,2-Dichloroethane-d4	49.8		"	50.0		99.7	78-122				
Surrogate: p-Bromofluorobenzene	48.0		"	50.0		96.0	87-112				
Surrogate: Toluene-d8	51.0		"	50.0		102	91-110				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BJ31394 - EPA 3010A

Blank (BJ31394-BLK1)

Prepared & Analyzed: 10/30/2013

Antimony	ND	0.005	mg/L
Arsenic	ND	0.004	"
Beryllium	ND	0.001	"
Cadmium	ND	0.003	"
Chromium	ND	0.005	"
Copper	ND	0.003	"
Lead	ND	0.003	"
Nickel	ND	0.005	"
Selenium	ND	0.010	"
Silver	ND	0.005	"
Thallium	ND	0.005	"
Zinc	ND	0.010	"

Duplicate (BJ31394-DUP1)

*Source sample: 13J1044-01 (KC-MW-01 1013)

Prepared & Analyzed: 10/30/2013

Antimony	ND	0.005	mg/L	ND	20
Arsenic	0.008	0.004	"	0.007	10.6 20
Beryllium	ND	0.001	"	ND	20
Cadmium	0.034	0.003	"	0.033	0.855 20
Chromium	0.008	0.005	"	0.008	1.82 20
Copper	0.021	0.003	"	0.020	0.512 20
Lead	0.003	0.003	"	0.003	4.62 20
Nickel	0.478	0.005	"	0.477	0.242 20
Selenium	ND	0.010	"	ND	20
Silver	ND	0.005	"	ND	20
Thallium	ND	0.005	"	ND	20
Zinc	0.105	0.010	"	0.104	0.704 20

Matrix Spike (BJ31394-MS1)

*Source sample: 13J1044-01 (KC-MW-01 1013)

Prepared & Analyzed: 10/30/2013

Antimony	0.247	0.005	mg/L	0.250	ND	98.7	75-125
Arsenic	2.16	0.004	"	2.00	0.007	107	75-125
Beryllium	0.051	0.001	"	0.0500	ND	102	75-125
Cadmium	0.083	0.003	"	0.0500	0.033	100	75-125
Chromium	0.207	0.005	"	0.200	0.008	99.6	75-125
Copper	0.282	0.003	"	0.250	0.020	105	75-125
Lead	0.488	0.003	"	0.500	0.003	97.0	75-125
Nickel	1.02	0.005	"	0.500	0.477	108	75-125
Selenium	2.26	0.010	"	2.00	ND	113	75-125
Silver	0.046	0.005	"	0.0500	ND	91.5	75-125
Thallium	1.94	0.005	"	2.00	ND	96.9	75-125
Zinc	0.609	0.010	"	0.500	0.104	101	75-125



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BJ31394 - EPA 3010A

Reference (BJ31394-SRM1)

Prepared & Analyzed: 10/30/2013

Antimony	0.090	0.005	mg/L	0.102		88.7	59.4-125				
Arsenic	0.441	0.004	"	0.482		91.4	83.8-117				
Beryllium	0.633	0.001	"	0.667		94.9	85-113				
Cadmium	0.270	0.003	"	0.293		92.3	85.3-114				
Chromium	0.261	0.005	"	0.276		94.7	86.6-113				
Copper	0.504	0.003	"	0.522		96.6	90-110				
Lead	1.40	0.003	"	1.48		94.5	87.8-111				
Nickel	1.25	0.005	"	1.34		93.4	90.3-112				
Selenium	0.475	0.010	"	0.541		87.9	79.1-116				
Silver	0.328	0.005	"	0.359		91.3	85.8-114				
Thallium	0.563	0.005	"	0.579		97.3	81-120				
Zinc	1.22	0.010	"	1.30		94.2	86.2-115				



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30124 - EPA 7473 water											
Blank (BK30124-BLK1)								Prepared & Analyzed: 11/04/2013			
Mercury	ND	0.00020	mg/L								
Duplicate (BK30124-DUP1)								*Source sample: 13J1044-04 (KC-FD-01 1013) Prepared & Analyzed: 11/04/2013			
Mercury	ND	0.00020	mg/L		ND					20	
Matrix Spike (BK30124-MS1)								*Source sample: 13J1044-04 (KC-FD-01 1013) Prepared & Analyzed: 11/04/2013			
Mercury	0.00006		mg/kg	0.0000500	ND	111	75-125				
Reference (BK30124-SRM1)								Prepared & Analyzed: 11/04/2013			
Mercury	0.00000490		mg/kg	0.00000460		106	61.3-135				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13J1044-01	KC-MW-01 1013	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13J1044-02	KC-MW-02 1013	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13J1044-03	KC-MW-05 1013	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13J1044-04	KC-FD-01 1013	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-LSRD	Original sample conc <50 X reporting limit.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.



Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.



Laboratory Chain-of-Custody Record

York Project (SDG) No.: 13J1044

Samples Received: 10/29/2013 15:50 By: John Gale Logged In: 10/29/2013 11:28 By: John Gale

Sample Conditions:	☒	Custody Seals	☒	Chain of Custody Form Received
	☒	Containers Intact	☒	Appropriate Sample Volumes Received
	☒	COC/Labels Agree	☒	Appropriate Sample Containers Submitted
	☒	Preservation Confirmed	☒	Samples Submitted within Holding Times
	☒	Cooler Temperature Confirmed	☐	Corrective Action Form Required
	☒	COC Complete		

Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
13J1044-01	EPA 3010A	10/30/2013 8:25	10/30/2013 8:25	Mike Woodfield
13J1044-02	EPA 3010A	10/30/2013 8:25	10/30/2013 8:25	Mike Woodfield
13J1044-03	EPA 3010A	10/30/2013 8:25	10/30/2013 8:25	Mike Woodfield
13J1044-04	EPA 3010A	10/30/2013 8:25	10/30/2013 8:25	Mike Woodfield
13J1044-01	EPA 5030B	11/03/2013 9:06	11/03/2013 9:06	Steve Swift
13J1044-02	EPA 5030B	11/03/2013 9:06	11/03/2013 9:06	Steve Swift
13J1044-03	EPA 5030B	11/03/2013 9:06	11/03/2013 9:06	Steve Swift
13J1044-04	EPA 5030B	11/03/2013 9:06	11/03/2013 9:06	Steve Swift
13J1044-01	EPA 7473 water	11/04/2013 11:47	11/04/2013 11:47	Amanda DeBiase
13J1044-02	EPA 7473 water	11/04/2013 11:47	11/04/2013 11:47	Amanda DeBiase
13J1044-03	EPA 7473 water	11/04/2013 11:47	11/04/2013 11:47	Amanda DeBiase
13J1044-04	EPA 7473 water	11/04/2013 11:47	11/04/2013 11:47	Amanda DeBiase

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
13J1044-01	Mercury by 7473	11/04/2013 11:47	11/04/2013 13:08	Amanda DeBiase
13J1044-02	Mercury by 7473	11/04/2013 11:47	11/04/2013 13:08	Amanda DeBiase
13J1044-03	Mercury by 7473	11/04/2013 11:47	11/04/2013 13:08	Amanda DeBiase
13J1044-04	Mercury by 7473	11/04/2013 11:47	11/04/2013 13:08	Amanda DeBiase
13J1044-01	Metals, Priority Pollutant	10/30/2013 8:25	10/30/2013 13:11	Mike Woodfield
13J1044-02	Metals, Priority Pollutant	10/30/2013 8:25	10/30/2013 13:29	Mike Woodfield
13J1044-03	Metals, Priority Pollutant	10/30/2013 8:25	10/30/2013 13:34	Mike Woodfield
13J1044-04	Metals, Priority Pollutant	10/30/2013 8:25	10/30/2013 13:40	Mike Woodfield
13J1044-01	Volatile Organics, 8260 List	11/03/2013 9:06	11/06/2013 11:18	Steve Swift



Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
13J1044-02	Volatile Organics, 8260 List	11/03/2013 9:06	11/03/2013 19:50	Steve Swift
13J1044-03	Volatile Organics, 8260 List	11/03/2013 9:06	11/03/2013 20:25	Steve Swift
13J1044-04	Volatile Organics, 8260 List	11/03/2013 9:06	11/03/2013 21:01	Steve Swift

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

[illegible]

York Analytical Laboratories, Inc.

SDG: 13J1044

CLASS: VOA

METHOD: EPA 8260C

DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Client Sample Id:

KC-MW-01 1013

KC-MW-01 1013

KC-MW-02 1013

KC-MW-05 1013

KC-FD-01 1013

Lab Sample Id:

13J1044-01

13J1044-01RE1

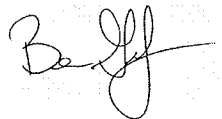
13J1044-02

13J1044-03

13J1044-04

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 computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature:



Name:

Benjamin Gulizia

Date:

1/15/2014

Title:

Laboratory Director

FORM II

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVS

Sequence:

Instrument:

Matrix: Water

Calibration:

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BK30107-BS1) Lab File ID: V233078L.D Analyzed: 11/03/13 11:36								
1,2-Dichloroethane-d4	50.0	92.7	78 - 122	5.43				
p-Bromofluorobenzene	50.0	98.8	87 - 112	9.99				
Toluene-d8	50.0	106	91 - 110	7.25				
LCS Dup (BK30107-BSD1) Lab File ID: V233079U.D Analyzed: 11/03/13 12:11								
1,2-Dichloroethane-d4	50.0	96.2	78 - 122	5.44				
p-Bromofluorobenzene	50.0	97.1	87 - 112	9.99				
Toluene-d8	50.0	97.2	91 - 110	7.25				
Blank (BK30107-BLK1) Lab File ID: V233080B.D Analyzed: 11/03/13 12:47								
1,2-Dichloroethane-d4	50.0	95.3	78 - 122	5.44				
p-Bromofluorobenzene	50.0	102	87 - 112	9.99				
Toluene-d8	50.0	98.8	91 - 110	7.25				
KC-MW-01 1013 (13J1044-01) Lab File ID: V233090B.D Analyzed: 11/03/13 18:39								
1,2-Dichloroethane-d4	50.0	93.6	78 - 122	5.41				
p-Bromofluorobenzene	50.0	101	87 - 112	9.98				
Toluene-d8	50.0	98.2	91 - 110	7.23				
Duplicate (BK30107-DUP1) Lab File ID: V233091B.D Analyzed: 11/03/13 19:15								
1,2-Dichloroethane-d4	50.0	97.1	78 - 122	5.42				
p-Bromofluorobenzene	50.0	97.0	87 - 112	9.97				
Toluene-d8	50.0	88.9	91 - 110	7.23				*
KC-MW-02 1013 (13J1044-02) Lab File ID: V233092B.D Analyzed: 11/03/13 19:50								
1,2-Dichloroethane-d4	50.0	96.9	78 - 122	5.41				
p-Bromofluorobenzene	50.0	95.8	87 - 112	9.97				
Toluene-d8	50.0	98.3	91 - 110	7.23				
KC-MW-05 1013 (13J1044-03) Lab File ID: V233093B.D Analyzed: 11/03/13 20:25								
1,2-Dichloroethane-d4	50.0	97.4	78 - 122	5.41				
p-Bromofluorobenzene	50.0	100	87 - 112	9.97				
Toluene-d8	50.0	103	91 - 110	7.23				
KC-FD-01 1013 (13J1044-04) Lab File ID: V233094B.D Analyzed: 11/03/13 21:01								
1,2-Dichloroethane-d4	50.0	99.3	78 - 122	5.41				
p-Bromofluorobenzene	50.0	94.4	87 - 112	9.98				
Toluene-d8	50.0	97.0	91 - 110	7.23				

FORM II

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVS

Sequence:

Instrument:

Matrix: Water

Calibration:

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BK30233-BS1)		Lab File ID: V233175L.D			Analyzed: 11/06/13 08:22			
1,2-Dichloroethane-d4	50.0	101	78 - 122	5.39				
p-Bromofluorobenzene	50.0	100	87 - 112	9.94				
Toluene-d8	50.0	98.4	91 - 110	7.21				
LCS Dup (BK30233-BSD1)		Lab File ID: V233176U.D			Analyzed: 11/06/13 08:57			
1,2-Dichloroethane-d4	50.0	99.7	78 - 122	5.39				
p-Bromofluorobenzene	50.0	96.0	87 - 112	9.94				
Toluene-d8	50.0	102	91 - 110	7.21				
Blank (BK30233-BLK1)		Lab File ID: V233177B.D			Analyzed: 11/06/13 09:32			
1,2-Dichloroethane-d4	50.0	97.4	78 - 122	5.39				
p-Bromofluorobenzene	50.0	101	87 - 112	9.95				
Toluene-d8	50.0	96.5	91 - 110	7.21				

DUPLICATES

EPA 8260C

KC-MW-02 1013

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Laboratory ID: BK30107-DUP1

Batch: BK30107

Lab Source ID: 13J1044-02

Preparation: EPA 5030B

Initial/Final: 5 mL / 5 mL

Source Sample Name: KC-MW-02 1013

% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/L)	C	DUPLICATE CONCENTRATION (ug/L)	C	RPD %	Q	METHOD
1,1,1,2-Tetrachloroethane	200	ND		ND				EPA 8260C
1,1,1-Trichloroethane	200	ND		ND				EPA 8260C
1,1,2,2-Tetrachloroethane	200	ND		ND				EPA 8260C
1,1,2-Trichloro-1,2,2-trifluoroethane (F	200	ND		ND				EPA 8260C
1,1,2-Trichloroethane	200	ND		ND				EPA 8260C
1,1-Dichloroethane	200	ND		ND				EPA 8260C
1,1-Dichloroethylene	200	ND		ND				EPA 8260C
1,1-Dichloropropylene	200	ND		ND				EPA 8260C
1,2,3-Trichlorobenzene	200	ND		ND				EPA 8260C
1,2,3-Trichloropropane	200	ND		ND				EPA 8260C
1,2,4-Trichlorobenzene	200	ND		ND				EPA 8260C
1,2,4-Trimethylbenzene	200	ND		ND				EPA 8260C
1,2-Dibromo-3-chloropropane	200	ND		ND				EPA 8260C
1,2-Dibromoethane	200	ND		ND				EPA 8260C
1,2-Dichlorobenzene	200	ND		ND				EPA 8260C
1,2-Dichloroethane	200	ND		ND				EPA 8260C
1,2-Dichloropropane	200	ND		ND				EPA 8260C
1,3,5-Trimethylbenzene	200	ND		ND				EPA 8260C
1,3-Dichlorobenzene	200	ND		ND				EPA 8260C
1,3-Dichloropropane	200	ND		ND				EPA 8260C
1,4-Dichlorobenzene	200	ND		ND				EPA 8260C
2,2-Dichloropropane	200	ND		ND				EPA 8260C
2-Butanone	200	ND		ND				EPA 8260C
2-Chlorotoluene	200	ND		ND				EPA 8260C
4-Chlorotoluene	200	ND		ND				EPA 8260C
Acetone	200	5.73		6.0		3.93		EPA 8260C
Benzene	200	ND		ND				EPA 8260C
Bromobenzene	200	ND		ND				EPA 8260C

DUPLICATES

EPA 8260C

KC-MW-02 1013

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Laboratory ID: BK30107-DUP1

Batch: BK30107

Lab Source ID: 13J1044-02

Preparation: EPA 5030B

Initial/Final: 5 mL / 5 mL

Source Sample Name: KC-MW-02 1013

% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/L)	C	DUPLICATE CONCENTRATION (ug/L)	C	RPD %	Q	METHOD
Bromochloromethane	200	ND		ND				EPA 8260C
Bromodichloromethane	200	ND		ND				EPA 8260C
Bromoform	200	ND		ND				EPA 8260C
Bromomethane	200	ND		ND				EPA 8260C
Carbon tetrachloride	200	ND		ND				EPA 8260C
Chlorobenzene	200	ND		ND				EPA 8260C
Chloroethane	200	ND		ND				EPA 8260C
Chloroform	200	ND		ND				EPA 8260C
Chloromethane	200	ND		ND				EPA 8260C
cis-1,2-Dichloroethylene	200	17.7		19		8.37		EPA 8260C
cis-1,3-Dichloropropylene	200	ND		ND				EPA 8260C
Dibromochloromethane	200	ND		ND				EPA 8260C
Dibromomethane	200	ND		ND				EPA 8260C
Dichlorodifluoromethane	200	ND		ND				EPA 8260C
Ethyl Benzene	200	ND		ND				EPA 8260C
Hexachlorobutadiene	200	ND		ND				EPA 8260C
Isopropylbenzene	200	ND		ND				EPA 8260C
Methyl tert-butyl ether (MTBE)	200	ND		ND				EPA 8260C
Methylene chloride	200	ND		ND				EPA 8260C
Naphthalene	200	ND		ND				EPA 8260C
n-Butylbenzene	200	ND		ND				EPA 8260C
n-Propylbenzene	200	ND		ND				EPA 8260C
o-Xylene	200	ND		ND				EPA 8260C
p- & m- Xylenes	200	ND		ND				EPA 8260C
p-Isopropyltoluene	200	ND		ND				EPA 8260C
sec-Butylbenzene	200	ND		ND				EPA 8260C
Styrene	200	ND		ND				EPA 8260C
tert-Butylbenzene	200	ND		ND				EPA 8260C

DUPLICATES

EPA 8260C

KC-MW-02 1013

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Laboratory ID: BK30107-DUP1

Batch: BK30107

Lab Source ID: 13J1044-02

Preparation: EPA 5030B

Initial/Final: 5 mL / 5 mL

Source Sample Name: KC-MW-02 1013

% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/L)	C	DUPLICATE CONCENTRATION (ug/L)	C	RPD %	Q	METHOD
Tetrachloroethylene	200	ND		ND				EPA 8260C
Toluene	200	ND		ND				EPA 8260C
trans-1,2-Dichloroethylene	200	ND		ND				EPA 8260C
trans-1,3-Dichloropropylene	200	ND		ND				EPA 8260C
Trichloroethylene	200	ND		2.7				EPA 8260C
Trichlorofluoromethane	200	ND		ND				EPA 8260C
Vinyl Chloride	200	ND		3.0				EPA 8260C
Xylenes, Total	200	ND		ND				EPA 8260C
Vinyl acetate	200	ND		ND				EPA 8260C
1,2-Dichloroethane-d4		48.5		48.5				EPA 8260C
p-Bromofluorobenzene		47.9		48.5				EPA 8260C
Toluene-d8		49.1		44.4				EPA 8260C

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30107Laboratory ID: BK30107-BS1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	53	107	90 - 116
1,1,1-Trichloroethane	50.0	47	94.6	83 - 125
1,1,2,2-Tetrachloroethane	50.0	54	109	84 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	50	100	66 - 141
1,1,2-Trichloroethane	50.0	55	111	83 - 116
1,1-Dichloroethane	50.0	51	102	82 - 121
1,1-Dichloroethylene	50.0	44	89.0	59 - 135
1,1-Dichloropropylene	50.0	47	93.4	81 - 112
1,2,3-Trichlorobenzene	50.0	50	101	74 - 132
1,2,3-Trichloropropane	50.0	54	108	83 - 118
1,2,4-Trichlorobenzene	50.0	50	99.7	72 - 133
1,2,4-Trimethylbenzene	50.0	49	98.9	82 - 119
1,2-Dibromo-3-chloropropane	50.0	55	111	69 - 134
1,2-Dibromoethane	50.0	55	110	85 - 118
1,2-Dichlorobenzene	50.0	49	98.6	87 - 116
1,2-Dichloroethane	50.0	51	103	79 - 125
1,2-Dichloropropane	50.0	57	114	82 - 119
1,3,5-Trimethylbenzene	50.0	52	104	84 - 120
1,3-Dichlorobenzene	50.0	50	100	85 - 116
1,3-Dichloropropane	50.0	56	112	86 - 114
1,4-Dichlorobenzene	50.0	51	102	84 - 116
2,2-Dichloropropane	50.0	48	95.4	56 - 138
2-Butanone	50.0	49	98.8	59 - 127
2-Chlorotoluene	50.0	49	98.3	82 - 117
4-Chlorotoluene	50.0	52	104	84 - 118
Acetone	50.0	27	54.9	30 - 112
Benzene	50.0	51	102	88 - 113
Bromobenzene	50.0	53	107	85 - 117
Bromochloromethane	50.0	54	108	80 - 120
Bromodichloromethane	50.0	53	107	87 - 122

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water
 Batch: BK30107 Laboratory ID: BK30107-BS1
 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Bromoform	50.0	52	104	83 - 127
Bromomethane	50.0	30	59.2	36 - 135
Carbon tetrachloride	50.0	48	95.7	82 - 128
Chlorobenzene	50.0	50	100	90 - 111
Chloroethane	50.0	37	74.6	60 - 132
Chloroform	50.0	49	98.4	89 - 116
Chloromethane	50.0	27	53.5	39 - 131
cis-1,2-Dichloroethylene	50.0	50	99.3	90 - 112
cis-1,3-Dichloropropylene	50.0	58	116	89 - 124
Dibromochloromethane	50.0	51	102	82 - 132
Dibromomethane	50.0	56	111	83 - 124
Dichlorodifluoromethane	50.0	11	21.9	10 - 143
Ethyl Benzene	50.0	54	107	91 - 117
Hexachlorobutadiene	50.0	50	101	83 - 129
Isopropylbenzene	50.0	52	103	82 - 122
Methyl tert-butyl ether (MTBE)	50.0	51	103	59 - 135
Methylene chloride	50.0	44	87.4	51 - 136
Naphthalene	50.0	50	101	61 - 147
n-Butylbenzene	50.0	49	97.5	79 - 122
n-Propylbenzene	50.0	54	109	80 - 123
o-Xylene	50.0	56	113 *	91 - 110
p- & m- Xylenes	100	110	108	86 - 118
p-Isopropyltoluene	50.0	51	102	83 - 125
sec-Butylbenzene	50.0	52	105	82 - 127
Styrene	50.0	64	127 *	88 - 121
tert-Butylbenzene	50.0	50	99.7	70 - 130
Tetrachloroethylene	50.0	52	104	67 - 138
Toluene	50.0	55	109	88 - 113
trans-1,2-Dichloroethylene	50.0	52	103	73 - 123
trans-1,3-Dichloropropylene	50.0	55	110	85 - 123

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Matrix: Water
Batch: BK30107 Laboratory ID: BK30107-BS1
Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Trichloroethylene	50.0	53	105	83 - 120
Trichlorofluoromethane	50.0	37	74.7	62 - 138
Vinyl Chloride	50.0	31	63.0	49 - 127
Vinyl acetate	50.0	14	27.2	21 - 90

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30107Laboratory ID: BK30107-BSD1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	50.0	50	100	6.42	30	90 - 116
1,1,1-Trichloroethane	50.0	48	95.9	1.45	30	83 - 125
1,1,2,2-Tetrachloroethane	50.0	53	107	1.84	30	84 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50	99.1	1.36	30	66 - 141
1,1,2-Trichloroethane	50.0	51	103	7.62	30	83 - 116
1,1-Dichloroethane	50.0	50	101	1.46	30	82 - 121
1,1-Dichloroethylene	50.0	44	88.8	0.157	30	59 - 135
1,1-Dichloropropylene	50.0	46	92.2	1.27	30	81 - 112
1,2,3-Trichlorobenzene	50.0	49	97.6	3.11	30	74 - 132
1,2,3-Trichloropropane	50.0	52	104	3.33	30	83 - 118
1,2,4-Trichlorobenzene	50.0	49	98.5	1.19	30	72 - 133
1,2,4-Trimethylbenzene	50.0	50	100	1.15	30	82 - 119
1,2-Dibromo-3-chloropropane	50.0	57	114	3.31	30	69 - 134
1,2-Dibromoethane	50.0	50	101	8.34	30	85 - 118
1,2-Dichlorobenzene	50.0	50	100	1.71	30	87 - 116
1,2-Dichloroethane	50.0	46	92.6	10.6	30	79 - 125
1,2-Dichloropropane	50.0	55	109	3.95	30	82 - 119
1,3,5-Trimethylbenzene	50.0	50	99.1	4.69	30	84 - 120
1,3-Dichlorobenzene	50.0	52	105	4.78	30	85 - 116
1,3-Dichloropropane	50.0	51	102	9.44	30	86 - 114
1,4-Dichlorobenzene	50.0	51	101	0.158	30	84 - 116
2,2-Dichloropropane	50.0	48	96.2	0.752	30	56 - 138
2-Butanone	50.0	49	97.9	0.834	30	59 - 127
2-Chlorotoluene	50.0	51	103	4.24	30	82 - 117
4-Chlorotoluene	50.0	51	103	1.43	30	84 - 118
Acetone	50.0	28	55.4	0.906	30	30 - 112
Benzene	50.0	46	92.2	10.5	30	88 - 113
Bromobenzene	50.0	53	105	1.51	30	85 - 117
Bromochloromethane	50.0	56	112	3.22	30	80 - 120
Bromodichloromethane	50.0	52	104	2.54	30	87 - 122

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30107Laboratory ID: BK30107-BSD1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Bromoform	50.0	49	98.1	5.61	30	83 - 127
Bromomethane	50.0	30	59.1	0.203	30	36 - 135
Carbon tetrachloride	50.0	46	91.4	4.62	30	82 - 128
Chlorobenzene	50.0	51	103	2.25	30	90 - 111
Chloroethane	50.0	39	78.4	4.92	30	60 - 132
Chloroform	50.0	51	102	3.44	30	89 - 116
Chloromethane	50.0	28	55.4	3.41	30	39 - 131
cis-1,2-Dichloroethylene	50.0	49	98.2	1.15	30	90 - 112
cis-1,3-Dichloropropylene	50.0	55	110	5.03	30	89 - 124
Dibromochloromethane	50.0	49	98.6	3.19	30	82 - 132
Dibromomethane	50.0	55	111	0.306	30	83 - 124
Dichlorodifluoromethane	50.0	11	22.2	0.998	30	10 - 143
Ethyl Benzene	50.0	51	102	5.08	30	91 - 117
Hexachlorobutadiene	50.0	52	104	3.86	30	83 - 129
Isopropylbenzene	50.0	51	102	1.11	30	82 - 122
Methyl tert-butyl ether (MTBE)	50.0	49	97.0	5.51	30	59 - 135
Methylene chloride	50.0	43	86.8	0.666	30	51 - 136
Naphthalene	50.0	54	108	6.76	30	61 - 147
n-Butylbenzene	50.0	46	92.8	4.92	30	79 - 122
n-Propylbenzene	50.0	53	105	2.95	30	80 - 123
o-Xylene	50.0	53	107	5.23	30	91 - 110
p- & m- Xylenes	100	99	99.4	8.48	30	86 - 118
p-Isopropyltoluene	50.0	56	111	9.16	30	83 - 125
sec-Butylbenzene	50.0	56	111	5.65	30	82 - 127
Styrene	50.0	59	119	6.84	30	88 - 121
tert-Butylbenzene	50.0	51	101	1.73	30	70 - 130
Tetrachloroethylene	50.0	49	98.6	4.99	30	67 - 138
Toluene	50.0	50	100	8.83	30	88 - 113
trans-1,2-Dichloroethylene	50.0	49	98.6	4.74	30	73 - 123
trans-1,3-Dichloropropylene	50.0	52	105	5.25	30	85 - 123

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Matrix: Water
Batch: BK30107 Laboratory ID: BK30107-BSD1
Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Trichloroethylene	50.0	52	103	2.13	30	83 - 120
Trichlorofluoromethane	50.0	38	76.2	1.94	30	62 - 138
Vinyl Chloride	50.0	32	63.5	0.854	30	49 - 127
Vinyl acetate	50.0	13	26.1	4.21	30	21 - 90

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30233Laboratory ID: BK30233-BS1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	54	108	90 - 116
1,1,1-Trichloroethane	50.0	50	99.0	83 - 125
1,1,2,2-Tetrachloroethane	50.0	61	123 *	84 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	53	105	66 - 141
1,1,2-Trichloroethane	50.0	54	108	83 - 116
1,1-Dichloroethane	50.0	53	106	82 - 121
1,1-Dichloroethylene	50.0	47	95.0	59 - 135
1,1-Dichloropropylene	50.0	50	101	81 - 112
1,2,3-Trichlorobenzene	50.0	56	111	74 - 132
1,2,3-Trichloropropane	50.0	61	121 *	83 - 118
1,2,4-Trichlorobenzene	50.0	56	112	72 - 133
1,2,4-Trimethylbenzene	50.0	50	100	82 - 119
1,2-Dibromo-3-chloropropane	50.0	64	128	69 - 134
1,2-Dibromoethane	50.0	58	116	85 - 118
1,2-Dichlorobenzene	50.0	50	99.0	87 - 116
1,2-Dichloroethane	50.0	55	110	79 - 125
1,2-Dichloropropane	50.0	52	103	82 - 119
1,3,5-Trimethylbenzene	50.0	53	106	84 - 120
1,3-Dichlorobenzene	50.0	49	98.5	85 - 116
1,3-Dichloropropane	50.0	56	113	86 - 114
1,4-Dichlorobenzene	50.0	52	105	84 - 116
2,2-Dichloropropane	50.0	52	103	56 - 138
2-Butanone	50.0	59	118	59 - 127
2-Chlorotoluene	50.0	49	97.6	82 - 117
4-Chlorotoluene	50.0	54	107	84 - 118
Acetone	50.0	37	73.8	30 - 112
Benzene	50.0	52	103	88 - 113
Bromobenzene	50.0	56	113	85 - 117
Bromochloromethane	50.0	59	119	80 - 120
Bromodichloromethane	50.0	54	108	87 - 122

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30233Laboratory ID: BK30233-BS1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Bromoform	50.0	57	113	83 - 127
Bromomethane	50.0	39	77.1	36 - 135
Carbon tetrachloride	50.0	51	102	82 - 128
Chlorobenzene	50.0	51	102	90 - 111
Chloroethane	50.0	46	91.9	60 - 132
Chloroform	50.0	52	104	89 - 116
Chloromethane	50.0	41	82.7	39 - 131
cis-1,2-Dichloroethylene	50.0	51	102	90 - 112
cis-1,3-Dichloropropylene	50.0	58	115	89 - 124
Dibromochloromethane	50.0	56	111	82 - 132
Dibromomethane	50.0	56	111	83 - 124
Dichlorodifluoromethane	50.0	25	49.7	10 - 143
Ethyl Benzene	50.0	51	103	91 - 117
Hexachlorobutadiene	50.0	54	109	83 - 129
Isopropylbenzene	50.0	52	104	82 - 122
Methyl tert-butyl ether (MTBE)	50.0	56	112	59 - 135
Methylene chloride	50.0	50	101	51 - 136
Naphthalene	50.0	60	119	61 - 147
n-Butylbenzene	50.0	46	91.1	79 - 122
n-Propylbenzene	50.0	55	110	80 - 123
o-Xylene	50.0	51	103	91 - 110
p- & m- Xylenes	100	100	101	86 - 118
p-Isopropyltoluene	50.0	50	101	83 - 125
sec-Butylbenzene	50.0	51	101	82 - 127
Styrene	50.0	59	117	88 - 121
tert-Butylbenzene	50.0	48	96.9	70 - 130
Tetrachloroethylene	50.0	49	98.7	67 - 138
Toluene	50.0	52	105	88 - 113
trans-1,2-Dichloroethylene	50.0	52	105	73 - 123
trans-1,3-Dichloropropylene	50.0	57	115	85 - 123

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Matrix: Water
Batch: BK30233 Laboratory ID: BK30233-BS1
Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Trichloroethylene	50.0	53	107	83 - 120
Trichlorofluoromethane	50.0	43	86.1	62 - 138
Vinyl Chloride	50.0	42	83.3	49 - 127
Vinyl acetate	50.0	17	34.2	21 - 90

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30233Laboratory ID: BK30233-BSD1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	50.0	53	105	2.22	30	90 - 116
1,1,1-Trichloroethane	50.0	50	100	1.07	30	83 - 125
1,1,2,2-Tetrachloroethane	50.0	54	109	12.2	30	84 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53	107	1.64	30	66 - 141
1,1,2-Trichloroethane	50.0	52	104	3.98	30	83 - 116
1,1-Dichloroethane	50.0	51	102	3.48	30	82 - 121
1,1-Dichloroethylene	50.0	50	99.3	4.43	30	59 - 135
1,1-Dichloropropylene	50.0	49	98.0	2.74	30	81 - 112
1,2,3-Trichlorobenzene	50.0	53	105	5.34	30	74 - 132
1,2,3-Trichloropropane	50.0	52	105	14.3	30	83 - 118
1,2,4-Trichlorobenzene	50.0	52	104	7.33	30	72 - 133
1,2,4-Trimethylbenzene	50.0	52	104	3.53	30	82 - 119
1,2-Dibromo-3-chloropropane	50.0	57	113	12.0	30	69 - 134
1,2-Dibromoethane	50.0	54	107	7.98	30	85 - 118
1,2-Dichlorobenzene	50.0	50	101	1.54	30	87 - 116
1,2-Dichloroethane	50.0	53	107	2.49	30	79 - 125
1,2-Dichloropropane	50.0	55	109	5.59	30	82 - 119
1,3,5-Trimethylbenzene	50.0	52	105	1.16	30	84 - 120
1,3-Dichlorobenzene	50.0	48	97.0	1.60	30	85 - 116
1,3-Dichloropropane	50.0	51	102	9.85	30	86 - 114
1,4-Dichlorobenzene	50.0	50	101	3.77	30	84 - 116
2,2-Dichloropropane	50.0	52	103	0.252	30	56 - 138
2-Butanone	50.0	50	101	15.8	30	59 - 127
2-Chlorotoluene	50.0	51	102	4.39	30	82 - 117
4-Chlorotoluene	50.0	52	104	3.01	30	84 - 118
Acetone	50.0	37	74.0	0.352	30	30 - 112
Benzene	50.0	52	103	0.349	30	88 - 113
Bromobenzene	50.0	54	108	4.88	30	85 - 117
Bromochloromethane	50.0	56	112	5.76	30	80 - 120
Bromodichloromethane	50.0	51	102	5.37	30	87 - 122

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water
 Batch: BK30233 Laboratory ID: BK30233-BSD1
 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Bromoform	50.0	50	101	12.0	30	83 - 127
Bromomethane	50.0	39	78.0	1.24	30	36 - 135
Carbon tetrachloride	50.0	49	98.0	3.68	30	82 - 128
Chlorobenzene	50.0	51	102	0.0591	30	90 - 111
Chloroethane	50.0	47	93.1	1.30	30	60 - 132
Chloroform	50.0	51	103	1.01	30	89 - 116
Chloromethane	50.0	39	77.8	6.08	30	39 - 131
cis-1,2-Dichloroethylene	50.0	51	102	0.157	30	90 - 112
cis-1,3-Dichloropropylene	50.0	56	112	2.59	30	89 - 124
Dibromochloromethane	50.0	51	102	8.17	30	82 - 132
Dibromomethane	50.0	53	107	4.17	30	83 - 124
Dichlorodifluoromethane	50.0	22	44.2	11.7	30	10 - 143
Ethyl Benzene	50.0	53	105	2.73	30	91 - 117
Hexachlorobutadiene	50.0	51	102	6.54	30	83 - 129
Isopropylbenzene	50.0	48	95.1	9.07	30	82 - 122
Methyl tert-butyl ether (MTBE)	50.0	53	106	5.92	30	59 - 135
Methylene chloride	50.0	51	102	1.17	30	51 - 136
Naphthalene	50.0	55	111	7.10	30	61 - 147
n-Butylbenzene	50.0	45	90.7	0.374	30	79 - 122
n-Propylbenzene	50.0	55	110	0.218	30	80 - 123
o-Xylene	50.0	54	108	5.26	30	91 - 110
p- & m- Xylenes	100	100	103	2.47	30	86 - 118
p-Isopropyltoluene	50.0	50	101	0.238	30	83 - 125
sec-Butylbenzene	50.0	54	107	5.64	30	82 - 127
Styrene	50.0	61	123 *	4.25	30	88 - 121
tert-Butylbenzene	50.0	51	102	4.72	30	70 - 130
Tetrachloroethylene	50.0	50	99.9	1.13	30	67 - 138
Toluene	50.0	51	102	3.03	30	88 - 113
trans-1,2-Dichloroethylene	50.0	53	106	1.10	30	73 - 123
trans-1,3-Dichloropropylene	50.0	54	107	6.80	30	85 - 123

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Matrix: Water
Batch: BK30233 Laboratory ID: BK30233-BSD1
Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Trichloroethylene	50.0	53	107	0.0187	30	83 - 120
Trichlorofluoromethane	50.0	42	84.6	1.80	30	62 - 138
Vinyl Chloride	50.0	40	79.1	5.17	30	49 - 127
Vinyl acetate	50.0	13	26.6	24.9	30	21 - 90

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BK30107-BLK1 File ID: V233080B.D
 Prepared: 11/03/13 09:06 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Analyzed: 11/03/13 12:47 Instrument: MS VOA 2
 Batch: BK30107 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethylene	5.0	U
563-58-6	1,1-Dichloropropylene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	5.0	U
108-86-1	Bromobenzene	5.0	U
74-97-5	Bromochloromethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BK30107-BLK1 File ID: V233080B.D
 Prepared: 11/03/13 09:06 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Analyzed: 11/03/13 12:47 Instrument: MS VOA 2
 Batch: BK30107 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
156-59-2	cis-1,2-Dichloroethylene	5.0	U
10061-01-5	cis-1,3-Dichloropropylene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
100-41-4	Ethyl Benzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
98-82-8	Isopropylbenzene	5.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	5.0	U
75-09-2	Methylene chloride	5.0	U
91-20-3	Naphthalene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	p- & m- Xylenes	10	U
99-87-6	p-Isopropyltoluene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
100-42-5	Styrene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
127-18-4	Tetrachloroethylene	5.0	U
108-88-3	Toluene	5.0	U
156-60-5	trans-1,2-Dichloroethylene	5.0	U
10061-02-6	trans-1,3-Dichloropropylene	5.0	U

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Matrix: Water Laboratory ID: BK30107-BLK1 File ID: V233080B.D
Prepared: 11/03/13 09:06 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
Analyzed: 11/03/13 12:47 Instrument: MS VOA 2
Batch: BK30107 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
79-01-6	Trichloroethylene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
1330-20-7	Xylenes, Total	15	U
108-05-4	Vinyl acetate	5.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	50.0	47.7	95.3	78 - 122	
p-Bromofluorobenzene	50.0	51.0	102	87 - 112	
Toluene-d8	50.0	49.4	98.8	91 - 110	

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BK30233-BLK1 File ID: V233177B.D
 Prepared: 11/06/13 07:02 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Analyzed: 11/06/13 09:32 Instrument: MS VOA 2
 Batch: BK30233 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethylene	5.0	U
563-58-6	1,1-Dichloropropylene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	5.0	U
108-86-1	Bromobenzene	5.0	U
74-97-5	Bromochloromethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BK30233-BLK1 File ID: V233177B.D
 Prepared: 11/06/13 07:02 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Analyzed: 11/06/13 09:32 Instrument: MS VOA 2
 Batch: BK30233 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
156-59-2	cis-1,2-Dichloroethylene	5.0	U
10061-01-5	cis-1,3-Dichloropropylene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
100-41-4	Ethyl Benzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
98-82-8	Isopropylbenzene	5.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	5.0	U
75-09-2	Methylene chloride	5.0	U
91-20-3	Naphthalene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	p- & m- Xylenes	10	U
99-87-6	p-Isopropyltoluene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
100-42-5	Styrene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
127-18-4	Tetrachloroethylene	5.0	U
108-88-3	Toluene	5.0	U
156-60-5	trans-1,2-Dichloroethylene	5.0	U
10061-02-6	trans-1,3-Dichloropropylene	5.0	U

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Matrix: Water Laboratory ID: BK30233-BLK1 File ID: V233177B.D
Prepared: 11/06/13 07:02 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
Analyzed: 11/06/13 09:32 Instrument: MS VOA 2
Batch: BK30233 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
79-01-6	Trichloroethylene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
1330-20-7	Xylenes, Total	15	U
108-05-4	Vinyl acetate	5.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	50.0	48.7	97.4	78 - 122	
p-Bromofluorobenzene	50.0	50.5	101	87 - 112	
Toluene-d8	50.0	48.2	96.5	91 - 110	

FORM IV**PREPARATION BATCH SUMMARY****EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Batch: BK30107 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1013	13J1044-01	V233180W.D	11/03/13 09:06	
KC-MW-01 1013	13J1044-01	V233090B.D	11/03/13 09:06	
KC-MW-02 1013	13J1044-02	V233092B.D	11/03/13 09:06	
KC-MW-05 1013	13J1044-03	V233093B.D	11/03/13 09:06	
KC-FD-01 1013	13J1044-04	V233094B.D	11/03/13 09:06	
Blank	BK30107-BLK1	V233080B.D	11/03/13 09:06	
LCS	BK30107-BS1	V233078L.D	11/03/13 09:06	
LCS Dup	BK30107-BSD1	V233079U.D	11/03/13 09:06	
KC-MW-02 1013	BK30107-DUP1	V233091B.D	11/03/13 09:06	

FORM IV**PREPARATION BATCH SUMMARY****EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Batch: BK30233 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	BK30233-BLK1	V233177B.D	11/06/13 07:02	
LCS	BK30233-BS1	V233175L.D	11/06/13 07:02	
LCS Dup	BK30233-BSD1	V233176U.D	11/06/13 07:02	

Form 5A
Volatile Organic Instrument Performance Check
Bromofluorobenzene (BFB)

Lab Name: York Analytical Laboratories, Inc.
 Client: Chazen Environmental Services (Poughkeepsie)
 Lab File ID: V232433B.D
 Instrument ID: VOA No. 2
 Calibration: V2C00349

SDG: 13J1044
 Project: 41103.00 Kingston CVS
 BFB Injection Date: 10/14/13
 BFB InjectionTime: 13:35
 Sequence: QBV2101413A

m/e	Ion Abundance Criteria	% Relative Abundance	
50	15.0-40.0% of mass 95	16.2	
75	30.0-60.0% of mass 95	39.3	
95	Base peak, 100% relative abundance	100.0	
96	5.0-9.0% of mass 95	5.3	
173	Less than 2.0% of mass 174	0.0	64.8 1
174	50.0-100.0% of mass 95	64.8	
175	5.0-9.0% of mass 174	6.2	64.8 1
176	95.0-101.0% of mass 174	96.5	64.8 1
177	5.0-9.0% of mass 176	5.5	96.5 2

1- Value is % mass 174

2-Value is % mass 176

This check applies to the following samples, MS, MSD, blanks and standards

	Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1		5 ppb VOA CALIBRATION STD	V232434C.D	10/14/13	14:10
2		10 ppb VOA CALIBRATION STD	V232435C.D	10/14/13	14:46
3		20 ppb VOA CALIBRATION STD	V232436C.D	10/14/13	15:21
4		50 ppb VOA CALIBRATION STD	V232437C.D	10/14/13	15:56
5		100 ppb VOA CALIBRATION STD	V232438C.D	10/14/13	16:31
6		200 ppb VOA CALIBRATION STD	V232439C.D	10/14/13	17:06
7		50 ppb VOA ICV STD	V232441C.D	10/14/13	18:17
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5A
Volatile Organic Instrument Performance Check
Bromofluorobenzene (BFB)

Lab Name: York Analytical Laboratories, Inc.
 Client: Chazen Environmental Services (Poughkeepsie)
 Lab File ID: V233077C.D
 Instrument ID: VOA No. 2
 Calibration: V2C00349

SDG: 13J1044
 Project: 41103.00 Kingston CVS
 BFB Injection Date: 11/03/13
 BFB InjectionTime: 11:00
 Sequence: QBV2110313A

m/e	Ion Abundance Criteria	% Relative Abundance	
50	15.0-40.0% of mass 95	17.3	
75	30.0-60.0% of mass 95	40.0	
95	Base peak, 100% relative abundance	100.0	
96	5.0-9.0% of mass 95	5.4	
173	Less than 2.0% of mass 174	0.0	61.8 1
174	50.0-100.0% of mass 95	61.8	
175	5.0-9.0% of mass 174	5.7	61.8 1
176	95.0-101.0% of mass 174	96.4	61.8 1
177	5.0-9.0% of mass 176	5.5	96.4 2

1- Value is % mass 174

2-Value is % mass 176

This check applies to the following samples, MS, MSD, blanks and standards

	Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1		BK30107-BS1	V233078L.D	11/03/13	11:36
2		BK30107-BSD1	V233079U.D	11/03/13	12:11
3		BK30107-BLK1	V233080B.D	11/03/13	12:47
4	KC-MW-01 1013	13J1044-01	V233090B.D	11/03/13	18:39
5	KC-MW-02 1013 DUP	13J1044-02 DUP	V23309B.D	11/03/13	19:15
6	KC-MW-02 1013	13J1044-02	V233092B.D	11/03/13	19:50
7	KC-MW-05 1013	13J1044-03	V233093B.D	11/03/13	20:25
8	KC-FD-01 1013	13J1044-04	V233094B.D	11/03/13	21:01
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5A
Volatile Organic Instrument Performance Check
Bromofluorobenzene (BFB)

Lab Name: York Analytical Laboratories, Inc.
 Client: Chazen Environmental Services (Poughkeepsie)
 Lab File ID: V233174C.D
 Instrument ID: VOA No. 2
 Calibration: V2C00349

SDG: 13J1044
 Project: 41103.00 Kingston CVS
 BFB Injection Date: 11/06/13
 BFB InjectionTime: 07:45
 Sequence: QBV2110613A

m/e	Ion Abundance Criteria	% Relative Abundance	
50	15.0-40.0% of mass 95	16.6	
75	30.0-60.0% of mass 95	38.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0-9.0% of mass 95	5.2	
173	Less than 2.0% of mass 174	0.0	62.6 1
174	50.0-100.0% of mass 95	62.6	
175	5.0-9.0% of mass 174	6.5	62.6 1
176	95.0-101.0% of mass 174	95.8	62.6 1
177	5.0-9.0% of mass 176	5.4	95.8 2

1- Value is % mass 174

2-Value is % mass 176

This check applies to the following samples, MS, MSD, blanks and standards

	Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1		BK30233-BS1	V233175L.D	11/06/13	08:22
2		BK30233-BSD1	V233176U.D	11/06/13	08:57
3		BK30233-BLK1	V233177B.D	11/06/13	09:32
4	KC-FD-01 1013 (25X)	13J1044-04 (25X)	V233180W.D	11/06/13	11:18
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 8A
Volatile Internal Standard Area and RT Summary

Lab Name: York Analytical Laboratories, Inc
 Client: Chazen Environmental Services (Poughkeepsie)
 Sequence: QBV2110313A
 Calibration: V2C00349
 Lab File ID: V233077C.D

SDG: 13J1044
 Project: 41103.00 Kingston CVS
 Instrument ID: VOA No. 2
 BFB Injection Date: 11/03/13
 BFB InjectionTime: 11:00

	IS 1 (FBZ)		IS 2 (CBZ)		IS 3 (DCB)	
	Area	RT	Area	RT	Area	RT
12 Hour Std	369632	5.74	966595	8.73	327983	11.70
Upper Limit	739264	6.24	1933190	9.23	655966	12.20
Lower Limit	184816	5.24	483298	8.23	163992	11.20
Client Sample ID						
BK30107-BS1	389893	5.74	986469	8.72	322790	11.70
BK30107-BSD1	383845	5.74	999819	8.73	316510	11.69
BK30107-BLK1	380020	5.74	1000870	8.73	299782	11.69
KC-MW-01 1013	386009	5.72	1044257	8.71	303471	11.68
KC-MW-02 1013 DUP	374899	5.72	1009179	8.71	307346	11.68
KC-MW-02 1013	370564	5.72	963810	8.71	306456	11.68
KC-MW-05 1013	372675	5.72	983630	8.71	302064	11.68
KC-FD-01 1013	397966	5.72	974033	8.71	303442	11.68

IS 1 (FBZ) = Fluorobenzene
 IS 2 (CBZ) = Chlorobenzene-d5
 IS 3 (DCB) = 1,2-Dichlorobenzene-d4

Area Upper Limit +100% of internal standard area
 Area Lower Limit -50% of internal standard area
 RT Upper Limit +0.50 minutes of internal standard RT
 RT Upper Limit -0.50 minutes of internal standard RT

* = Values outside of QC limits

Form 8A

Lab Name: York Analytical Laboratories, Inc
Client: Chazen Environmental Services (Poughkeepsie)
Sequence: QBV2110613A
Calibration: V2C00349
Lab File ID: V233174C.D

SDG: 13J1044
Project: 41103.00 Kingston CVS
Instrument ID: VOA No. 2
BFB Injection Date: 11/06/13
BFB InjectionTime: 07:45

[illegible]

IS 1 (FBZ) = Fluorobenzene
IS 2 (CBZ) = Chlorobenzene-d5
IS 3 (DCB) = 1,2-Dichlorobenzene-d4

Area Upper Limit	+100% of internal standard area
Area Lower Limit	-50% of internal standard area
RT Upper Limit	+0.50 minutes of internal standard RT
RT Upper Limit	-0.50 minutes of internal standard RT

* = Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Instrument:

Analyte	LOD	LOQ	Units
1,1,1,2-Tetrachloroethane	2.5	5.0	ug/L
1,1,1-Trichloroethane	2.5	5.0	ug/L
1,1,2,2-Tetrachloroethane	2.5	5.0	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	2.5	5.0	ug/L
1,1,2-Trichloroethane	2.5	5.0	ug/L
1,1-Dichloroethane	2.5	5.0	ug/L
1,1-Dichloroethylene	2.5	5.0	ug/L
1,1-Dichloropropylene	2.5	5.0	ug/L
1,2,3-Trichlorobenzene	2.5	5.0	ug/L
1,2,3-Trichloropropane	2.5	5.0	ug/L
1,2,4-Trichlorobenzene	2.5	5.0	ug/L
1,2,4-Trimethylbenzene	2.5	5.0	ug/L
1,2-Dibromo-3-chloropropane	2.5	5.0	ug/L
1,2-Dibromoethane	2.5	5.0	ug/L
1,2-Dichlorobenzene	2.5	5.0	ug/L
1,2-Dichloroethane	2.5	5.0	ug/L
1,2-Dichloropropane	2.5	5.0	ug/L
1,3,5-Trimethylbenzene	2.5	5.0	ug/L
1,3-Dichlorobenzene	2.5	5.0	ug/L
1,3-Dichloropropane	2.5	5.0	ug/L
1,4-Dichlorobenzene	2.5	5.0	ug/L
2,2-Dichloropropane	2.5	5.0	ug/L
2-Butanone	2.5	5.0	ug/L
2-Chlorotoluene	2.5	5.0	ug/L
4-Chlorotoluene	2.5	5.0	ug/L
Acetone	2.5	5.0	ug/L
Benzene	2.5	5.0	ug/L
Bromobenzene	2.5	5.0	ug/L
Bromochloromethane	2.5	5.0	ug/L
Bromodichloromethane	2.5	5.0	ug/L
Bromoform	2.5	5.0	ug/L
Bromomethane	2.5	5.0	ug/L
Carbon tetrachloride	2.5	5.0	ug/L
Chlorobenzene	2.5	5.0	ug/L
Chloroethane	2.5	5.0	ug/L
Chloroform	2.5	5.0	ug/L
Chloromethane	2.5	5.0	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Instrument:

Analyte	LOD	LOQ	Units
cis-1,2-Dichloroethylene	2.5	5.0	ug/L
cis-1,3-Dichloropropylene	2.5	5.0	ug/L
Dibromochloromethane	2.5	5.0	ug/L
Dibromomethane	2.5	5.0	ug/L
Dichlorodifluoromethane	2.5	5.0	ug/L
Ethyl Benzene	2.5	5.0	ug/L
Hexachlorobutadiene	2.5	5.0	ug/L
Isopropylbenzene	2.5	5.0	ug/L
Methyl tert-butyl ether (MTBE)	2.5	5.0	ug/L
Methylene chloride	2.5	5.0	ug/L
Naphthalene	2.5	5.0	ug/L
n-Butylbenzene	2.5	5.0	ug/L
n-Propylbenzene	2.5	5.0	ug/L
o-Xylene	2.5	5.0	ug/L
p- & m- Xylenes	5.0	10	ug/L
p-Isopropyltoluene	2.5	5.0	ug/L
sec-Butylbenzene	2.5	5.0	ug/L
Styrene	2.5	5.0	ug/L
tert-Butylbenzene	2.5	5.0	ug/L
Tetrachloroethylene	2.5	5.0	ug/L
Toluene	2.5	5.0	ug/L
trans-1,2-Dichloroethylene	2.5	5.0	ug/L
trans-1,3-Dichloropropylene	2.5	5.0	ug/L
Trichloroethylene	2.5	5.0	ug/L
Trichlorofluoromethane	2.5	5.0	ug/L
Vinyl Chloride	2.5	5.0	ug/L
Xylenes, Total	7.5	15	ug/L
Vinyl acetate	2.5	5.0	ug/L

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KC-MW-01 1013	10/25/13 17:00	10/29/13 15:50	11/03/13 09:06	8.67	14.00	11/03/13 18:39	9.07	14.00	
KC-MW-02 1013	10/25/13 16:50	10/29/13 15:50	11/03/13 09:06	8.68	14.00	11/03/13 19:50	9.13	14.00	
KC-MW-05 1013	10/25/13 16:40	10/29/13 15:50	11/03/13 09:06	8.68	14.00	11/03/13 20:25	9.16	14.00	
KC-FD-01 1013	10/25/13 15:00	10/29/13 15:50	11/03/13 09:06	8.75	14.00	11/03/13 21:01	9.25	14.00	

FORM I

ORGANIC ANALYSIS DATA SHEET

KC-MW-01 1013

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 13J1044-01 File ID: V233090B.D
 Sampled: 10/25/13 17:00 Prepared: 11/03/13 09:06 Analyzed: 11/03/13 18:39
 Solids: Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Batch: BK30107 Sequence: Calibration: Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	5.0	U
71-55-6	1,1,1-Trichloroethane	1	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	5.0	U
79-00-5	1,1,2-Trichloroethane	1	5.0	U
75-34-3	1,1-Dichloroethane	1	6.8	
75-35-4	1,1-Dichloroethylene	1	6.6	
563-58-6	1,1-Dichloropropylene	1	5.0	U
87-61-6	1,2,3-Trichlorobenzene	1	5.0	U
96-18-4	1,2,3-Trichloropropane	1	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U
95-63-6	1,2,4-Trimethylbenzene	1	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	5.0	U
106-93-4	1,2-Dibromoethane	1	5.0	U
95-50-1	1,2-Dichlorobenzene	1	5.0	U
107-06-2	1,2-Dichloroethane	1	5.0	U
78-87-5	1,2-Dichloropropane	1	5.0	U
108-67-8	1,3,5-Trimethylbenzene	1	5.0	U
541-73-1	1,3-Dichlorobenzene	1	5.0	U
142-28-9	1,3-Dichloropropane	1	5.0	U
106-46-7	1,4-Dichlorobenzene	1	5.0	U
594-20-7	2,2-Dichloropropane	1	5.0	U
78-93-3	2-Butanone	1	5.0	U
95-49-8	2-Chlorotoluene	1	5.0	U
106-43-4	4-Chlorotoluene	1	5.0	U
67-64-1	Acetone	1	5.0	U
71-43-2	Benzene	1	5.0	U
108-86-1	Bromobenzene	1	5.0	U
74-97-5	Bromochloromethane	1	5.0	U
75-27-4	Bromodichloromethane	1	5.0	U
75-25-2	Bromoform	1	5.0	U
74-83-9	Bromomethane	1	5.0	U
56-23-5	Carbon tetrachloride	1	5.0	U
108-90-7	Chlorobenzene	1	5.0	U
75-00-3	Chloroethane	1	5.0	U
67-66-3	Chloroform	1	5.0	U
74-87-3	Chloromethane	1	5.0	U
156-59-2	cis-1,2-Dichloroethylene	25	2400	D
10061-01-5	cis-1,3-Dichloropropylene	1	5.0	U
124-48-1	Dibromochloromethane	1	5.0	U

FORM I

ORGANIC ANALYSIS DATA SHEET

KC-MW-01 1013

EPA 8260C

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 Matrix: Water Laboratory ID: 13J1044-01 File ID: V233090B.D
 Sampled: 10/25/13 17:00 Prepared: 11/03/13 09:06 Analyzed: 11/03/13 18:39
 Solids: Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Batch: BK30107 Sequence: Calibration: Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	1	5.0	U
75-71-8	Dichlorodifluoromethane	1	5.0	U
100-41-4	Ethyl Benzene	1	5.0	U
87-68-3	Hexachlorobutadiene	1	5.0	U
98-82-8	Isopropylbenzene	1	5.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	5.0	U
75-09-2	Methylene chloride	1	5.0	U
91-20-3	Naphthalene	1	5.0	U
104-51-8	n-Butylbenzene	1	5.0	U
103-65-1	n-Propylbenzene	1	5.0	U
95-47-6	o-Xylene	1	5.0	U
179601-23-1	p- & m- Xylenes	1	10	U
99-87-6	p-Isopropyltoluene	1	5.0	U
135-98-8	sec-Butylbenzene	1	5.0	U
100-42-5	Styrene	1	5.0	U
98-06-6	tert-Butylbenzene	1	5.0	U
127-18-4	Tetrachloroethylene	1	5.0	U
108-88-3	Toluene	1	5.0	U
156-60-5	trans-1,2-Dichloroethylene	1	57	
10061-02-6	trans-1,3-Dichloropropylene	1	5.0	U
79-01-6	Trichloroethylene	25	1800	D
75-69-4	Trichlorofluoromethane	1	5.0	U
75-01-4	Vinyl Chloride	1	5.0	U
1330-20-7	Xylenes, Total	1	15	U
108-05-4	Vinyl acetate	1	5.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	50.0	46.8	93.6	78 - 122	
p-Bromofluorobenzene	50.0	50.3	101	87 - 112	
Toluene-d8	50.0	49.1	98.2	91 - 110	

* Values outside of QC limits

Data File : G:\MSVOA2 V2\DAI\YDAT\V2110313\V233090B.D Vial: 17
 Acq On : 3 Nov 2013 6:39 pm Operator: SS
 Sample : 13J1044-01 Inst : MS VOA 2
 Misc : QBV2110313A pH<2 8260 ASPB Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:35 2013 Quant Results File: V2C00349.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE (ISTD)	5.72	70	386009	50.00	ppb	-0.02
35) CHLOROBENZENE-d5 (ISTD)	8.71	117	1044257	50.00	ppb	0.00
64) 1,2-DICHLOROBENZENE-d4 (IST)	11.68	152	303471	50.00	ppb	-0.02

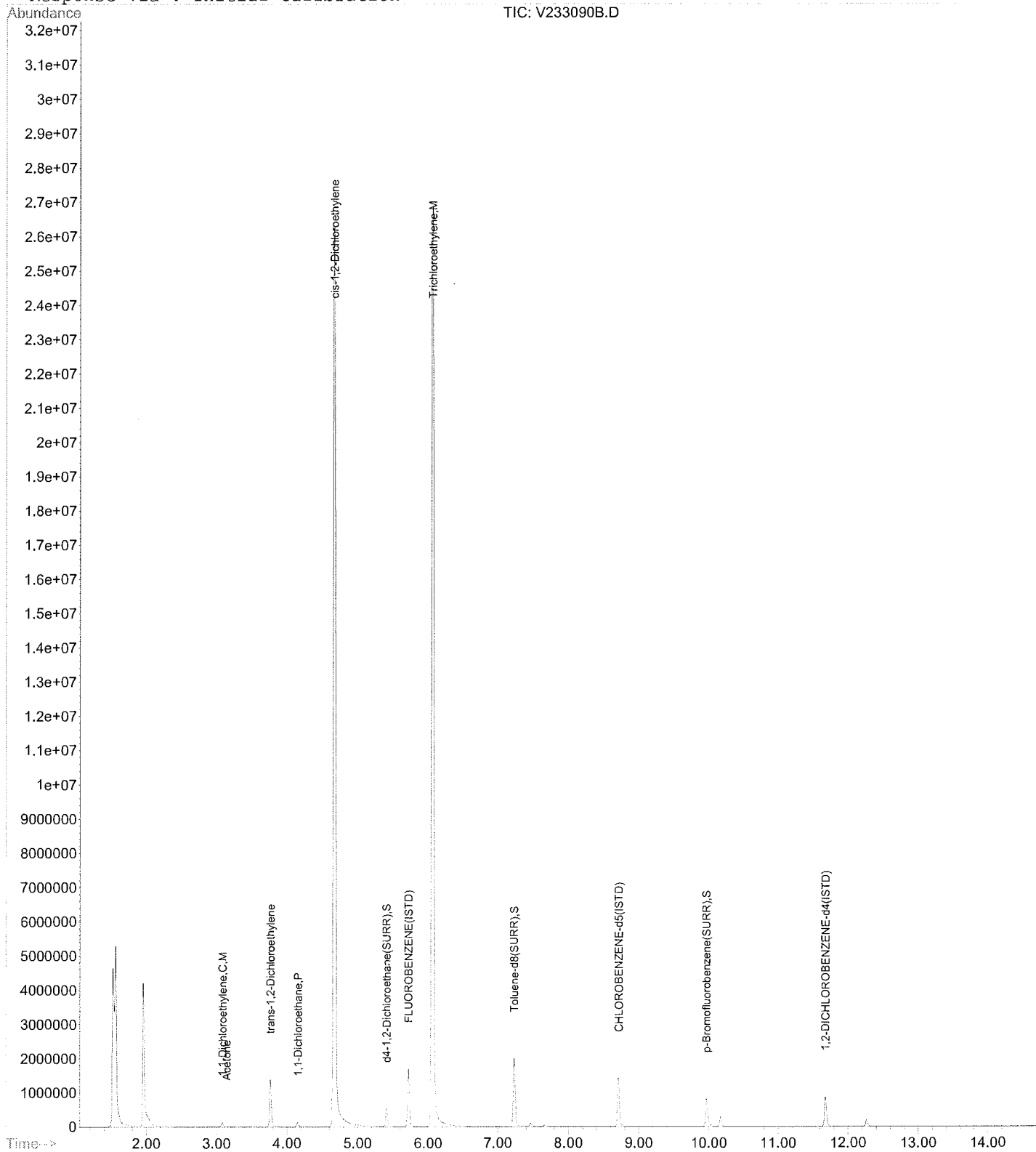
System Monitoring Compounds						
31) d4-1,2-Dichloroethane (SURR)	5.41	65	304514	46.80	ppb	-0.02
Spiked Amount	50.000	Range	67 - 128	Recovery	=	93.60%
47) Toluene-d8 (SURR)	7.23	98	1446847	49.08	ppb	-0.02
Spiked Amount	50.000	Range	87 - 113	Recovery	=	98.16%
66) p-Bromofluorobenzene (SURR)	9.98	174	294011	50.31	ppb	0.00
Spiked Amount	50.000	Range	63 - 166	Recovery	=	100.62%

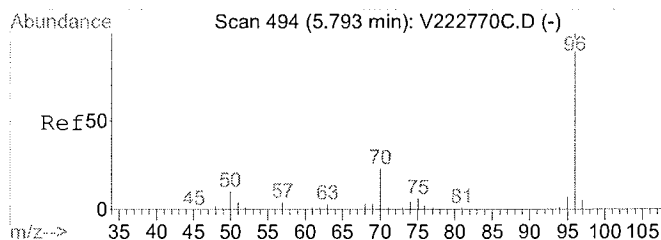
Target Compounds						Qvalue
10) 1,1-Dichloroethylene	3.08	61	75578	6.59	ppb	98
16) trans-1,2-Dichloroethylene	3.77	61	806013	56.54	ppb	98
20) Acetone	3.14	43	3977	1.91	ppb	98
21) 1,1-Dichloroethane	4.15	63	135568	6.78	ppb	99
23) cis-1,2-Dichloroethylene	4.67	96	14937058	1380.11	ppb #	96
37) Trichloroethylene	6.07	95	10855908	1204.14	ppb	96

Quantitation Report

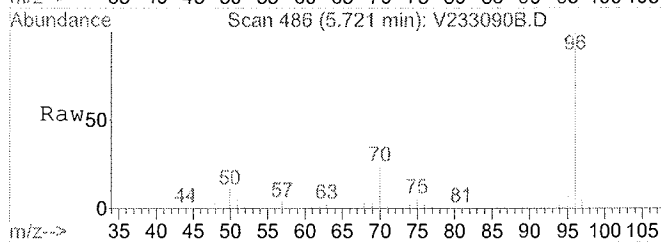
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Acq On : 3 Nov 2013 6:39 pm Operator: SS
Sample : 13J1044-01 Inst : MS VOA 2
Misc : QBV2110313A pH<2 8260 ASPB Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 4 13:35 2013 Quant Results File: V2C00349.RES

Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
Title : VOCs BY GC/MS 8240/8260
Last Update : Tue Oct 15 09:36:54 2013
Response via : Initial Calibration



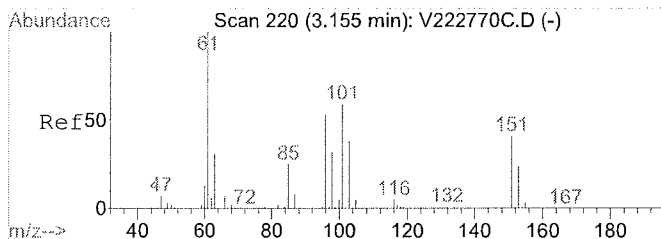
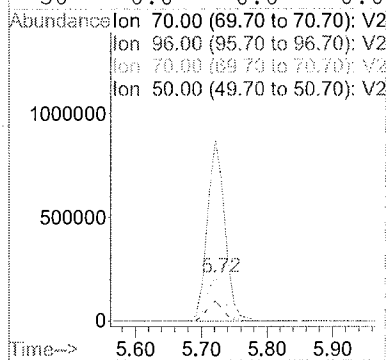
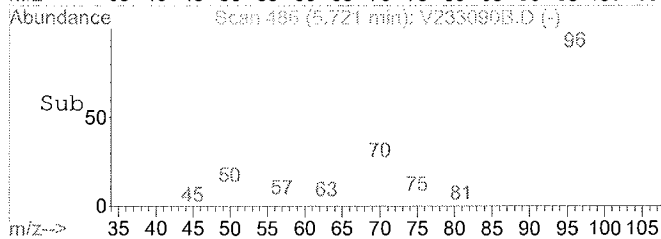


#1
FLUOROBENZENE (ISTD)
Concen: 50.00 ppb
RT: 5.72 min Scan# 486
Delta R.T. -0.02 min
Lab File: V233090B.D
Acq: 3 Nov 2013 6:39 pm

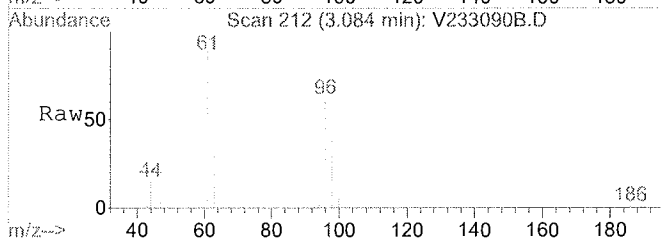


Tgt Ion: 70 Resp: 386009

Ion	Ratio	Lower	Upper
70	100		
96	422.8	359.2	538.8
70	100.0	80.0	120.0
50	0.0	0.0	0.0

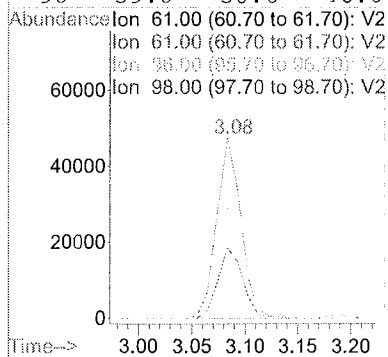
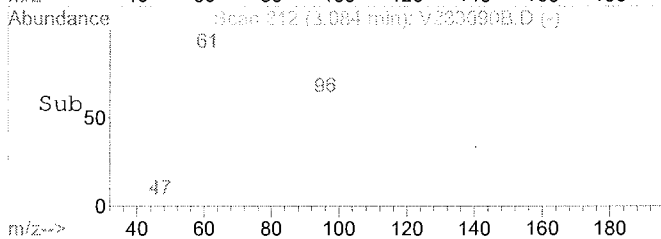


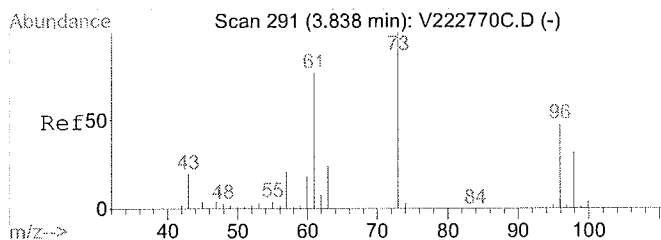
#10
1,1-Dichloroethylene
Concen: 6.59 ppb
RT: 3.08 min Scan# 212
Delta R.T. -0.01 min
Lab File: V233090B.D
Acq: 3 Nov 2013 6:39 pm



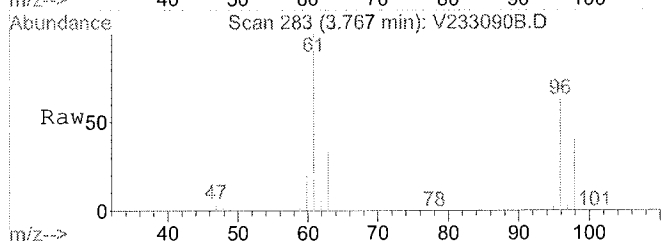
Tgt Ion: 61 Resp: 75578

Ion	Ratio	Lower	Upper
61	100		
61	100.0	80.0	120.0
96	57.6	49.0	73.6
98	39.8	30.6	46.0

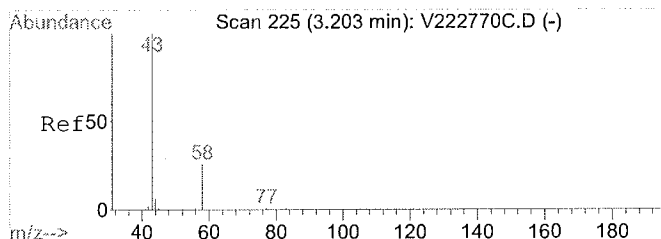
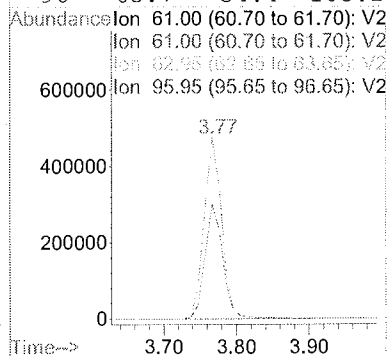
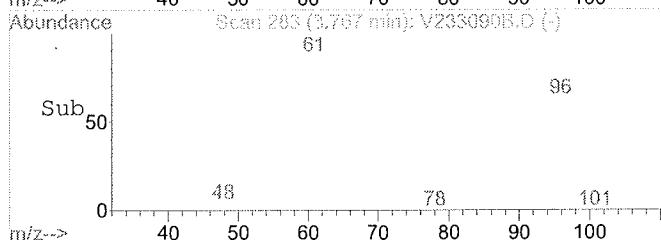




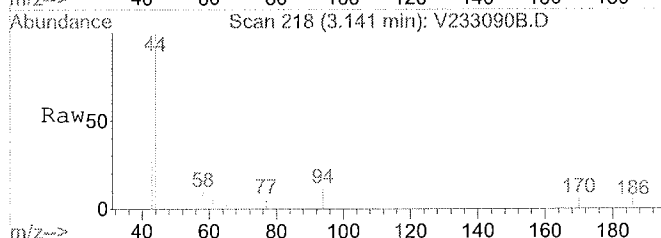
#16
trans-1,2-Dichloroethylene
Concen: 56.54 ppb
RT: 3.77 min Scan# 283
Delta R.T. -0.01 min
Lab File: V233090B.D
Acq: 3 Nov 2013 6:39 pm



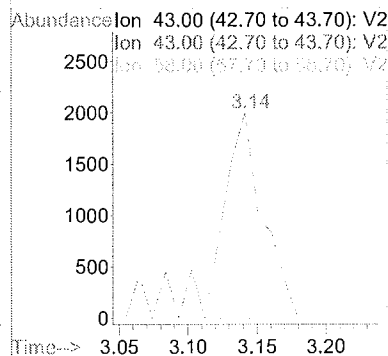
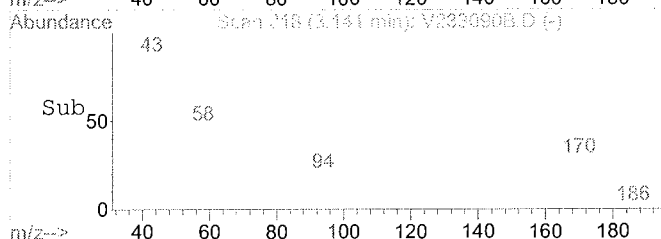
Tgt Ion: 61 Resp: 806013
Ion Ratio Lower Upper
61 100
61 100.0 50.0 150.0
63 31.4 15.5 46.5
96 63.7 34.4 103.2

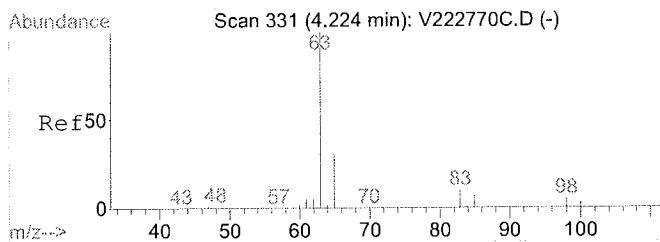


#20
Acetone
Concen: 1.91 ppb
RT: 3.14 min Scan# 218
Delta R.T. 0.00 min
Lab File: V233090B.D
Acq: 3 Nov 2013 6:39 pm



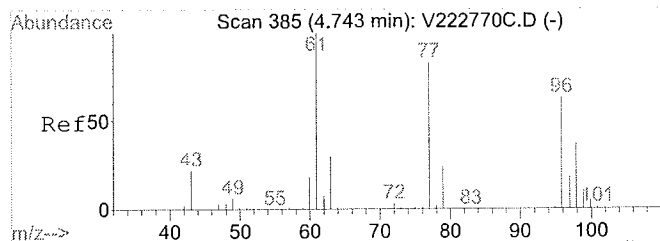
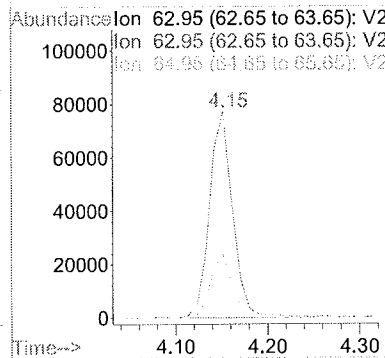
Tgt Ion: 43 Resp: 3977
Ion Ratio Lower Upper
43 100
43 100.0 0.0 200.0
58 35.6 0.0 60.6





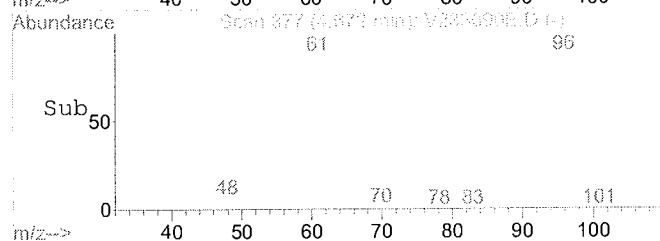
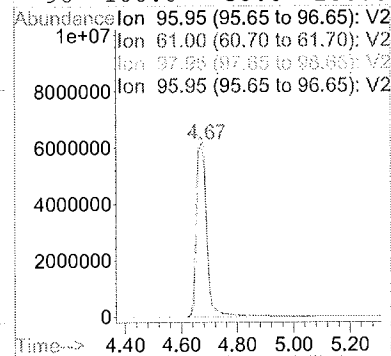
#21
1,1-Dichloroethane
Concen: 6.78 ppb
RT: 4.15 min Scan# 323
Delta R.T. -0.01 min
Lab File: V233090B.D
Acq: 3 Nov 2013 6:39 pm

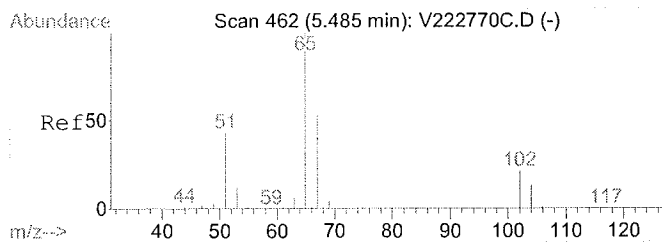
Tgt Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	29.1	25.2	37.8



#23
cis-1,2-Dichloroethylene
Concen: 1380.11 ppb
RT: 4.67 min Scan# 377
Delta R.T. -0.01 min
Lab File: V233090B.D
Acq: 3 Nov 2013 6:39 pm

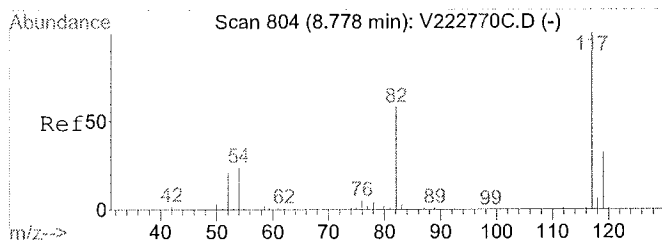
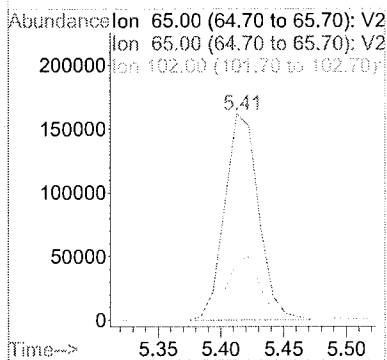
Tgt Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	0.0
98	69.9	30.8	92.4
96	100.0	50.0	150.0





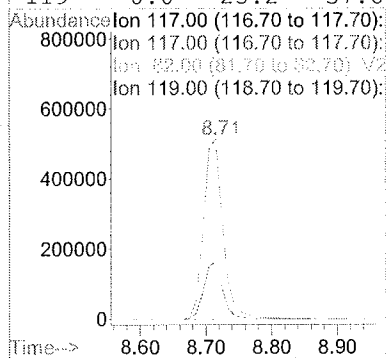
#31
d4-1,2-Dichloroethane (SURR)
Concen: N.D. ppb
RT: 5.41 min Scan# 454
Delta R.T. -0.02 min
Lab File: V233090B.D
Acq: 3 Nov 2013 6:39 pm

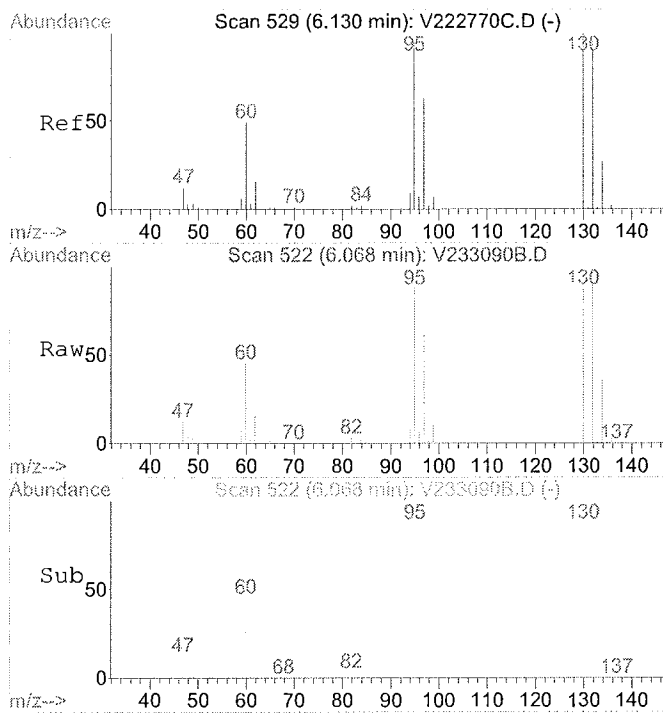
Tgt Ion: 65 Resp: 304514
Ion Ratio Lower Upper
65 100
65 100.0 80.0 120.0
102 30.1 24.2 36.4



#35
CHLOROBENZENE-d5 (ISTD)
Concen: 50.00 ppb
RT: 8.71 min Scan# 797
Delta R.T. -0.01 min
Lab File: V233090B.D
Acq: 3 Nov 2013 6:39 pm

Tgt Ion: 117 Resp: 1044257
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0
82 59.1 0.0 0.0#
119 0.0 25.2 37.8#

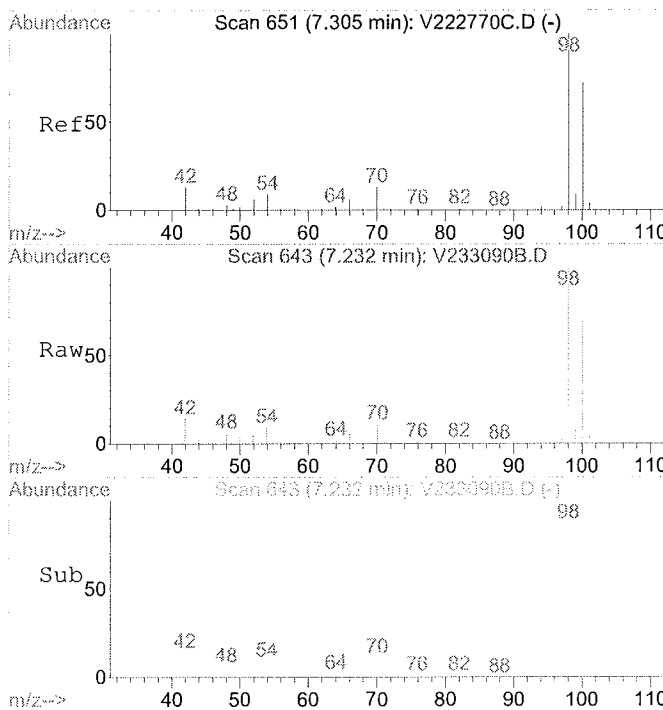
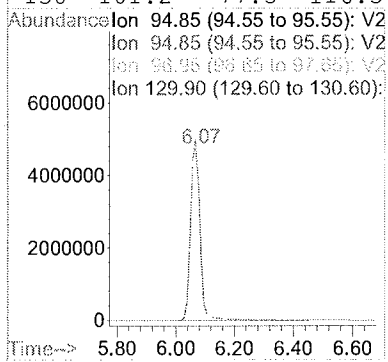




#37
 Trichloroethylene
 Concen: 1204.14 ppb
 RT: 6.07 min Scan# 522
 Delta R.T. -0.01 min
 Lab File: V233090B.D
 Acq: 3 Nov 2013 6:39 pm

Tgt Ion: 95 Resp:10855908

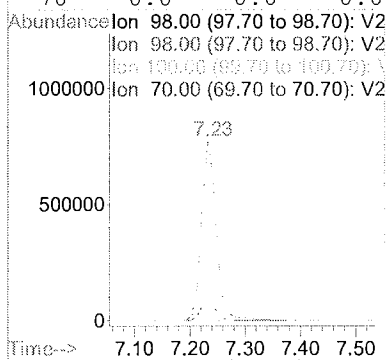
Ion	Ratio	Lower	Upper
95	100		
95	100.0	80.0	120.0
97	67.3	49.0	73.4
130	101.2	77.5	116.3

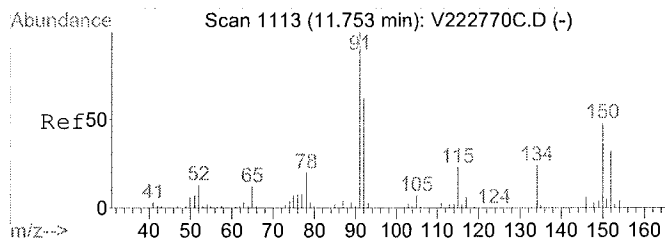


#47
 Toluene-d8 (SURR)
 Concen: Below ppb
 RT: 7.23 min Scan# 643
 Delta R.T. -0.02 min
 Lab File: V233090B.D
 Acq: 3 Nov 2013 6:39 pm

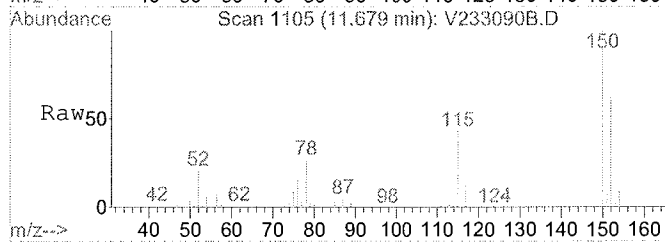
Tgt Ion: 98 Resp: 1446847

Ion	Ratio	Lower	Upper
98	100		
98	100.0	80.0	120.0
100	71.6	57.3	85.9
70	0.0	0.0	0.0



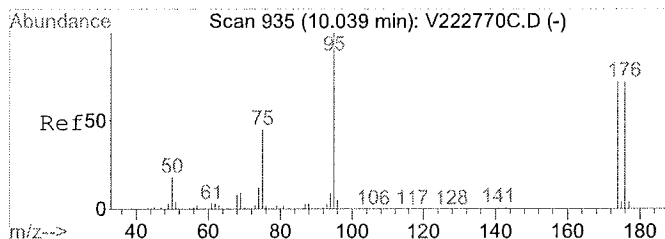
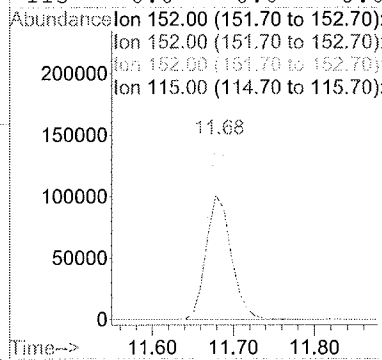
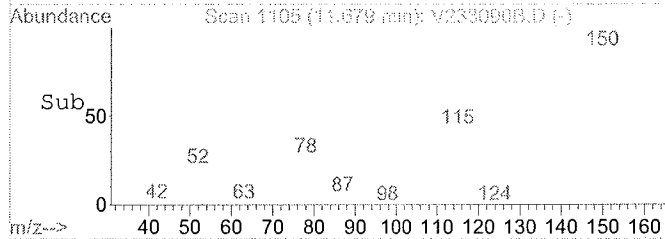


#64
1,2-DICHLORO BENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.68 min Scan# 1105
Delta R.T. -0.02 min
Lab File: V233090B.D
Acq: 3 Nov 2013 6:39 pm

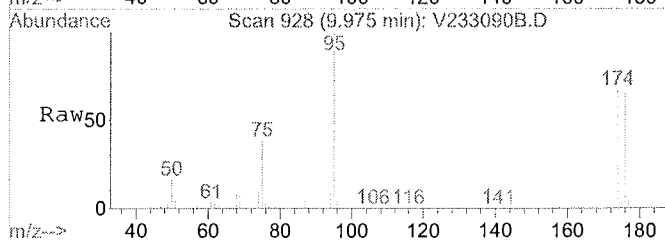


Tgt Ion:152 Resp: 303471

Ion	Ratio	Lower	Upper
152	100		
152	100.0	80.0	120.0
152	100.0	80.0	120.0
115	0.0	0.0	0.0

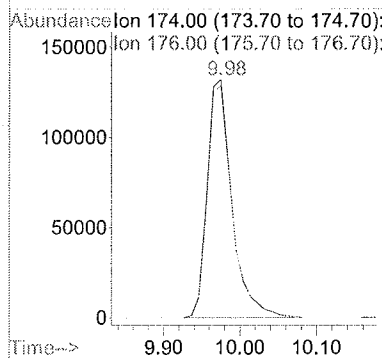
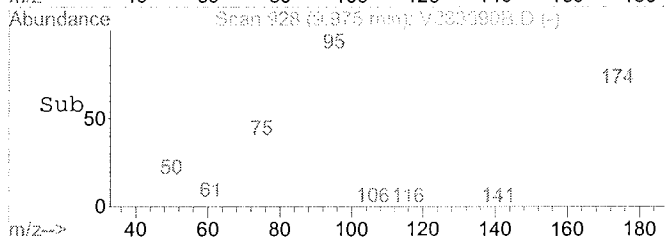


#66
p-Bromofluorobenzene (SURR)
Concen: N.D. ppb
RT: 9.98 min Scan# 928
Delta R.T. -0.01 min
Lab File: V233090B.D
Acq: 3 Nov 2013 6:39 pm



Tgt Ion:174 Resp: 294011

Ion	Ratio	Lower	Upper
174	100		
176	97.3	75.0	112.4



Data File : G:\MSVOA2 V2\DAI\YDAT\V2110613\V233180W.D Vial: 7
 Acq On : 6 Nov 2013 11:18 am Operator: SS
 Sample : 1J1044-01RE1 Inst : MS VOA 2
 Misc : QBV2110613A 8260 ASPB RE 2ML/50ML Multiplr: 25.00
 MS Integration Params: rteint.p
 Quant Time: Nov 6 12:11 2013 Quant Results File: V2C00349.RES

Quant Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE(ISTD)	5.70	70	365311	50.00	ppb	-0.04
35) CHLOROBENZENE-d5(ISTD)	8.70	117	985756	50.00	ppb	-0.03
64) 1,2-DICHLOROBENZENE-d4(IST	11.67	152	304178	50.00	ppb	-0.03

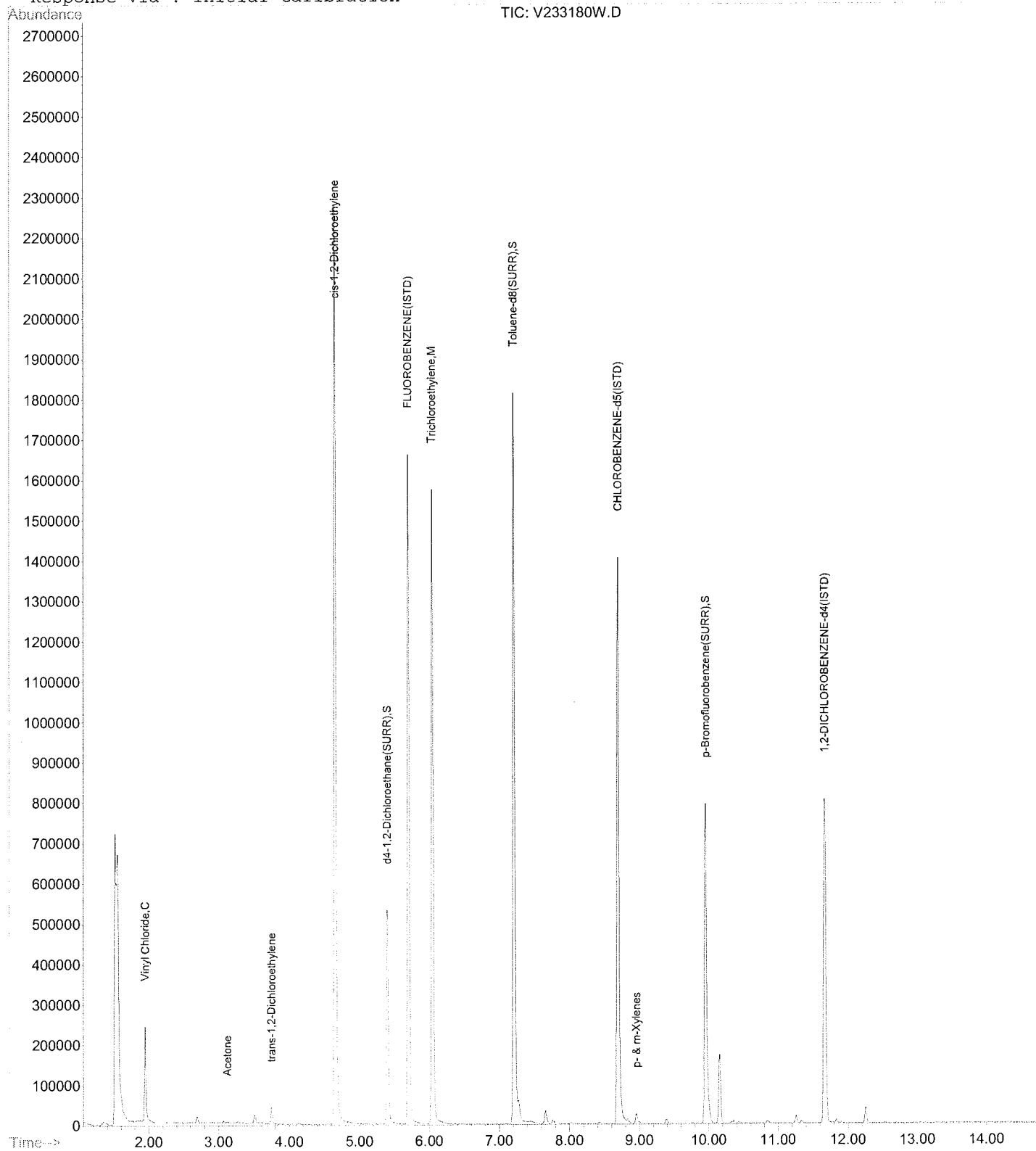
System Monitoring Compounds						
31) d4-1,2-Dichloroethane(SURR	5.39	65	323750	52.57	ppb	-0.04
Spiked Amount	50.000	Range	67 - 128	Recovery	=	105.14%
47) Toluene-d8(SURR)	7.21	98	1375743	49.44	ppb	-0.04
Spiked Amount	50.000	Range	87 - 113	Recovery	=	98.88%
66) p-Bromofluorobenzene(SURR)	9.96	174	291181	49.71	ppb	-0.03
Spiked Amount	50.000	Range	63 - 166	Recovery	=	99.42%

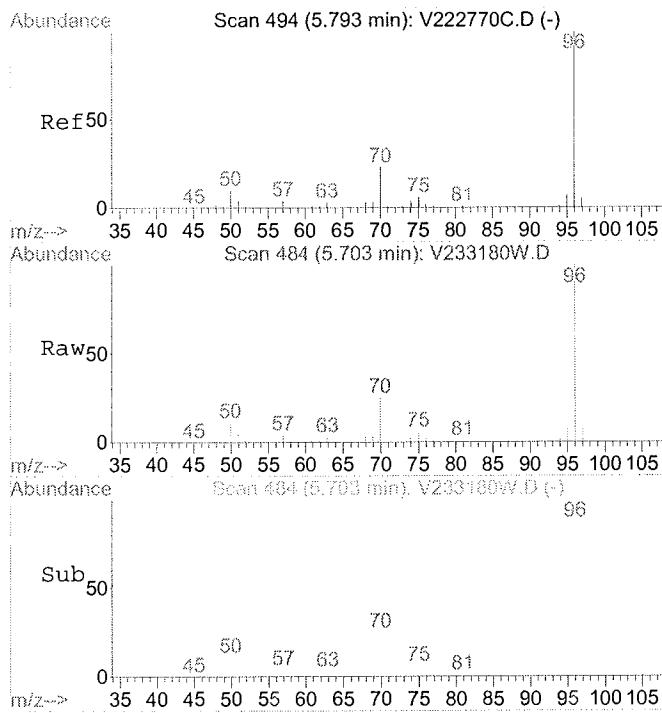
Target Compounds						Qvalue
4) Vinyl Chloride	1.95	62	217157	17.33	ppb	99
16) trans-1,2-Dichloroethylene	3.75	61	25942	1.92	ppb	97
20) Acetone	3.12	43	3004	1.53	ppb	99
23) cis-1,2-Dichloroethylene	4.65	96	977408	95.42	ppb	# 99
37) Trichloroethylene	6.04	95	612116	71.93	ppb	99
58) p- & m-Xylenes	8.96	91	22461	0.83	ppb	98

Quantitation Report

Data File : G:\MSVOA2 V2\AILYDAT\V2110613\V233180W.D Vial: 7
Acq On : 6 Nov 2013 11:18 am Operator: SS
Sample : 1J1044-01RE1 Inst : MS VOA 2
Misc : QBV2110613A 8260 ASPB RE 2ML/50ML Multiplr: 25.00
MS Integration Params: rteint.p
Quant Time: Nov 6 12:11 2013 Quant Results File: V2C00349.RES

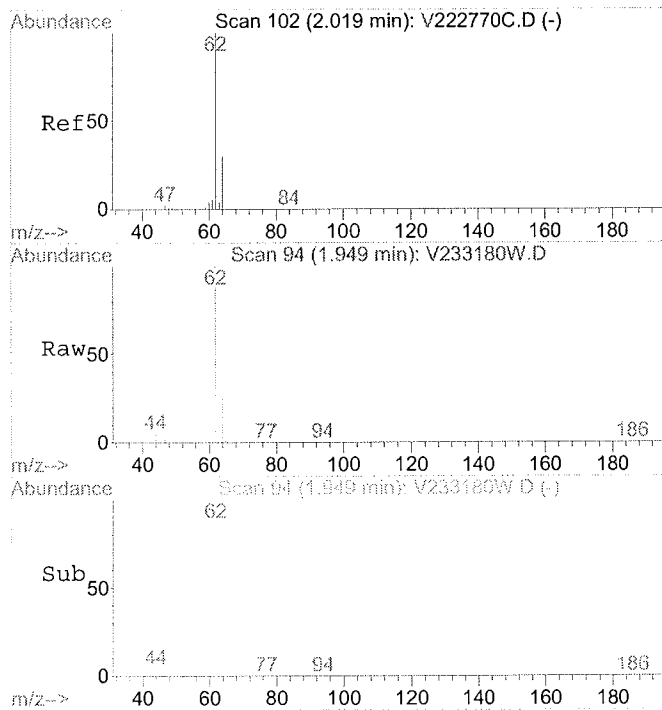
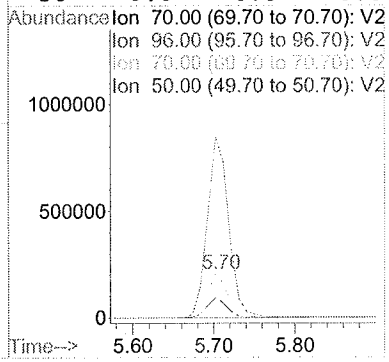
Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
Title : VOCs BY GC/MS 8240/8260
Last Update : Tue Oct 15 09:36:54 2013
Response via : Initial Calibration





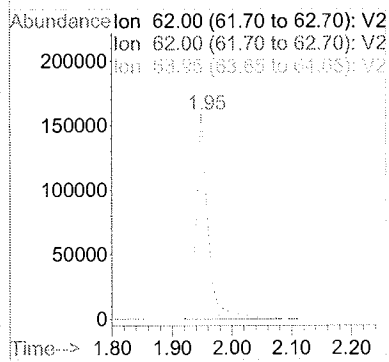
#1
FLUOROBENZENE (ISTD)
Concen: 50.00 ppb
RT: 5.70 min Scan# 484
Delta R.T. -0.04 min
Lab File: V233180W.D
Acq: 6 Nov 2013 11:18 am

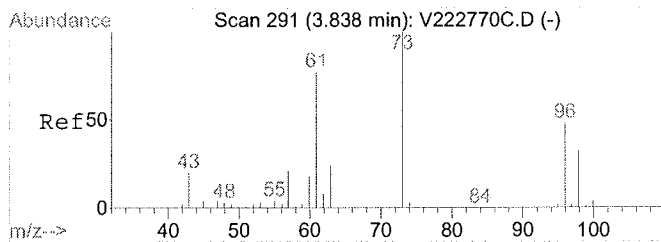
Tgt Ion: 70 Resp: 365311
Ion Ratio Lower Upper
70 100
96 433.1 359.2 538.8
70 100.0 80.0 120.0
50 0.0 0.0 0.0



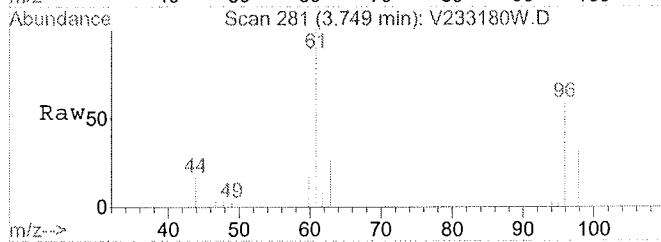
#4
Vinyl Chloride
Concen: 17.33 ppb
RT: 1.95 min Scan# 94
Delta R.T. -0.02 min
Lab File: V233180W.D
Acq: 6 Nov 2013 11:18 am

Tgt Ion: 62 Resp: 217157
Ion Ratio Lower Upper
62 100
62 100.0 80.0 120.0
64 29.5 24.8 37.2



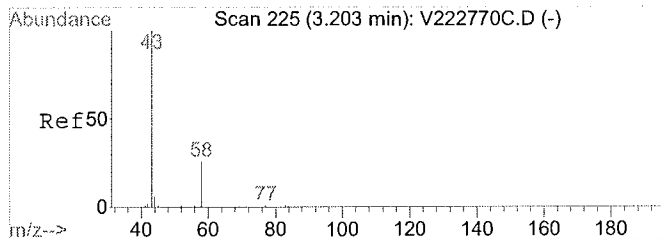
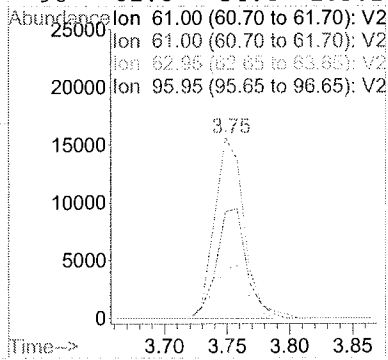
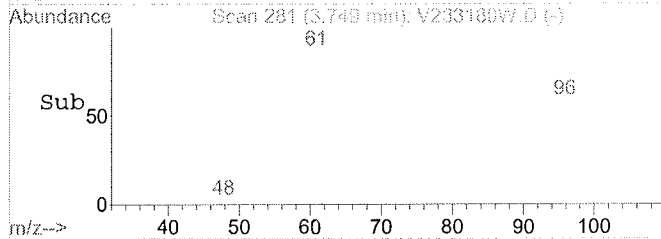


#16
trans-1,2-Dichloroethylene
Concen: 1.92 ppb
RT: 3.75 min Scan# 281
Delta R.T. -0.03 min
Lab File: V233180W.D
Acq: 6 Nov 2013 11:18 am

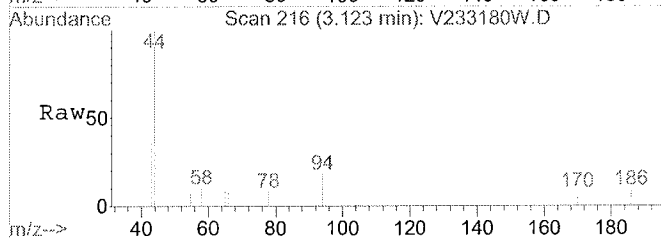


Tgt Ion: 61 Resp: 25942

Ion	Ratio	Lower	Upper
61	100		
61	100.0	50.0	150.0
63	31.8	15.5	46.5
96	61.6	34.4	103.2

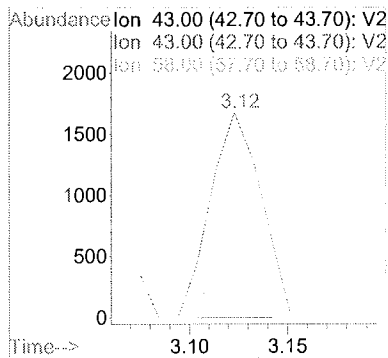
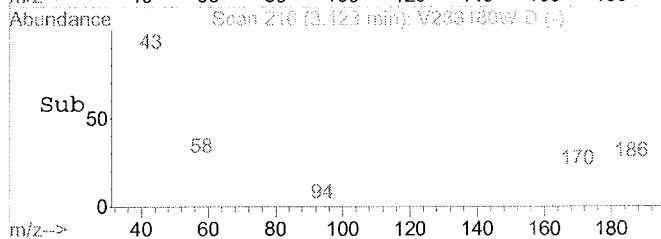


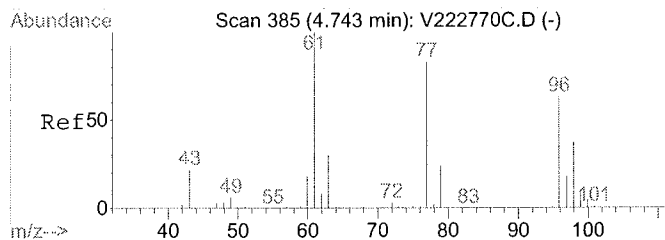
#20
Acetone
Concen: 1.53 ppb
RT: 3.12 min Scan# 216
Delta R.T. -0.02 min
Lab File: V233180W.D
Acq: 6 Nov 2013 11:18 am



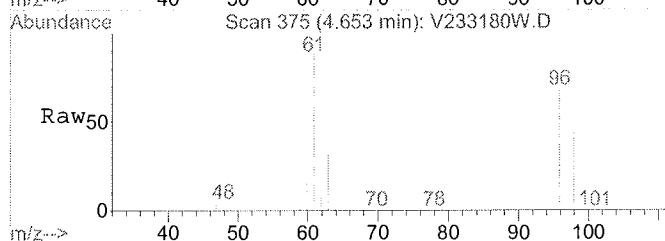
Tgt Ion: 43 Resp: 3004

Ion	Ratio	Lower	Upper
43	100		
43	100.0	0.0	200.0
58	27.5	0.0	60.6

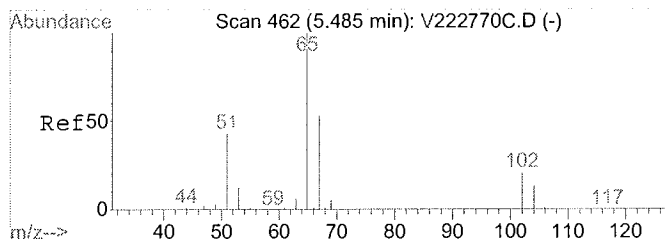
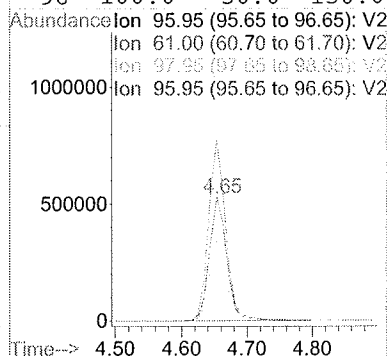
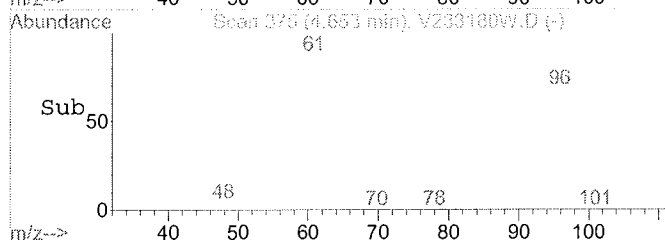




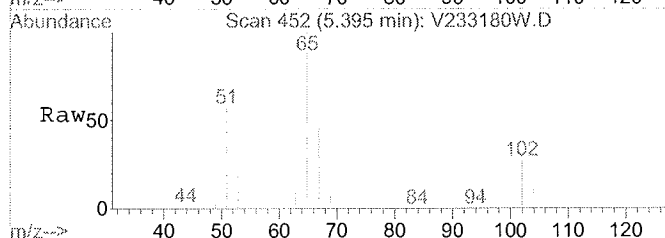
#23
cis-1,2-Dichloroethylene
Concen: 95.42 ppb
RT: 4.65 min Scan# 375
Delta R.T. -0.03 min
Lab File: V233180W.D
Acq: 6 Nov 2013 11:18 am



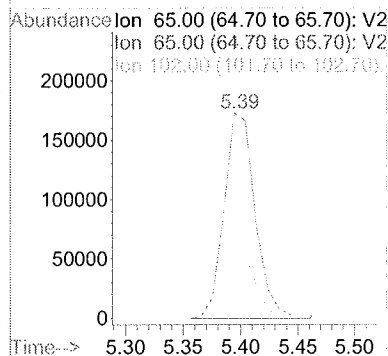
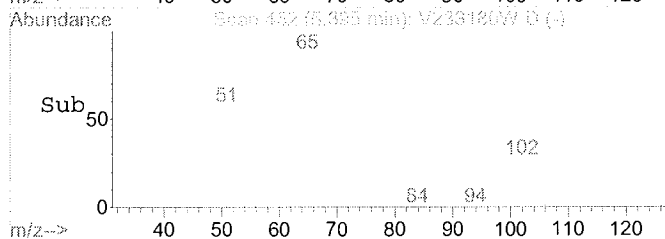
Tgt Ion: 96 Resp: 977408
Ion Ratio Lower Upper
96 100
61 0.0 0.0 0.0
98 64.1 30.8 92.4
96 100.0 50.0 150.0

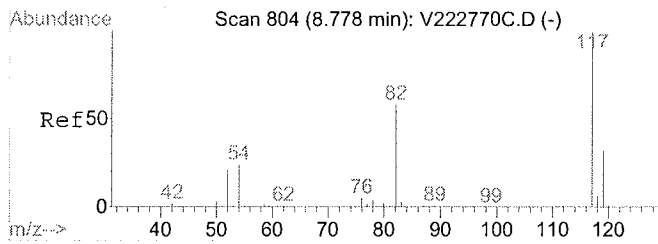


#31
d4-1,2-Dichloroethane (SURR)
Concen: N.D. ppb
RT: 5.39 min Scan# 452
Delta R.T. -0.04 min
Lab File: V233180W.D
Acq: 6 Nov 2013 11:18 am

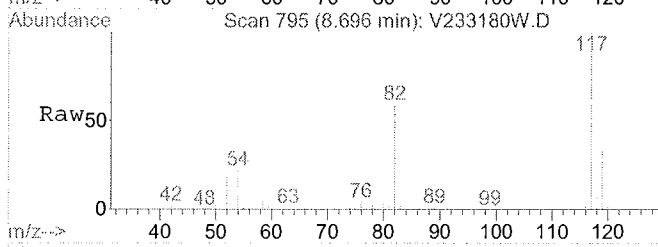


Tgt Ion: 65 Resp: 323750
Ion Ratio Lower Upper
65 100
65 100.0 80.0 120.0
102 28.8 24.2 36.4

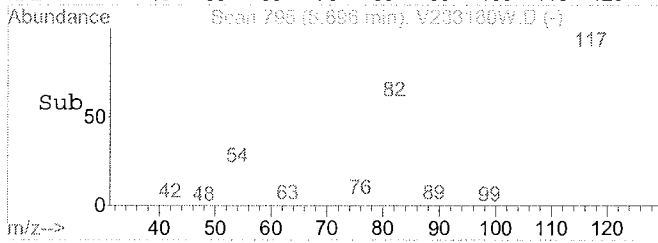




#35
 CHLOROBENZENE-d5 (ISTD)
 Concen: 50.00 ppb
 RT: 8.70 min Scan# 795
 Delta R.T. -0.03 min
 Lab File: V233180W.D
 Acq: 6 Nov 2013 11:18 am

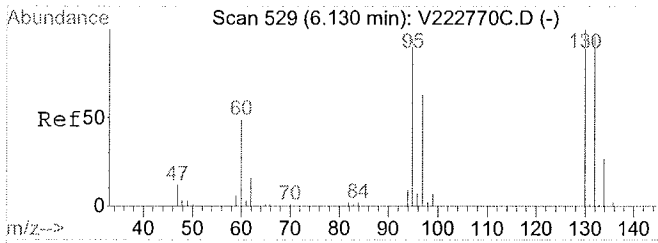
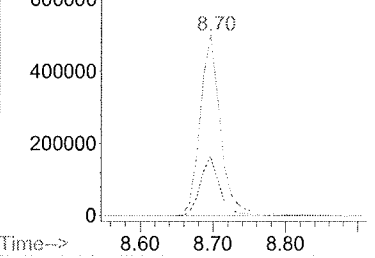


Tgt Ion: 117 Resp: 985756
 Ion Ratio Lower Upper
 117 100
 117 100.0 80.0 120.0
 82 0.0 0.0 0.0
 119 31.1 25.2 37.8

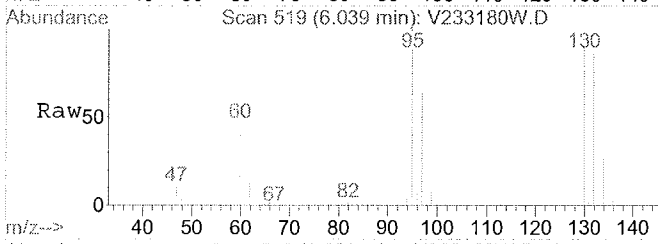


Abundance

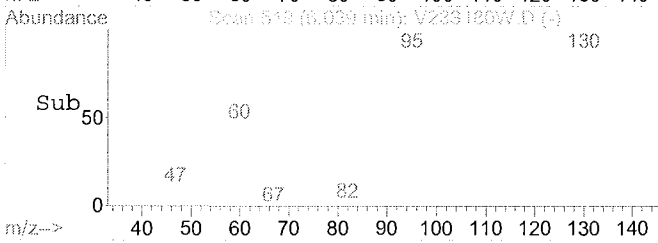
Ion 117.00 (116.70 to 117.70):
 Ion 117.00 (116.70 to 117.70):
 Ion 82.00 (81.70 to 82.30): V2
 Ion 119.00 (118.70 to 119.70):



#37
 Trichloroethylene
 Concen: 71.93 ppb
 RT: 6.04 min Scan# 519
 Delta R.T. -0.04 min
 Lab File: V233180W.D
 Acq: 6 Nov 2013 11:18 am

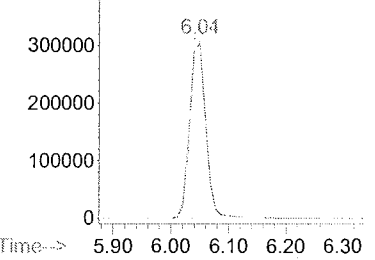


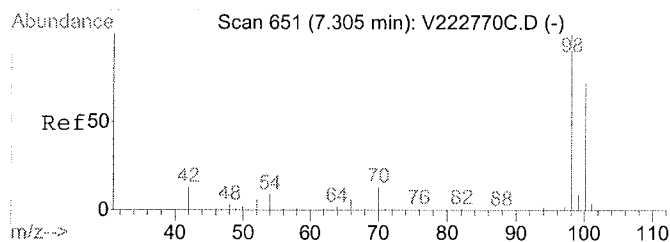
Tgt Ion: 95 Resp: 612116
 Ion Ratio Lower Upper
 95 100
 95 100.0 80.0 120.0
 97 63.5 49.0 73.4
 130 95.3 77.5 116.3



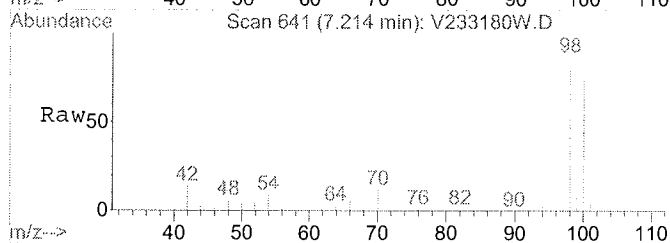
Abundance

Ion 94.85 (94.55 to 95.55): V2
 Ion 94.85 (94.55 to 95.55): V2
 Ion 96.85 (96.55 to 97.15): V2
 Ion 129.90 (129.60 to 130.60):

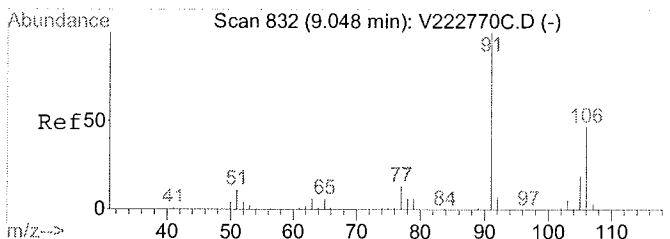
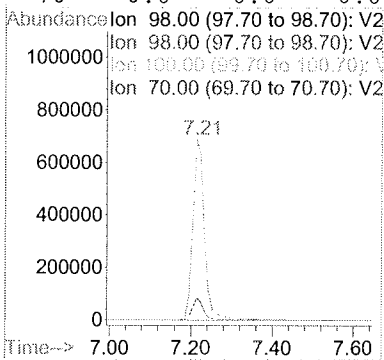
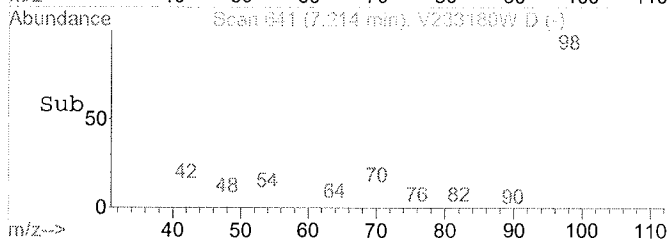




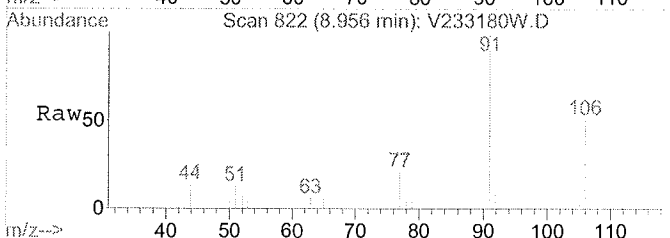
#47
Toluene-d8 (SURR)
Concen: Below ppb
RT: 7.21 min Scan# 641
Delta R.T. -0.04 min
Lab File: V233180W.D
Acq: 6 Nov 2013 11:18 am



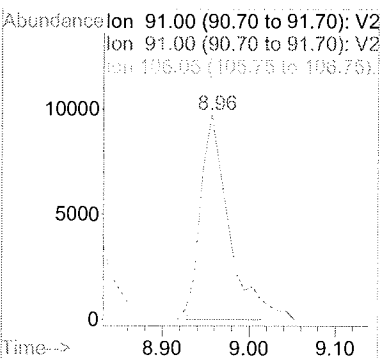
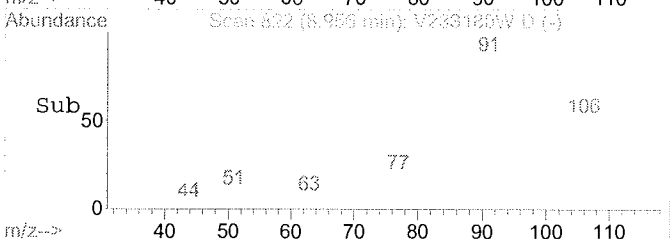
Tgt Ion: 98 Resp: 1375743
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 71.0 57.3 85.9
70 0.0 0.0 0.0

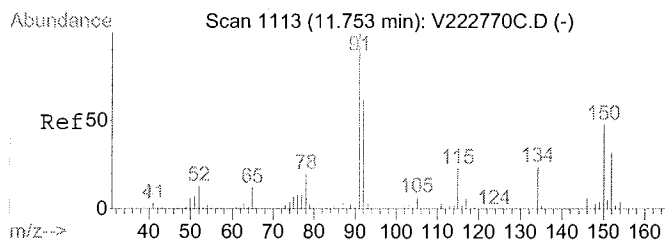


#58
p- & m-Xylenes
Concen: 0.83 ppb
RT: 8.96 min Scan# 822
Delta R.T. -0.04 min
Lab File: V233180W.D
Acq: 6 Nov 2013 11:18 am

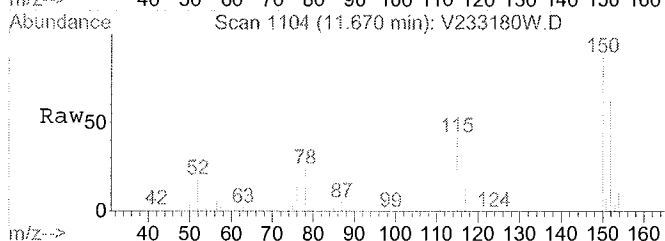


Tgt Ion: 91 Resp: 22461
Ion Ratio Lower Upper
91 100
91 100.0 80.0 120.0
106 45.5 39.6 59.4

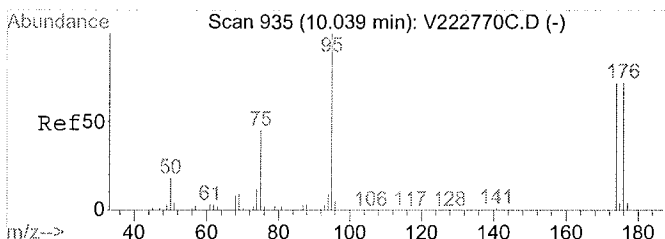
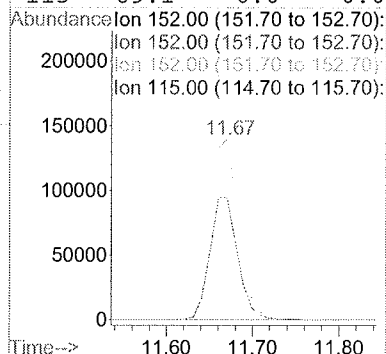
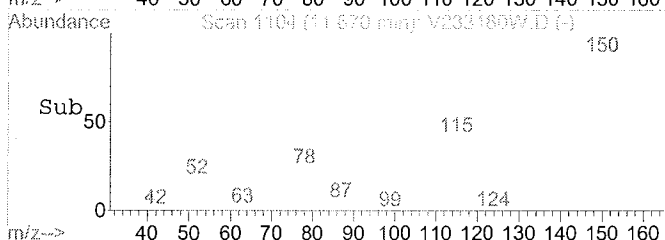




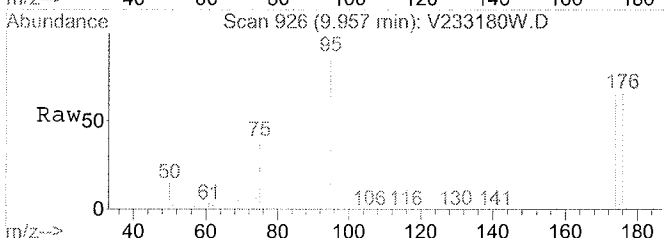
#64
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.67 min Scan# 1104
Delta R.T. -0.03 min
Lab File: V233180W.D
Acq: 6 Nov 2013 11:18 am



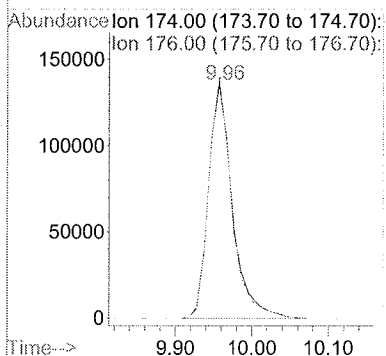
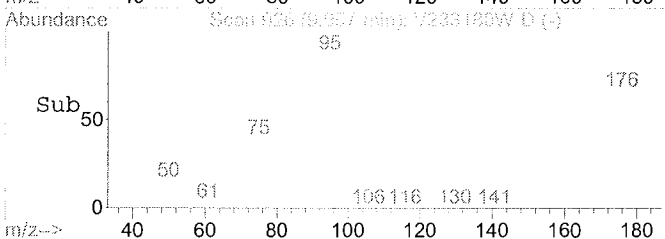
Tgt Ion:152 Resp: 304178
Ion Ratio Lower Upper
152 100
152 100.0 80.0 120.0
152 100.0 80.0 120.0
115 69.1 0.0 0.0#



#66
p-Bromofluorobenzene (SURR)
Concen: N.D. ppb
RT: 9.96 min Scan# 926
Delta R.T. -0.03 min
Lab File: V233180W.D
Acq: 6 Nov 2013 11:18 am



Tgt Ion:174 Resp: 291181
Ion Ratio Lower Upper
174 100
176 101.8 75.0 112.4



FORM I

ORGANIC ANALYSIS DATA SHEET

KC-MW-02 1013

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 13J1044-02 File ID: V233092B.D
 Sampled: 10/25/13 16:50 Prepared: 11/03/13 09:06 Analyzed: 11/03/13 19:50
 Solids: Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Batch: BK30107 Sequence: Calibration: Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	5.0	U
71-55-6	1,1,1-Trichloroethane	1	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	5.0	U
79-00-5	1,1,2-Trichloroethane	1	5.0	U
75-34-3	1,1-Dichloroethane	1	5.0	U
75-35-4	1,1-Dichloroethylene	1	5.0	U
563-58-6	1,1-Dichloropropylene	1	5.0	U
87-61-6	1,2,3-Trichlorobenzene	1	5.0	U
96-18-4	1,2,3-Trichloropropane	1	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U
95-63-6	1,2,4-Trimethylbenzene	1	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	5.0	U
106-93-4	1,2-Dibromoethane	1	5.0	U
95-50-1	1,2-Dichlorobenzene	1	5.0	U
107-06-2	1,2-Dichloroethane	1	5.0	U
78-87-5	1,2-Dichloropropane	1	5.0	U
108-67-8	1,3,5-Trimethylbenzene	1	5.0	U
541-73-1	1,3-Dichlorobenzene	1	5.0	U
142-28-9	1,3-Dichloropropane	1	5.0	U
106-46-7	1,4-Dichlorobenzene	1	5.0	U
594-20-7	2,2-Dichloropropane	1	5.0	U
78-93-3	2-Butanone	1	5.0	U
95-49-8	2-Chlorotoluene	1	5.0	U
106-43-4	4-Chlorotoluene	1	5.0	U
67-64-1	Acetone	1	5.7	
71-43-2	Benzene	1	5.0	U
108-86-1	Bromobenzene	1	5.0	U
74-97-5	Bromochloromethane	1	5.0	U
75-27-4	Bromodichloromethane	1	5.0	U
75-25-2	Bromoform	1	5.0	U
74-83-9	Bromomethane	1	5.0	U
56-23-5	Carbon tetrachloride	1	5.0	U
108-90-7	Chlorobenzene	1	5.0	U
75-00-3	Chloroethane	1	5.0	U
67-66-3	Chloroform	1	5.0	U
74-87-3	Chloromethane	1	5.0	U
156-59-2	cis-1,2-Dichloroethylene	1	18	
10061-01-5	cis-1,3-Dichloropropylene	1	5.0	U
124-48-1	Dibromochloromethane	1	5.0	U

FORM I

ORGANIC ANALYSIS DATA SHEET

KC-MW-02 1013

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 13J1044-02 File ID: V233092B.D
 Sampled: 10/25/13 16:50 Prepared: 11/03/13 09:06 Analyzed: 11/03/13 19:50
 Solids: Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Batch: BK30107 Sequence: Calibration: Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	1	5.0	U
75-71-8	Dichlorodifluoromethane	1	5.0	U
100-41-4	Ethyl Benzene	1	5.0	U
87-68-3	Hexachlorobutadiene	1	5.0	U
98-82-8	Isopropylbenzene	1	5.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	5.0	U
75-09-2	Methylene chloride	1	5.0	U
91-20-3	Naphthalene	1	5.0	U
104-51-8	n-Butylbenzene	1	5.0	U
103-65-1	n-Propylbenzene	1	5.0	U
95-47-6	o-Xylene	1	5.0	U
179601-23-1	p- & m- Xylenes	1	10	U
99-87-6	p-Isopropyltoluene	1	5.0	U
135-98-8	sec-Butylbenzene	1	5.0	U
100-42-5	Styrene	1	5.0	U
98-06-6	tert-Butylbenzene	1	5.0	U
127-18-4	Tetrachloroethylene	1	5.0	U
108-88-3	Toluene	1	5.0	U
156-60-5	trans-1,2-Dichloroethylene	1	5.0	U
10061-02-6	trans-1,3-Dichloropropylene	1	5.0	U
79-01-6	Trichloroethylene	1	5.0	U
75-69-4	Trichlorofluoromethane	1	5.0	U
75-01-4	Vinyl Chloride	1	5.0	U
1330-20-7	Xylenes, Total	1	15	U
108-05-4	Vinyl acetate	1	5.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	50.0	48.5	96.9	78 - 122	
p-Bromofluorobenzene	50.0	47.9	95.8	87 - 112	
Toluene-d8	50.0	49.1	98.3	91 - 110	

* Values outside of QC limits

Data File : G:\MSVOA2 V2\DAI\DAT\2110313\233092B.D Vial: 19
 Acq On : 3 Nov 2013 7:50 pm Operator: SS
 Sample : 13J1044-02 Inst : MS VOA 2
 Misc : QBV2110313A pH<2 8260 ASPB Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:38 2013 Quant Results File: V2C00349.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE (ISTD)	5.72	70	370564	50.00	ppb	-0.02
35) CHLOROBENZENE-d5 (ISTD)	8.71	117	963810	50.00	ppb	-0.02
64) 1,2-DICHLOROBENZENE-d4 (ISTD)	11.68	152	306456	50.00	ppb	-0.02

System Monitoring Compounds

31) d4-1,2-Dichloroethane (SURR)	5.41	65	302788	48.47	ppb	-0.02
Spiked Amount	50.000	Range	67 - 128	Recovery	=	96.94%
47) Toluene-d8 (SURR)	7.23	98	1336726	49.13	ppb	-0.02
Spiked Amount	50.000	Range	87 - 113	Recovery	=	98.26%
66) p-Bromofluorobenzene (SURR)	9.97	174	282625	47.89	ppb	-0.02
Spiked Amount	50.000	Range	63 - 166	Recovery	=	95.78%

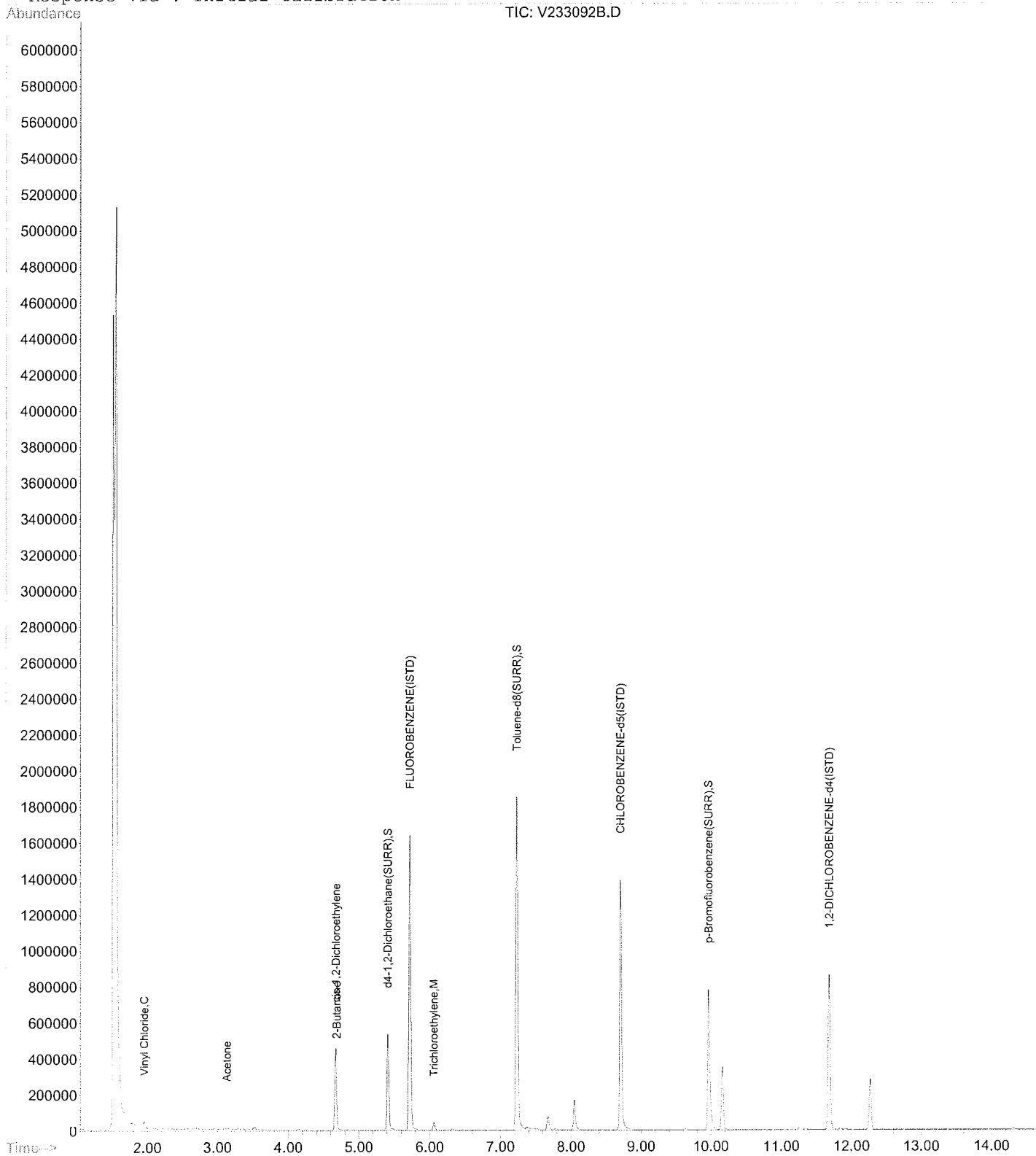
Target Compounds

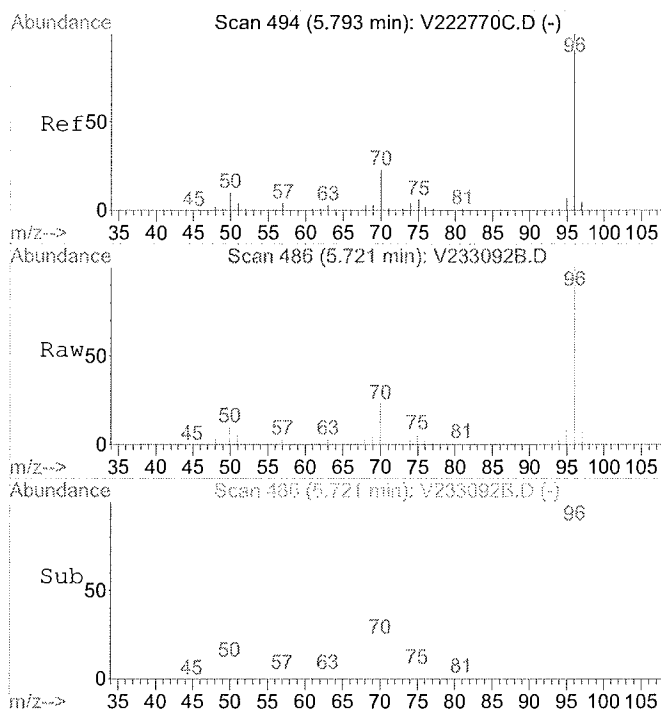
						Qvalue
4) Vinyl Chloride	1.96	62	30864	2.43	ppb	# 88
20) Acetone	3.14	43	11436	5.73	ppb	100
23) cis-1,2-Dichloroethylene	4.67	96	184270	17.74	ppb	# 99
24) 2-Butanone	4.69	43	5729	1.47	ppb	99
37) Trichloroethylene	6.06	95	15765	1.89	ppb	95

Quantitation Report

Data File : G:\MSVOA2 V2\AILYDAT\V2110313\V233092B.D Vial: 19
 Acq On : 3 Nov 2013 7:50 pm Operator: SS
 Sample : 13J1044-02 Inst : MS VOA 2
 Misc : QBV2110313A pH<2 8260 ASPB Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:38 2013 Quant Results File: V2C00349.RES

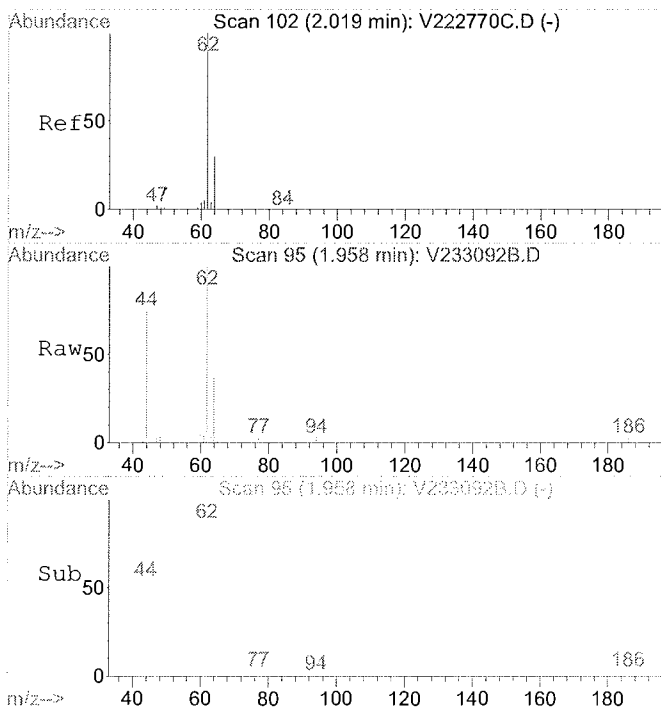
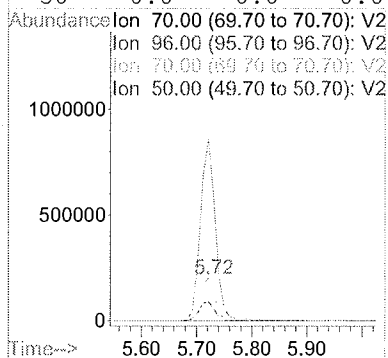
Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration





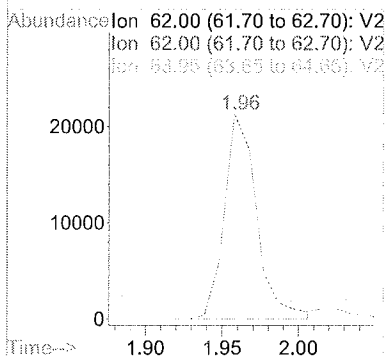
#1
 FLUOROBENZENE (ISTD)
 Concen: 50.00 ppb
 RT: 5.72 min Scan# 486
 Delta R.T. -0.02 min
 Lab File: V233092B.D
 Acq: 3 Nov 2013 7:50 pm

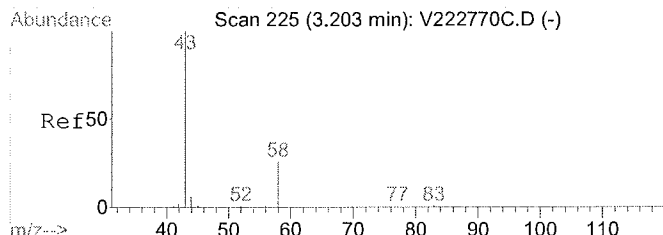
Tgt Ion: 70 Resp: 370564
 Ion Ratio Lower Upper
 70 100
 96 432.9 359.2 538.8
 70 100.0 80.0 120.0
 50 0.0 0.0 0.0



#4
 Vinyl Chloride
 Concen: 2.43 ppb
 RT: 1.96 min Scan# 95
 Delta R.T. -0.01 min
 Lab File: V233092B.D
 Acq: 3 Nov 2013 7:50 pm

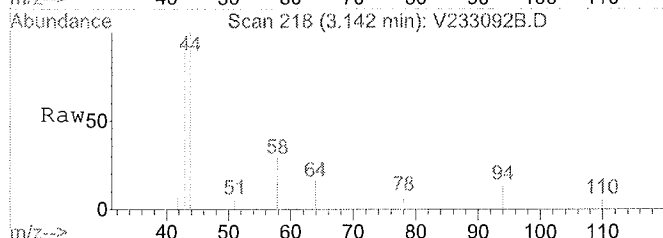
Tgt Ion: 62 Resp: 30864
 Ion Ratio Lower Upper
 62 100
 62 100.0 80.0 120.0
 64 59.1 24.8 37.2#



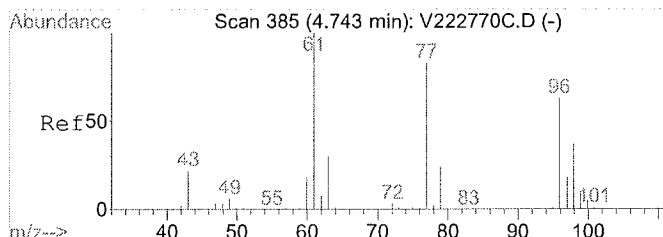
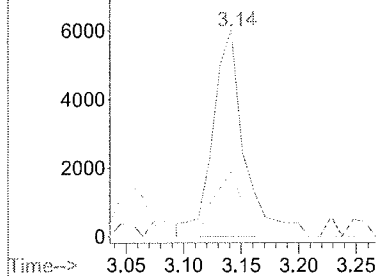
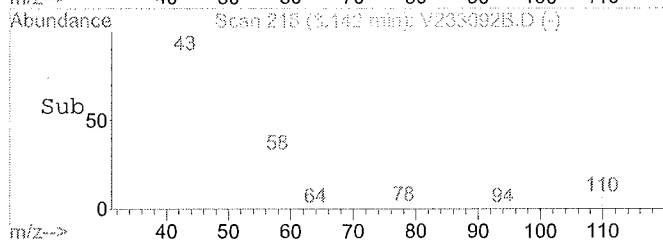


#20
Acetone
Concen: 5.73 ppb
RT: 3.14 min Scan# 218
Delta R.T. 0.00 min
Lab File: V233092B.D
Acq: 3 Nov 2013 7:50 pm

Tgt Ion: 43 Resp: 11436
Ion Ratio Lower Upper
43 100
43 100.0 0.0 200.0
58 31.3 0.0 60.6

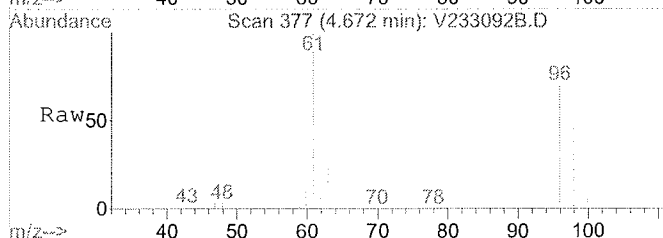


Abundance Ion 43.00 (42.70 to 43.70): V2
8000 Ion 43.00 (42.70 to 43.70): V2
Ion 58.00 (57.70 to 58.30): V2

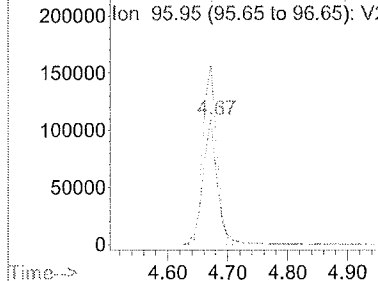
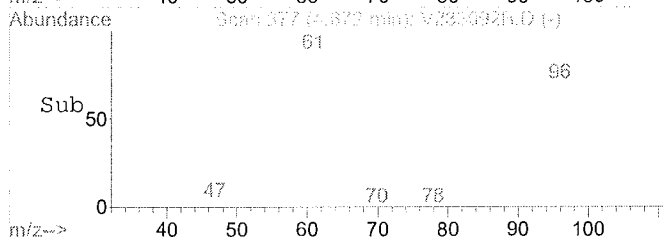


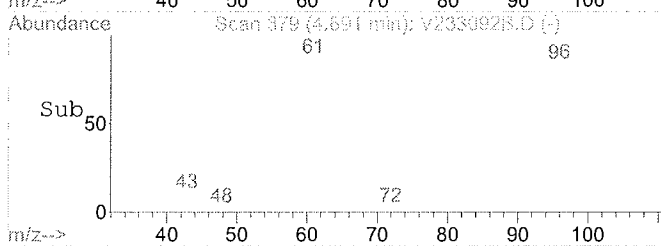
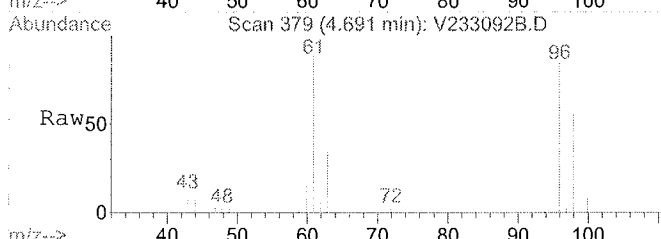
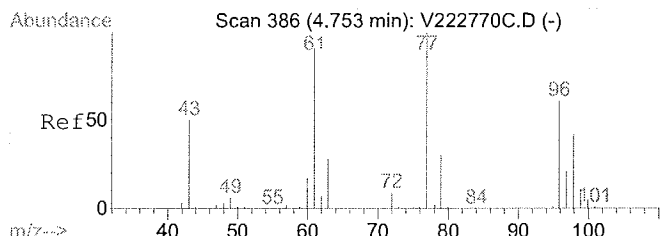
#23
cis-1,2-Dichloroethylene
Concen: 17.74 ppb
RT: 4.67 min Scan# 377
Delta R.T. -0.01 min
Lab File: V233092B.D
Acq: 3 Nov 2013 7:50 pm

Tgt Ion: 96 Resp: 184270
Ion Ratio Lower Upper
96 100
61 0.0 0.0 0.0
98 63.7 30.8 92.4
96 100.0 50.0 150.0



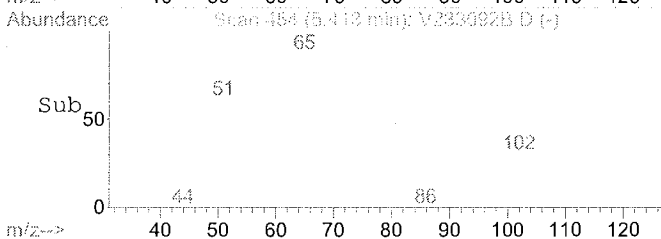
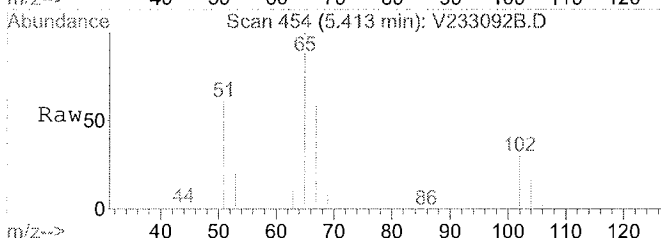
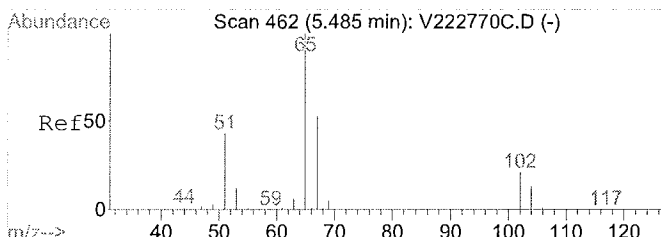
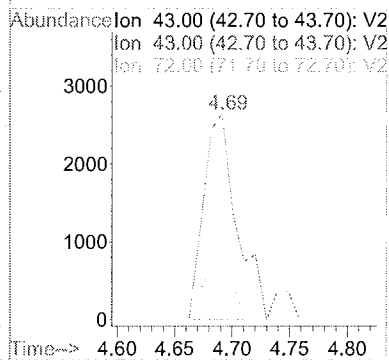
Abundance Ion 95.95 (95.65 to 96.65): V2
200000 Ion 61.00 (60.70 to 61.70): V2
Ion 97.55 (97.65 to 98.65): V2
Ion 95.95 (95.65 to 96.65): V2





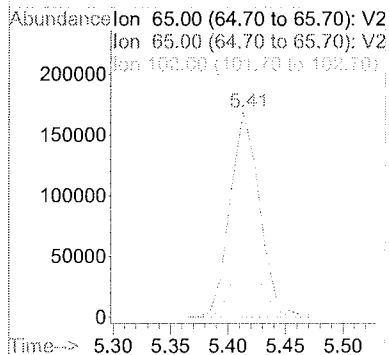
#24
2-Butanone
Concen: 1.47 ppb
RT: 4.69 min Scan# 379
Delta R.T. -0.01 min
Lab File: V233092B.D
Acq: 3 Nov 2013 7:50 pm

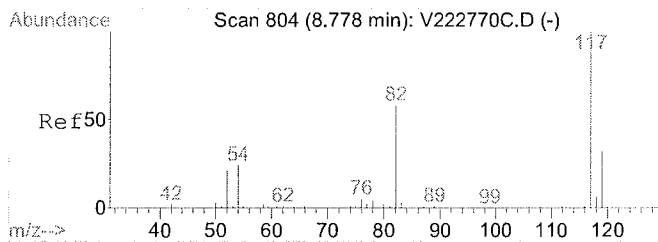
Tgt Ion: 43 Resp: 5729
Ion Ratio Lower Upper
43 100
43 100.0 60.0 140.0
72 21.6 0.0 37.6



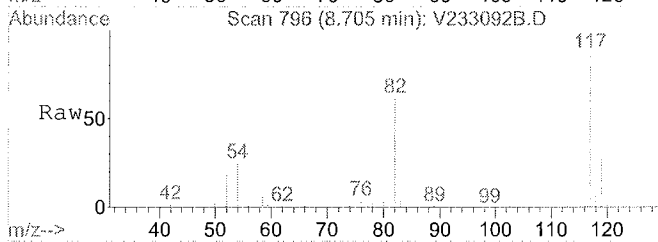
#31
d4-1,2-Dichloroethane (SURR)
Concen: N.D. ppb
RT: 5.41 min Scan# 454
Delta R.T. -0.02 min
Lab File: V233092B.D
Acq: 3 Nov 2013 7:50 pm

Tgt Ion: 65 Resp: 302788
Ion Ratio Lower Upper
65 100
65 100.0 80.0 120.0
102 29.3 24.2 36.4



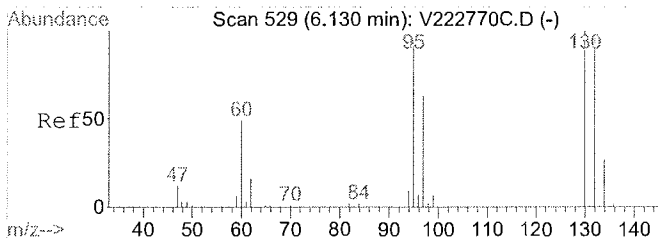
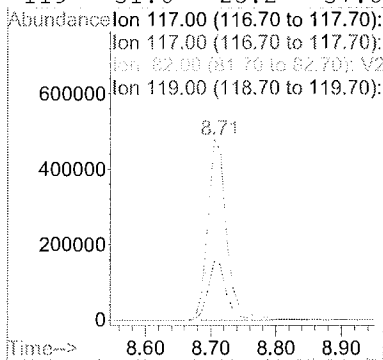
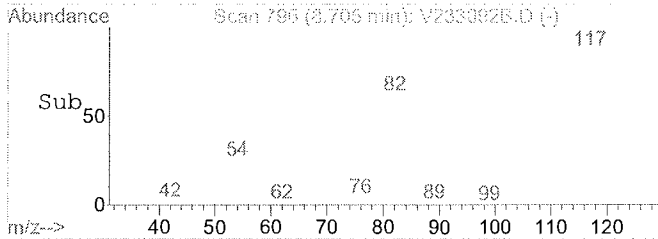


#35
 CHLOROBENZENE-d5 (ISTD)
 Concen: 50.00 ppb
 RT: 8.71 min Scan# 796
 Delta R.T. -0.02 min
 Lab File: V233092B.D
 Acq: 3 Nov 2013 7:50 pm

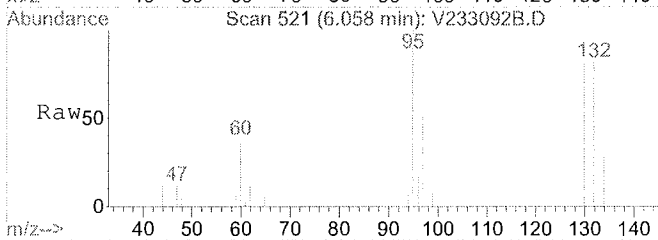


Tgt Ion: 117 Resp: 963810

Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
82	0.0	0.0	0.0
119	31.6	25.2	37.8

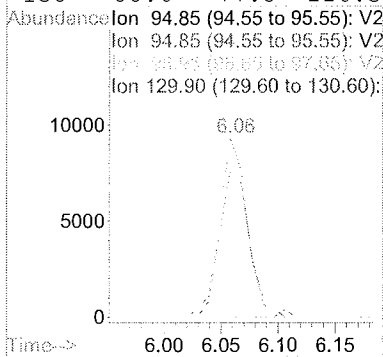
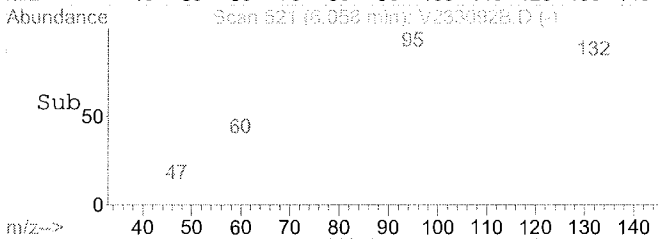


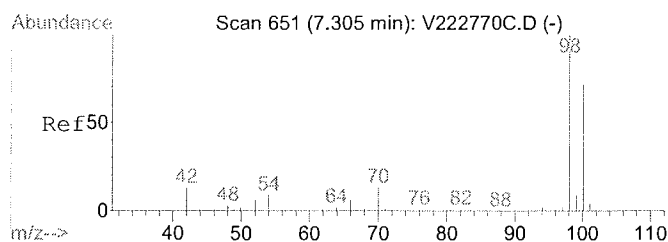
#37
 Trichloroethylene
 Concen: 1.89 ppb
 RT: 6.06 min Scan# 521
 Delta R.T. -0.02 min
 Lab File: V233092B.D
 Acq: 3 Nov 2013 7:50 pm



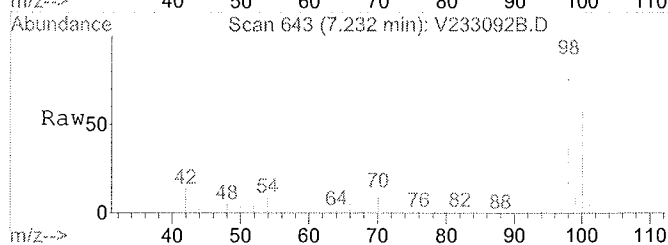
Tgt Ion: 95 Resp: 15765

Ion	Ratio	Lower	Upper
95	100		
95	100.0	80.0	120.0
97	54.7	49.0	73.4
130	88.6	77.5	116.3



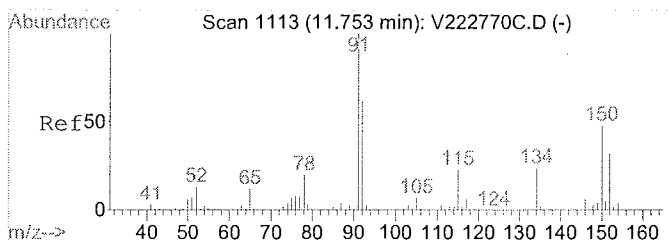
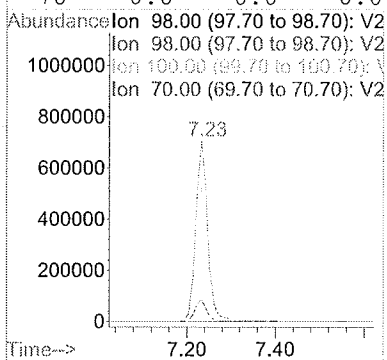
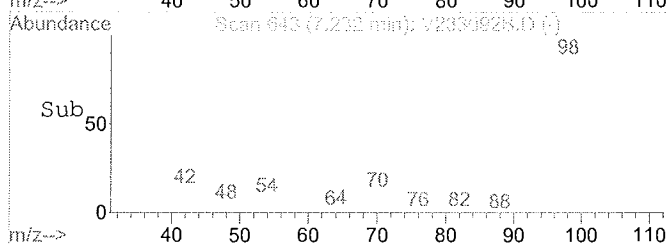


#47
Toluene-d8 (SURR)
Concen: N.D. ppb
RT: 7.23 min Scan# 643
Delta R.T. -0.02 min
Lab File: V233092B.D
Acq: 3 Nov 2013 7:50 pm

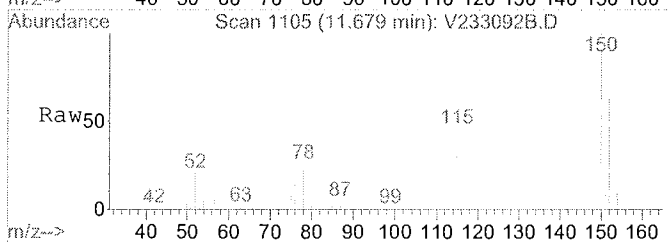


Tgt Ion: 98 Resp: 1336726

Ion	Ratio	Lower	Upper
98	100		
98	100.0	80.0	120.0
100	72.4	57.3	85.9
70	0.0	0.0	0.0

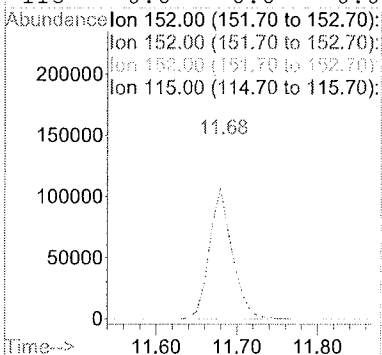
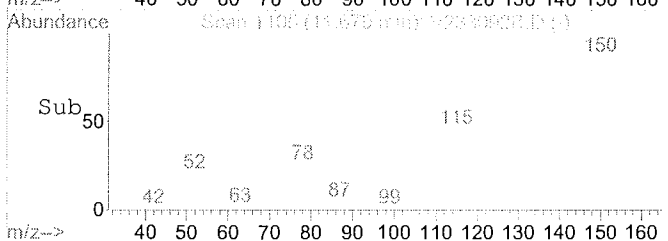


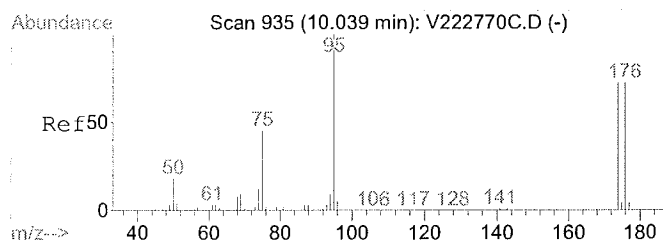
#64
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.68 min Scan# 1105
Delta R.T. -0.02 min
Lab File: V233092B.D
Acq: 3 Nov 2013 7:50 pm



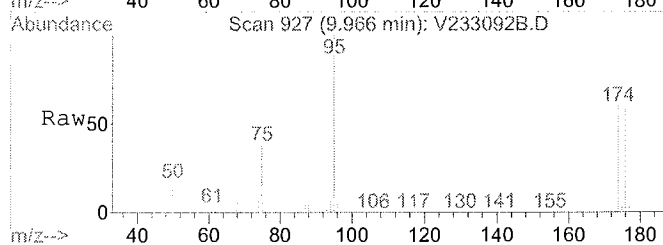
Tgt Ion: 152 Resp: 306456

Ion	Ratio	Lower	Upper
152	100		
152	100.0	80.0	120.0
152	100.0	80.0	120.0
115	0.0	0.0	0.0

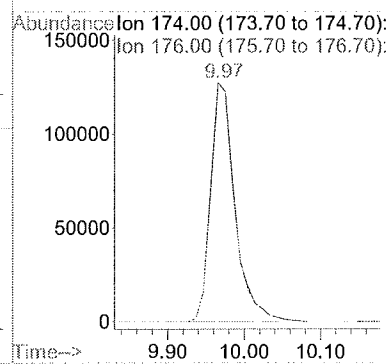
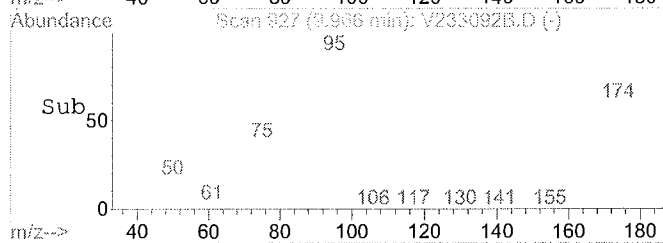




#66
 p-Bromofluorobenzene (SURR)
 Concen: N.D. ppb
 RT: 9.97 min Scan# 927
 Delta R.T. -0.02 min
 Lab File: V233092B.D
 Acq: 3 Nov 2013 7:50 pm



Tgt Ion: 174 Resp: 282625
 Ion Ratio Lower Upper
 174 100
 176 96.2 75.0 112.4



FORM I

ORGANIC ANALYSIS DATA SHEET

KC-MW-05 1013

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 13J1044-03 File ID: V233093B.D
 Sampled: 10/25/13 16:40 Prepared: 11/03/13 09:06 Analyzed: 11/03/13 20:25
 Solids: Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Batch: BK30107 Sequence: Calibration: Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	5.0	U
71-55-6	1,1,1-Trichloroethane	1	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	5.0	U
79-00-5	1,1,2-Trichloroethane	1	5.0	U
75-34-3	1,1-Dichloroethane	1	5.0	U
75-35-4	1,1-Dichloroethylene	1	5.0	U
563-58-6	1,1-Dichloropropylene	1	5.0	U
87-61-6	1,2,3-Trichlorobenzene	1	5.0	U
96-18-4	1,2,3-Trichloropropane	1	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U
95-63-6	1,2,4-Trimethylbenzene	1	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	5.0	U
106-93-4	1,2-Dibromoethane	1	5.0	U
95-50-1	1,2-Dichlorobenzene	1	5.0	U
107-06-2	1,2-Dichloroethane	1	5.0	U
78-87-5	1,2-Dichloropropane	1	5.0	U
108-67-8	1,3,5-Trimethylbenzene	1	5.0	U
541-73-1	1,3-Dichlorobenzene	1	5.0	U
142-28-9	1,3-Dichloropropane	1	5.0	U
106-46-7	1,4-Dichlorobenzene	1	5.0	U
594-20-7	2,2-Dichloropropane	1	5.0	U
78-93-3	2-Butanone	1	5.0	U
95-49-8	2-Chlorotoluene	1	5.0	U
106-43-4	4-Chlorotoluene	1	5.0	U
67-64-1	Acetone	1	5.0	U
71-43-2	Benzene	1	5.0	U
108-86-1	Bromobenzene	1	5.0	U
74-97-5	Bromochloromethane	1	5.0	U
75-27-4	Bromodichloromethane	1	5.0	U
75-25-2	Bromoform	1	5.0	U
74-83-9	Bromomethane	1	5.0	U
56-23-5	Carbon tetrachloride	1	5.0	U
108-90-7	Chlorobenzene	1	5.0	U
75-00-3	Chloroethane	1	5.0	U
67-66-3	Chloroform	1	5.0	U
74-87-3	Chloromethane	1	5.0	U
156-59-2	cis-1,2-Dichloroethylene	1	49	
10061-01-5	cis-1,3-Dichloropropylene	1	5.0	U
124-48-1	Dibromochloromethane	1	5.0	U

FORM I

ORGANIC ANALYSIS DATA SHEET

KC-MW-05 1013

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 13J1044-03 File ID: V233093B.D
 Sampled: 10/25/13 16:40 Prepared: 11/03/13 09:06 Analyzed: 11/03/13 20:25
 Solids: Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Batch: BK30107 Sequence: Calibration: Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	1	5.0	U
75-71-8	Dichlorodifluoromethane	1	5.0	U
100-41-4	Ethyl Benzene	1	5.0	U
87-68-3	Hexachlorobutadiene	1	5.0	U
98-82-8	Isopropylbenzene	1	5.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	5.0	U
75-09-2	Methylene chloride	1	5.0	U
91-20-3	Naphthalene	1	5.0	U
104-51-8	n-Butylbenzene	1	5.0	U
103-65-1	n-Propylbenzene	1	5.0	U
95-47-6	o-Xylene	1	5.0	U
179601-23-1	p- & m- Xylenes	1	10	U
99-87-6	p-Isopropyltoluene	1	5.0	U
135-98-8	sec-Butylbenzene	1	5.0	U
100-42-5	Styrene	1	5.0	U
98-06-6	tert-Butylbenzene	1	5.0	U
127-18-4	Tetrachloroethylene	1	5.0	U
108-88-3	Toluene	1	5.0	U
156-60-5	trans-1,2-Dichloroethylene	1	5.0	U
10061-02-6	trans-1,3-Dichloropropylene	1	5.0	U
79-01-6	Trichloroethylene	1	78	
75-69-4	Trichlorofluoromethane	1	5.0	U
75-01-4	Vinyl Chloride	1	5.0	U
1330-20-7	Xylenes, Total	1	15	U
108-05-4	Vinyl acetate	1	5.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	50.0	48.7	97.4	78 - 122	
p-Bromofluorobenzene	50.0	50.0	100	87 - 112	
Toluene-d8	50.0	51.5	103	91 - 110	

* Values outside of QC limits

Data File : G:\MSVOA2 V2\AILYDAT\V2110313\V233093B.D Vial: 20
 Acq On : 3 Nov 2013 8:25 pm Operator: SS
 Sample : 13J1044-03 Inst : MS VOA 2
 Misc : QBV2110313A pH<2 8260 ASPB Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:39 2013 Quant Results File: V2C00349.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE (ISTD)	5.72	70	372675	50.00	ppb	-0.02
35) CHLOROBENZENE-d5 (ISTD)	8.71	117	983630	50.00	ppb	0.00
64) 1,2-DICHLOROBENZENE-d4 (ISTD)	11.68	152	302064	50.00	ppb	-0.02

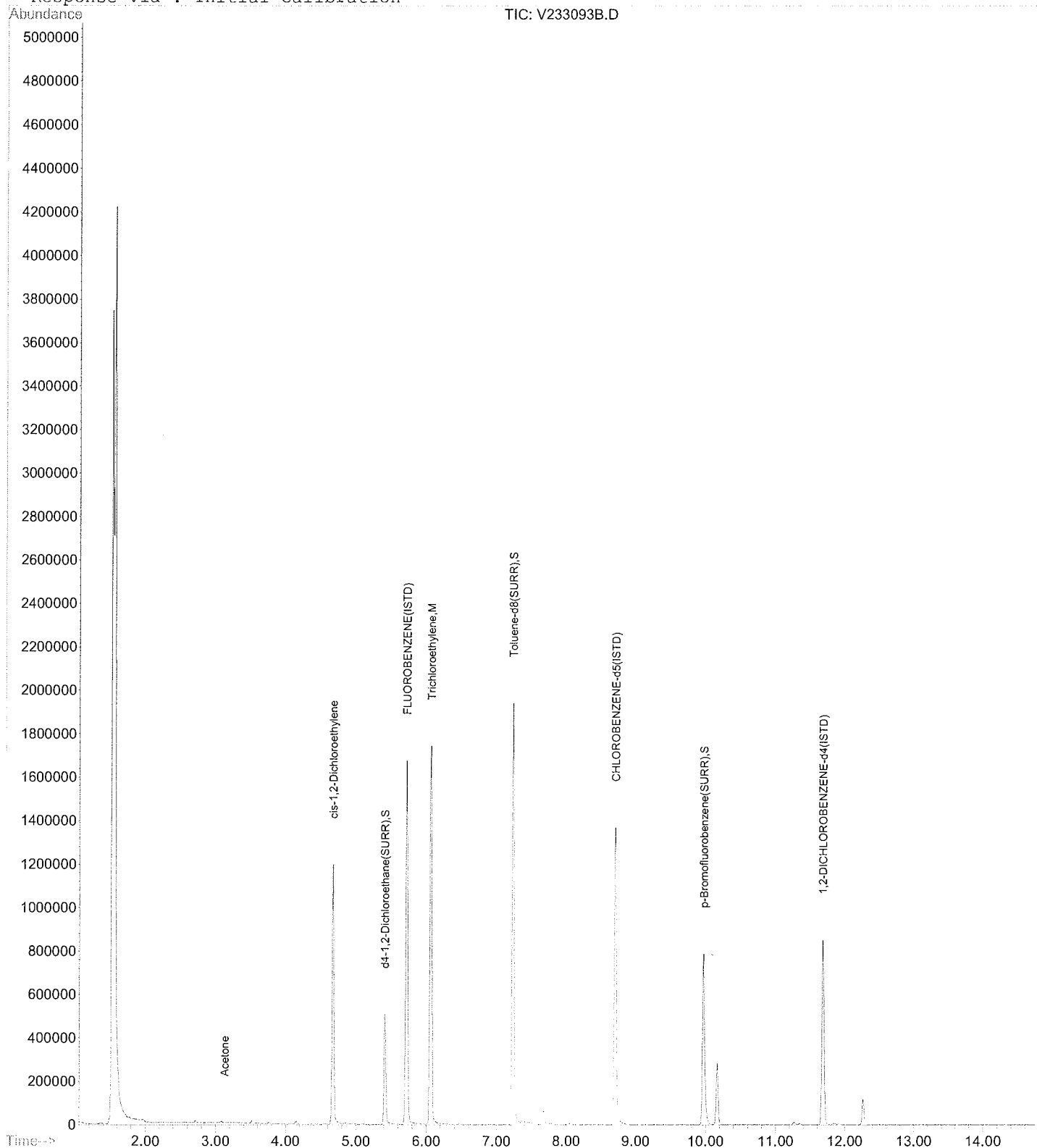
System Monitoring Compounds						
31) d4-1,2-Dichloroethane (SURR)	5.41	65	306059	48.72	ppb	-0.02
Spiked Amount	50.000	Range	67 - 128	Recovery	=	97.44%
47) Toluene-d8 (SURR)	7.23	98	1428904	51.46	ppb	-0.02
Spiked Amount	50.000	Range	87 - 113	Recovery	=	102.92%
66) p-Bromofluorobenzene (SURR)	9.97	174	290865	50.00	ppb	0.00
Spiked Amount	50.000	Range	63 - 166	Recovery	=	100.00%

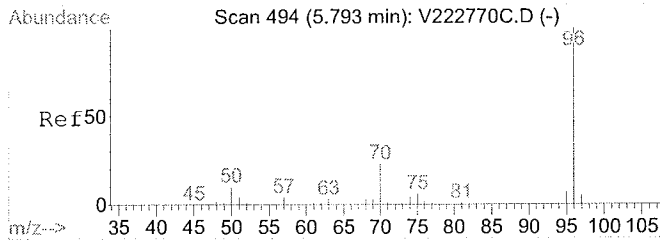
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
20) Acetone	3.14	43	2864	1.43	ppb	98
23) cis-1,2-Dichloroethylene	4.67	96	512375	49.03	ppb	# 100
37) Trichloroethylene	6.07	95	664071	78.20	ppb	98

Quantitation Report

Data File : G:\MSVOA2 V2\DAI\YDAT\V2110313\V233093B.D Vial: 20
 Acq On : 3 Nov 2013 8:25 pm Operator: SS
 Sample : 13J1044-03 Inst : MS VOA 2
 Misc : QBV2110313A pH<2 8260 ASPB Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:39 2013 Quant Results File: V2C00349.RES

Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration





#1
 FLUOROBENZENE (ISTD)
 Concen: 50.00 ppb
 RT: 5.72 min Scan# 486
 Delta R.T. -0.02 min
 Lab File: V233093B.D
 Acq: 3 Nov 2013 8:25 pm

Tgt Ion	Ratio	Lower	Upper
70	100		
96	432.5	359.2	538.8
70	100.0	80.0	120.0
50	0.0	0.0	0.0

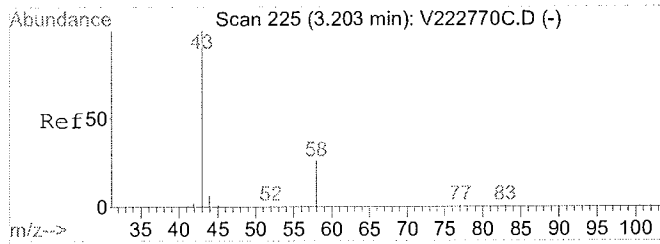
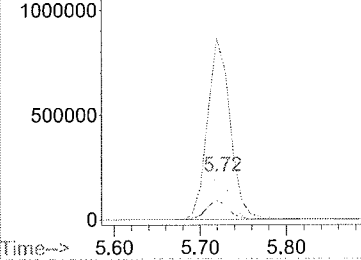
Abundance

Ion 70.00 (69.70 to 70.70): V2

Ion 96.00 (95.70 to 96.70): V2

Ion 70.00 (69.70 to 70.70): V2

Ion 50.00 (49.70 to 50.70): V2



#20
 Acetone
 Concen: 1.43 ppb
 RT: 3.14 min Scan# 218
 Delta R.T. 0.00 min
 Lab File: V233093B.D
 Acq: 3 Nov 2013 8:25 pm

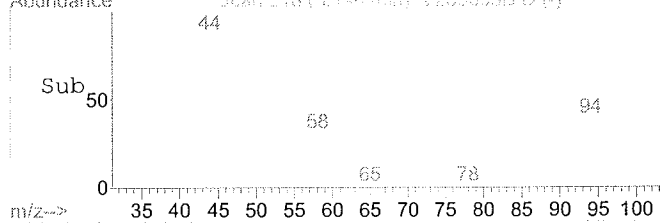
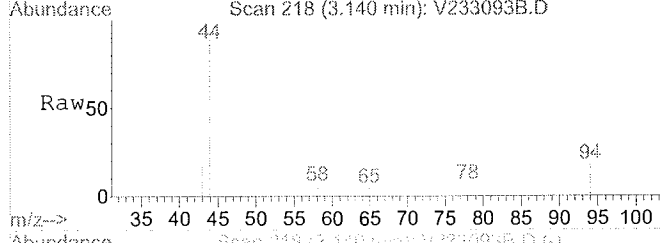
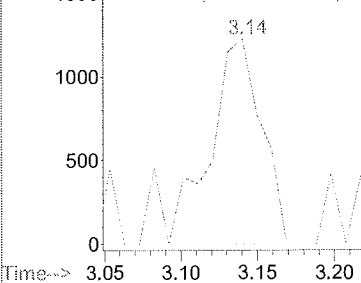
Tgt Ion	Ratio	Lower	Upper
43	100		
43	100.0	0.0	200.0
58	34.5	0.0	60.6

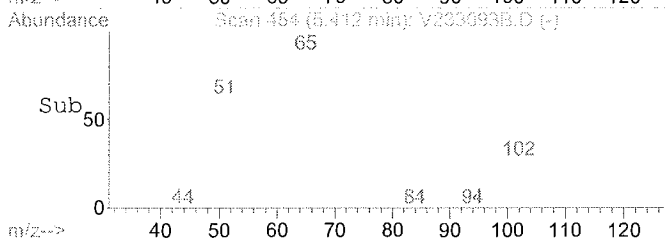
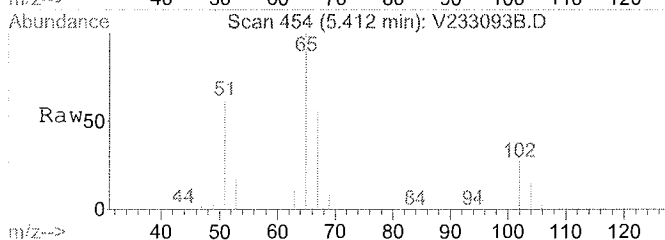
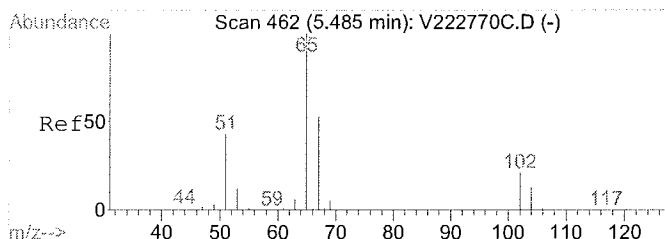
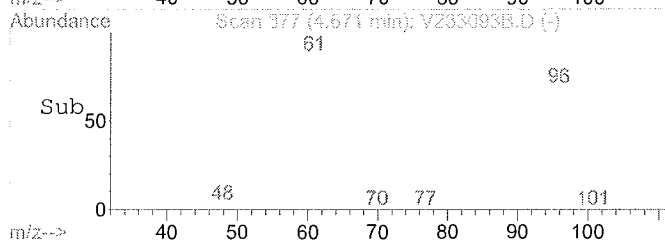
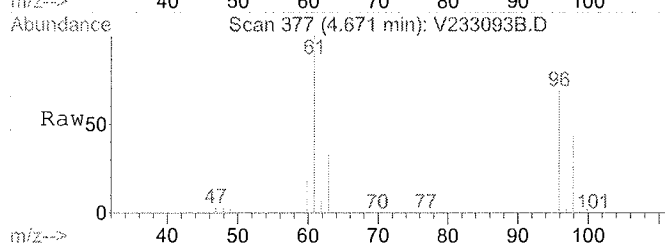
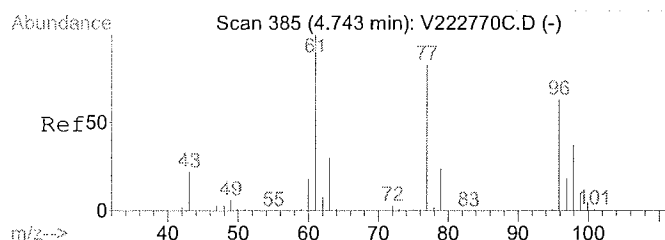
Abundance

Ion 43.00 (42.70 to 43.70): V2

Ion 43.00 (42.70 to 43.70): V2

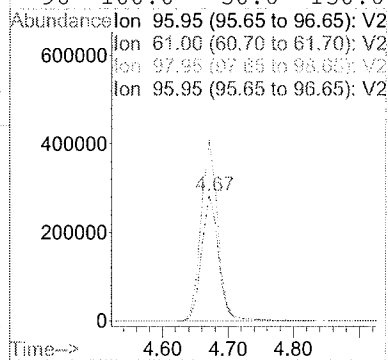
Ion 58.00 (57.70 to 58.70): V2





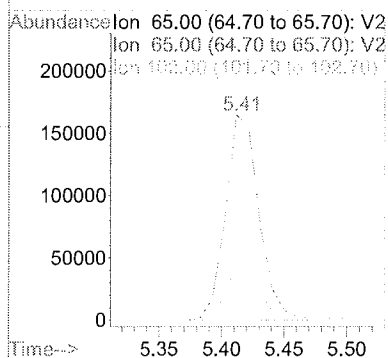
#23
cis-1,2-Dichloroethylene
Concen: 49.03 ppb
RT: 4.67 min Scan# 377
Delta R.T. -0.01 min
Lab File: V233093B.D
Acq: 3 Nov 2013 8:25 pm

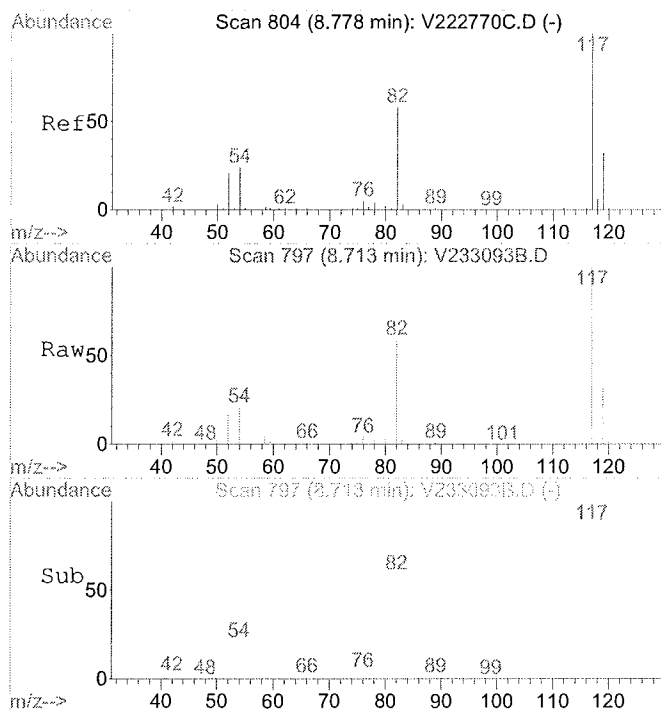
Tgt Ion: 96 Resp: 512375
Ion Ratio Lower Upper
96 100
61 0.0 0.0 0.0
98 61.7 30.8 92.4
96 100.0 50.0 150.0



#31
d4-1,2-Dichloroethane (SURR)
Concen: N.D. ppb
RT: 5.41 min Scan# 454
Delta R.T. -0.02 min
Lab File: V233093B.D
Acq: 3 Nov 2013 8:25 pm

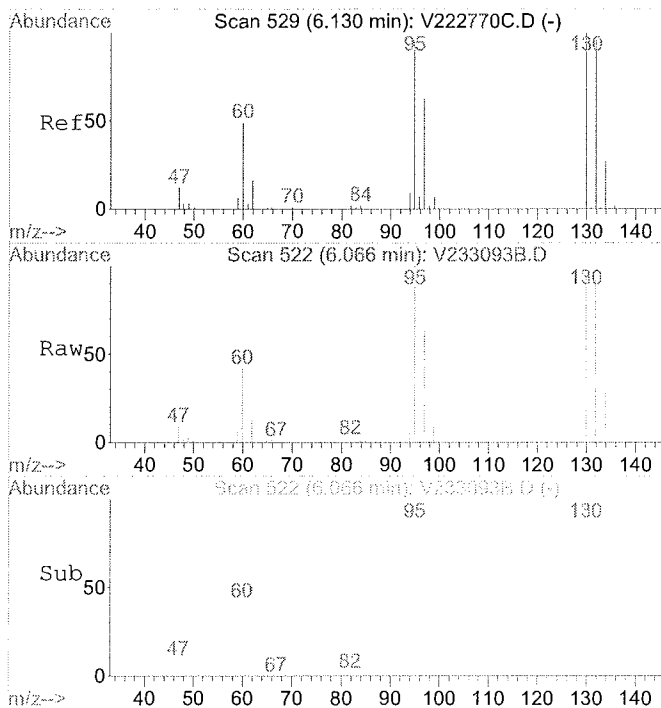
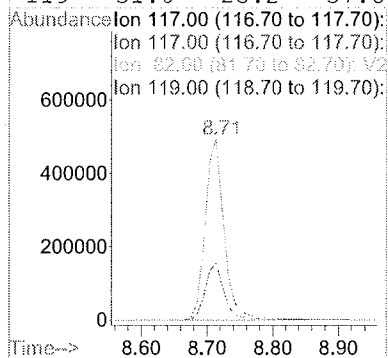
Tgt Ion: 65 Resp: 306059
Ion Ratio Lower Upper
65 100
65 100.0 80.0 120.0
102 27.6 24.2 36.4





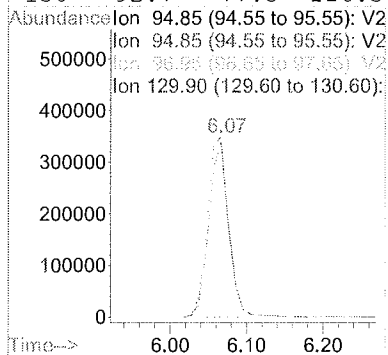
#35
CHLOROBENZENE-d5 (ISTD)
Concen: 50.00 ppb
RT: 8.71 min Scan# 797
Delta R.T. -0.01 min
Lab File: V233093B.D
Acq: 3 Nov 2013 8:25 pm

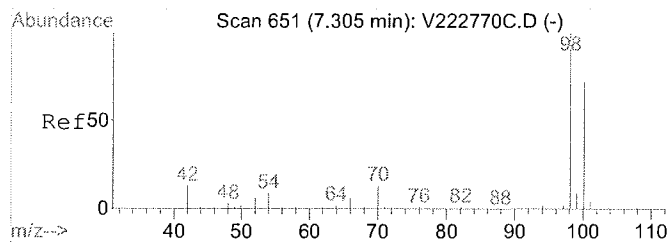
Tgt Ion: 117 Resp: 983630
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0
82 0.0 0.0 0.0
119 31.0 25.2 37.8



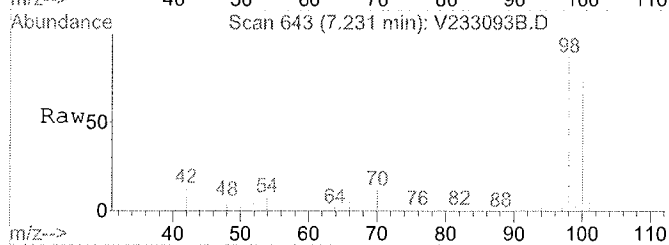
#37
Trichloroethylene
Concen: 78.20 ppb
RT: 6.07 min Scan# 522
Delta R.T. -0.01 min
Lab File: V233093B.D
Acq: 3 Nov 2013 8:25 pm

Tgt Ion: 95 Resp: 664071
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
97 62.3 49.0 73.4
130 92.7 77.5 116.3



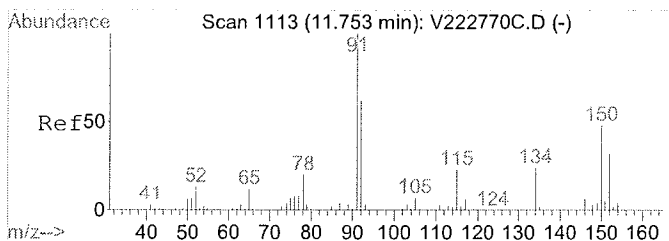
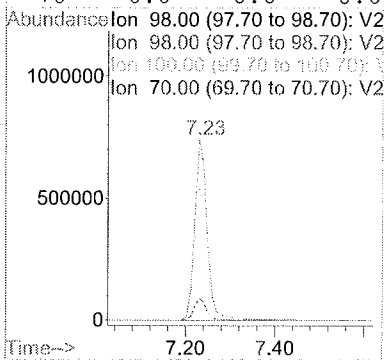
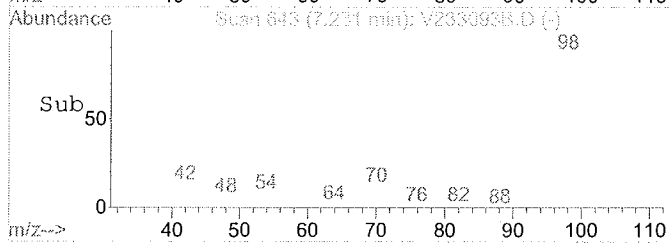


#47
Toluene-d8 (Surr)
Concen: Below ppb
RT: 7.23 min Scan# 643
Delta R.T. -0.02 min
Lab File: V233093B.D
Acq: 3 Nov 2013 8:25 pm

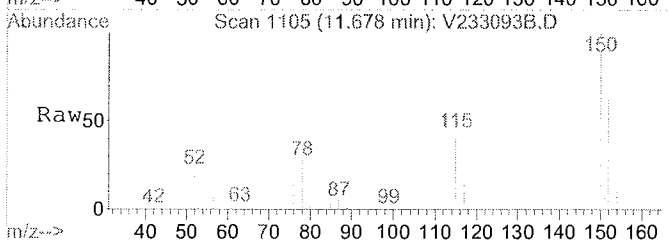


Tgt Ion: 98 Resp: 1428904

Ion	Ratio	Lower	Upper
98	100		
98	100.0	80.0	120.0
100	71.5	57.3	85.9
70	0.0	0.0	0.0

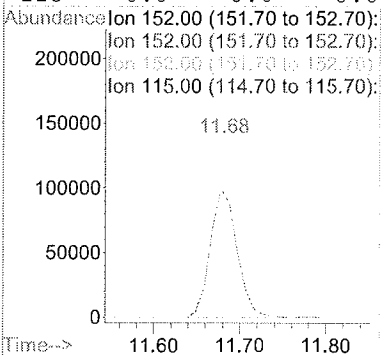
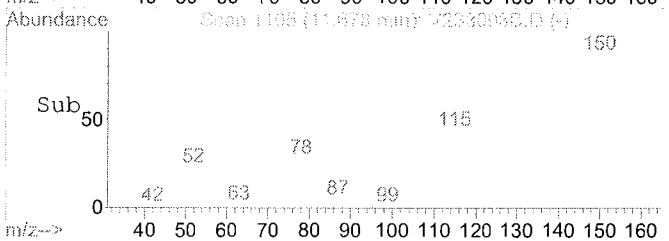


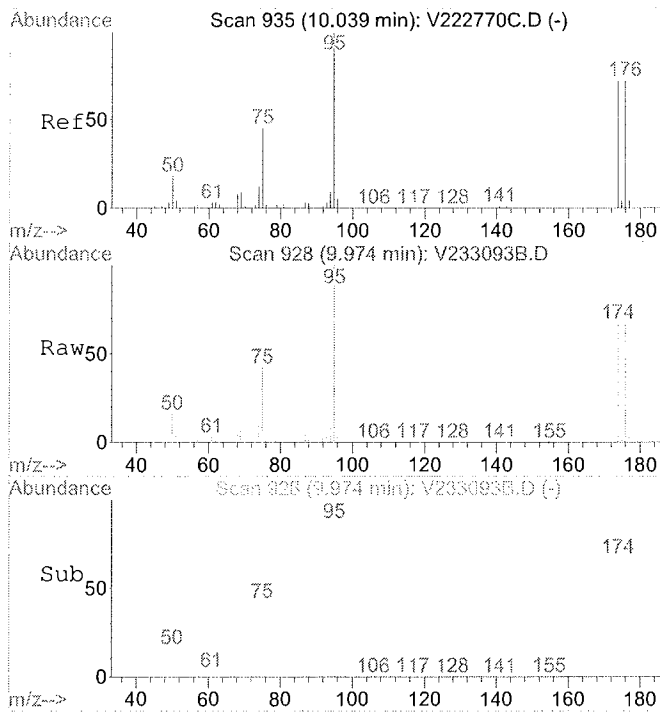
#64
1,2-DICHLOROBENZENE-d4 (Istd)
Concen: 50.00 ppb
RT: 11.68 min Scan# 1105
Delta R.T. -0.02 min
Lab File: V233093B.D
Acq: 3 Nov 2013 8:25 pm



Tgt Ion: 152 Resp: 302064

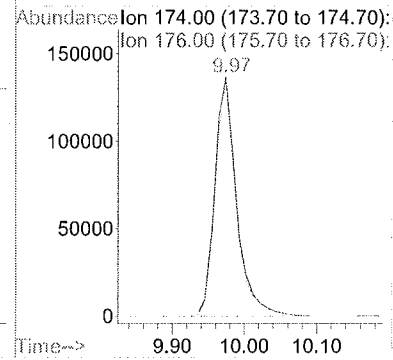
Ion	Ratio	Lower	Upper
152	100		
152	100.0	80.0	120.0
152	100.0	80.0	120.0
115	0.0	0.0	0.0





#66
 p-Bromofluorobenzene (SURR)
 Concen: N.D. ppb
 RT: 9.97 min Scan# 928
 Delta R.T. -0.01 min
 Lab File: V233093B.D
 Acq: 3 Nov 2013 8:25 pm

Tgt Ion:174 Resp: 290865
 Ion Ratio Lower Upper
 174 100
 176 98.0 75.0 112.4



FORM I

ORGANIC ANALYSIS DATA SHEET

KC-FD-01 1013

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 13J1044-04 File ID: V233094B.D
 Sampled: 10/25/13 15:00 Prepared: 11/03/13 09:06 Analyzed: 11/03/13 21:01
 Solids: Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Batch: BK30107 Sequence: Calibration: Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	5.0	U
71-55-6	1,1,1-Trichloroethane	1	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	5.0	U
79-00-5	1,1,2-Trichloroethane	1	5.0	U
75-34-3	1,1-Dichloroethane	1	5.0	U
75-35-4	1,1-Dichloroethylene	1	5.0	U
563-58-6	1,1-Dichloropropylene	1	5.0	U
87-61-6	1,2,3-Trichlorobenzene	1	5.0	U
96-18-4	1,2,3-Trichloropropane	1	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U
95-63-6	1,2,4-Trimethylbenzene	1	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	5.0	U
106-93-4	1,2-Dibromoethane	1	5.0	U
95-50-1	1,2-Dichlorobenzene	1	5.0	U
107-06-2	1,2-Dichloroethane	1	5.0	U
78-87-5	1,2-Dichloropropane	1	5.0	U
108-67-8	1,3,5-Trimethylbenzene	1	5.0	U
541-73-1	1,3-Dichlorobenzene	1	5.0	U
142-28-9	1,3-Dichloropropane	1	5.0	U
106-46-7	1,4-Dichlorobenzene	1	5.0	U
594-20-7	2,2-Dichloropropane	1	5.0	U
78-93-3	2-Butanone	1	5.0	U
95-49-8	2-Chlorotoluene	1	5.0	U
106-43-4	4-Chlorotoluene	1	5.0	U
67-64-1	Acetone	1	5.0	U
71-43-2	Benzene	1	5.0	U
108-86-1	Bromobenzene	1	5.0	U
74-97-5	Bromochloromethane	1	5.0	U
75-27-4	Bromodichloromethane	1	5.0	U
75-25-2	Bromoform	1	5.0	U
74-83-9	Bromomethane	1	5.0	U
56-23-5	Carbon tetrachloride	1	5.0	U
108-90-7	Chlorobenzene	1	5.0	U
75-00-3	Chloroethane	1	5.0	U
67-66-3	Chloroform	1	5.0	U
74-87-3	Chloromethane	1	5.0	U
156-59-2	cis-1,2-Dichloroethylene	1	51	
10061-01-5	cis-1,3-Dichloropropylene	1	5.0	U
124-48-1	Dibromochloromethane	1	5.0	U

FORM I

ORGANIC ANALYSIS DATA SHEET

KC-FD-01 1013

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 13J1044-04 File ID: V233094B.D
 Sampled: 10/25/13 15:00 Prepared: 11/03/13 09:06 Analyzed: 11/03/13 21:01
 Solids: Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Batch: BK30107 Sequence: Calibration: Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	1	5.0	U
75-71-8	Dichlorodifluoromethane	1	5.0	U
100-41-4	Ethyl Benzene	1	5.0	U
87-68-3	Hexachlorobutadiene	1	5.0	U
98-82-8	Isopropylbenzene	1	5.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	5.0	U
75-09-2	Methylene chloride	1	5.0	U
91-20-3	Naphthalene	1	5.0	U
104-51-8	n-Butylbenzene	1	5.0	U
103-65-1	n-Propylbenzene	1	5.0	U
95-47-6	o-Xylene	1	5.0	U
179601-23-1	p- & m- Xylenes	1	10	U
99-87-6	p-Isopropyltoluene	1	5.0	U
135-98-8	sec-Butylbenzene	1	5.0	U
100-42-5	Styrene	1	5.0	U
98-06-6	tert-Butylbenzene	1	5.0	U
127-18-4	Tetrachloroethylene	1	5.0	U
108-88-3	Toluene	1	5.0	U
156-60-5	trans-1,2-Dichloroethylene	1	5.0	U
10061-02-6	trans-1,3-Dichloropropylene	1	5.0	U
79-01-6	Trichloroethylene	1	84	
75-69-4	Trichlorofluoromethane	1	5.0	U
75-01-4	Vinyl Chloride	1	5.0	U
1330-20-7	Xylenes, Total	1	15	U
108-05-4	Vinyl acetate	1	5.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	50.0	49.6	99.3	78 - 122	
p-Bromofluorobenzene	50.0	47.2	94.4	87 - 112	
Toluene-d8	50.0	48.5	97.0	91 - 110	

* Values outside of QC limits

Data File : G:\MSVOA2 V2\DAIYDAT\V2110313\V233094B.D Vial: 21
 Acq On : 3 Nov 2013 9:01 pm Operator: SS
 Sample : 13J1044-04 Inst : MS VOA 2
 Misc : QBV2110313A pH<2 8260 ASPB Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:39 2013 Quant Results File: V2C00349.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) FLUOROBENZENE (ISTD)	5.72	70	367966	50.00	ppb	-0.02
35) CHLOROBENZENE-d5 (ISTD)	8.72	117	974033	50.00	ppb	0.00
64) 1,2-DICHLOROBENZENE-d4 (ISTD)	11.68	152	303442	50.00	ppb	-0.02

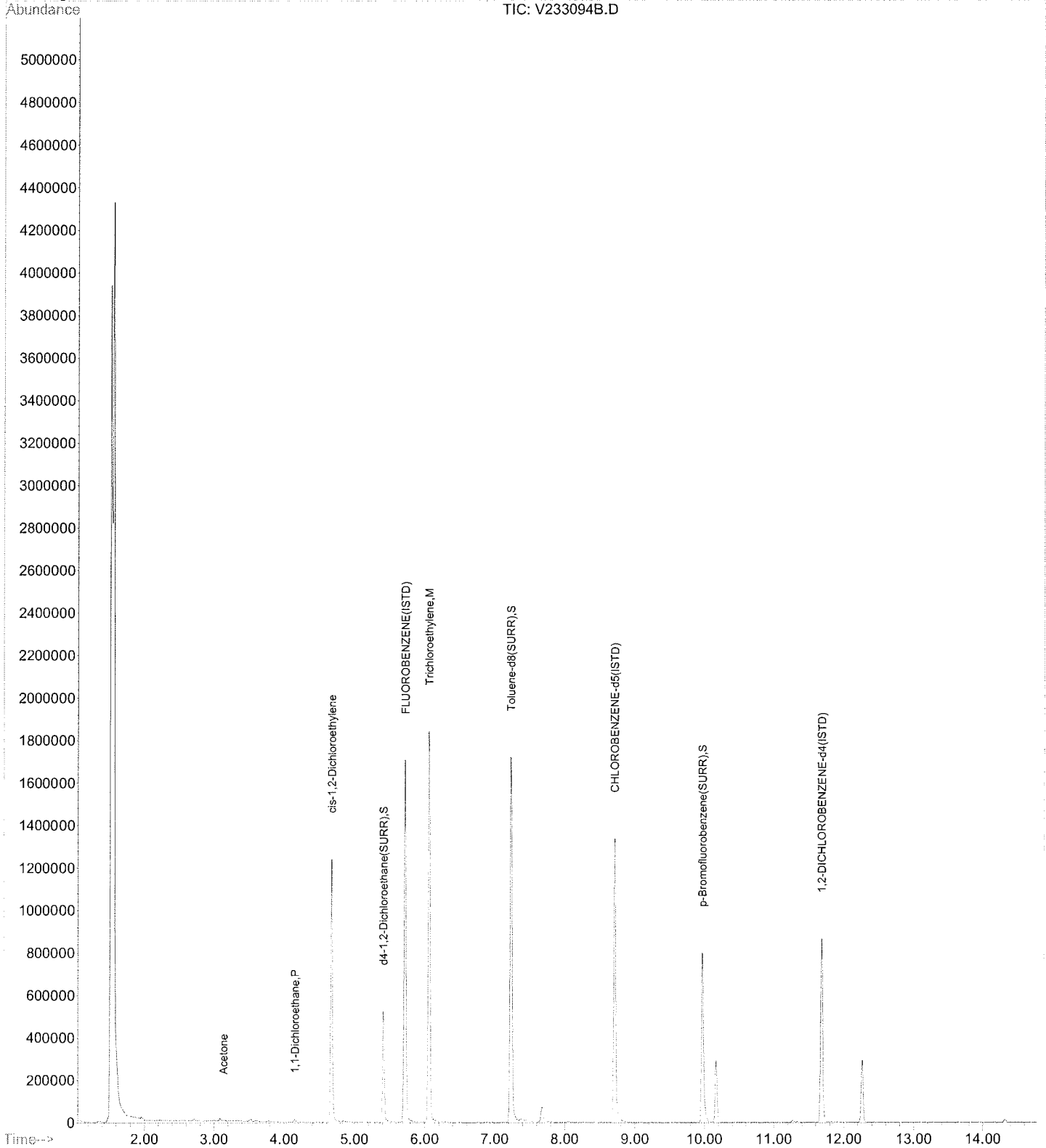
System Monitoring Compounds						
31) d4-1,2-Dichloroethane (SURR)	5.41	65	307991	49.65	ppb	-0.02
Spiked Amount	50.000	Range	67 - 128	Recovery	=	99.30%
47) Toluene-d8 (SURR)	7.23	98	1333371	48.49	ppb	-0.02
Spiked Amount	50.000	Range	87 - 113	Recovery	=	96.98%
66) p-Bromofluorobenzene (SURR)	9.98	174	275928	47.22	ppb	0.00
Spiked Amount	50.000	Range	63 - 166	Recovery	=	94.44%

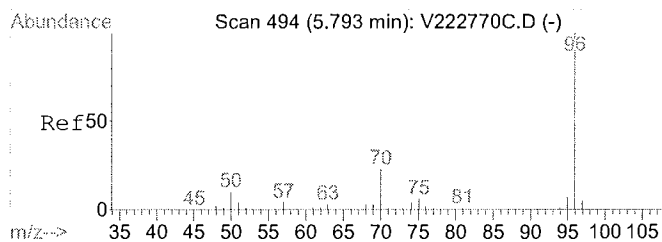
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
20) Acetone	3.13	43	3256	1.64	ppb	99
21) 1,1-Dichloroethane	4.15	63	15659	0.82	ppb	100
23) cis-1,2-Dichloroethylene	4.67	96	530008	51.37	ppb	# 99
37) Trichloroethylene	6.06	95	709015	84.31	ppb	98

Quantitation Report

Data File : G:\MSVOA2 V2\DAAILYDAT\V2110313\V233094B.D Vial: 21
 Acq On : 3 Nov 2013 9:01 pm Operator: SS
 Sample : 13J1044-04 Inst : MS VOA 2
 Misc : QBV2110313A pH<2 8260 ASPB Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:39 2013 Quant Results File: V2C00349.RES

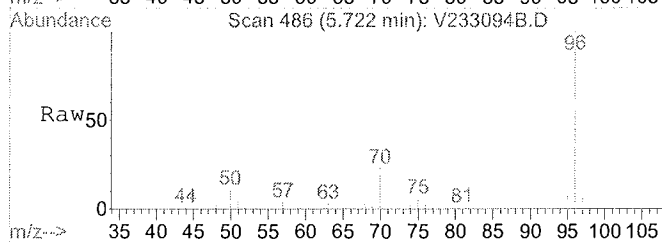
Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration



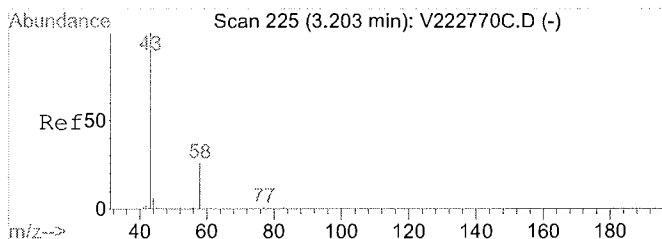
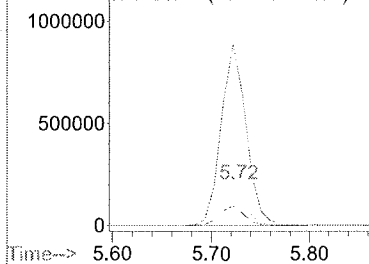
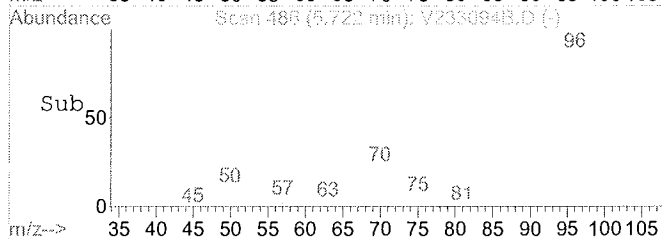


#1
 FLUOROBENZENE (ISTD)
 Concen: 50.00 ppb
 RT: 5.72 min Scan# 486
 Delta R.T. -0.02 min
 Lab File: V233094B.D
 Acq: 3 Nov 2013 9:01 pm

Tgt Ion: 70 Resp: 367966
 Ion Ratio Lower Upper
 70 100
 96 431.8 359.2 538.8
 70 100.0 80.0 120.0
 50 0.0 0.0 0.0

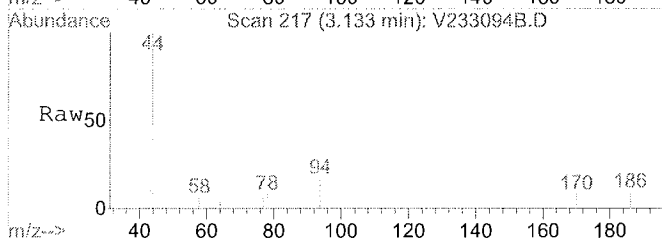


Abundance Ion 70.00 (69.70 to 70.70): V2
 Ion 96.00 (95.70 to 96.70): V2
 Ion 70.00 (69.70 to 70.70): V2
 Ion 50.00 (49.70 to 50.70): V2

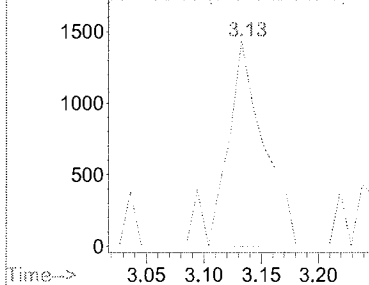
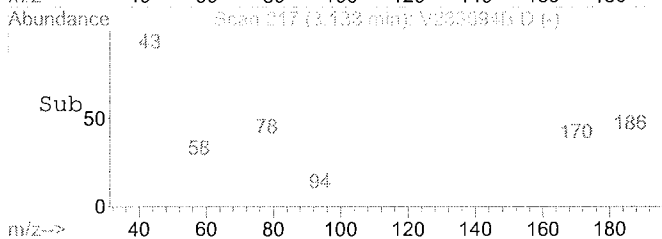


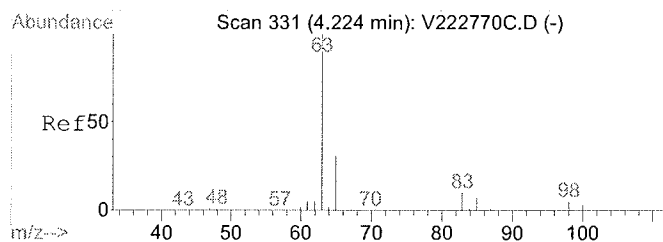
#20
 Acetone
 Concen: 1.64 ppb
 RT: 3.13 min Scan# 217
 Delta R.T. -0.01 min
 Lab File: V233094B.D
 Acq: 3 Nov 2013 9:01 pm

Tgt Ion: 43 Resp: 3256
 Ion Ratio Lower Upper
 43 100
 43 100.0 0.0 200.0
 58 27.2 0.0 60.6

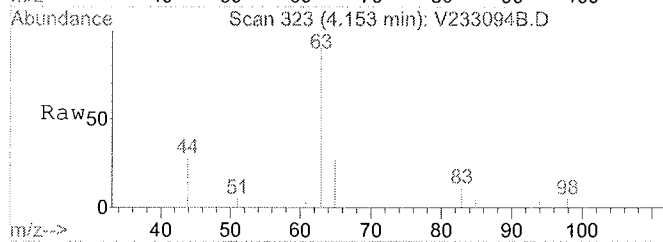


Abundance Ion 43.00 (42.70 to 43.70): V2
 Ion 43.00 (42.70 to 43.70): V2
 Ion 58.00 (57.70 to 58.70): V2

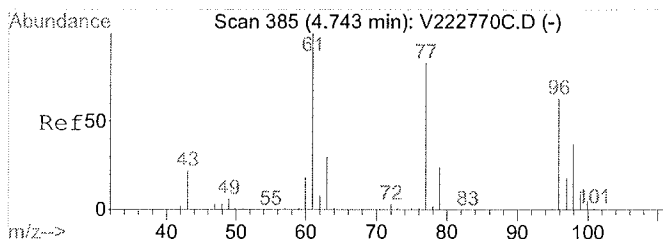
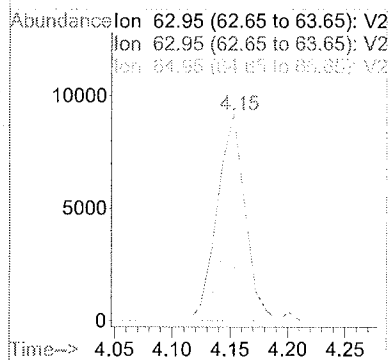
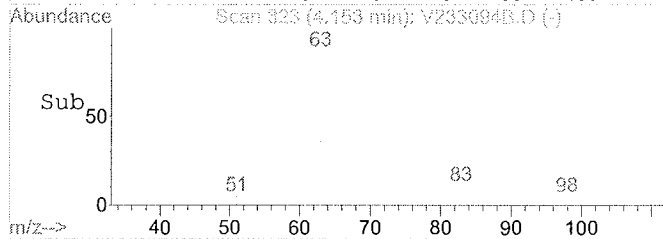




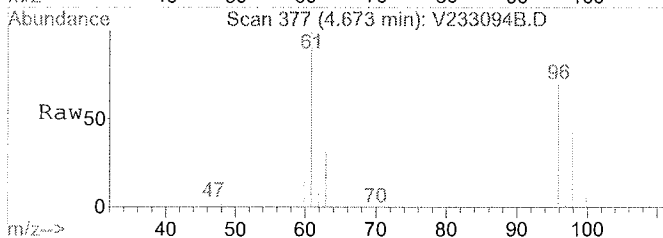
#21
1,1-Dichloroethane
Concen: 0.82 ppb
RT: 4.15 min Scan# 323
Delta R.T. -0.01 min
Lab File: V233094B.D
Acq: 3 Nov 2013 9:01 pm



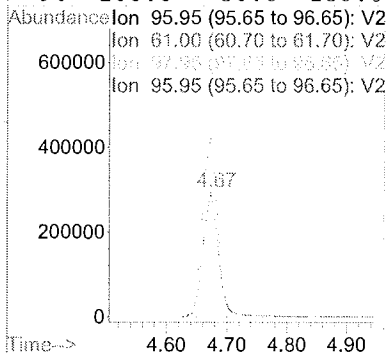
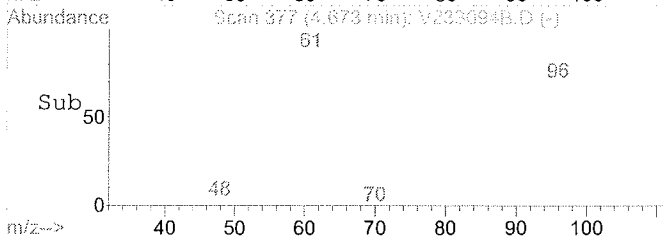
Tgt Ion: 63 Resp: 15659
Ion Ratio Lower Upper
63 100
63 100.0 80.0 120.0
65 30.9 25.2 37.8

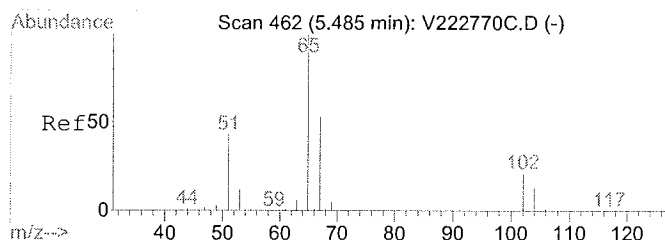


#23
cis-1,2-Dichloroethylene
Concen: 51.37 ppb
RT: 4.67 min Scan# 377
Delta R.T. -0.01 min
Lab File: V233094B.D
Acq: 3 Nov 2013 9:01 pm

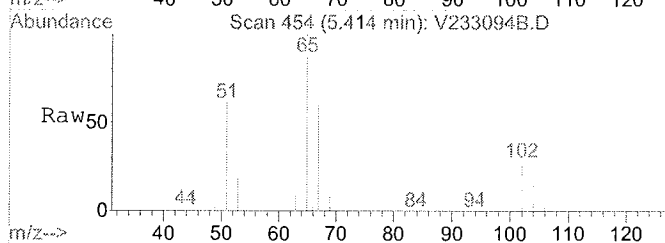


Tgt Ion: 96 Resp: 530008
Ion Ratio Lower Upper
96 100
61 0.0 0.0 0.0
98 62.8 30.8 92.4
96 100.0 50.0 150.0

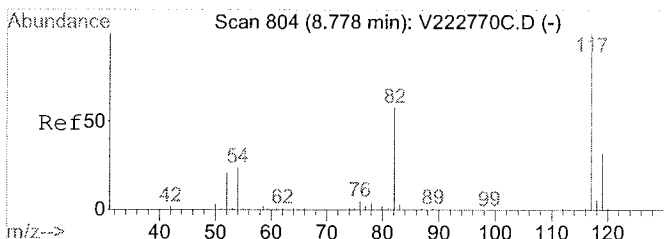
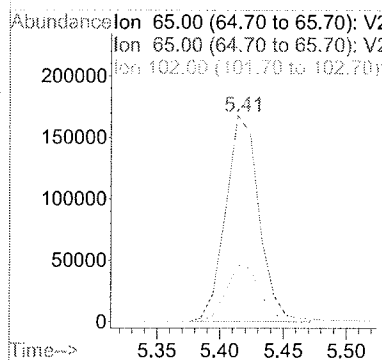
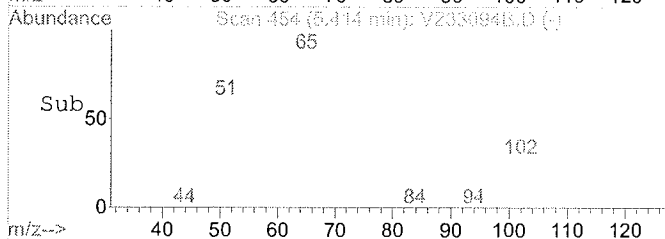




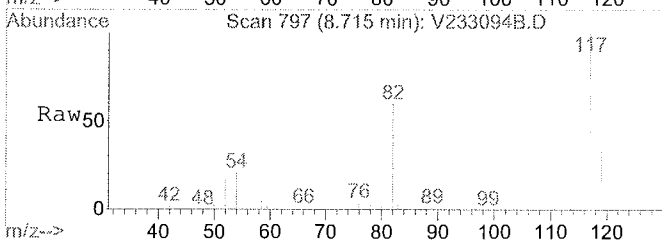
#31
d4-1,2-Dichloroethane (SURR)
Concen: N.D. ppb
RT: 5.41 min Scan# 454
Delta R.T. -0.02 min
Lab File: V233094B.D
Acq: 3 Nov 2013 9:01 pm



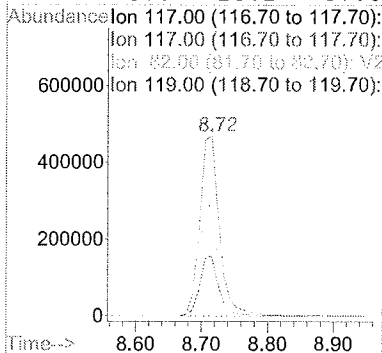
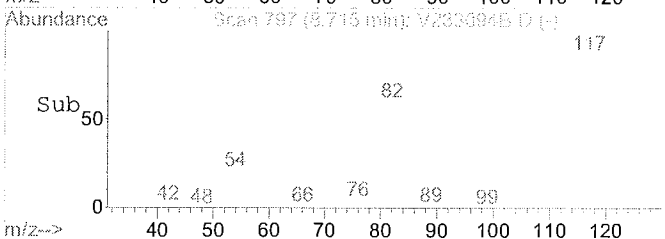
Tgt Ion: 65 Resp: 307991
Ion Ratio Lower Upper
65 100
65 100.0 80.0 120.0
102 27.5 24.2 36.4

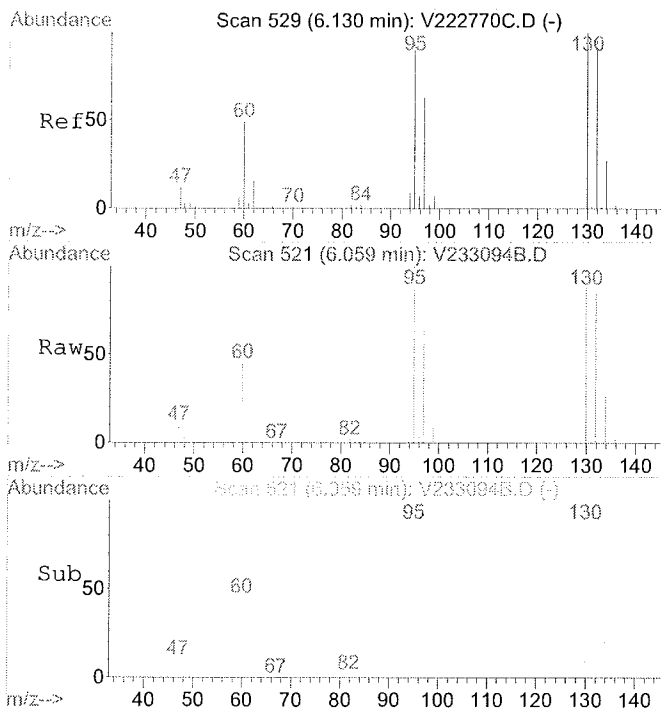


#35
CHLOROBENZENE-d5 (ISTD)
Concen: 50.00 ppb
RT: 8.72 min Scan# 797
Delta R.T. -0.01 min
Lab File: V233094B.D
Acq: 3 Nov 2013 9:01 pm



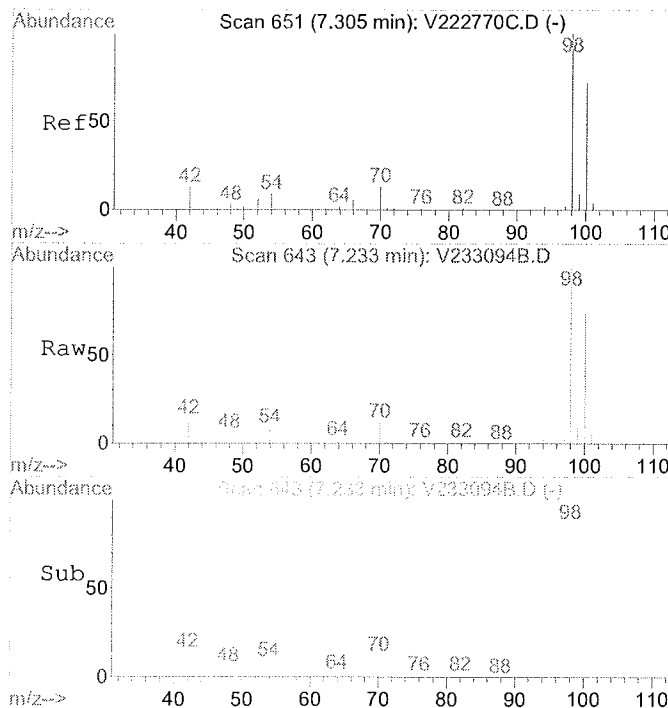
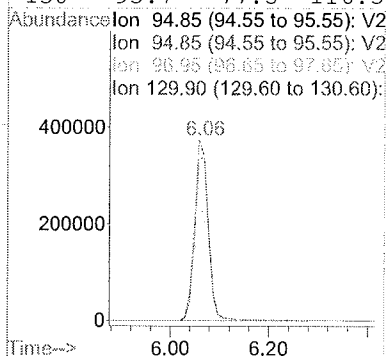
Tgt Ion: 117 Resp: 974033
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0
82 62.4 0.0 0.0#
119 0.0 25.2 37.8#





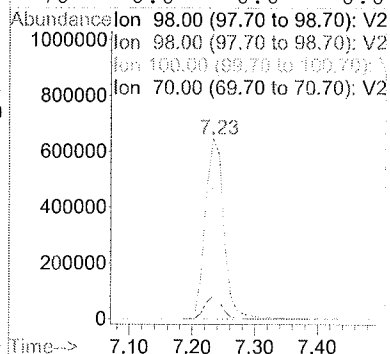
#37
Trichloroethylene
Concen: 84.31 ppb
RT: 6.06 min Scan# 521
Delta R.T. -0.02 min
Lab File: V233094B.D
Acq: 3 Nov 2013 9:01 pm

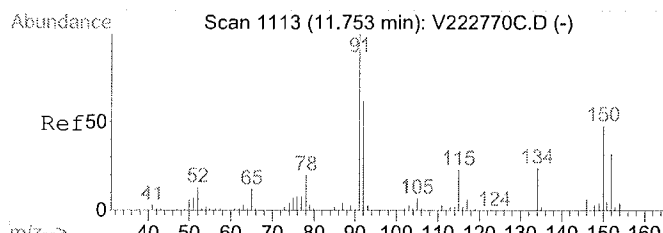
Tgt Ion: 95 Resp: 709015
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
97 62.5 49.0 73.4
130 93.7 77.5 116.3



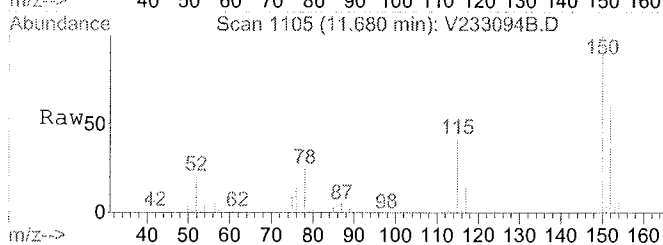
#47
Toluene-d8 (SURRE)
Concen: Below ppb
RT: 7.23 min Scan# 643
Delta R.T. -0.02 min
Lab File: V233094B.D
Acq: 3 Nov 2013 9:01 pm

Tgt Ion: 98 Resp: 1333371
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 72.2 57.3 85.9
70 0.0 0.0 0.0

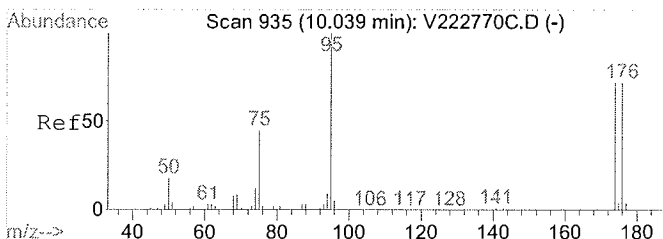
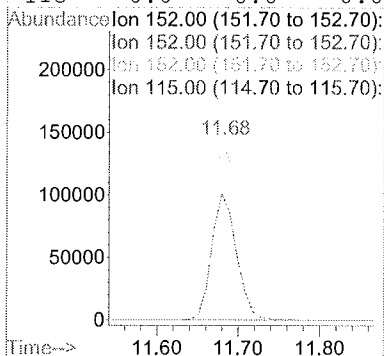
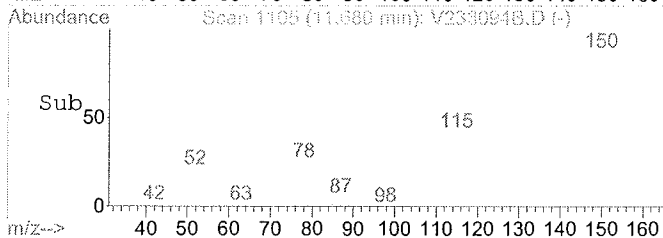




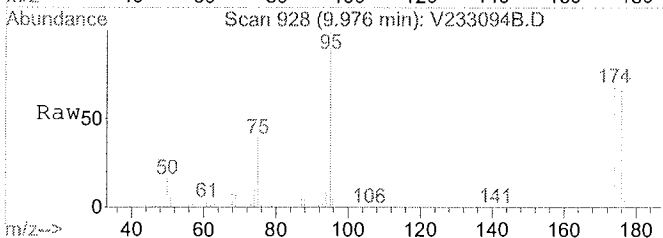
#64
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.68 min Scan# 1105
Delta R.T. -0.02 min
Lab File: V233094B.D
Acq: 3 Nov 2013 9:01 pm



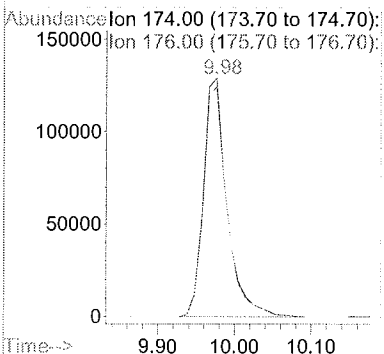
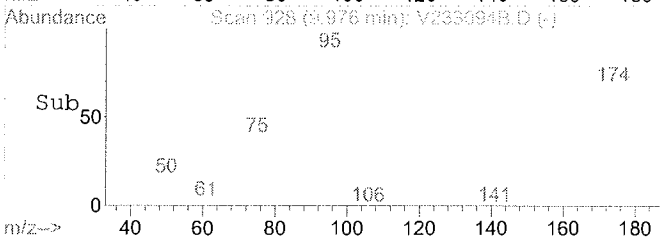
Tgt Ion:152 Resp: 303442
Ion Ratio Lower Upper
152 100
152 100.0 80.0 120.0
152 100.0 80.0 120.0
115 0.0 0.0 0.0



#66
p-Bromofluorobenzene (SURR)
Concen: N.D. ppb
RT: 9.98 min Scan# 928
Delta R.T. -0.01 min
Lab File: V233094B.D
Acq: 3 Nov 2013 9:01 pm



Tgt Ion:174 Resp: 275928
Ion Ratio Lower Upper
174 100
176 96.2 75.0 112.4



Response Factor Report MS VOA 2

Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration

Calibration Files

20 =V232436C.D 50 =V232437C.D 100 =V232438C.D
 200 =V232439C.D 5 =V232434C.D 10 =V232435C.D

Compound		20	50	100	200	5	10	Avg	%RSD

1)	FLUOROBENZENE(ISTD)	-----ISTD-----							
2)	Dichlorodifluoromet	1.194	1.289	1.233	1.294	0.765	1.092	1.145	17.50
3) P	Chloromethane	2.212	2.258	2.175	2.230	2.167	2.203	2.207	1.53
4) C	Vinyl Chloride	1.737	1.815	1.700	1.756	1.604	1.681	1.715	4.20#
5)	Bromomethane	0.747	0.793	0.727	0.734	0.819	0.815	0.773	5.38
6)	Chloroethane	0.860	0.958	0.882	0.898	0.782	0.818	0.866	7.12
7)	Trichlorofluorometh	1.190	1.292	1.218	1.256	1.215	1.095	1.211	5.53
8)	Ethyl Ether	0.716	0.790	0.760	0.817	0.672	0.666	0.737	8.47
9)	Freon-113	0.901	0.948	0.939	0.940	0.806	0.827	0.894	6.97
10) C,M	1,1-Dichloroethylen	1.543	1.543	1.492	1.457	1.419	1.457	1.485	3.39#
11)	Acrolein	0.108	0.111	0.124	0.134	0.112	0.110	0.116	8.74
12)	Iodomethane	0.801	1.123	1.183	1.317	0.511	0.606	0.923	35.86
13)	Methyl Acetate	0.465	0.546	0.556	0.551	0.463	0.493	0.512	8.53
14)	tert Butyl Alcohol	0.054	0.061	0.075	0.083	0.055	0.052	0.063	19.99
15)	Acrylonitrile	0.291	0.345	0.358	0.353	0.266	0.306	0.320	11.83
16)	trans-1,2-Dichloroe	1.855	1.891	1.794	1.815	1.834	1.890	1.847	2.15
17)	Carbon Disulfide	3.649	3.796	3.361	3.628	3.658	3.612	3.618	3.92
18)	Methylene Chloride	1.687	1.582	1.348	1.389	2.625	1.931	1.760	26.91
19)	tert-Butyl Methyl E	2.619	2.656	2.597	2.585	2.539	2.645	2.607	1.64
20)	Acetone	0.209	0.259	0.285	0.257	0.346	0.260	0.269	16.75
21) P	1,1-Dichloroethane	2.606	2.741	2.598	2.593	2.422	2.574	2.589	3.92
22)	Vinyl Acetate	2.279	2.343	2.265	2.172	2.093	2.227	2.230	3.93
23)	cis-1,2-Dichloroeth	1.389	1.501	1.425	1.398	1.305	1.393	1.402	4.51
24)	2-Butanone	0.487	0.536	0.576	0.497	0.537	0.526	0.527	6.02
25)	2,2-Dichloropropane	1.650	1.720	1.644	1.622	1.575	1.597	1.635	3.10
26)	Bromochloromethane	1.260	1.265	1.211	1.205	1.072	1.139	1.192	6.23
27) C	Chloroform	1.974	2.094	1.986	1.996	1.804	1.963	1.969	4.76#
28)	1,1,1-Trichloroetha	1.472	1.602	1.486	1.548	1.428	1.428	1.494	4.62
29)	Cyclohexane	2.642	3.113	2.915	2.537	2.532	2.510	2.708	9.21
30)	1,1-Dichloropropyle	1.839	1.886	1.732	1.724	1.844	1.782	1.801	3.66
31) S	d4-1,2-Dichloroetha	0.852	0.843	0.836	0.817	0.861	0.848	0.843	1.79
32)	Carbon Tetrachlorid	1.219	1.250	1.186	1.206	1.200	1.137	1.200	3.15
33)	1,2-Dichloroethane	1.047	1.109	1.077	1.068	1.038	1.080	1.070	2.38
34) M	Benzene	5.345	5.403	5.267	5.003	5.587	5.318	5.321	3.59
35)	CHLOROBENZENE-d5 (ISTD	-----ISTD-----							
36)	Tetrahydrofuran	0.102	0.110	0.126	0.109	0.088	0.099	0.106	12.14
37) M	Trichloroethylene	0.427	0.440	0.462	0.426	0.425	0.409	0.432	4.16
38)	Methyl Cyclohexane	0.811	0.885	0.899	0.782	0.799	0.810	0.831	5.84
39)	Methyl Methacrylat	0.242	0.267	0.283	0.255	0.228	0.238	0.252	8.08
40)	Dibromomethane	0.205	0.223	0.233	0.214	0.192	0.203	0.212	7.03
41)	Bromodichloromethan	0.500	0.530	0.544	0.514	0.445	0.488	0.503	6.95
42) C	1,2-Dichloropropane	0.512	0.538	0.544	0.484	0.490	0.504	0.512	4.80#
43)	1,4-Dioxane	0.002	0.003	0.003	0.003	0.002	0.002	0.003#	24.02
44)	2-Chloroethyl vinyl							0.000#	-1.00
45)	cis-1,3-Dichloropro	0.683	0.732	0.739	0.696	0.670	0.702	0.704	3.88
46)	2-Hexanone	0.277	0.280	0.311	0.281	0.251	0.258	0.276	7.66
47) S	Toluene-d8 (SURR)	1.437	1.394	1.394	1.419	1.480	1.345	1.411	3.23
48) C,M	Toluene	1.765	1.769	1.746	1.568	1.843	1.746	1.740	5.25#
49)	trans-1,3-Dichlorop	0.515	0.553	0.570	0.539	0.455	0.520	0.526	7.64
50)	1,1,2-Trichloroetha	0.273	0.278	0.279	0.279	0.226	0.253	0.265	8.06
51)	1,3-Dichloropropane	0.574	0.607	0.614	0.584	0.588	0.597	0.594	2.52
52)	Tetrachloroethylene	0.360	0.397	0.423	0.414	0.366	0.359	0.387	7.41

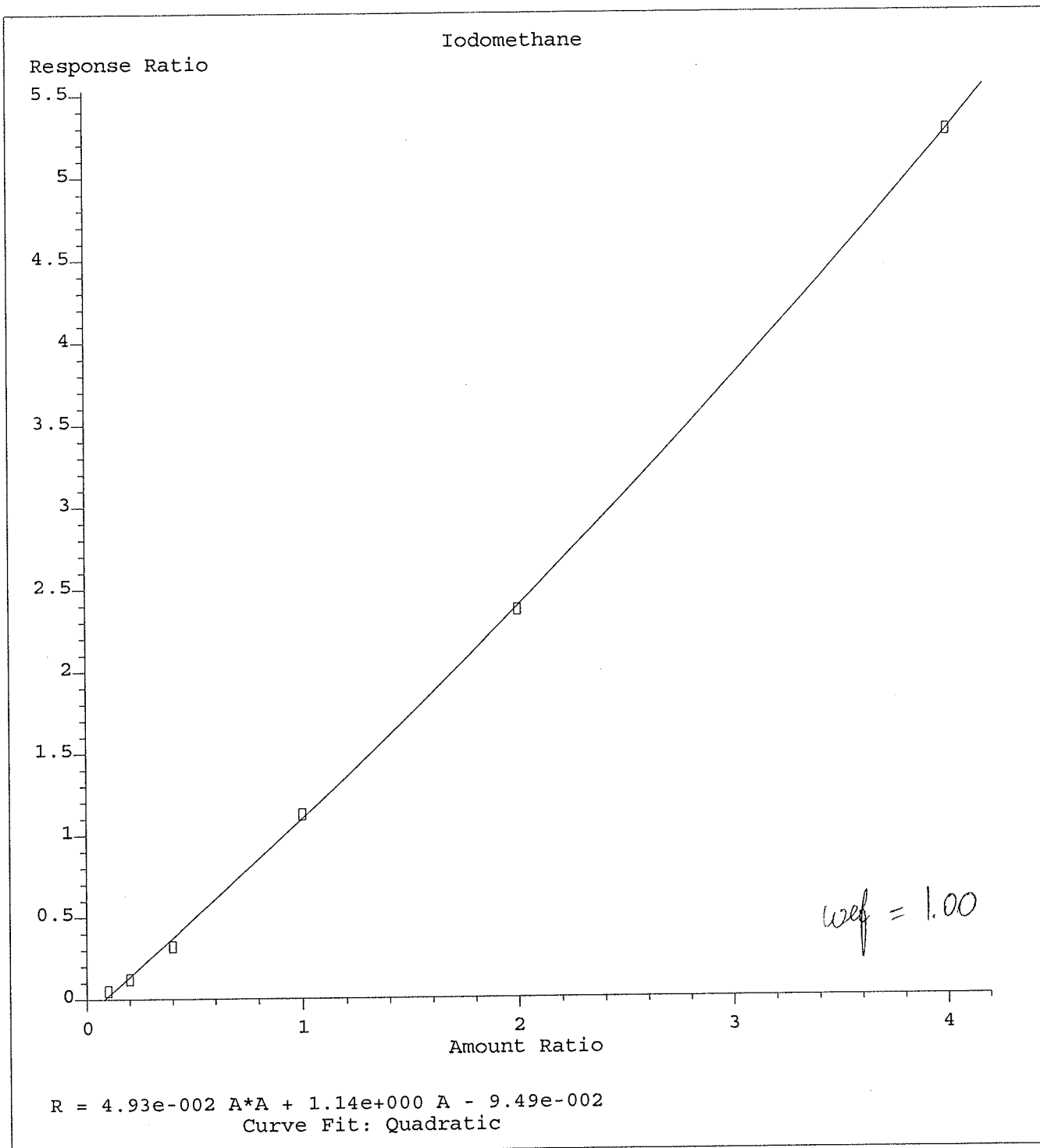
Response Factor Report MS VOA 2

Method : G:\MSVOA2-1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration

Calibration Files

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 200 =V232439C.D 5 =V232434C.D 10 =V232435C.D

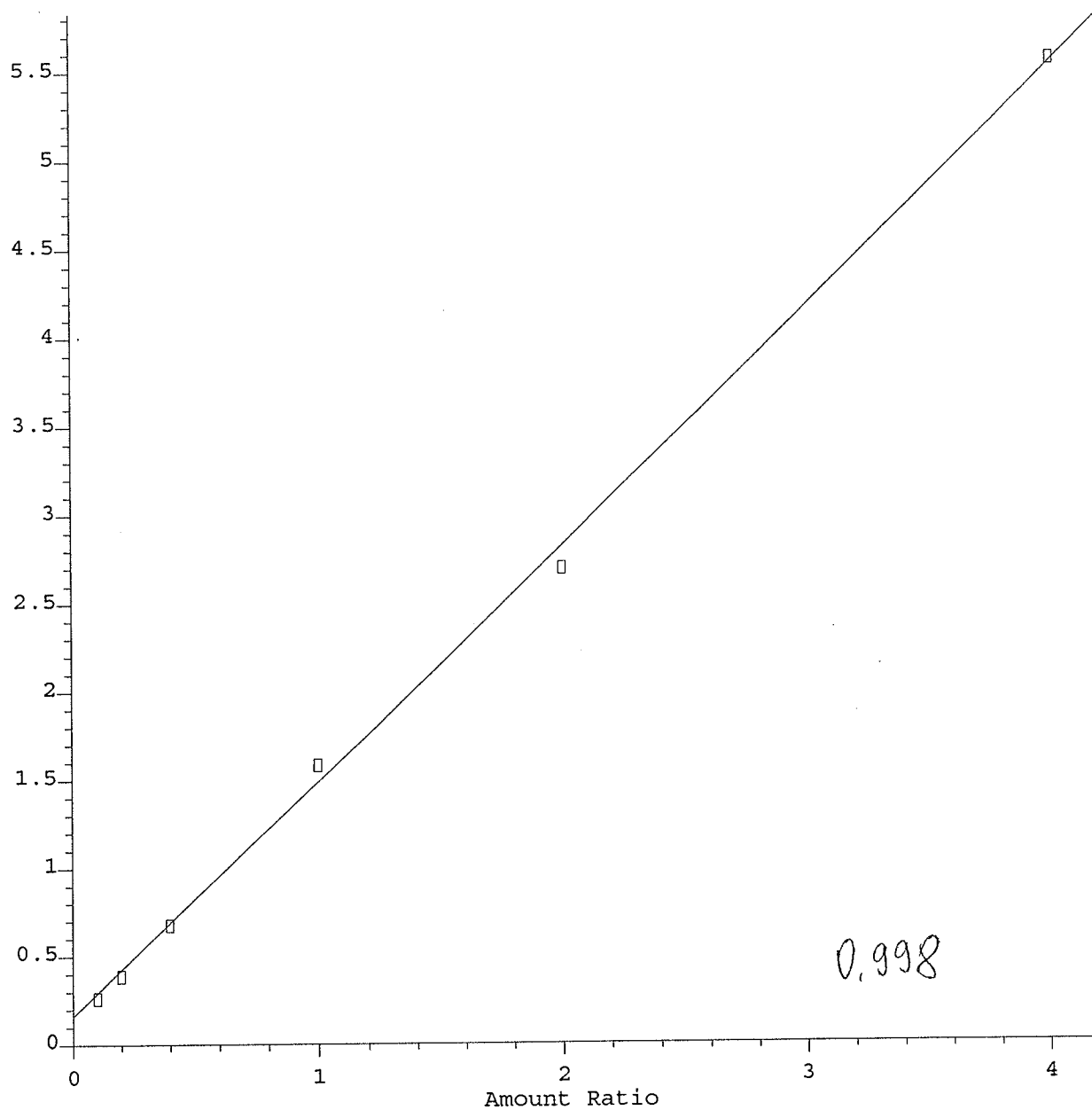
	Compound	20	50	100	200	5	10	Avg	%RSD
53)	4-Methyl-2-Pentanone	0.458	0.431	0.458	0.441	0.486	0.423	0.450	5.09
54)	Dibromochloromethane	0.327	0.341	0.351	0.348	0.285	0.289	0.324	9.10
55)	1,2-Dibromoethane	0.289	0.308	0.314	0.313	0.249	0.294	0.294	8.30
56) P,M	Chlorobenzene	1.037	1.052	1.031	0.994	0.969	0.985	1.011	3.27
57) C	Ethyl Benzene	1.872	1.940	1.829	1.674	1.780	1.860	1.826	4.98#
58)	p- & m-Xylenes	1.463	1.435	1.342	1.179	1.422	1.405	1.374	7.56
59)	o-Xylene	1.420	1.423	1.344	1.208	1.306	1.385	1.348	6.09
60)	Styrene	0.922	0.989	0.977	0.884	0.805	0.873	0.908	7.62
61)	1,1,1,2-Tetrachloro	0.310	0.325	0.330	0.325	0.268	0.288	0.308	8.02
62)	p-Ethyltoluene	1.496	1.577	1.524	1.340	1.369	1.312	1.436	7.64
63)	p-Diethylbenzene	2.474	0.995	0.867	0.748	4.714	4.307	2.351	76.18
64)	1,2-DICHLOROBENZENE-d	-----ISTD-----							
65) p	Bromoform	0.468	0.529	0.546	0.576	0.390	0.464	0.496	13.65
66) S	p-Bromofluorobenzene	0.962	0.975	0.969	0.979	0.940	0.953	0.963	1.53
67) P	1,1,2,2-Tetrachloro	1.180	1.280	1.184	1.249	1.056	1.262	1.202	6.88
68)	trans-1,4-Dichloro-	1.326	1.390	1.378	1.404	1.167	1.374	1.340	6.61
69)	1,2,3-Trichloroprop	0.249	0.269	0.278	0.287	0.215	0.243	0.257	10.18
70)	Isopropylbenzene	5.341	5.137	5.057	5.038	5.029	5.422	5.171	3.28
71)	Bromobenzene	2.436	2.611	2.435	2.540	2.345	2.475	2.474	3.74
72)	n-Propylbenzene	6.941	7.110	6.471	6.529	4.115	7.048	6.369	17.84
73)	2-Chlorotoluene	3.872	4.117	3.811	3.807	3.709	3.959	3.879	3.68
74)	4-Chlorotoluene	4.218	4.223	4.008	3.756	4.169	4.159	4.089	4.42
75)	tert-Butylbenzene	4.371	4.422	4.129	4.245	4.390	4.281	4.307	2.55
76)	1,3,5-trimethylbenz	4.037	3.977	3.837	3.740	3.983	4.075	3.941	3.24
77)	1,2,4-trimethylbenz	3.762	3.840	3.657	3.642	3.772	3.748	3.737	2.00
78)	sec-Butylbenzene	5.281	5.345	5.101	5.204	5.083	5.019	5.172	2.44
79)	1,3-Dichlorobenzene	1.872	2.045	1.988	1.973	1.805	1.944	1.938	4.46
80)	1,4-Dichlorobenzene	1.879	1.982	1.975	1.945	1.805	1.887	1.912	3.56
81)	1,2-Dichlorobenzene	1.695	1.732	1.731	1.717	1.623	1.649	1.691	2.70
82)	p-Isopropyltoluene	3.865	4.082	3.856	3.824	3.751	3.728	3.851	3.27
83)	n-Butylbenzene	6.011	4.750	4.651	4.490	8.193	8.217	6.052	28.97
84)	1,2,4,5-Tetramethyl	2.965	3.248	3.102	3.023	2.802	2.995	3.023	4.90
85)	1,2-Dibromo-3-chlor	0.110	0.124	0.138	0.145	0.082	0.107	0.118	19.68
86)	1,2,4-Trichlorobenz	0.768	0.875	0.939	0.969	0.684	0.789	0.837	13.07
87)	Naphthalene	1.610	1.846	1.937	1.997	1.200	1.626	1.702	17.20
88)	Hexachloro-1,3-Buta	0.447	0.497	0.514	0.549	0.365	0.432	0.467	14.19
89)	1,2,3-Trichlorobenz	0.619	0.738	0.767	0.812	0.497	0.638	0.679	17.09



Method Name: G:\MSVOA2~1\METHODS\V2C00349.M
Calibration Table Last Updated: Wed Oct 02 08:51:08 2013

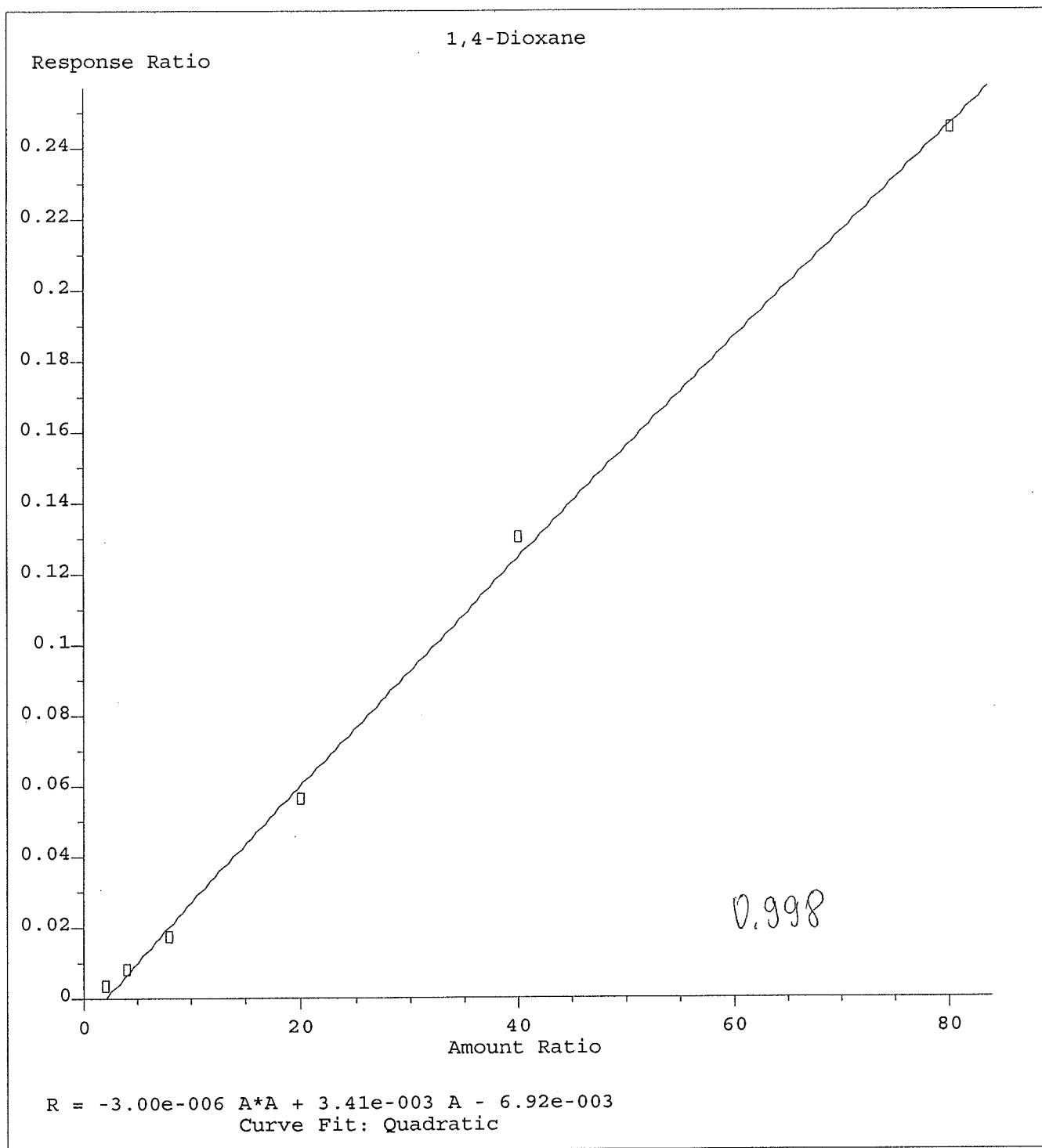
Methylene Chloride

Response Ratio

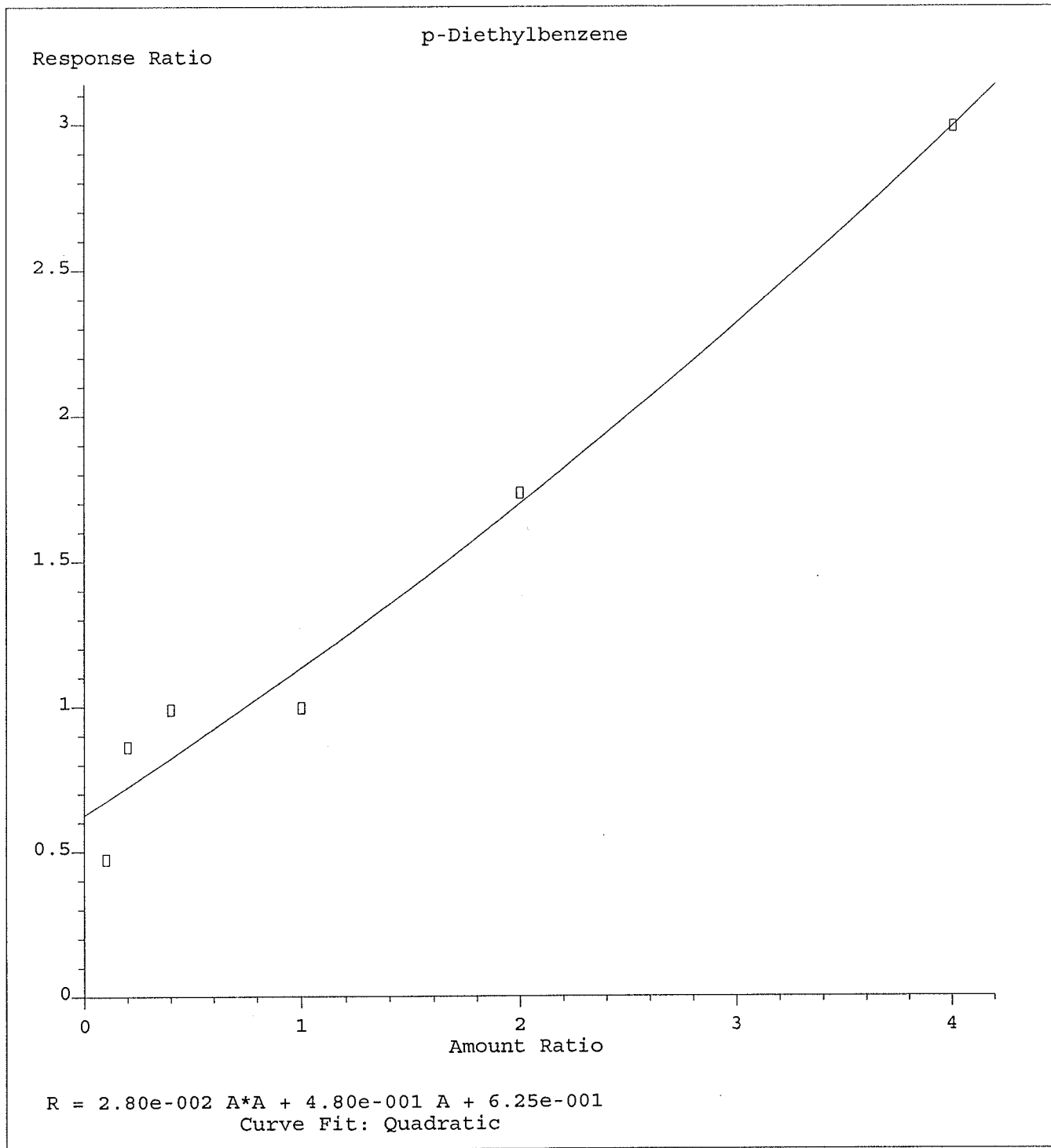


$R = 6.27e-003 A^2 + 1.32e+000 A + 1.61e-001$
Curve Fit: Quadratic

Method Name: G:\MSVOA2~1\METHODS\V2C00349.M
Calibration Table Last Updated: Tue Oct 15 09:34:02 2013

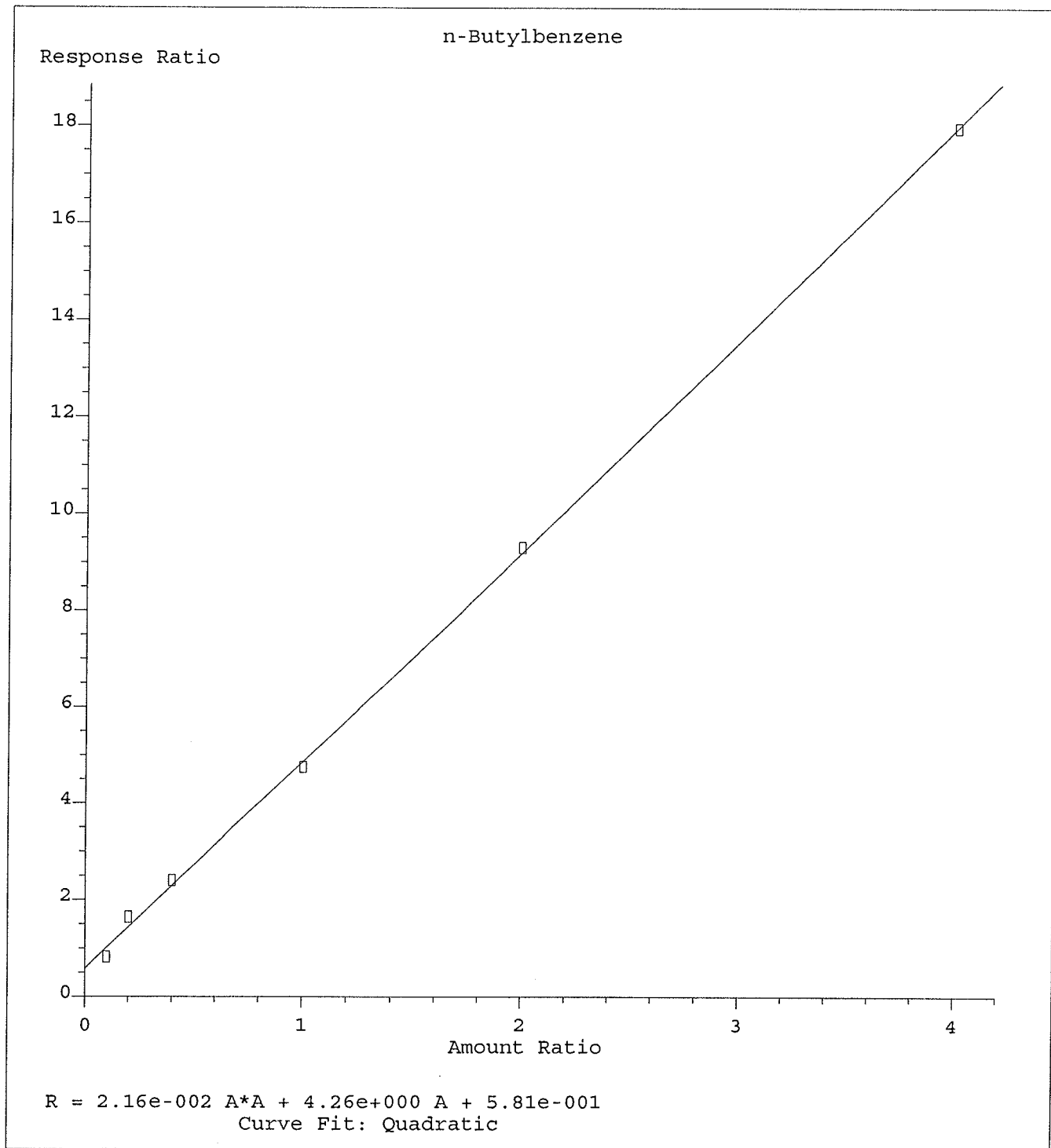


Method Name: G:\MSVOA2~1\METHODS\V2C00349.M
Calibration Table Last Updated: Tue Oct 15 09:34:22 2013



Method Name: G:\MSVOA2~1\METHODS\V2C00349.M
Calibration Table Last Updated: Tue Oct 15 09:35:08 2013

0.974 !



Method Name: G:\MSVOA2~1\METHODS\V2C00349.M
Calibration Table Last Updated: Tue Oct 15 09:35:53 2013

0.999

Data File : G:\MSVOA2~1\DAI\DAT\2101413\232434C.D Vial: 9
 Acq On : 14 Oct 2013 2:10 pm Operator: SS
 Sample : 5 ppb VOA CALIBRATION STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 9:29 19113 Quant Results File: V2C00348.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE(ISTD)	5.74	70	350514	50.00	ppb	-0.05
35) CHLOROBEZENE-d5(ISTD)	8.72	117	944926	50.00	ppb	-0.06
64) 1,2-DICHLOROBEZENE-d4(IST)	11.69	152	295237	50.00	ppb	-0.05

System Monitoring Compounds

31) d4-1,2-Dichloroethane(SURR)	5.43	65	301747	49.97	ppb	-0.05
Spiked Amount	50.000	Range	67 - 128	Recovery	=	99.94%
47) Toluene-d8(SURR)	7.25	98	1398057	57.29	ppb	-0.05
Spiked Amount	50.000	Range	87 - 113	Recovery	=	114.58%#
66) p-Bromofluorobenzene(SURR)	9.98	174	277456	45.05	ppb	-0.06
Spiked Amount	50.000	Range	63 - 166	Recovery	=	90.10%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.68	85	38322m	4.84	ppb	
3) Chloromethane	1.86	50	75968	4.03	ppb	100
4) Vinyl Chloride	1.96	62	56219	3.77	ppb	# 97
5) Bromomethane	2.28	94	33211m	4.79	ppb	
6) Chloroethane	2.38	64	31336m	3.76	ppb	
7) Trichlorofluoromethane	2.62	101	42581	4.60	ppb	100
8) Ethyl Ether	2.88	59	23553	3.37	ppb	93
9) Freon-113	3.09	101	28254	3.60	ppb	86
10) 1,1-Dichloroethylene	3.09	61	49736	3.59	ppb	99
11) Acrolein	3.00	56	3924	3.40	ppb	93
12) Iodomethane	3.24	142	17907	1.37	ppb	100
13) Methyl Acetate	3.44	43	16244	2.76	ppb	100
14) tert Butyl Alcohol (TBA)	3.64	59	1939m	3.68	ppb	
15) Acrylonitrile	3.75	53	9315	3.58	ppb	# 100
16) trans-1,2-Dichloroethylene	3.77	61	64278	4.44	ppb	99
17) Carbon Disulfide	3.30	76	128225	3.90	ppb	100
18) Methylene Chloride	3.53	49	92006	6.14	ppb	93
19) tert-Butyl Methyl Ether (M	3.78	73	89013	4.82	ppb	# 100
20) Acetone	3.14	43	12135	5.24	ppb	94
21) 1,1-Dichloroethane	4.16	63	84895	4.48	ppb	99
22) Vinyl Acetate	4.20	43	73373	3.54	ppb	100
23) cis-1,2-Dichloroethylene	4.69	96	45755	4.62	ppb	# 97
24) 2-Butanone	4.70	43	18810	4.58	ppb	100
25) 2,2-Dichloropropane	4.69	77	55196	4.89	ppb	98
26) Bromochloromethane	4.90	49	37575	3.89	ppb	99
27) Chloroform	4.97	83	63236	4.69	ppb	99
28) 1,1,1-Trichloroethane	5.14	97	50053	5.10	ppb	# 96
29) Cyclohexane	5.19	56	88751	4.04	ppb	94
30) 1,1-Dichloropropylene	5.28	75	64632	5.12	ppb	99
32) Carbon Tetrachloride	5.29	117	42079	5.08	ppb	99
33) 1,2-Dichloroethane	5.50	62	36388	4.83	ppb	99
34) Benzene	5.49	78	195830	5.50	ppb	100
36) Tetrahydrofuran	4.95	42	8345	3.92	ppb	90
37) Trichloroethylene	6.07	95	40161	5.39	ppb	92
38) Methyl Cyclohexane	6.26	83	75530	5.39	ppb	# 96
39) Methyl Methacrylate	6.38	69	21567	5.15	ppb	# 97
40) Dibromomethane	6.40	93	18158	4.96	ppb	# 82
41) Bromodichloromethane	6.54	83	42054	4.92	ppb	98

(#) = qualifier out of range (m) = manual integration
 V232434C.D V2C00348.M Tue Oct 15 09:29:45 2013

Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232434C.D Vial: 9
 Acq On : 14 Oct 2013 2:10 pm Operator: SS
 Sample : 5 ppb VOA CALIBRATION STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 9:29 19113 Quant Results File: V2C00348.RES

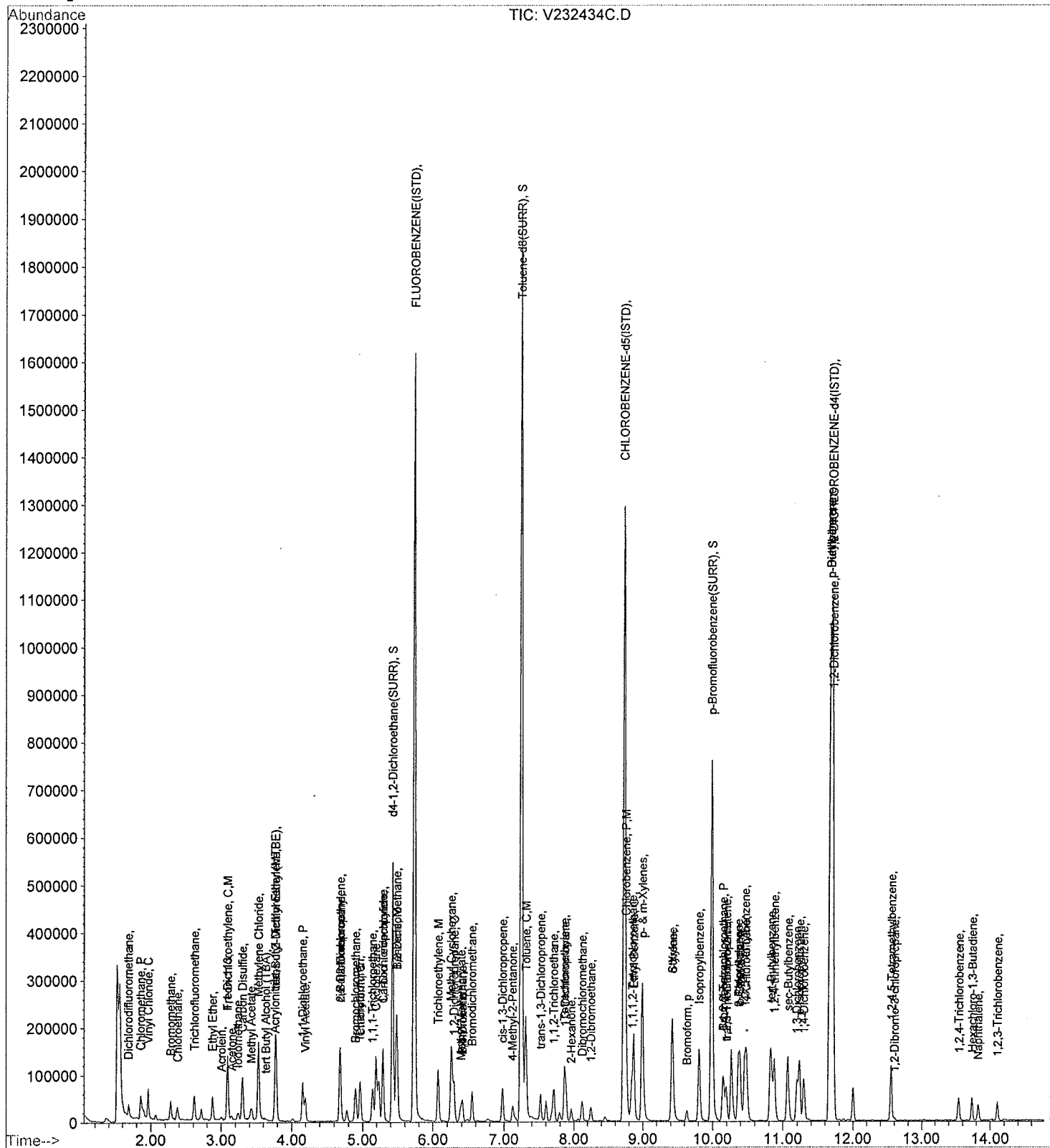
Quant Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) 1,2-Dichloropropane	6.29	63	46343	5.04	ppb	99
43) 1,4-Dioxane	6.42	88	3361	70.85	ppb	97
45) cis-1,3-Dichloropropene	6.98	75	63278	5.25	ppb	# 98
46) 2-Hexanone	7.96	43	23725	4.49	ppb	98
48) Toluene	7.31	91	174150	5.91	ppb	98
49) trans-1,3-Dichloropropene	7.53	75	43016	4.85	ppb	# 90
50) 1,1,2-Trichloroethane	7.71	83	21326	4.77	ppb	93
51) 1,3-Dichloropropane	7.88	76	55528	5.54	ppb	# 99
52) Tetrachloroethylene	7.86	166	34613	3.67	ppb	# 100
53) 4-Methyl-2-Pentanone	7.12	43	35457m	3.23	ppb	
54) Dibromochloromethane	8.12	129	26942	4.59	ppb	97
55) 1,2-Dibromoethane	8.25	107	23518	4.57	ppb	99
56) Chlorobenzene	8.76	112	91563	4.88	ppb	# 87
57) Ethyl Benzene	8.86	91	168186	5.42	ppb	98
58) p- & m-Xylenes	8.99	91	268672	11.68	ppb	97
59) o-Xylene	9.41	91	123408	5.41	ppb	96
60) Styrene	9.43	104	76041	4.32	ppb	98
61) 1,1,1,2-Tetrachloroethane	8.84	131	25318	4.25	ppb	92
62) p-Ethyltoluene	10.38	105	129350	4.83	ppb	89
63) p-Diethylbenzene	11.67	119	445412	37.08	ppb	# 40
65) Bromoform	9.63	173	11528	3.82	ppb	# 100
67) 1,1,2,2-Tetrachloroethane	10.13	83	31165	6.10	ppb	# 98
68) trans-1,4-Dichloro-2-buten	10.19	75	34465	6.09	ppb	# 100
69) 1,2,3-Trichloropropane	10.18	110	6362	5.57	ppb	# 1
70) Isopropylbenzene	9.82	105	148482	6.30	ppb	# 89
71) Bromobenzene	10.15	77	69235	6.63	ppb	# 89
72) n-Propylbenzene	10.37	91	121484	4.24	ppb	# 92
73) 2-Chlorotoluene	10.37	91	109489	6.57	ppb	# 97
74) 4-Chlorotoluene	10.48	91	123080	7.21	ppb	# 97
75) tert-Butylbenzene	10.83	119	129623	6.45	ppb	# 91
76) 1,3,5-trimethylbenzene	10.45	105	117601	6.77	ppb	97
77) 1,2,4-trimethylbenzene	10.88	105	111356	6.68	ppb	98
78) sec-Butylbenzene	11.07	105	150073	6.07	ppb	# 99
79) 1,3-Dichlorobenzene	11.19	146	54839m	5.32	ppb	
80) 1,4-Dichlorobenzene	11.30	146	53283	5.37	ppb	# 98
81) 1,2-Dichlorobenzene	11.71	146	47912	5.34	ppb	# 98
82) p-Isopropyltoluene	11.23	119	110755	6.13	ppb	# 98
83) n-Butylbenzene	11.67	91	241876m	12.57	ppb	
84) 1,2,4,5-Tetramethylbenzene	12.55	119	82739	6.02	ppb	96
85) 1,2-Dibromo-3-chloropropan	12.60	75	2411	4.06	ppb	78
86) 1,2,4-Trichlorobenzene	13.54	180	20180	3.90	ppb	99
87) Naphthalene	13.82	128	35431	4.58	ppb	# 100
88) Hexachloro-1,3-Butadiene	13.73	225	10770	2.87	ppb	# 100
89) 1,2,3-Trichlorobenzene	14.10	182	14678	3.42	ppb	100

Quantitation Report

Data File : G:\MSVOA2~1\DAILYDAT\V2101413\V232434C.D Vial: 9
Acq On : 14 Oct 2013 2:10 pm Operator: SS
Sample : 5 ppb VOA CALIBRATION STD Inst : MS VOA 2
Misc : QBV2101413A Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 9:29 19113 Quant Results File: V2C00348.RES

Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)
Title : VOCs BY GC/MS 8240/8260
Last Update : Wed Oct 02 08:51:08 2013
Response via : Initial Calibration



Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232435C.D Vial: 10
 Acq On : 14 Oct 2013 2:46 pm Operator: SS
 Sample : 10 ppb VOA CALIBRATION STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 9:30 19113 Quant Results File: V2C00348.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE(ISTD)	5.74	70	352788	50.00	ppb	-0.05
35) CHLOROBENZENE-d5(ISTD)	8.72	117	973771	50.00	ppb	-0.06
64) 1,2-DICHLOROBENZENE-d4(ISTD)	11.69	152	297628	50.00	ppb	-0.05

System Monitoring Compounds

31) d4-1,2-Dichloroethane(SURR)	5.43	65	299138	49.21	ppb	-0.05
Spiked Amount	50.000	Range	67 - 128	Recovery	=	98.42%
47) Toluene-d8(SURR)	7.25	98	1309914	52.08	ppb	-0.05
Spiked Amount	50.000	Range	87 - 113	Recovery	=	104.16%
66) p-Bromofluorobenzene(SURR)	9.99	174	283522	45.67	ppb	-0.05
Spiked Amount	50.000	Range	63 - 166	Recovery	=	91.34%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.68	85	77050	9.66	ppb	# 57
3) Chloromethane	1.86	50	155440	8.20	ppb	100
4) Vinyl Chloride	1.96	62	118578	7.90	ppb	100
5) Bromomethane	2.28	94	57518	8.24	ppb	94
6) Chloroethane	2.38	64	57743	6.88	ppb	100
7) Trichlorofluoromethane	2.61	101	77295	8.29	ppb	99
8) Ethyl Ether	2.88	59	46989	6.68	ppb	91
9) Freon-113	3.09	101	58356	7.39	ppb	96
10) 1,1-Dichloroethylene	3.09	61	102774	7.38	ppb	98
11) Acrolein	3.00	56	7753	6.67	ppb	# 81
12) Iodomethane	3.24	142	42737	3.26	ppb	99
13) Methyl Acetate	3.44	43	34815	5.88	ppb	99
14) tert Butyl Alcohol (TBA)	3.64	59	3675	6.92	ppb	# 100
15) Acrylonitrile	3.75	53	21565	8.23	ppb	# 100
16) trans-1,2-Dichloroethylene	3.77	61	133351	9.15	ppb	99
17) Carbon Disulfide	3.30	76	254872	7.70	ppb	100
18) Methylene Chloride	3.53	49	136217	9.03	ppb	# 93
19) tert-Butyl Methyl Ether (M)	3.78	73	186645	10.03	ppb	# 100
20) Acetone	3.14	43	18347	7.87	ppb	94
21) 1,1-Dichloroethane	4.16	63	181605	9.53	ppb	100
22) Vinyl Acetate	4.20	43	157129	7.53	ppb	100
23) cis-1,2-Dichloroethylene	4.68	96	98271	9.86	ppb	# 99
24) 2-Butanone	4.70	43	37131	8.99	ppb	99
25) 2,2-Dichloropropane	4.69	77	112665	9.92	ppb	99
26) Bromochloromethane	4.90	49	80397	8.28	ppb	98
27) Chloroform	4.97	83	138515	10.21	ppb	98
28) 1,1,1-Trichloroethane	5.14	97	100752	10.20	ppb	97
29) Cyclohexane	5.19	56	177081	8.01	ppb	94
30) 1,1-Dichloropropylene	5.28	75	125744	9.90	ppb	99
32) Carbon Tetrachloride	5.29	117	80192	9.62	ppb	100
33) 1,2-Dichloroethane	5.50	62	76180	10.04	ppb	99
34) Benzene	5.49	78	375249	10.46	ppb	100
36) Tetrahydrofuran	4.95	42	19214	8.76	ppb	86
37) Trichloroethylene	6.07	95	79689	10.39	ppb	93
38) Methyl Cyclohexane	6.26	83	157836	10.93	ppb	# 97
39) Methyl Methacrylate	6.38	69	46330	10.74	ppb	# 97
40) Dibromomethane	6.41	93	39496	10.47	ppb	# 61
41) Bromodichloromethane	6.54	83	94983	10.78	ppb	98

(#) = qualifier out of range (m) = manual integration
 V232435C.D V2C00348.M Tue Oct 15 09:30:06 2013

Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232435C.D Vial: 10
 Acq On : 14 Oct 2013 2:46 pm Operator: SS
 Sample : 10 ppb VOA CALIBRATION STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 9:30 19113 Quant Results File: V2C00348.RES

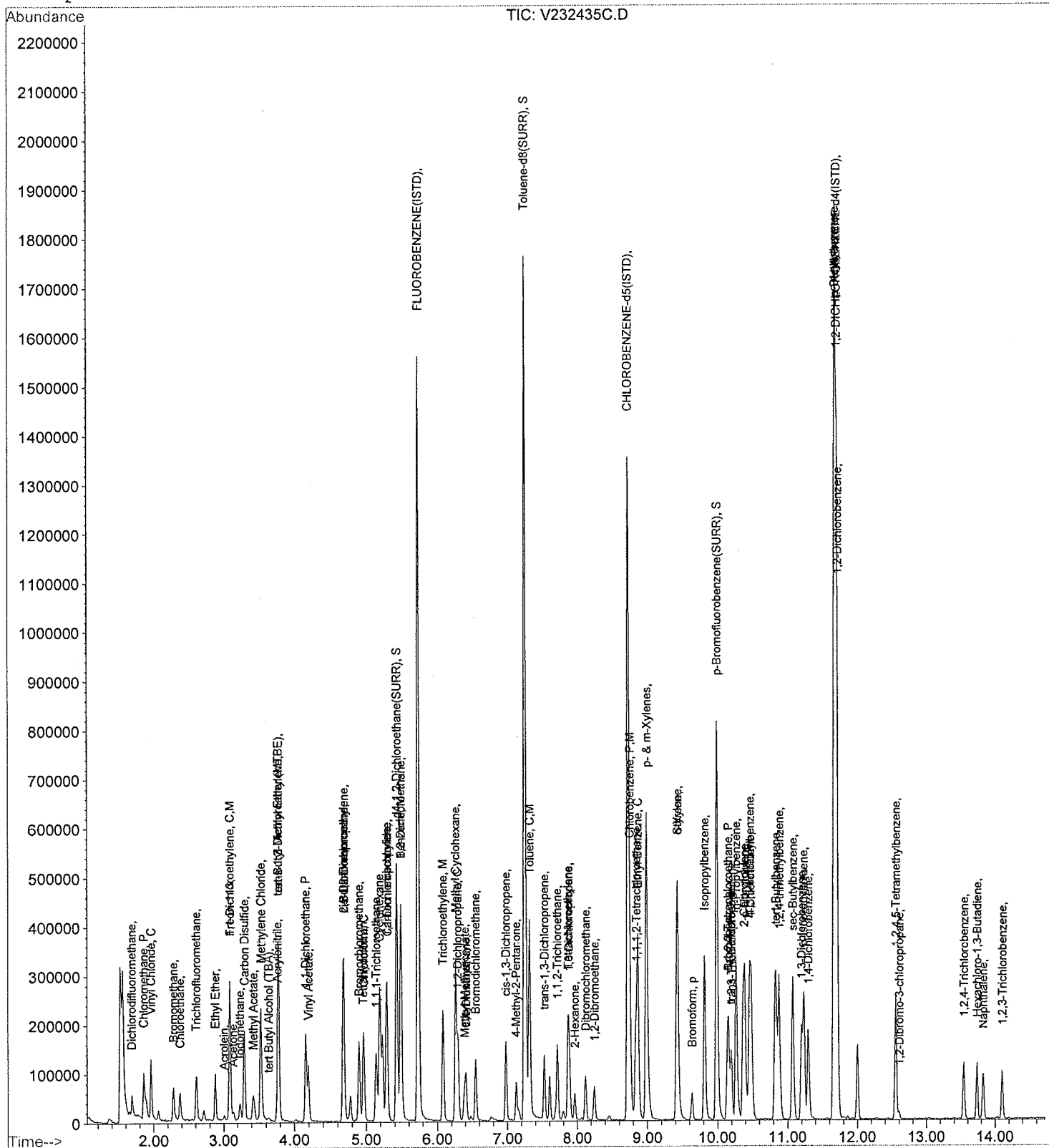
Quant Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)

Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) 1,2-Dichloropropane	6.29	63	98064	10.35	ppb	99
43) 1,4-Dioxane	6.42	88	7941	162.43	ppb	95
45) cis-1,3-Dichloropropene	6.98	75	136635	11.01	ppb	98
46) 2-Hexanone	7.96	43	50247	9.23	ppb	98
48) Toluene	7.31	91	340047	11.20	ppb	99
49) trans-1,3-Dichloropropene	7.53	75	101307	11.07	ppb	99
50) 1,1,2-Trichloroethane	7.71	83	49370	10.72	ppb	98
51) 1,3-Dichloropropane	7.88	76	116186	11.25	ppb	# 99
52) Tetrachloroethylene	7.86	166	69925	7.20	ppb	# 100
53) 4-Methyl-2-Pentanone	7.12	43	82334m	7.28	ppb	
54) Dibromochloromethane	8.12	129	56301	9.30	ppb	99
55) 1,2-Dibromoethane	8.25	107	57224	10.79	ppb	99
56) Chlorobenzene	8.76	112	191853	9.92	ppb	# 87
57) Ethyl Benzene	8.86	91	362295	11.33	ppb	98
58) p- & m-Xylenes	8.99	91	547302	23.09	ppb	97
59) o-Xylene	9.41	91	269781	11.47	ppb	97
60) Styrene	9.43	104	170002	9.37	ppb	98
61) 1,1,1,2-Tetrachloroethane	8.84	131	56186	9.15	ppb	95
62) p-Ethyltoluene	10.39	105	255525	9.27	ppb	87
63) p-Diethylbenzene	11.67	119	838747	67.76	ppb	# 42
65) Bromoform	9.63	173	27634	9.08	ppb	# 100
67) 1,1,2,2-Tetrachloroethane	10.14	83	75119	14.58	ppb	# 96
68) trans-1,4-Dichloro-2-buten	10.19	75	81801	14.35	ppb	# 99
69) 1,2,3-Trichloropropane	10.19	110	14478	12.58	ppb	72
70) Isopropylbenzene	9.81	105	322743	13.58	ppb	# 99
71) Bromobenzene	10.15	77	147309	14.00	ppb	# 89
72) n-Propylbenzene	10.26	91	419528	14.52	ppb	99
73) 2-Chlorotoluene	10.37	91	235661	14.02	ppb	# 97
74) 4-Chlorotoluene	10.48	91	247564	14.39	ppb	# 97
75) tert-Butylbenzene	10.82	119	254833	12.58	ppb	# 99
76) 1,3,5-trimethylbenzene	10.46	105	242544	13.84	ppb	98
77) 1,2,4-trimethylbenzene	10.88	105	223093	13.28	ppb	99
78) sec-Butylbenzene	11.07	105	298755	11.99	ppb	# 99
79) 1,3-Dichlorobenzene	11.19	146	115732m	11.14	ppb	
80) 1,4-Dichlorobenzene	11.29	146	112330	11.23	ppb	# 97
81) 1,2-Dichlorobenzene	11.71	146	98183	10.86	ppb	# 100
82) p-Isopropyltoluene	11.23	119	221914	12.19	ppb	# 98
83) n-Butylbenzene	11.67	91	489115m	25.22	ppb	
84) 1,2,4,5-Tetramethylbenzene	12.55	119	178250	12.87	ppb	95
85) 1,2-Dibromo-3-chloropropan	12.60	75	6355	10.61	ppb	68
86) 1,2,4-Trichlorobenzene	13.54	180	46986	9.00	ppb	99
87) Naphthalene	13.83	128	96762	12.42	ppb	# 100
88) Hexachloro-1,3-Butadiene	13.73	225	25697	6.79	ppb	# 100
89) 1,2,3-Trichlorobenzene	14.10	182	38003	8.78	ppb	98

Data File : G:\MSVOA2~1\DAILYDAT\V2101413\V232435C.D Vial: 10
Acq On : 14 Oct 2013 2:46 pm Operator: SS
Sample : 10 ppb VOA CALIBRATION STD Inst : MS VOA 2
Misc : QBV2101413A Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 9:30 19113 Quant Results File: V2C00348.RES

Quant Results File: V2C00348.RES



Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232436C.D Vial: 11
 Acq On : 14 Oct 2013 3:21 pm Operator: SS
 Sample : 20 ppb VOA CALIBRATION STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 9:01 19113 Quant Results File: V2C00348.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) FLUOROBENZENE (ISTD)	5.74	70	337573	50.00	ppb	-0.05
35) CHLORO BENZENE-d5 (ISTD)	8.72	117	923574	50.00	ppb	-0.06
64) 1,2-DICHLORO BENZENE-d4 (IST)	11.70	152	303590	50.00	ppb	-0.05

System Monitoring Compounds

31) d4-1,2-Dichloroethane (SURR)	5.43	65	287614	49.45	ppb	-0.04
Spiked Amount	50.000	Range	67 - 128	Recovery	=	98.90%
47) Toluene-d8 (SURR)	7.25	98	1327632	55.66	ppb	-0.05
Spiked Amount	50.000	Range	87 - 113	Recovery	=	111.32%
66) p-Bromofluorobenzene (SURR)	9.98	174	291952	46.10	ppb	-0.06
Spiked Amount	50.000	Range	63 - 166	Recovery	=	92.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.69	85	161184m	21.12	ppb	
3) Chloromethane	1.86	50	298751	16.46	ppb	100
4) Vinyl Chloride	1.96	62	234559	16.33	ppb	100
5) Bromomethane	2.27	94	100836	15.09	ppb	94
6) Chloroethane	2.37	64	116089	14.45	ppb	100
7) Trichlorofluoromethane	2.61	101	160664	18.01	ppb	100
8) Ethyl Ether	2.88	59	96723	14.36	ppb	94
9) Freon-113	3.09	101	121682	16.10	ppb	95
10) 1,1-Dichloroethylene	3.09	61	208372	15.63	ppb	98
11) Acrolein	3.00	56	14637	13.15	ppb	88
12) Iodomethane	3.24	142	108120	8.62	ppb	99
13) Methyl Acetate	3.44	43	62722	11.06	ppb	99
14) tert Butyl Alcohol (TBA)	3.64	59	7293	14.36	ppb	# 100
15) Acrylonitrile	3.76	53	39342	15.69	ppb	# 100
16) trans-1,2-Dichloroethylene	3.77	61	250522	17.97	ppb	98
17) Carbon Disulfide	3.30	76	492770	15.57	ppb	100
18) Methylene Chloride	3.52	49	227795	15.79	ppb	94
19) tert-Butyl Methyl Ether (M	3.77	73	353637	19.87	ppb	# 100
20) Acetone	3.15	43	28189	12.64	ppb	99
21) 1,1-Dichloroethane	4.16	63	351886	19.29	ppb	99
22) Vinyl Acetate	4.20	43	307717	15.41	ppb	100
23) cis-1,2-Dichloroethylene	4.68	96	187582	19.68	ppb	# 99
24) 2-Butanone	4.70	43	65810	16.65	ppb	99
25) 2,2-Dichloropropane	4.68	77	222741	20.50	ppb	100
26) Bromochloromethane	4.90	49	170079	18.30	ppb	98
27) Chloroform	4.97	83	266513	20.53	ppb	100
28) 1,1,1-Trichloroethane	5.14	97	198709	21.02	ppb	98
29) Cyclohexane	5.19	56	356788	16.86	ppb	94
30) 1,1-Dichloropropylene	5.29	75	248348	20.43	ppb	99
32) Carbon Tetrachloride	5.30	117	164592	20.64	ppb	99
33) 1,2-Dichloroethane	5.50	62	141408	19.47	ppb	100
34) Benzene	5.49	78	721712	21.03	ppb	100
36) Tetrahydrofuran	4.95	42	37593	18.07	ppb	91
37) Trichloroethylene	6.07	95	157887	21.69	ppb	95
38) Methyl Cyclohexane	6.26	83	299740	21.88	ppb	# 98
39) Methyl Methacrylate	6.38	69	89267	21.83	ppb	# 99
40) Dibromomethane	6.40	93	75615	21.14	ppb	# 85
41) Bromodichloromethane	6.55	83	184644	22.10	ppb	99

(#) = qualifier out of range (m) = manual integration
 V232436C.D V2C00348.M Tue Oct 15 09:01:43 2013

Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232436C.D Vial: 11
 Acq On : 14 Oct 2013 3:21 pm Operator: SS
 Sample : 20 ppb VOA CALIBRATION STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 9:01 19113 Quant Results File: V2C00348.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)

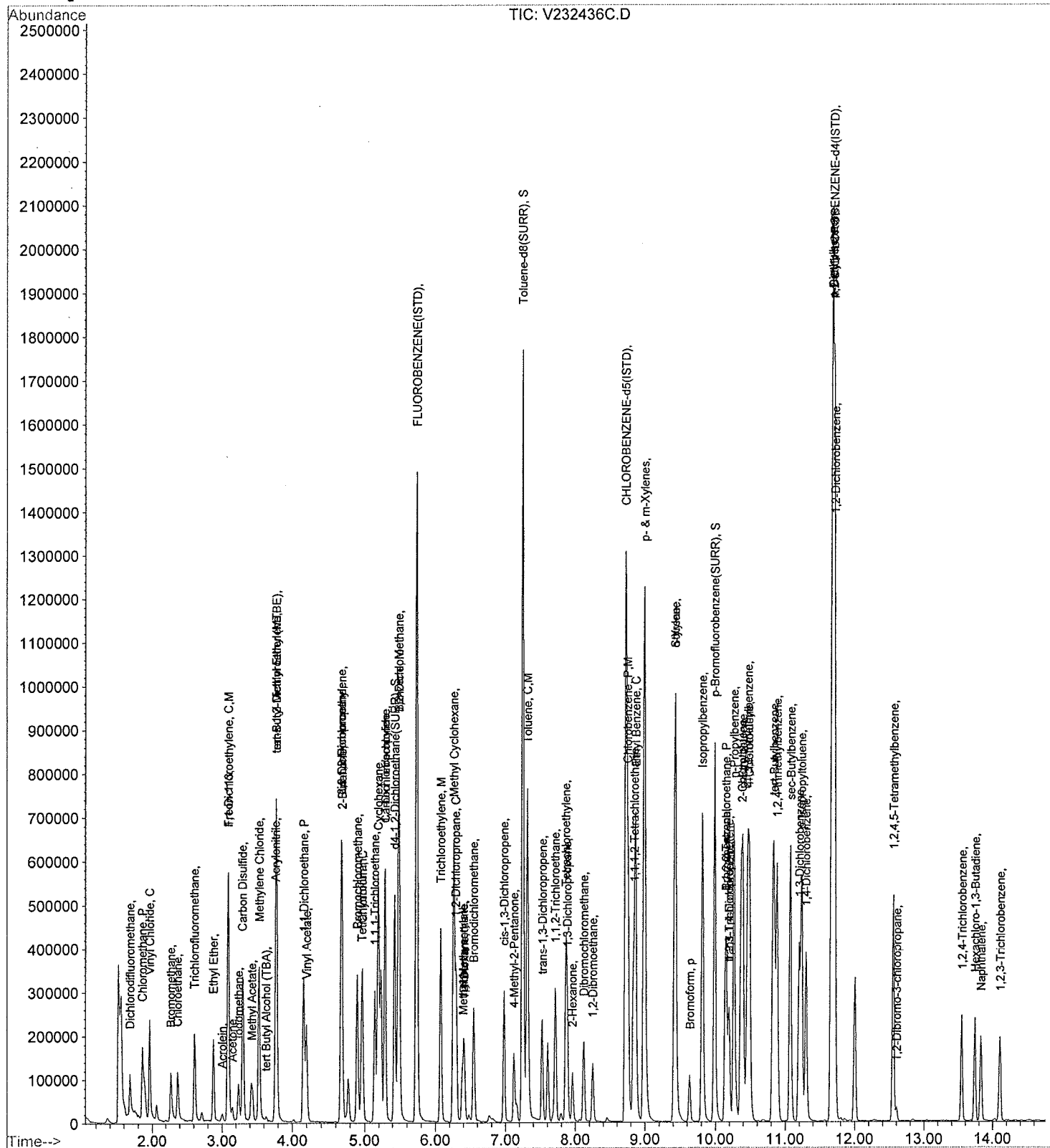
Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) 1,2-Dichloropropane	6.30	63	189273	21.05	ppb	99
43) 1,4-Dioxane	6.42	88	16035	345.81	ppb	99
45) cis-1,3-Dichloropropene	6.98	75	252299	21.43	ppb	99
46) 2-Hexanone	7.96	43	102209	19.80	ppb	99
48) Toluene	7.32	91	652198	22.64	ppb	99
49) trans-1,3-Dichloropropene	7.53	75	190171	21.92	ppb	99
50) 1,1,2-Trichloroethane	7.71	83	100968	23.12	ppb	99
51) 1,3-Dichloropropane	7.89	76	212235	21.67	ppb	# 86
52) Tetrachloroethylene	7.87	166	133052	14.44	ppb	# 100
53) 4-Methyl-2-Pentanone	7.12	43	169290m	15.77	ppb	
54) Dibromochloromethane	8.12	129	120829	21.05	ppb	98
55) 1,2-Dibromoethane	8.25	107	106740	21.22	ppb	99
56) Chlorobenzene	8.76	112	383259	20.90	ppb	# 100
57) Ethyl Benzene	8.87	91	691402	22.81	ppb	99
58) p- & m-Xylenes	8.99	91	1081010	48.09	ppb	98
59) o-Xylene	9.41	91	524723	23.52	ppb	98
60) Styrene	9.43	104	340767	19.81	ppb	98
61) 1,1,1,2-Tetrachloroethane	8.84	131	114358	19.63	ppb	97
62) p-Ethyltoluene	10.40	105	552670	21.14	ppb	91
63) p-Diethylbenzene	11.67	119	913788	77.83	ppb	# 50
65) Bromoform	9.64	173	56885	18.32	ppb	# 100
67) 1,1,2,2-Tetrachloroethane	10.14	83	143301	27.26	ppb	100
68) trans-1,4-Dichloro-2-buten	10.19	75	160966	27.68	ppb	# 100
69) 1,2,3-Trichloropropane	10.18	110	30297	25.80	ppb	81
70) Isopropylbenzene	9.81	105	648601	26.75	ppb	# 99
71) Bromobenzene	10.16	77	295858	27.56	ppb	# 89
72) n-Propylbenzene	10.26	91	842941	28.59	ppb	99
73) 2-Chlorotoluene	10.37	91	470248	27.42	ppb	# 98
74) 4-Chlorotoluene	10.48	91	512254	29.19	ppb	# 97
75) tert-Butylbenzene	10.82	119	530798	25.69	ppb	# 99
76) 1,3,5-trimethylbenzene	10.46	105	490181	27.43	ppb	98
77) 1,2,4-trimethylbenzene	10.88	105	456839	26.66	ppb	99
78) sec-Butylbenzene	11.07	105	641340	25.23	ppb	# 99
79) 1,3-Dichlorobenzene	11.20	146	227302m	21.45	ppb	
80) 1,4-Dichlorobenzene	11.29	146	228136	22.37	ppb	# 99
81) 1,2-Dichlorobenzene	11.72	146	205794	22.31	ppb	# 98
82) p-Isopropyltoluene	11.23	119	469346	25.27	ppb	# 99
83) n-Butylbenzene	11.69	91	729956	36.90	ppb	# 79
84) 1,2,4,5-Tetramethylbenzene	12.55	119	360104	25.49	ppb	96
85) 1,2-Dibromo-3-chloropropan	12.60	75	13359	21.87	ppb	71
86) 1,2,4-Trichlorobenzene	13.54	180	93260	17.52	ppb	98
87) Naphthalene	13.82	128	195506	24.60	ppb	# 100
88) Hexachloro-1,3-Butadiene	13.74	225	54241	14.04	ppb	# 100
89) 1,2,3-Trichlorobenzene	14.10	182	75128	17.01	ppb	99

Data File : G:\MSVOA2~1\DAILYDAT\V2101413\V232436C.D Vial: 11
Acq On : 14 Oct 2013 3:21 pm Operator: SS
Sample : 20 ppb VOA CALIBRATION STD Inst : MS VOA 2
Misc : QBV2101413A Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 9:01 19113 Quant Results File: V2C0034

Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)
Title : VOCs BY GC/MS 8240/8260
Last Update : Wed Oct 02 08:51:08 2013
Response via : Initial Calibration

Quant Results File: V2C00348.RES



Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232437C.D Vial: 12
 Acq On : 14 Oct 2013 3:56 pm Operator: SS
 Sample : 50 ppb VOA CALIBRATION STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 9:02 19113 Quant Results File: V2C00348.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE(ISTD)	5.74	70	331443	50.00	ppb	-0.05
35) CHLOROBNZENE-d5(ISTD)	8.73	117	923591	50.00	ppb	-0.05
64) 1,2-DICHLOROBNZENE-d4(IST	11.69	152	296468	50.00	ppb	-0.05

System Monitoring Compounds

31) d4-1,2-Dichloroethane(SURR	5.43	65	279557	48.95	ppb	-0.05
Spiked Amount	50.000	Range	67 - 128	Recovery	=	97.90%
47) Toluene-d8(SURR)	7.25	98	1287397	53.97	ppb	-0.05
Spiked Amount	50.000	Range	87 - 113	Recovery	=	107.94%
66) p-Bromofluorobenzene(SURR)	9.99	174	289179	46.76	ppb	-0.05
Spiked Amount	50.000	Range	63 - 166	Recovery	=	93.52%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.68	85	427317m	57.03	ppb	
3) Chloromethane	1.86	50	748273	41.99	ppb	99
4) Vinyl Chloride	1.96	62	601704	42.68	ppb	100
5) Bromomethane	2.28	94	262870	40.06	ppb	97
6) Chloroethane	2.38	64	317531	40.25	ppb	100
7) Trichlorofluoromethane	2.62	101	428174	48.88	ppb	99
8) Ethyl Ether	2.88	59	261954	39.62	ppb	93
9) Freon-113	3.09	101	314278	42.36	ppb	92
10) 1,1-Dichloroethylene	3.09	61	511268	39.06	ppb	99
11) Acrolein	3.00	56	36726	33.62	ppb	95
12) Iodomethane	3.24	142	372128	30.22	ppb	97
13) Methyl Acetate	3.43	43	180971	32.51	ppb	99
14) tert Butyl Alcohol (TBA)	3.64	59	20063	40.23	ppb	# 100
15) Acrylonitrile	3.76	53	114259	46.41	ppb	# 100
16) trans-1,2-Dichloroethylene	3.78	61	626874	45.80	ppb	98
17) Carbon Disulfide	3.30	76	1258063	40.48	ppb	100
18) Methylene Chloride	3.53	49	524218	37.00	ppb	93
19) tert-Butyl Methyl Ether (M	3.78	73	880220	50.37	ppb	# 100
20) Acetone	3.15	43	85956	39.24	ppb	99
21) 1,1-Dichloroethane	4.16	63	908449	50.72	ppb	100
22) Vinyl Acetate	4.20	43	776560	39.61	ppb	100
23) cis-1,2-Dichloroethylene	4.69	96	497550	53.16	ppb	# 99
24) 2-Butanone	4.70	43	177741	45.81	ppb	99
25) 2,2-Dichloropropane	4.69	77	570150	53.43	ppb	99
26) Bromochloromethane	4.90	49	419178	45.95	ppb	100
27) Chloroform	4.97	83	694075	54.46	ppb	99
28) 1,1,1-Trichloroethane	5.15	97	530950	57.20	ppb	99
29) Cyclohexane	5.20	56	1031839	49.67	ppb	98
30) 1,1-Dichloropropylene	5.29	75	625162	52.38	ppb	99
32) Carbon Tetrachloride	5.29	117	414340	52.92	ppb	100
33) 1,2-Dichloroethane	5.49	62	367685	51.56	ppb	99
34) Benzene	5.48	78	1790940	53.16	ppb	100
36) Tetrahydrofuran	4.95	42	102024	49.03	ppb	81
37) Trichloroethylene	6.07	95	406253	55.82	ppb	93
38) Methyl Cyclohexane	6.26	83	817611	59.67	ppb	# 99
39) Methyl Methacrylate	6.38	69	246207	60.20	ppb	# 99
40) Dibromomethane	6.41	93	206097	57.62	ppb	# 86
41) Bromodichloromethane	6.54	83	489406	58.58	ppb	99

(#) = qualifier out of range (m) = manual integration
 V232437C.D V2C00348.M Tue Oct 15 09:02:46 2013

Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232437C.D Vial: 12
 Acq On : 14 Oct 2013 3:56 pm Operator: SS
 Sample : 50 ppb VOA CALIBRATION STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 9:02 19113 Quant Results File: V2C00348.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) 1,2-Dichloropropane	6.29	63	497017	55.29	ppb	99
43) 1,4-Dioxane	6.42	88	52075	1123.04	ppb	98
45) cis-1,3-Dichloropropene	6.98	75	676038	57.43	ppb	99
46) 2-Hexanone	7.96	43	258756	50.13	ppb	96
48) Toluene	7.31	91	1634246	56.74	ppb	100
49) trans-1,3-Dichloropropene	7.53	75	511181	58.91	ppb	99
50) 1,1,2-Trichloroethane	7.72	83	256450	58.72	ppb	97
51) 1,3-Dichloropropane	7.89	76	560872	57.27	ppb	# 100
52) Tetrachloroethylene	7.87	166	366843	39.82	ppb	# 100
53) 4-Methyl-2-Pentanone	7.12	43	398068m	37.09	ppb	
54) Dibromochloromethane	8.12	129	314577	54.79	ppb	99
55) 1,2-Dibromoethane	8.25	107	284136	56.49	ppb	99
56) Chlorobenzene	8.76	112	971334	52.98	ppb	# 100
57) Ethyl Benzene	8.86	91	1791831	59.10	ppb	99
58) p- & m-Xylenes	8.99	91	2650711	117.92	ppb	98
59) o-Xylene	9.42	91	1314057	58.91	ppb	98
60) Styrene	9.43	104	913028	53.08	ppb	98
61) 1,1,1,2-Tetrachloroethane	8.83	131	299724	51.44	ppb	96
62) p-Ethyltoluene	10.39	105	1456110	55.68	ppb	95
63) p-Diethylbenzene	11.66	119	919102	78.28	ppb	# 81
65) Bromoform	9.63	173	156778	51.71	ppb	# 100
67) 1,1,2,2-Tetrachloroethane	10.13	83	379600	73.95	ppb	99
68) trans-1,4-Dichloro-2-buten	10.19	75	411945	72.54	ppb	# 100
69) 1,2,3-Trichloropropane	10.19	110	79632	69.45	ppb	85
70) Isopropylbenzene	9.82	105	1522824	64.30	ppb	# 100
71) Bromobenzene	10.15	77	774143	73.84	ppb	# 90
72) n-Propylbenzene	10.27	91	2107957	73.22	ppb	99
73) 2-Chlorotoluene	10.36	91	1220654	72.90	ppb	# 98
74) 4-Chlorotoluene	10.49	91	1251954	73.06	ppb	# 98
75) tert-Butylbenzene	10.83	119	1311039	64.97	ppb	# 99
76) 1,3,5-trimethylbenzene	10.46	105	1179149	67.57	ppb	99
77) 1,2,4-trimethylbenzene	10.87	105	1138426	68.03	ppb	99
78) sec-Butylbenzene	11.07	105	1584725	63.84	ppb	# 99
79) 1,3-Dichlorobenzene	11.19	146	606214m	58.59	ppb	
80) 1,4-Dichlorobenzene	11.30	146	587719	59.00	ppb	# 98
81) 1,2-Dichlorobenzene	11.72	146	513574	57.01	ppb	# 99
82) p-Isopropyltoluene	11.23	119	1210157	66.71	ppb	# 100
83) n-Butylbenzene	11.69	91	1408094	72.88	ppb	# 83
84) 1,2,4,5-Tetramethylbenzene	12.55	119	963009	69.79	ppb	97
85) 1,2-Dibromo-3-chloropropan	12.60	75	36843	61.77	ppb	72
86) 1,2,4-Trichlorobenzene	13.54	180	259523	49.92	ppb	98
87) Naphthalene	13.83	128	547219	70.51	ppb	# 98
88) Hexachloro-1,3-Butadiene	13.73	225	147410	39.08	ppb	# 99
89) 1,2,3-Trichlorobenzene	14.10	182	218768	50.72	ppb	# 49

Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232438C.D Vial: 13
 Acq On : 14 Oct 2013 4:31 pm Operator: SS
 Sample : 100 ppb VOA CALIBRATION STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 8:53 19113 Quant Results File: V2C00348.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE(ISTD)	5.74	70	347716	50.00	ppb	-0.05
35) CHLOROBENZENE-d5(ISTD)	8.73	117	915777	50.00	ppb	-0.05
64) 1,2-DICHLOROBENZENE-d4(ISTD)	11.69	152	299801	50.00	ppb	-0.05

System Monitoring Compounds

31) d4-1,2-Dichloroethane(SURR)	5.43	65	290639	48.51	ppb	-0.05
Spiked Amount	50.000	Range	67 - 128	Recovery	=	97.02%
47) Toluene-d8(SURR)	7.25	98	1276215	53.96	ppb	-0.05
Spiked Amount	50.000	Range	87 - 113	Recovery	=	107.92%
66) p-Bromofluorobenzene(SURR)	9.99	174	290559	46.46	ppb	-0.05
Spiked Amount	50.000	Range	63 - 166	Recovery	=	92.92%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.68	85	857712m	109.12	ppb	
3) Chloromethane	1.86	50	1512304	80.90	ppb	99
4) Vinyl Chloride	1.96	62	1182334	79.94	ppb	99
5) Bromomethane	2.28	94	505874	73.49	ppb	98
6) Chloroethane	2.38	64	613096	74.09	ppb	99
7) Trichlorofluoromethane	2.62	101	846920	92.16	ppb	99
8) Ethyl Ether	2.88	59	528639	76.22	ppb	92
9) Freon-113	3.09	101	653265	83.93	ppb	91
10) 1,1-Dichloroethylene	3.09	61	1037654	75.57	ppb	99
11) Acrolein	3.00	56	85986	75.02	ppb	98
12) Iodomethane	3.24	142	822916	63.69	ppb	97
13) Methyl Acetate	3.43	43	386589	66.19	ppb	98
14) tert Butyl Alcohol (TBA)	3.64	59	52439	100.23	ppb	# 100
15) Acrylonitrile	3.76	53	249104	96.45	ppb	# 100
16) trans-1,2-Dichloroethylene	3.78	61	1247903	86.90	ppb	97
17) Carbon Disulfide	3.30	76	2337413	71.68	ppb	100
18) Methylene Chloride	3.53	49	937190	63.05	ppb	# 91
19) tert-Butyl Methyl Ether (M)	3.78	73	1806173	98.52	ppb	# 100
20) Acetone	3.15	43	198409	86.35	ppb	100
21) 1,1-Dichloroethane	4.16	63	1806896	96.16	ppb	100
22) Vinyl Acetate	4.20	43	1575176	76.59	ppb	100
23) cis-1,2-Dichloroethylene	4.69	96	990734	100.91	ppb	# 100
24) 2-Butanone	4.70	43	400555	98.40	ppb	99
25) 2,2-Dichloropropane	4.69	77	1143423	102.15	ppb	100
26) Bromochloromethane	4.90	49	842478	88.02	ppb	99
27) Chloroform	4.97	83	1380815	103.28	ppb	100
28) 1,1,1-Trichloroethane	5.14	97	1033097	106.09	ppb	99
29) Cyclohexane	5.20	56	2027377	93.02	ppb	98
30) 1,1-Dichloropropylene	5.29	75	1204317	96.19	ppb	100
32) Carbon Tetrachloride	5.29	117	824818	100.42	ppb	100
33) 1,2-Dichloroethane	5.49	62	749004	100.13	ppb	99
34) Benzene	5.49	78	3662603	103.63	ppb	100
36) Tetrahydrofuran	4.95	42	231271	112.09	ppb	83
37) Trichloroethylene	6.07	95	847024	117.38	ppb	94
38) Methyl Cyclohexane	6.26	83	1646987	121.22	ppb	# 99
39) Methyl Methacrylate	6.38	69	518895	127.96	ppb	# 100
40) Dibromomethane	6.41	93	426997	120.41	ppb	# 85
41) Bromodichloromethane	6.54	83	996137	120.26	ppb	99

(#) = qualifier out of range (m) = manual integration

Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232438C.D Vial: 13
 Acq On : 14 Oct 2013 4:31 pm Operator: SS
 Sample : 100 ppb VOA CALIBRATION STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 8:53 19113 Quant Results File: V2C00348.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) 1,2-Dichloropropane	6.29	63	996418	111.79	ppb	98
43) 1,4-Dioxane	6.42	88	119289	2594.51	ppb	98
45) cis-1,3-Dichloropropene	6.98	75	1353932	116.00	ppb	99
46) 2-Hexanone	7.96	43	570340	111.43	ppb	96
48) Toluene	7.31	91	3197448	111.96	ppb	100
49) trans-1,3-Dichloropropene	7.53	75	1044622	121.41	ppb	99
50) 1,1,2-Trichloroethane	7.72	83	510131	117.80	ppb	97
51) 1,3-Dichloropropane	7.89	76	1124994	115.84	ppb	# 100
52) Tetrachloroethylene	7.87	166	775471	84.90	ppb	# 100
53) 4-Methyl-2-Pentanone	7.12	43	839616m	78.90	ppb	
54) Dibromochloromethane	8.12	129	643211	112.99	ppb	99
55) 1,2-Dibromoethane	8.25	107	574466	115.19	ppb	99
56) Chlorobenzene	8.76	112	1887995	103.85	ppb	# 99
57) Ethyl Benzene	8.86	91	3350392	111.45	ppb	99
58) p- & m-Xylenes	8.99	91	4915508	220.54	ppb	99
59) o-Xylene	9.42	91	2461754	111.30	ppb	98
60) Styrene	9.43	104	1789748	104.95	ppb	98
61) 1,1,1,2-Tetrachloroethane	8.83	131	604622	104.65	ppb	97
62) p-Ethyltoluene	10.39	105	2790584	107.63	ppb	97
63) p-Diethylbenzene	11.66	119	1588343	136.44	ppb	90
65) Bromoform	9.63	173	327358	106.77	ppb	# 100
67) 1,1,2,2-Tetrachloroethane	10.13	83	710040	136.79	ppb	100
68) trans-1,4-Dichloro-2-buten	10.19	75	826399	143.90	ppb	# 100
69) 1,2,3-Trichloropropane	10.19	110	166449	143.56	ppb	95
70) Isopropylbenzene	9.82	105	3032075	126.61	ppb	# 100
71) Bromobenzene	10.15	77	1459789	137.70	ppb	# 90
72) n-Propylbenzene	10.27	91	3879850	133.27	ppb	100
73) 2-Chlorotoluene	10.37	91	2284891	134.94	ppb	# 98
74) 4-Chlorotoluene	10.49	91	2403477	138.69	ppb	# 98
75) tert-Butylbenzene	10.83	119	2475919	121.32	ppb	# 100
76) 1,3,5-trimethylbenzene	10.46	105	2300625	130.36	ppb	100
77) 1,2,4-trimethylbenzene	10.88	105	2193015	129.60	ppb	100
78) sec-Butylbenzene	11.07	105	3058295	121.84	ppb	# 100
79) 1,3-Dichlorobenzene	11.20	146	1192285m	113.96	ppb	
80) 1,4-Dichlorobenzene	11.30	146	1184059	117.55	ppb	# 99
81) 1,2-Dichlorobenzene	11.72	146	1038110	113.95	ppb	# 99
82) p-Isopropyltoluene	11.23	119	2312215	126.05	ppb	# 100
83) n-Butylbenzene	11.69	91	2788695	142.74	ppb	# 84
84) 1,2,4,5-Tetramethylbenzene	12.55	119	1859739	133.28	ppb	97
85) 1,2-Dibromo-3-chloropropan	12.60	75	82592	136.93	ppb	73
86) 1,2,4-Trichlorobenzene	13.54	180	563265	107.15	ppb	99
87) Naphthalene	13.83	128	1161261	147.96	ppb	# 100
88) Hexachloro-1,3-Butadiene	13.73	225	308361	80.85	ppb	# 99
89) 1,2,3-Trichlorobenzene	14.10	182	460114	105.49	ppb	# 49

Data File : G:\MSVOA2~1\DAI\DAT\21011413\232438C.D Vial: 13
Acq On : 14 Oct 2013 4:31 pm Operator: SS
Sample : 100 ppb VOA CALIBRATION STD Inst : MS VOA 2
Misc : QBV21011413A Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 8:53 19113 Quant Results File: V2C0034

Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)
Title : VOCs BY GC/MS 8240/8260
Last Update : Wed Oct 02 08:51:08 2013
Response via : Initial Calibration



Tue Oct 15 08:53:38 2013

Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232439C.D Vial: 14
 Acq On : 14 Oct 2013 5:06 pm Operator: SS
 Sample : 200 ppb VOA CALIBRATION STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 8:52 19113 Quant Results File: V2C00348.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) FLUOROBENZENE (ISTD)	5.74	70	334828	50.00	ppb	-0.04
35) CHLOROBENZENE-d5 (ISTD)	8.72	117	945138	50.00	ppb	-0.05
64) 1,2-DICHLOROBENZENE-d4 (ISTD)	11.70	152	279717	50.00	ppb	-0.05

System Monitoring Compounds

31) d4-1,2-Dichloroethane (SURR)	5.43	65	273639	47.43	ppb	-0.04
Spiked Amount	50.000	Range	67 - 128	Recovery	=	94.86%
47) Toluene-d8 (SURR)	7.25	98	1341335	54.95	ppb	-0.04
Spiked Amount	50.000	Range	87 - 113	Recovery	=	109.90%
66) p-Bromofluorobenzene (SURR)	9.98	174	273775	46.92	ppb	-0.06
Spiked Amount	50.000	Range	63 - 166	Recovery	=	93.84%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.69	85	1733656m	229.04	ppb	
3) Chloromethane	1.86	50	2986040	165.88	ppb	99
4) Vinyl Chloride	1.97	62	2351218	165.08	ppb	99
5) Bromomethane	2.27	94	982585	148.24	ppb	98
6) Chloroethane	2.37	64	1202998	150.97	ppb	100
7) Trichlorofluoromethane	2.61	101	1682769	190.16	ppb	99
8) Ethyl Ether	2.88	59	1094218	163.84	ppb	91
9) Freon-113	3.09	101	1259615	168.07	ppb	97
10) 1,1-Dichloroethylene	3.09	61	1951875	147.63	ppb	98
11) Acrolein	3.01	56	179407	162.56	ppb	96
12) Iodomethane	3.24	142	1763479	141.74	ppb	97
13) Methyl Acetate	3.44	43	737539	131.14	ppb	98
14) tert Butyl Alcohol (TBA)	3.63	59	110566	219.46	ppb	# 100
15) Acrylonitrile	3.76	53	473252	190.30	ppb	# 100
16) trans-1,2-Dichloroethylene	3.78	61	2430253	175.76	ppb	96
17) Carbon Disulfide	3.30	76	4859558	154.77	ppb	100
18) Methylene Chloride	3.53	49	1860373	129.99	ppb	# 91
19) tert-Butyl Methyl Ether (M)	3.78	73	3462570	196.13	ppb	# 100
20) Acetone	3.14	43	343654	155.31	ppb	100
21) 1,1-Dichloroethane	4.16	63	3472713	191.92	ppb	100
22) Vinyl Acetate	4.20	43	2909292	146.90	ppb	100
23) cis-1,2-Dichloroethylene	4.68	96	1872895	198.10	ppb	# 99
24) 2-Butanone	4.70	43	665973	169.90	ppb	98
25) 2,2-Dichloropropane	4.68	77	2172390	201.54	ppb	100
26) Bromochloromethane	4.90	49	1613631	175.08	ppb	98
27) Chloroform	4.97	83	2673111	207.63	ppb	100
28) 1,1,1-Trichloroethane	5.14	97	2073180	221.09	ppb	100
29) Cyclohexane	5.19	56	3398329	161.92	ppb	91
30) 1,1-Dichloropropylene	5.30	75	2308641	191.49	ppb	# 89
32) Carbon Tetrachloride	5.30	117	1614904	204.17	ppb	100
33) 1,2-Dichloroethane	5.50	62	1430414	198.58	ppb	99
34) Benzene	5.49	78	6700974	196.89	ppb	100
36) Tetrahydrofuran	4.95	42	411864	193.42	ppb	79
37) Trichloroethylene	6.08	95	1610935	216.30	ppb	95
38) Methyl Cyclohexane	6.26	83	2956929	210.88	ppb	# 99
39) Methyl Methacrylate	6.38	69	964187	230.38	ppb	# 100
40) Dibromomethane	6.40	93	809878	221.28	ppb	# 86
41) Bromodichloromethane	6.55	83	1942585	227.23	ppb	100

(#) = qualifier out of range (m) = manual integration
 V232439C.D V2C00348.M Tue Oct 15 08:53:07 2013

Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232439C.D Vial: 14
 Acq On : 14 Oct 2013 5:06 pm Operator: SS
 Sample : 200 ppb VOA CALIBRATION STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 8:52 19113 Quant Results File: V2C00348.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Wed Oct 02 08:51:08 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) 1,2-Dichloropropane	6.30	63	1830535	198.98	ppb	98
43) 1,4-Dioxane	6.42	88	231906	4887.21	ppb	98
45) cis-1,3-Dichloropropene	6.98	75	2630686	218.39	ppb	100
46) 2-Hexanone	7.96	43	1063433	201.31	ppb	96
48) Toluene	7.32	91	5928284	201.13	ppb	99
49) trans-1,3-Dichloropropene	7.53	75	2037816	229.48	ppb	99
50) 1,1,2-Trichloroethane	7.72	83	1053599	235.74	ppb	# 57
51) 1,3-Dichloropropane	7.89	76	2206220	220.12	ppb	# 86
52) Tetrachloroethylene	7.87	166	1566496	166.18	ppb	# 100
53) 4-Methyl-2-Pentanone	7.12	43	1666337m	151.72	ppb	
54) Dibromochloromethane	8.13	129	1316176	224.03	ppb	100
55) 1,2-Dibromoethane	8.25	107	1182410	229.73	ppb	99
56) Chlorobenzene	8.76	112	3759723	200.38	ppb	# 99
57) Ethyl Benzene	8.87	91	6330273	204.04	ppb	100
58) p- & m-Xylenes	8.99	91	8915408	387.57	ppb	99
59) o-Xylene	9.42	91	4565042	199.99	ppb	99
60) Styrene	9.43	104	3340750	189.81	ppb	98
61) 1,1,1,2-Tetrachloroethane	8.84	131	1229088	206.12	ppb	98
62) p-Ethyltoluene	10.40	105	5064388	189.25	ppb	95
63) p-Diethylbenzene	11.67	119	2827056	235.30	ppb	92
65) Bromoform	9.64	173	644566	225.33	ppb	# 100
67) 1,1,2,2-Tetrachloroethane	10.14	83	1397409	288.55	ppb	100
68) trans-1,4-Dichloro-2-buten	10.20	75	1570796	293.17	ppb	# 99
69) 1,2,3-Trichloropropane	10.20	110	320964	296.70	ppb	98
70) Isopropylbenzene	9.81	105	5637014	252.29	ppb	# 100
71) Bromobenzene	10.16	77	2841464	287.28	ppb	# 91
72) n-Propylbenzene	10.27	91	7305350	268.96	ppb	100
73) 2-Chlorotoluene	10.37	91	4259608	269.62	ppb	# 99
74) 4-Chlorotoluene	10.48	91	4202066	259.89	ppb	# 99
75) tert-Butylbenzene	10.83	119	4749800	249.46	ppb	# 100
76) 1,3,5-trimethylbenzene	10.46	105	4184561	254.14	ppb	100
77) 1,2,4-trimethylbenzene	10.88	105	4075207	258.12	ppb	100
78) sec-Butylbenzene	11.07	105	5822620	248.62	ppb	# 100
79) 1,3-Dichlorobenzene	11.20	146	2207020m	226.10	ppb	
80) 1,4-Dichlorobenzene	11.30	146	2175887	231.52	ppb	# 99
81) 1,2-Dichlorobenzene	11.72	146	1921609	226.07	ppb	# 99
82) p-Isopropyltoluene	11.23	119	4278531	249.98	ppb	# 100
83) n-Butylbenzene	11.70	91	5023595	275.60	ppb	# 84
84) 1,2,4,5-Tetramethylbenzene	12.55	119	3382293	259.81	ppb	98
85) 1,2-Dibromo-3-chloropropan	12.60	75	162426	288.62	ppb	74
86) 1,2,4-Trichlorobenzene	13.54	180	1083810	220.97	ppb	99
87) Naphthalene	13.82	128	2234053	305.09	ppb	# 100
88) Hexachloro-1,3-Butadiene	13.74	225	614237	172.60	ppb	# 99
89) 1,2,3-Trichlorobenzene	14.10	182	907987	223.12	ppb	# 49

Data File : G:\MSVOA2~1\DAI\DAT\2013\20130923.D

Acq On : 14 Oct 2013 5:06 pm
Sample : 200 ppb VOA CALIBRATION STD
Misc : QBV2101413A

MS Integration Params: rteint.p

Quant Time: Oct 15 8:52 19113

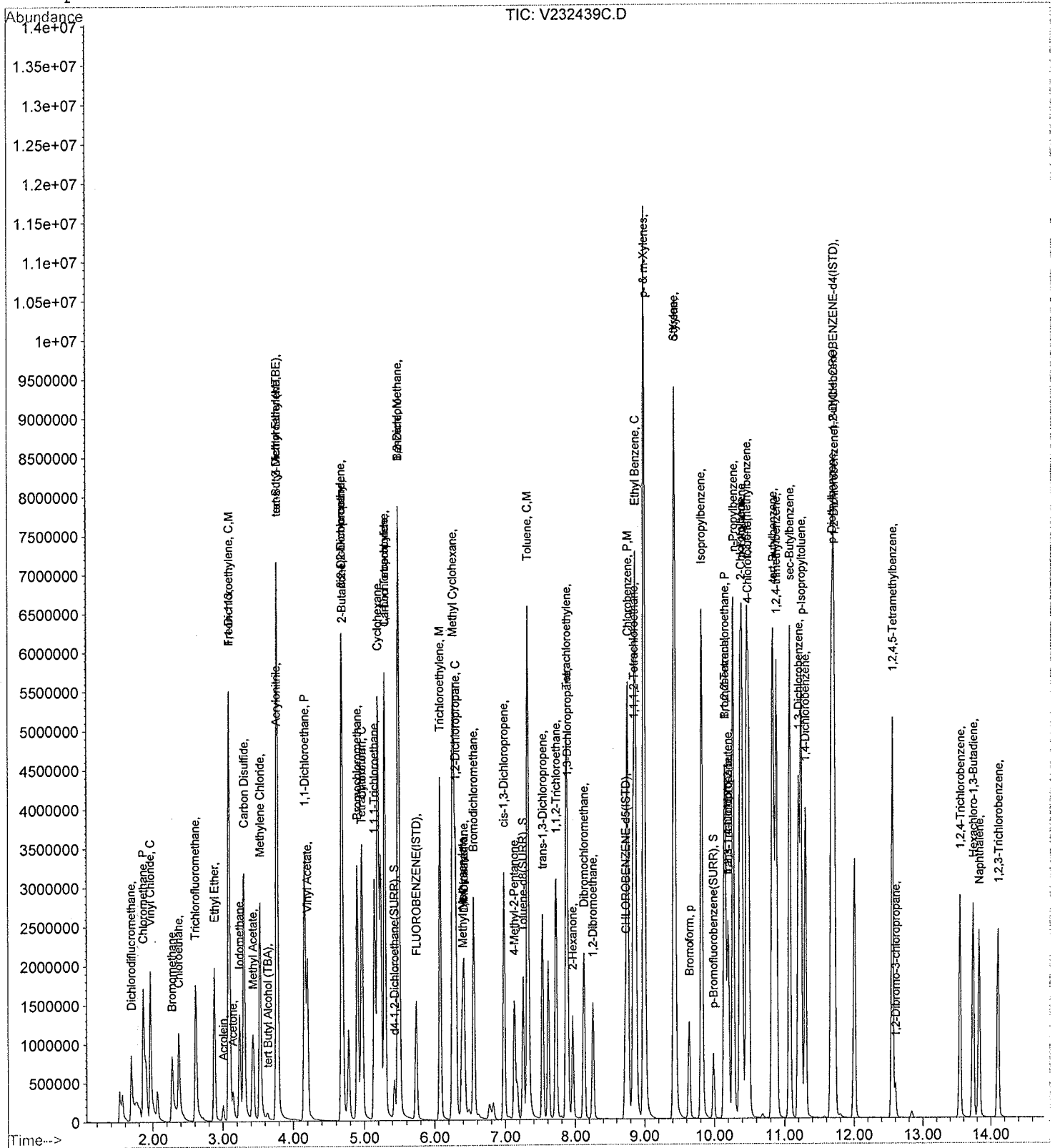
Quant Results File: V2C00348.RES

Method : G:\MSVOA2~1\METHODS\V2C00348.M (RTE Integrator)

Title : VOCs BY GC/MS 8240/8260

Last Update : Wed Oct 02 08:51:08 2013

Response via : Initial Calibration



Data File : G:\MSVOA2~1\DAI\YDAT\V2101413\V232441C.D Vial: 16
 Acq On : 14 Oct 2013 6:17 pm Operator: SS
 Sample : 50 ppb VOA ICV STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 9:39 19113 Quant Results File: V2C00349.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE(ISTD)	5.74	70	343480	50.00	ppb	0.00
35) CHLOROBNZENE-d5(ISTD)	8.73	117	977027	50.00	ppb	0.00
64) 1,2-DICHLOROBNZENE-d4(IST	11.69	152	309459	50.00	ppb	0.00

System Monitoring Compounds

31) d4-1,2-Dichloroethane(SURR	5.43	65	289805	50.05	ppb	0.00
Spiked Amount	50.000	Range	67 - 128	Recovery	=	100.10%
47) Toluene-d8(SURR)	7.25	98	1375153	49.86	ppb	0.00
Spiked Amount	50.000	Range	87 - 113	Recovery	=	99.72%
66) p-Bromofluorobenzene(SURR)	9.99	174	290706	48.78	ppb	0.00
Spiked Amount	50.000	Range	63 - 166	Recovery	=	97.56%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.68	85	344982m	43.87	ppb	
3) Chloromethane	1.86	50	685568	45.21	ppb	100
4) Vinyl Chloride	1.96	62	552227	46.86	ppb	100
5) Bromomethane	2.28	94	253592	47.78	ppb	100
6) Chloroethane	2.38	64	285986	48.05	ppb	100
7) Trichlorofluoromethane	2.62	101	409460	49.22	ppb	100
8) Ethyl Ether	2.88	59	264393	52.22	ppb	98
9) Freon-113	3.09	101	324412	52.84	ppb	97
10) 1,1-Dichloroethylene	3.09	61	479815	47.03	ppb	100
11) Acrolein	3.00	56	33873	42.35	ppb	96
12) Iodomethane	3.23	142	333246	45.19	ppb	100
13) Methyl Acetate	3.43	43	296135	84.14	ppb	100
14) tert Butyl Alcohol (TBA)	3.64	59	587862	1351.51	ppb	# 100
15) Acrylonitrile	3.75	53	113196	51.52	ppb	# 100
16) trans-1,2-Dichloroethylene	3.78	61	614039	48.41	ppb	100
17) Carbon Disulfide	3.30	76	2144824	86.31	ppb	100
18) Methylene Chloride	3.53	49	505114	50.62	ppb	99
19) tert-Butyl Methyl Ether (M	3.78	73	901417	50.33	ppb	# 100
20) Acetone	3.15	43	58169	31.43	ppb	99
21) 1,1-Dichloroethane	4.16	63	864665	48.62	ppb	100
22) Vinyl Acetate	4.20	43	227111	14.83	ppb	100
23) cis-1,2-Dichloroethylene	4.69	96	497072	51.61	ppb	# 99
24) 2-Butanone	4.70	43	171232	47.33	ppb	99
25) 2,2-Dichloropropane	4.69	77	557875	49.68	ppb	100
26) Bromochloromethane	4.90	49	424691	51.86	ppb	99
27) Chloroform	4.97	83	688639	50.90	ppb	100
28) 1,1,1-Trichloroethane	5.14	97	522069	50.87	ppb	100
29) Cyclohexane	5.20	56	1001527	53.83	ppb	97
30) 1,1-Dichloropropylene	5.29	75	591023	47.77	ppb	100
32) Carbon Tetrachloride	5.29	117	430249	52.21	ppb	99
33) 1,2-Dichloroethane	5.49	62	377132	51.31	ppb	100
34) Benzene	5.48	78	1878976	51.41	ppb	100
36) Tetrahydrofuran	4.95	42	101850	49.30	ppb	95
37) Trichloroethylene	6.07	95	424167	50.29	ppb	99
38) Methyl Cyclohexane	6.25	83	858721	52.86	ppb	# 99
39) Methyl Methacrylate	6.38	69	243988	49.53	ppb	# 100
40) Dibromomethane	6.41	93	204749	49.50	ppb	99
41) Bromodichloromethane	6.54	83	511549	52.01	ppb	100

(#) = qualifier out of range (m) = manual integration
 V232441C.D V2C00349.M Tue Oct 15 09:40:22 2013

Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232441C.D Vial: 16
 Acq On : 14 Oct 2013 6:17 pm Operator: SS
 Sample : 50 ppb VOA ICV STD Inst : MS VOA 2
 Misc : QBV2101413A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 15 9:39 19113 Quant Results File: V2C00349.RES

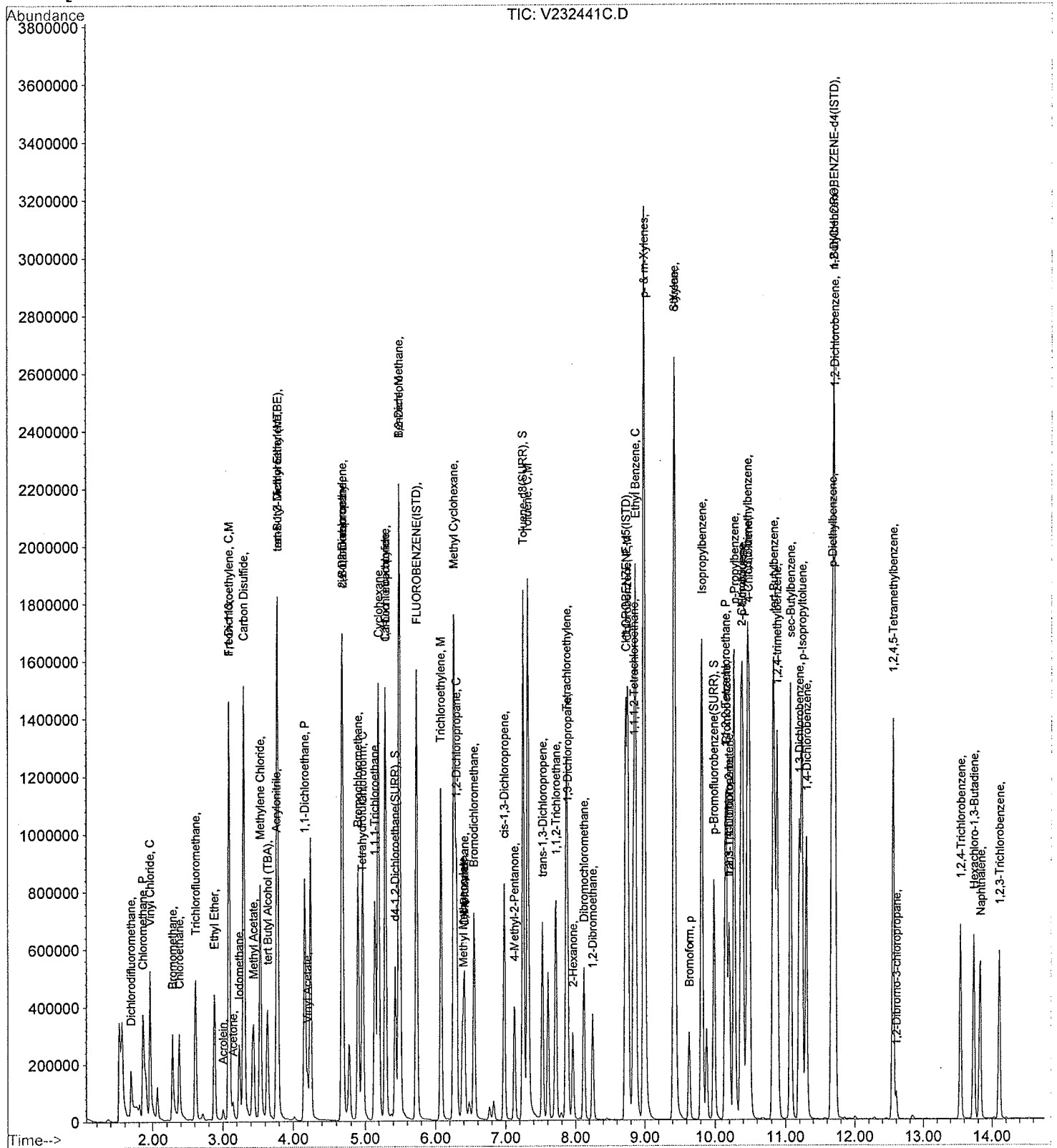
Quant Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) 1,2-Dichloropropane	6.29	63	498277	49.79	ppb	99
43) 1,4-Dioxane	6.42	88	31051	562.28	ppb	100
45) cis-1,3-Dichloropropene	6.98	75	718881	52.29	ppb	99
46) 2-Hexanone	7.96	43	258964	47.94	ppb	99
48) Toluene	7.31	91	1622014	47.72	ppb	100
49) trans-1,3-Dichloropropene	7.53	75	538396	52.43	ppb	99
50) 1,1,2-Trichloroethane	7.72	83	259556	50.21	ppb	# 81
51) 1,3-Dichloropropane	7.89	76	577805	49.78	ppb	# 100
52) Tetrachloroethylene	7.86	166	398282	52.70	ppb	# 100
53) 4-Methyl-2-Pentanone	7.12	43	394616	44.92	ppb	# 75
54) Dibromochloromethane	8.12	129	321170	50.80	ppb	99
55) 1,2-Dibromoethane	8.25	107	286536	49.83	ppb	100
56) Chlorobenzene	8.76	112	972157	49.19	ppb	# 100
57) Ethyl Benzene	8.86	91	1771191	49.64	ppb	100
58) p- & m-Xylenes	8.99	91	2605688	97.03	ppb	100
59) o-Xylene	9.41	91	1298517	49.31	ppb	100
60) Styrene	9.43	104	971212	54.72	ppb	99
61) 1,1,1,2-Tetrachloroethane	8.83	131	298495	49.66	ppb	98
62) p-Ethyltoluene	10.39	105	1170220	41.70	ppb	88
63) p-Diethylbenzene	11.66	119	731567	12.66	ppb	87
65) Bromoform	9.63	173	157335	51.29	ppb	# 100
67) 1,1,2,2-Tetrachloroethane	10.13	83	373357	50.19	ppb	100
68) trans-1,4-Dichloro-2-buten	10.19	75	407397	49.13	ppb	100
69) 1,2,3-Trichloropropane	10.19	110	79541	50.03	ppb	100
70) Isopropylbenzene	9.82	105	1535458	47.98	ppb	# 90
71) Bromobenzene	10.15	77	762634	49.81	ppb	99
72) n-Propylbenzene	10.27	91	1963707	49.82	ppb	100
73) 2-Chlorotoluene	10.36	91	1155726	48.14	ppb	# 100
74) 4-Chlorotoluene	10.48	91	1169250	46.20	ppb	# 100
75) tert-Butylbenzene	10.83	119	1260954	47.31	ppb	# 100
76) 1,3,5-trimethylbenzene	10.46	105	1147797	47.05	ppb	100
77) 1,2,4-trimethylbenzene	10.87	105	1028448	44.47	ppb	100
78) sec-Butylbenzene	11.07	105	1533056	47.89	ppb	# 100
79) 1,3-Dichlorobenzene	11.19	146	576510	48.07	ppb	# 95
80) 1,4-Dichlorobenzene	11.30	146	576361	48.70	ppb	# 99
81) 1,2-Dichlorobenzene	11.71	146	507989	48.53	ppb	# 100
82) p-Isopropyltoluene	11.23	119	1161630	48.74	ppb	# 100
83) n-Butylbenzene	11.69	91	1340717	43.41	ppb	# 100
84) 1,2,4,5-Tetramethylbenzene	12.55	119	937564	50.12	ppb	99
85) 1,2-Dibromo-3-chloropropan	12.60	75	38428	52.80	ppb	95
86) 1,2,4-Trichlorobenzene	13.54	180	258076	49.80	ppb	99
87) Naphthalene	13.83	128	564875	53.61	ppb	# 100
88) Hexachloro-1,3-Butadiene	13.73	225	141128	48.80	ppb	# 100
89) 1,2,3-Trichlorobenzene	14.10	182	216929	51.66	ppb	# 100

Quantitation Report

Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232441C.D Vial: 16
Acq On : 14 Oct 2013 6:17 pm Operator: SS
Sample : 50 ppb VOA ICV STD Inst : MS VOA 2
Misc : QBV2101413A Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 9:39 19113 Quant Results File: V2C00349.RES

Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
Title : VOCs BY GC/MS 8240/8260
Last Update : Tue Oct 15 09:36:54 2013
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : G:\MSVOA2~1\AILYDAT\V2110313\V233077C.D Vial: 4
 Acq On : 3 Nov 2013 11:00 am Operator: SS
 Sample : 50ppb VOA CAL CHECK STD Inst : MS VOA 2
 Misc : QBV2110313A Multiplr: 1.00
 MS Integration Params: rteint.p

Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	FLUOROBENZENE (ISTD)	1.000	1.000	0.0	112	0.00
2	Dichlorodifluoromethane	1.145	1.311	-14.5	113	0.01
3 P	Chloromethane	2.207	2.579	-16.9	127	0.01
4 C	Vinyl Chloride	1.715	1.809	-5.5	111	0.00
5	Bromomethane	0.773	0.635	17.9	89	0.01
6	Chloroethane	0.866	0.899	-3.8	105	0.01
7	Trichlorofluoromethane	1.211	1.128	6.9	97	0.01
8	Ethyl Ether	0.737	0.789	-7.1	111	0.01
9	Freon-113	0.894	0.922	-3.1	108	0.00
10 C,M	1,1-Dichloroethylene	1.485	1.522	-2.5	110	0.01
11	Acrolein	0.116	0.098	15.5	98	0.01
12	Iodomethane	0.923	1.054	-14.2	105	0.01
13	Methyl Acetate	0.512	0.530	-3.5	108	0.01
14	tert Butyl Alcohol (TBA)	0.063	0.067	-6.3	124	0.01
15	Acrylonitrile	0.320	0.353	-10.3	114	0.01
16	trans-1,2-Dichloroethylene	1.847	2.011	-8.9	119	0.01
17	Carbon Disulfide	3.618	3.482	3.8	102	0.00
18	Methylene Chloride	1.760	1.396	20.7	98	0.00
19	tert-Butyl Methyl Ether (MT)	2.607	2.775	-6.4	117	0.01
20	Acetone	0.269	0.246	8.6	106	0.01
21 P	1,1-Dichloroethane	2.589	2.830	-9.3	115	0.00
22	Vinyl Acetate	2.230	2.219	0.5	106	0.00
23	cis-1,2-Dichloroethylene	1.402	1.453	-3.6	108	0.01
24	2-Butanone	0.527	0.611	-15.9	127	0.00
25	2,2-Dichloropropane	1.635	1.695	-3.7	110	0.01
26	Bromochloromethane	1.192	1.327	-11.3	117	0.00
27 C	Chloroform	1.969	1.975	-0.3	105	0.00
28	1,1,1-Trichloroethane	1.494	1.457	2.5	101	0.00
29	Cyclohexane	2.708	3.231	-19.3	116	0.01
30	1,1-Dichloropropylene	1.801	1.906	-5.8	113	0.00
31 S	d4-1,2-Dichloroethane (SURRE)	0.843	0.830	1.5	110	0.00
32	Carbon Tetrachloride	1.200	1.215	-1.3	108	0.00
33	1,2-Dichloroethane	1.070	1.119	-4.6	112	0.00
34 M	Benzene	5.321	5.502	-3.4	114	0.00
35	CHLOROBENZENE-d5 (ISTD)	1.000	1.000	0.0	105	0.01
36	Tetrahydrofuran	0.106	0.126	-18.9	119	0.01
37 M	Trichloroethylene	0.432	0.451	-4.4	107	0.00
38	Methyl Cyclohexane	0.831	0.897	-7.9	106	0.01
39	Methyl Methacrylate	0.252	0.290	-15.1	114	0.00
40	Dibromomethane	0.212	0.235	-10.8	110	0.01
41	Bromodichloromethane	0.503	0.530	-5.4	105	0.00
42 C	1,2-Dichloropropane	0.512	0.547	-6.8	106	0.00
43	1,4-Dioxane	0.003	0.003#	0.0	117	0.00
44	2-Chloroethyl vinyl ether	0.000	0.000#	0.0	134	0.00
45	cis-1,3-Dichloropropene	0.704	0.759	-7.8	109	0.00
46	2-Hexanone	0.276	0.305	-10.5	114	0.00
47 S	Toluene-d8 (SURRE)	1.411	1.470	-4.2	110	0.00
48 C,M	Toluene	1.740	1.896	-9.0	112	0.00
49	trans-1,3-Dichloropropene	0.526	0.594	-12.9	112	0.00
50	1,1,2-Trichloroethane	0.265	0.291	-9.8	110	0.00

(#) = Out of Range

V233077C.D V2C00349.M Mon Nov 04 13:16:30 2013

Page 1

Evaluate Continuing Calibration Report

Data File : G:\MSVOA2-1\AILYDAT\V2110313\V233077C.D Vial: 4
 Acq On : 3 Nov 2013 11:00 am Operator: SS
 Sample : 50ppb VOA CAL CHECK STD Inst : MS VOA 2
 Misc : QBV2110313A Multiplr: 1.00
 MS Integration Params: rteint.p

Method : G:\MSVOA2-1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	1,3-Dichloropropane	0.594	0.622	-4.7	107	0.00
52	Tetrachloroethylene	0.387	0.371	4.1	98	0.00
53	4-Methyl-2-Pentanone	0.450	0.670	-48.9#	163	0.00
54	Dibromochloromethane	0.324	0.318	1.9	98	0.00
55	1,2-Dibromoethane	0.294	0.320	-8.8	109	0.00
56 P,M	Chlorobenzene	1.011	1.055	-4.4	105	0.00
57 C	Ethyl Benzene	1.826	2.078	-13.8	112	0.00
58	p- & m-Xylenes	1.374	1.443	-5.0	105	0.00
59	o-Xylene	1.348	1.508	-11.9	111	0.00
60	Styrene	0.908	1.088	-19.8	115	0.00
61	1,1,1,2-Tetrachloroethane	0.308	0.329	-6.8	106	0.00
62	p-Ethyltoluene	1.436	1.573	-9.5	104	0.00
63	p-Diethylbenzene	2.351	0.769	67.3#	81	0.00
64	1,2-DICHLOROBENZENE-d4 (ISTD	1.000	1.000	0.0	111	0.00
65 p	Bromoform	0.496	0.513	-3.4	107	0.00
66 S	p-Bromofluorobenzene (SURR)	0.963	0.915	5.0	104	0.00
67 P	1,1,2,2-Tetrachloroethane	1.202	1.298	-8.0	112	0.00
68	trans-1,4-Dichloro-2-butene	1.340	1.506	-12.4	120	0.00
69	1,2,3-Trichloropropane	0.257	0.292	-13.6	120	0.00
70	Isopropylbenzene	5.171	5.353	-3.5	115	0.00
71	Bromobenzene	2.474	2.650	-7.1	112	0.00
72	n-Propylbenzene	6.369	7.059	-10.8	110	0.00
73	2-Chlorotoluene	3.879	3.935	-1.4	106	0.00
74	4-Chlorotoluene	4.089	4.428	-8.3	116	0.00
75	tert-Butylbenzene	4.307	4.271	0.8	107	0.00
76	1,3,5-trimethylbenzene	3.941	4.157	-5.5	116	0.00
77	1,2,4-trimethylbenzene	3.737	3.752	-0.4	108	0.00
78	sec-Butylbenzene	5.172	5.324	-2.9	110	0.00
79	1,3-Dichlorobenzene	1.938	2.031	-4.8	110	0.00
80	1,4-Dichlorobenzene	1.912	1.916	-0.2	107	0.00
81	1,2-Dichlorobenzene	1.691	1.713	-1.3	109	0.00
82	p-Isopropyltoluene	3.851	4.090	-6.2	111	0.00
83	n-Butylbenzene	6.052	4.851	19.8	113	0.00
84	1,2,4,5-Tetramethylbenzene	3.023	3.105	-2.7	106	0.00
85	1,2-Dibromo-3-chloropropane	0.118	0.128	-8.5	114	0.00
86	1,2,4-Trichlorobenzene	0.837	0.817	2.4	103	0.00
87	Naphthalene	1.702	1.686	0.9	101	0.00
88	Hexachloro-1,3-Butadiene	0.467	0.457	2.1	102	0.00
89	1,2,3-Trichlorobenzene	0.679	0.692	-1.9	104	0.00

Quantitation Report (QT Reviewed)

Data File : G:\MSVOA2-1\AILYDAT\V2110313\V233077C.D Vial: 4
 Acq On : 3 Nov 2013 11:00 am Operator: SS
 Sample : 50ppb VOA CAL CHECK STD Inst : MS VOA 2
 Misc : QBV2110313A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 9:47 19113 Quant Results File: V2C00349.RES

Quant Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE(ISTD)	5.74	70	369632	50.00	ppb	0.00
35) CHLOROBENZENE-d5(ISTD)	8.73	117	966595	50.00	ppb	0.01
64) 1,2-DICHLOROBENZENE-d4(IST)	11.70	152	327983	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) d4-1,2-Dichloroethane(SURR)	5.43	65	306828	49.24	ppb	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery =	98.48%		
47) Toluene-d8(SURR)	7.25	98	1420653	52.06	ppb	0.00
Spiked Amount 50.000	Range 87 - 113		Recovery =	104.12%		
66) p-Bromofluorobenzene(SURR)	9.99	174	299985	47.49	ppb	0.00
Spiked Amount 50.000	Range 63 - 166		Recovery =	94.98%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.70	85	484755m	57.29	ppb	
3) Chloromethane	1.87	50	953102	58.41	ppb	100
4) Vinyl Chloride	1.97	62	668768	52.73	ppb	100
5) Bromomethane	2.29	94	234717	41.10	ppb	99
6) Chloroethane	2.38	64	332314	51.88	ppb	100
7) Trichlorofluoromethane	2.62	101	416954	46.57	ppb	100
8) Ethyl Ether	2.89	59	291618	53.53	ppb	98
9) Freon-113	3.09	101	340840	51.59	ppb	96
10) 1,1-Dichloroethylene	3.10	61	562508	51.24	ppb	100
11) Acrolein	3.02	56	36077	41.91	ppb	99
12) Iodomethane	3.25	142	389682	48.61	ppb	100
13) Methyl Acetate	3.45	43	196066	51.77	ppb	100
14) tert Butyl Alcohol (TBA)	3.64	59	24903	53.20	ppb	# 100
15) Acrylonitrile	3.77	53	130408	55.15	ppb	# 100
16) trans-1,2-Dichloroethylene	3.79	61	743203	54.44	ppb	99
17) Carbon Disulfide	3.31	76	1287116	48.13	ppb	100
18) Methylene Chloride	3.54	49	516122	47.78	ppb	98
19) tert-Butyl Methyl Ether (M	3.79	73	1025837	53.23	ppb	# 100
20) Acetone	3.15	43	90853	45.62	ppb	99
21) 1,1-Dichloroethane	4.16	63	1046198	54.66	ppb	100
22) Vinyl Acetate	4.20	43	820339	49.76	ppb	100
23) cis-1,2-Dichloroethylene	4.69	96	536940	51.81	ppb	# 100
24) 2-Butanone	4.70	43	225672	57.97	ppb	100
25) 2,2-Dichloropropane	4.69	77	626379	51.84	ppb	100
26) Bromochloromethane	4.90	49	490676	55.68	ppb	97
27) Chloroform	4.97	83	730045	50.14	ppb	99
28) 1,1,1-Trichloroethane	5.14	97	538690	48.78	ppb	100
29) Cyclohexane	5.20	56	1194322	59.65	ppb	99
30) 1,1-Dichloropropylene	5.30	75	704508	52.91	ppb	100
32) Carbon Tetrachloride	5.30	117	448994	50.63	ppb	99
33) 1,2-Dichloroethane	5.50	62	413496	52.28	ppb	99
34) Benzene	5.49	78	2033691	51.70	ppb	100
36) Tetrahydrofuran	4.96	42	121352	59.37	ppb	95
37) Trichloroethylene	6.08	95	436023	52.25	ppb	99
38) Methyl Cyclohexane	6.27	83	866833	53.94	ppb	# 75
39) Methyl Methacrylate	6.39	69	280098	57.47	ppb	# 99
40) Dibromomethane	6.41	93	226931	55.45	ppb	97
41) Bromodichloromethane	6.55	83	512641	52.68	ppb	100

(#) = qualifier out of range (m) = manual integration
 V233077C.D V2C00349.M Mon Nov 04 13:16:24 2013

Quantitation Report (QT Reviewed)

Data File : G:\MSVOA2~1\AILYDAT\V2110313\V233077C.D Vial: 4
 Acq On : 3 Nov 2013 11:00 am Operator: SS
 Sample : 50ppb VOA CAL CHECK STD Inst : MS VOA 2
 Misc : QBV2110313A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 9:47 19113 Quant Results File: V2C00349.RES

Quant Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) 1,2-Dichloropropane	6.30	63	528361	53.37	ppb	99
43) 1,4-Dioxane	6.42	88	61143	1031.39	ppb	97
45) cis-1,3-Dichloropropene	6.98	75	733847	53.96	ppb	100
46) 2-Hexanone	7.96	43	295097	55.22	ppb	99
48) Toluene	7.32	91	1832664	54.49	ppb	100
49) trans-1,3-Dichloropropene	7.53	75	573871	56.49	ppb	99
50) 1,1,2-Trichloroethane	7.71	83	281684	55.08	ppb	98
51) 1,3-Dichloropropane	7.90	76	601649	52.40	ppb	# 100
52) Tetrachloroethylene	7.87	166	358216	47.91	ppb	# 100
53) 4-Methyl-2-Pentanone	7.13	43	647234	74.48	ppb	# 72
54) Dibromochloromethane	8.13	129	307277	49.13	ppb	99
55) 1,2-Dibromoethane	8.25	107	309481	54.40	ppb	100
56) Chlorobenzene	8.76	112	1019879	52.16	ppb	# 100
57) Ethyl Benzene	8.87	91	2009053	56.92	ppb	100
58) p- & m-Xylenes	8.99	91	2788973	104.97	ppb	100
59) o-Xylene	9.42	91	1457825	55.96	ppb	100
60) Styrene	9.44	104	1052010	59.92	ppb	100
61) 1,1,1,2-Tetrachloroethane	8.84	131	318388	53.54	ppb	99
62) p-Ethyltoluene	10.39	105	1520169	54.76	ppb	98
63) p-Diethylbenzene	11.67	119	743058	14.68	ppb	# 73
65) Bromoform	9.64	173	168301	51.76	ppb	# 100
67) 1,1,2,2-Tetrachloroethane	10.14	83	425765	54.01	ppb	99
68) trans-1,4-Dichloro-2-buten	10.20	75	493974	56.21	ppb	100
69) 1,2,3-Trichloropropane	10.20	110	95847	56.88	ppb	89
70) Isopropylbenzene	9.81	105	1755582	51.76	ppb	# 100
71) Bromobenzene	10.16	77	869071	53.56	ppb	99
72) n-Propylbenzene	10.26	91	2315179	55.42	ppb	100
73) 2-Chlorotoluene	10.37	91	1290689	50.72	ppb	# 100
74) 4-Chlorotoluene	10.49	91	1452217	54.14	ppb	# 100
75) tert-Butylbenzene	10.82	119	1400792	49.59	ppb	# 100
76) 1,3,5-trimethylbenzene	10.46	105	1363331	52.73	ppb	99
77) 1,2,4-trimethylbenzene	10.88	105	1230578	50.20	ppb	99
78) sec-Butylbenzene	11.07	105	1746202	51.47	ppb	# 100
79) 1,3-Dichlorobenzene	11.20	146	666060	52.40	ppb	# 95
80) 1,4-Dichlorobenzene	11.29	146	628381	50.10	ppb	# 99
81) 1,2-Dichlorobenzene	11.72	146	561923	50.65	ppb	# 100
82) p-Isopropyltoluene	11.24	119	1341568	53.11	ppb	# 100
83) n-Butylbenzene	11.70	91	1591058	49.40	ppb	# 99
84) 1,2,4,5-Tetramethylbenzene	12.56	119	1018363	51.36	ppb	99
85) 1,2-Dibromo-3-chloropropan	12.60	75	42019	54.47	ppb	94
86) 1,2,4-Trichlorobenzene	13.55	180	267996	48.79	ppb	99
87) Naphthalene	13.83	128	553084	49.53	ppb	# 100
88) Hexachloro-1,3-Butadiene	13.74	225	149802	48.87	ppb	# 99
89) 1,2,3-Trichlorobenzene	14.11	182	226941	50.99	ppb	# 100

(#) = qualifier out of range (m) = manual integration
 V233077C.D V2C00349.M Mon Nov 04 13:16:24 2013

Quantitation Report

Vial: 4

Operator: SS

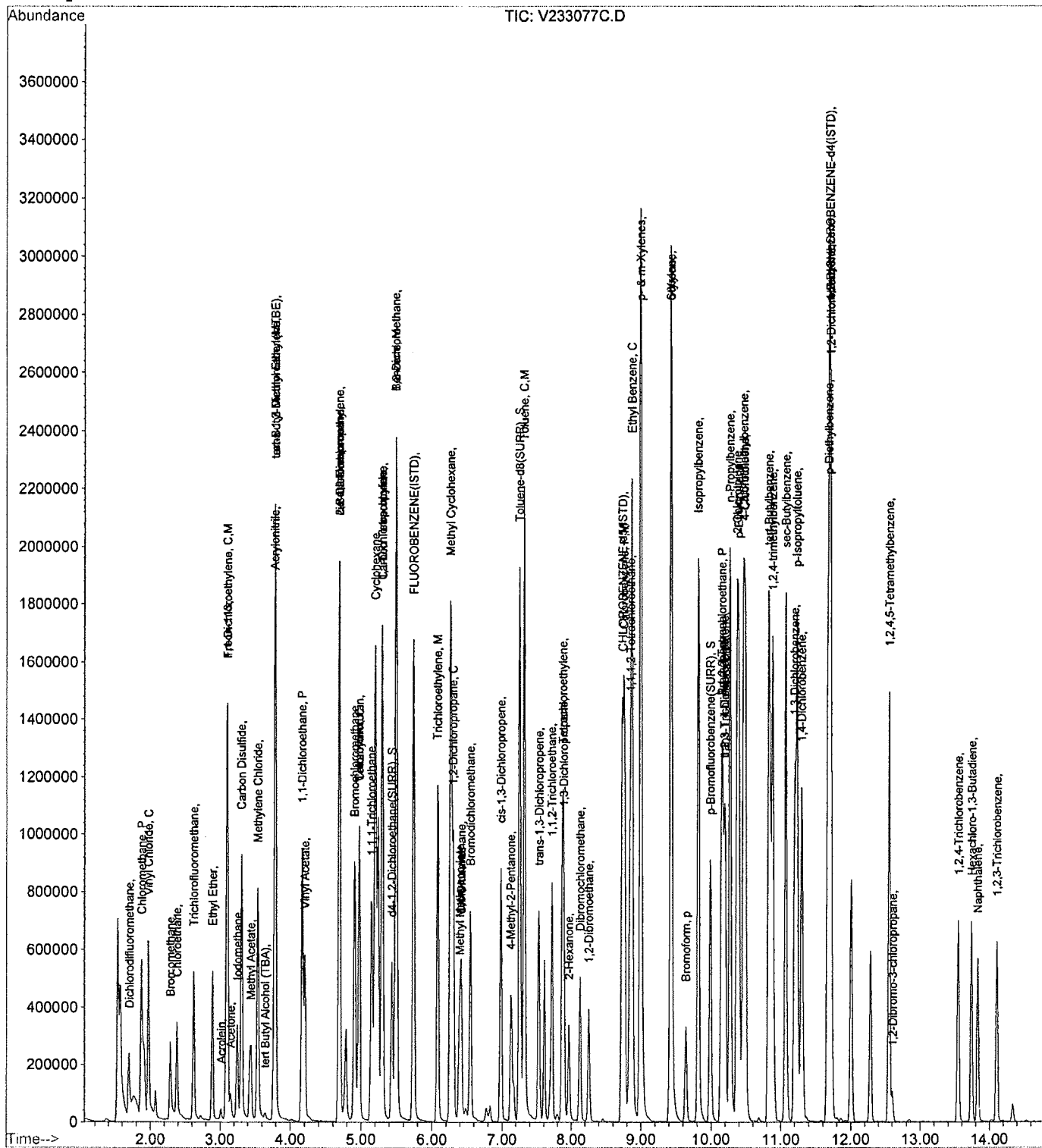
Inst : MS VOA 2

Multiplr: 1.00

Quant Results File: V2C00349.RES

Title : VOCs BY GC/MS 8240/8260

Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : G:\MSVOA2~1\DAILYDAT\V2110613\V233174C.D Vial: 1
 Acq On : 6 Nov 2013 7:45 am Operator: SS
 Sample : 50 ppb VOA CAL CHECK STD Inst : MS VOA 2
 Misc : QBV2110613A Multiplr: 1.00
 MS Integration Params: rteint.p

Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	FLUOROBENZENE(ISTD)	1.000	1.000	0.0	109	-0.04
2	Dichlorodifluoromethane	1.145	1.318	-15.1	111	-0.01
3 P	Chloromethane	2.207	2.672	-21.1	129	-0.01
4 C	Vinyl Chloride	1.715	1.992	-16.2	119	-0.02
5	Bromomethane	0.773	0.787	-1.8	108	-0.01
6	Chloroethane	0.866	0.991	-14.4	112	-0.01
7	Trichlorofluoromethane	1.211	1.253	-3.5	105	-0.02
8	Ethyl Ether	0.737	0.857	-16.3	118	-0.03
9	Freon-113	0.894	0.946	-5.8	108	-0.03
10 C,M	1,1-Dichloroethylene	1.485	1.579	-6.3	111	-0.03
11	Acrolein	0.116	0.134	-15.5	132	-0.03
12	Iodomethane	0.923	1.057	-14.5	102	-0.03
13	Methyl Acetate	0.512	0.634	-23.8	126	-0.03
14	tert Butyl Alcohol (TBA)	0.063	0.073	-15.9	131	-0.03
15	Acrylonitrile	0.320	0.399	-24.7	126	-0.03
16	trans-1,2-Dichloroethylene	1.847	2.024	-9.6	116	-0.03
17	Carbon Disulfide	3.618	3.677	-1.6	105	-0.03
18	Methylene Chloride	1.760	1.488	15.5	102	-0.03
19	tert-Butyl Methyl Ether (MT)	2.607	2.904	-11.4	119	-0.03
20	Acetone	0.269	0.368	-36.8#	154	-0.02
21 P	1,1-Dichloroethane	2.589	2.786	-7.6	110	-0.03
22	Vinyl Acetate	2.230	2.922	-31.0#	135	-0.03
23	cis-1,2-Dichloroethylene	1.402	1.439	-2.6	104	-0.03
24	2-Butanone	0.527	0.719	-36.4#	146	-0.04
25	2,2-Dichloropropane	1.635	1.741	-6.5	110	-0.03
26	Bromochloromethane	1.192	1.389	-16.5	119	-0.04
27 C	Chloroform	1.969	2.073	-5.3	108	-0.04
28	1,1,1-Trichloroethane	1.494	1.503	-0.6	102	-0.04
29	Cyclohexane	2.708	3.205	-18.4	112	-0.03
30	1,1-Dichloropropylene	1.801	1.826	-1.4	105	-0.04
31 S	d4-1,2-Dichloroethane(SURR)	0.843	0.913	-8.3	118	-0.04
32	Carbon Tetrachloride	1.200	1.200	0.0	104	-0.04
33	1,2-Dichloroethane	1.070	1.153	-7.8	113	-0.04
34 M	Benzene	5.321	5.421	-1.9	109	-0.04
35	CHLOROBENZENE-d5(ISTD)	1.000	1.000	0.0	113	-0.04
36	Tetrahydrofuran	0.106	0.131	-23.6	134	-0.04
37 M	Trichloroethylene	0.432	0.424	1.9	109	-0.04
38	Methyl Cyclohexane	0.831	0.836	-0.6	107	-0.04
39	Methyl Methacrylate	0.252	0.277	-9.9	117	-0.04
40	Dibromomethane	0.212	0.217	-2.4	110	-0.04
41	Bromodichloromethane	0.503	0.509	-1.2	108	-0.04
42 C	1,2-Dichloropropane	0.512	0.538	-5.1	113	-0.04
43	1,4-Dioxane	0.003	0.003#	0.0	103	-0.04
44	2-Chloroethyl vinyl ether	0.000	0.000#	0.0	126	-0.05
45	cis-1,3-Dichloropropene	0.704	0.708	-0.6	109	-0.04
46	2-Hexanone	0.276	0.344	-24.6	139	-0.04
47 S	Toluene-d8(SURR)	1.411	1.386	1.8	112	-0.04
48 C,M	Toluene	1.740	1.719	1.2	110	-0.04
49	trans-1,3-Dichloropropene	0.526	0.539	-2.5	110	-0.04
50	1,1,2-Trichloroethane	0.265	0.284	-7.2	115	-0.05

(#) = Out of Range

V233174C.D V2C00349.M

Wed Nov 06 12:47:36 2013

Page 1

Evaluate Continuing Calibration Report

Data File : G:\MSVOA2~1\DAI\LYDAT\V2110613\V233174C.D Vial: 1
 Acq On : 6 Nov 2013 7:45 am Operator: SS
 Sample : 50 ppb VOA CAL CHECK STD Inst : MS VOA 2
 Misc : QBV2110613A Multiplr: 1.00
 MS Integration Params: rteint.p

Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	1,3-Dichloropropane	0.594	0.605	-1.9	112	-0.05
52	Tetrachloroethylene	0.387	0.345	10.9	98	-0.04
53	4-Methyl-2-Pentanone	0.450	0.511	-13.6	134	-0.04
54	Dibromochloromethane	0.324	0.324	0.0	107	-0.04
55	1,2-Dibromoethane	0.294	0.313	-6.5	115	-0.04
56	P,M Chlorobenzene	1.011	1.030	-1.9	111	-0.05
57	C Ethyl Benzene	1.826	1.862	-2.0	108	-0.04
58	p- & m-Xylenes	1.374	1.368	0.4	108	-0.04
59	o-Xylene	1.348	1.410	-4.6	112	-0.04
60	Styrene	0.908	1.027	-13.1	117	-0.04
61	1,1,1,2-Tetrachloroethane	0.308	0.320	-3.9	111	-0.04
62	p-Ethyltoluene	1.436	1.494	-4.0	107	-0.05
63	p-Diethylbenzene	2.351	0.686	70.8#	78	-0.04
64	1,2-DICHLOROBENZENE-d4 (ISTD	1.000	1.000	0.0	117	-0.04
65	p Bromoform	0.496	0.483	2.6	107	-0.04
66	S p-Bromofluorobenzene (SURR)	0.963	0.928	3.6	111	-0.04
67	P 1,1,2,2-Tetrachloroethane	1.202	1.246	-3.7	114	-0.04
68	trans-1,4-Dichloro-2-butene	1.340	1.387	-3.5	117	-0.04
69	1,2,3-Trichloropropane	0.257	0.259	-0.8	113	-0.05
70	Isopropylbenzene	5.171	4.925	4.8	112	-0.04
71	Bromobenzene	2.474	2.393	3.3	107	-0.04
72	n-Propylbenzene	6.369	6.422	-0.8	105	-0.05
73	2-Chlorotoluene	3.879	3.729	3.9	106	-0.04
74	4-Chlorotoluene	4.089	4.054	0.9	112	-0.04
75	tert-Butylbenzene	4.307	3.890	9.7	103	-0.04
76	1,3,5-trimethylbenzene	3.941	3.874	1.7	114	-0.05
77	1,2,4-trimethylbenzene	3.737	3.446	7.8	105	-0.04
78	sec-Butylbenzene	5.172	5.076	1.9	111	-0.04
79	1,3-Dichlorobenzene	1.938	1.885	2.7	108	-0.04
80	1,4-Dichlorobenzene	1.912	1.837	3.9	108	-0.04
81	1,2-Dichlorobenzene	1.691	1.577	6.7	106	-0.04
82	p-Isopropyltoluene	3.851	3.642	5.4	104	-0.04
83	n-Butylbenzene	6.052	4.314	28.7#	106	-0.04
84	1,2,4,5-Tetramethylbenzene	3.023	2.878	4.8	103	-0.04
85	1,2-Dibromo-3-chloropropane	0.118	0.127	-7.6	119	-0.04
86	1,2,4-Trichlorobenzene	0.837	0.809	3.3	108	-0.04
87	Naphthalene	1.702	1.693	0.5	107	-0.04
88	Hexachloro-1,3-Butadiene	0.467	0.435	6.9	102	-0.04
89	1,2,3-Trichlorobenzene	0.679	0.661	2.7	105	-0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0
 V233174C.D V2C00349.M Wed Nov 06 12:47:36 2013

Quantitation Report (QT Reviewed)

Data File : G:\MSVOA2-1\AILYDAT\V2110613\V233174C.D Vial: 1
 Acq On : 6 Nov 2013 7:45 am Operator: SS
 Sample : 50 ppb VOA CAL CHECK STD Inst : MS VOA 2
 Misc : QBV2110613A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 6 12:06 19113 Quant Results File: V2C00349.RES

Quant Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE(ISTD)	5.70	70	360052	50.00	ppb	-0.04
35) CHLOROBEZENE-d5(ISTD)	8.68	117	1043363	50.00	ppb	-0.04
64) 1,2-DICHLOROBEZENE-d4(IST)	11.65	152	346118	50.00	ppb	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) d4-1,2-Dichloroethane(SURR)	5.39	65	328572	54.13	ppb	-0.04
Spiked Amount 50.000	Range 67 - 128		Recovery =	108.26%		
47) Toluene-d8(SURR)	7.21	98	1445585	49.08	ppb	-0.04
Spiked Amount 50.000	Range 87 - 113		Recovery =	98.16%		
66) p-Bromofluorobenzene(SURR)	9.94	174	321339	48.21	ppb	-0.04
Spiked Amount 50.000	Range 63 - 166		Recovery =	96.42%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.67	85	474505m	57.57	ppb	
3) Chloromethane	1.85	50	962057	60.52	ppb	100
4) Vinyl Chloride	1.94	62	717096	58.05	ppb	100
5) Bromomethane	2.26	94	283294	50.92	ppb	100
6) Chloroethane	2.36	64	356928	57.21	ppb	100
7) Trichlorofluoromethane	2.59	101	451131	51.73	ppb	100
8) Ethyl Ether	2.85	59	308431	58.12	ppb	99
9) Freon-113	3.06	101	340639	52.93	ppb	94
10) 1,1-Dichloroethylene	3.06	61	568640	53.17	ppb	100
11) Acrolein	2.97	56	48393	57.71	ppb	86
12) Iodomethane	3.20	142	380418	48.70	ppb	100
13) Methyl Acetate	3.41	43	228251	61.87	ppb	100
14) tert Butyl Alcohol (TBA)	3.60	59	26331	57.75	ppb	# 100
15) Acrylonitrile	3.72	53	143650	62.37	ppb	# 100
16) trans-1,2-Dichloroethylene	3.74	61	728588	54.79	ppb	98
17) Carbon Disulfide	3.27	76	1324058	50.83	ppb	100
18) Methylene Chloride	3.50	49	535809	51.29	ppb	98
19) tert-Butyl Methyl Ether (M	3.74	73	1045414	55.69	ppb	# 100
20) Acetone	3.12	43	132481	68.30	ppb	100
21) 1,1-Dichloroethane	4.13	63	1003060	53.80	ppb	100
22) Vinyl Acetate	4.17	43	1052173	65.53	ppb	100
23) cis-1,2-Dichloroethylene	4.65	96	518068	51.32	ppb	# 99
24) 2-Butanone	4.66	43	258891	68.27	ppb	100
25) 2,2-Dichloropropane	4.65	77	627016	53.27	ppb	100
26) Bromochloromethane	4.86	49	500137	58.27	ppb	98
27) Chloroform	4.93	83	746291	52.62	ppb	99
28) 1,1,1-Trichloroethane	5.10	97	541100	50.30	ppb	100
29) Cyclohexane	5.16	56	1154056	59.17	ppb	98
30) 1,1-Dichloropropylene	5.25	75	657524	50.69	ppb	100
32) Carbon Tetrachloride	5.25	117	432134	50.02	ppb	99
33) 1,2-Dichloroethane	5.46	62	415229	53.89	ppb	100
34) Benzene	5.45	78	1951795	50.94	ppb	100
36) Tetrahydrofuran	4.91	42	136499	61.87	ppb	94
37) Trichloroethylene	6.03	95	442215	49.09	ppb	100
38) Methyl Cyclohexane	6.22	83	872465	50.30	ppb	# 100
39) Methyl Methacrylate	6.34	69	289127	54.96	ppb	# 100
40) Dibromomethane	6.36	93	226600	51.30	ppb	99
41) Bromodichloromethane	6.51	83	530908	50.54	ppb	100

(#) = qualifier out of range (m) = manual integration

V233174C.D V2C00349.M

Wed Nov 06 12:47:13 2013

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Quantitation Report (QT Reviewed)

Data File : G:\MSVOA2-1\AILYDAT\V2110613\V233174C.D
 Acq On : 6 Nov 2013 7:45 am
 Sample : 50 ppb VOA CAL CHECK STD
 Misc : QBV2110613A
 MS Integration Params: rteint.p
 Quant Time: Nov 6 12:06 19113

Vial: 1
 Operator: SS
 Inst : MS VOA 2
 Multiplr: 1.00

Quant Results File: V2C00349.RES

Quant Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) 1,2-Dichloropropane	6.25	63	560880	52.49	ppb	99
43) 1,4-Dioxane	6.38	88	53819	856.17	ppb	93
45) cis-1,3-Dichloropropene	6.94	75	738382	50.30	ppb	100
46) 2-Hexanone	7.92	43	359225	62.27	ppb	99
48) Toluene	7.28	91	1794016	49.42	ppb	100
49) trans-1,3-Dichloropropene	7.49	75	562854	51.33	ppb	100
50) 1,1,2-Trichloroethane	7.67	83	296162	53.65	ppb	98
51) 1,3-Dichloropropane	7.84	76	630832	50.90	ppb	# 100
52) Tetrachloroethylene	7.82	166	359757	44.58	ppb	# 100
53) 4-Methyl-2-Pentanone	7.08	43	532795m	56.80	ppb	100
54) Dibromochloromethane	8.08	129	337797	50.03	ppb	98
55) 1,2-Dibromoethane	8.21	107	326270	53.13	ppb	# 100
56) Chlorobenzene	8.71	112	1074523	50.91	ppb	100
57) Ethyl Benzene	8.82	91	1942590	50.98	ppb	100
58) p- & m-Xylenes	8.95	91	2854583	99.54	ppb	100
59) o-Xylene	9.37	91	1471082	52.31	ppb	99
60) Styrene	9.39	104	1071621	56.54	ppb	98
61) 1,1,1,2-Tetrachloroethane	8.80	131	333476	51.95	ppb	98
62) p-Ethyltoluene	10.35	105	1558272	52.00	ppb	# 75
63) p-Diethylbenzene	11.63	119	716073	6.30	ppb	# 100
65) Bromoform	9.59	173	167298	48.76	ppb	99
67) 1,1,2,2-Tetrachloroethane	10.10	83	431369	51.85	ppb	99
68) trans-1,4-Dichloro-2-buten	10.15	75	480078	51.76	ppb	91
69) 1,2,3-Trichloropropane	10.14	110	89782	50.49	ppb	# 100
70) Isopropylbenzene	9.77	105	1704708	47.63	ppb	99
71) Bromobenzene	10.11	77	828342	48.38	ppb	100
72) n-Propylbenzene	10.22	91	2222681	50.41	ppb	# 100
73) 2-Chlorotoluene	10.33	91	1290532	48.06	ppb	# 100
74) 4-Chlorotoluene	10.44	91	1403250	49.58	ppb	# 100
75) tert-Butylbenzene	10.79	119	1346407	45.16	ppb	99
76) 1,3,5-trimethylbenzene	10.41	105	1340884	49.15	ppb	99
77) 1,2,4-trimethylbenzene	10.84	105	1192553	46.10	ppb	# 100
78) sec-Butylbenzene	11.03	105	1756841	49.07	ppb	# 95
79) 1,3-Dichlorobenzene	11.15	146	652563	48.65	ppb	# 99
80) 1,4-Dichlorobenzene	11.26	146	635725	46.61	ppb	# 100
81) 1,2-Dichlorobenzene	11.67	146	545721	47.28	ppb	# 99
82) p-Isopropyltoluene	11.19	119	1260451	43.19	ppb	# 99
83) n-Butylbenzene	11.65	91	1492991	47.61	ppb	99
84) 1,2,4,5-Tetramethylbenzene	12.51	119	996048	53.92	ppb	98
85) 1,2-Dibromo-3-chloropropan	12.56	75	43899	48.32	ppb	99
86) 1,2,4-Trichlorobenzene	13.50	180	280073	49.71	ppb	# 100
87) Naphthalene	13.78	128	585859	46.51	ppb	# 99
88) Hexachloro-1,3-Butadiene	13.70	225	150437	48.70	ppb	# 100
89) 1,2,3-Trichlorobenzene	14.06	182	228733			

(#) = qualifier out of range (m) = manual integration
 V233174C.D V2C00349.M Wed Nov 06 12:47:14 2013

FORM V**ANALYSIS BATCH (SEQUENCE) SUMMARY****EPA 8260C**Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVS

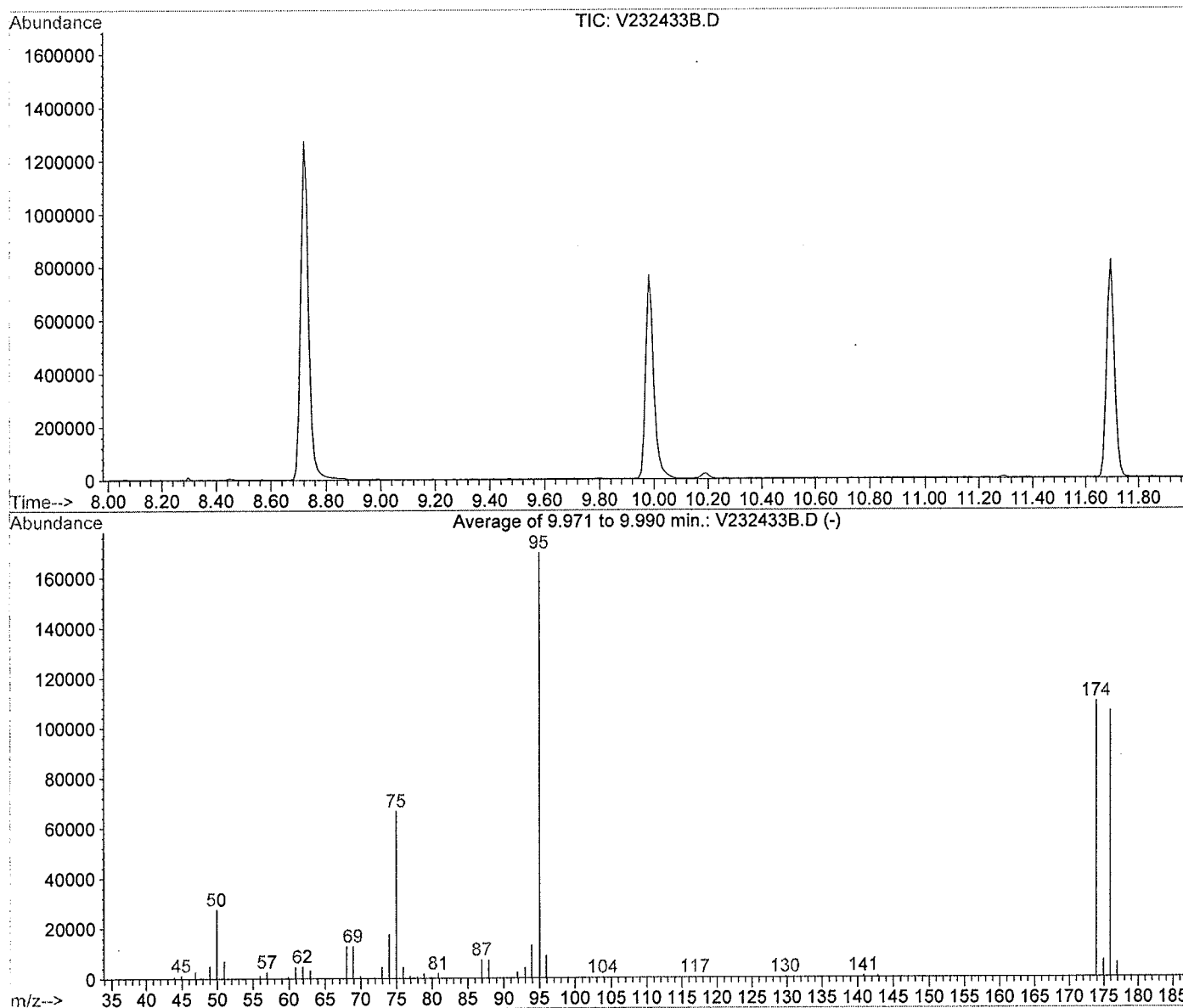
Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	BK30107-BS1	V233078L.D	11/03/13 11:36
LCS Dup	BK30107-BSD1	V233079U.D	11/03/13 12:11
Blank	BK30107-BLK1	V233080B.D	11/03/13 12:47
KC-MW-01 1013	13J1044-01	V233180W.D	11/03/13 18:39
KC-MW-02 1013	BK30107-DUP1	V233091B.D	11/03/13 19:15
KC-MW-02 1013	13J1044-02	V233092B.D	11/03/13 19:50
KC-MW-05 1013	13J1044-03	V233093B.D	11/03/13 20:25
KC-FD-01 1013	13J1044-04	V233094B.D	11/03/13 21:01
LCS	BK30233-BS1	V233175L.D	11/06/13 08:22
LCS Dup	BK30233-BSD1	V233176U.D	11/06/13 08:57
Blank	BK30233-BLK1	V233177B.D	11/06/13 09:32

Data File : G:\MSVOA2~1\AILYDAT\V2101413\V232433B.D Vial: 8
Acq On : 14 Oct 2013 1:35 pm Operator: SS
Sample : MBLK Inst : MS VOA 2
Misc : QBV2101413A Multiplr: 1.00
MS Integration Params: rteint.p
Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
Title : VOCs BY GC/MS 8240/8260

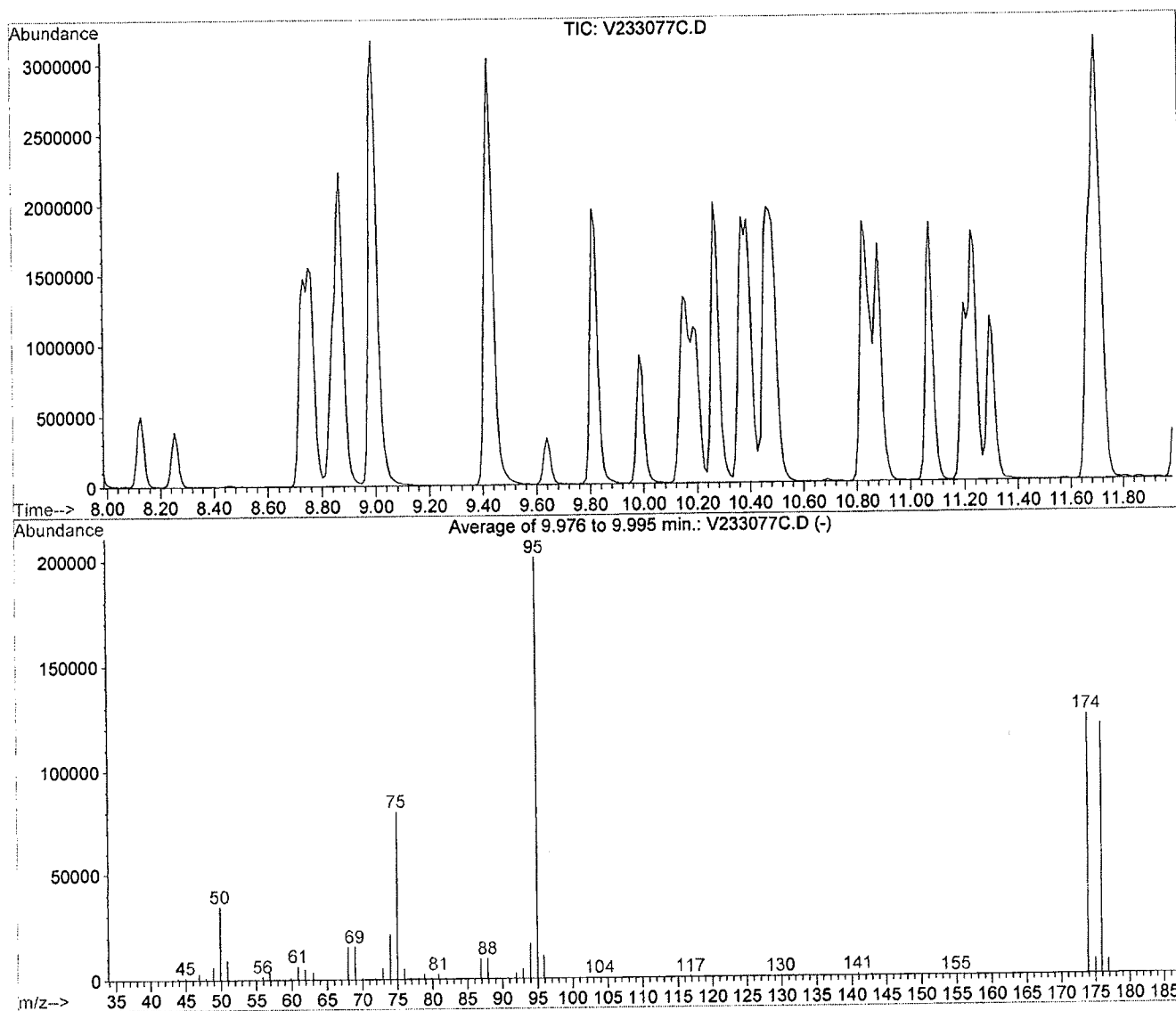


Spectrum Information: Average of 9.971 to 9.990 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	27579	PASS
75	95	30	60	39.3	66752	PASS
95	95	100	100	100.0	169856	PASS
96	95	5	9	5.3	8997	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.8	110093	PASS
175	174	5	9	6.2	6871	PASS
176	174	95	101	96.5	106189	PASS
177	176	5	9	5.5	5811	PASS

BFB

Data File : G:\MSVOA2~1\DAI\LYDAT\V2110313\V233077C.D Vial: 4
Acq On : 3 Nov 2013 11:00 am Operator: SS
Sample : 50ppb VOA CAL CHECK STD Inst : MS VOA 2
Misc : QBV2110313A Multiplr: 1.00
MS Integration Params: rteint.p
Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
Title : VOCs BY GC/MS 8240/8260

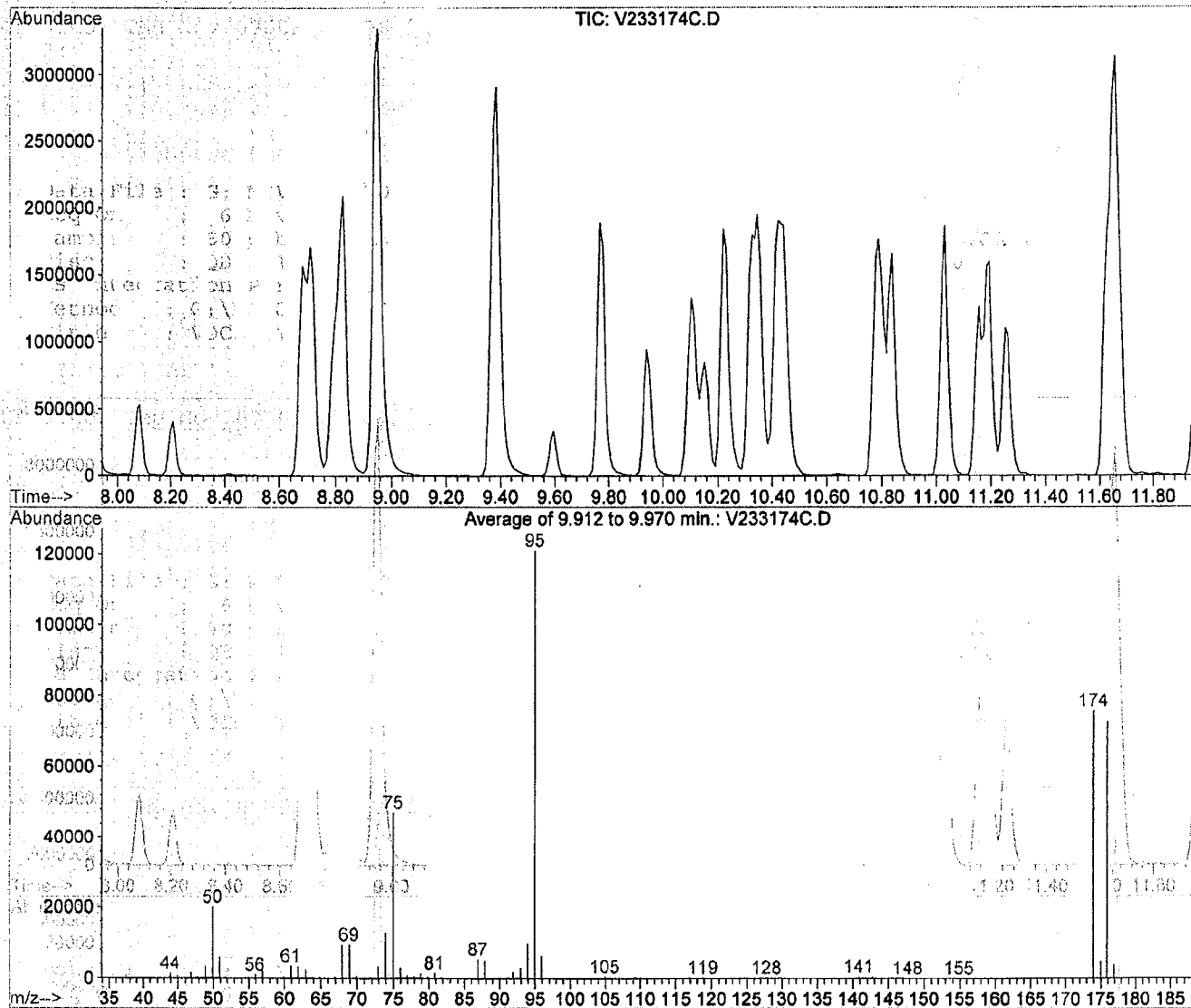


Spectrum Information: Average of 9.976 to 9.995 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	34776	PASS
75	95	30	60	40.0	80429	PASS
95	95	100	100	100.0	201109	PASS
96	95	5	9	5.4	10956	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	61.8	124240	PASS
175	174	5	9	5.7	7049	PASS
176	174	95	101	96.4	119781	PASS
177	176	5	9	5.5	6577	PASS

BFB

Data File : G:\MSVOA2-1\AILYDAT\V2110613\V233174C.D Vial: 1
Acq On : 6 Nov 2013 7:45 am Operator: SS
Sample : 50 ppb VOA CAL CHECK STD Inst : MS VOA 2
Misc : QBV2110613A Multiplr: 1.00
MS Integration Params: rteint.p
Method : G:\MSVOA2-1\METHODS\V2C00349.M (RTE Integrator)
Title : VOCs BY GC/MS 8240/8260



Spectrum Information: Average of 9.912 to 9.970 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	20058	PASS
75	95	30	60	38.9	47058	PASS
95	95	100	100	100.0	120949	PASS
96	95	5	9	5.2	6325	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	62.6	75746	PASS
175	174	5	9	6.5	4889	PASS
176	174	95	101	95.8	72596	PASS
177	176	5	9	5.4	3905	PASS

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BK30107-BLK1 File ID: V233080B.D
 Prepared: 11/03/13 09:06 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Analyzed: 11/03/13 12:47 Instrument: MS VOA 2
 Batch: BK30107 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethylene	5.0	U
563-58-6	1,1-Dichloropropylene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	5.0	U
108-86-1	Bromobenzene	5.0	U
74-97-5	Bromochloromethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BK30107-BLK1 File ID: V233080B.D
 Prepared: 11/03/13 09:06 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Analyzed: 11/03/13 12:47 Instrument: MS VOA 2
 Batch: BK30107 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
156-59-2	cis-1,2-Dichloroethylene	5.0	U
10061-01-5	cis-1,3-Dichloropropylene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
100-41-4	Ethyl Benzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
98-82-8	Isopropylbenzene	5.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	5.0	U
75-09-2	Methylene chloride	5.0	U
91-20-3	Naphthalene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	p- & m- Xylenes	10	U
99-87-6	p-Isopropyltoluene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
100-42-5	Styrene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
127-18-4	Tetrachloroethylene	5.0	U
108-88-3	Toluene	5.0	U
156-60-5	trans-1,2-Dichloroethylene	5.0	U
10061-02-6	trans-1,3-Dichloropropylene	5.0	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Matrix: Water Laboratory ID: BK30107-BLK1 File ID: V233080B.D
Prepared: 11/03/13 09:06 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
Analyzed: 11/03/13 12:47 Instrument: MS VOA 2
Batch: BK30107 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
79-01-6	Trichloroethylene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
1330-20-7	Xylenes, Total	15	U
108-05-4	Vinyl acetate	5.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	50.0	47.7	95.3	78 - 122	
p-Bromofluorobenzene	50.0	51.0	102	87 - 112	
Toluene-d8	50.0	49.4	98.8	91 - 110	

Data File : G:\MSVOA2 V2\AILYDAT\V2110313\V233080B.D Vial: 7
 Acq On : 3 Nov 2013 12:47 pm Operator: SS
 Sample : BK30107-BLK1 Inst : MS VOA 2
 Misc : QBV2110313A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:25 2013 Quant Results File: V2C00349.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) FLUOROBENZENE (ISTD)	5.74	70	380020	50.00	ppb	0.00
35) CHLOROBENZENE-d5 (ISTD)	8.73	117	1000870	50.00	ppb	0.00
64) 1,2-DICHLOROBENZENE-d4 (ISTD)	11.69	152	299782	50.00	ppb	0.00

System Monitoring Compounds

31) d4-1,2-Dichloroethane (SURR)	5.44	65	305325	47.66	ppb	0.00
Spiked Amount	50.000	Range	67 - 128	Recovery	=	95.32%
47) Toluene-d8 (SURR)	7.25	98	1395786	49.40	ppb	0.00
Spiked Amount	50.000	Range	87 - 113	Recovery	=	98.80%
66) p-Bromofluorobenzene (SURR)	9.99	174	294371	50.99	ppb	0.00
Spiked Amount	50.000	Range	63 - 166	Recovery	=	101.98%

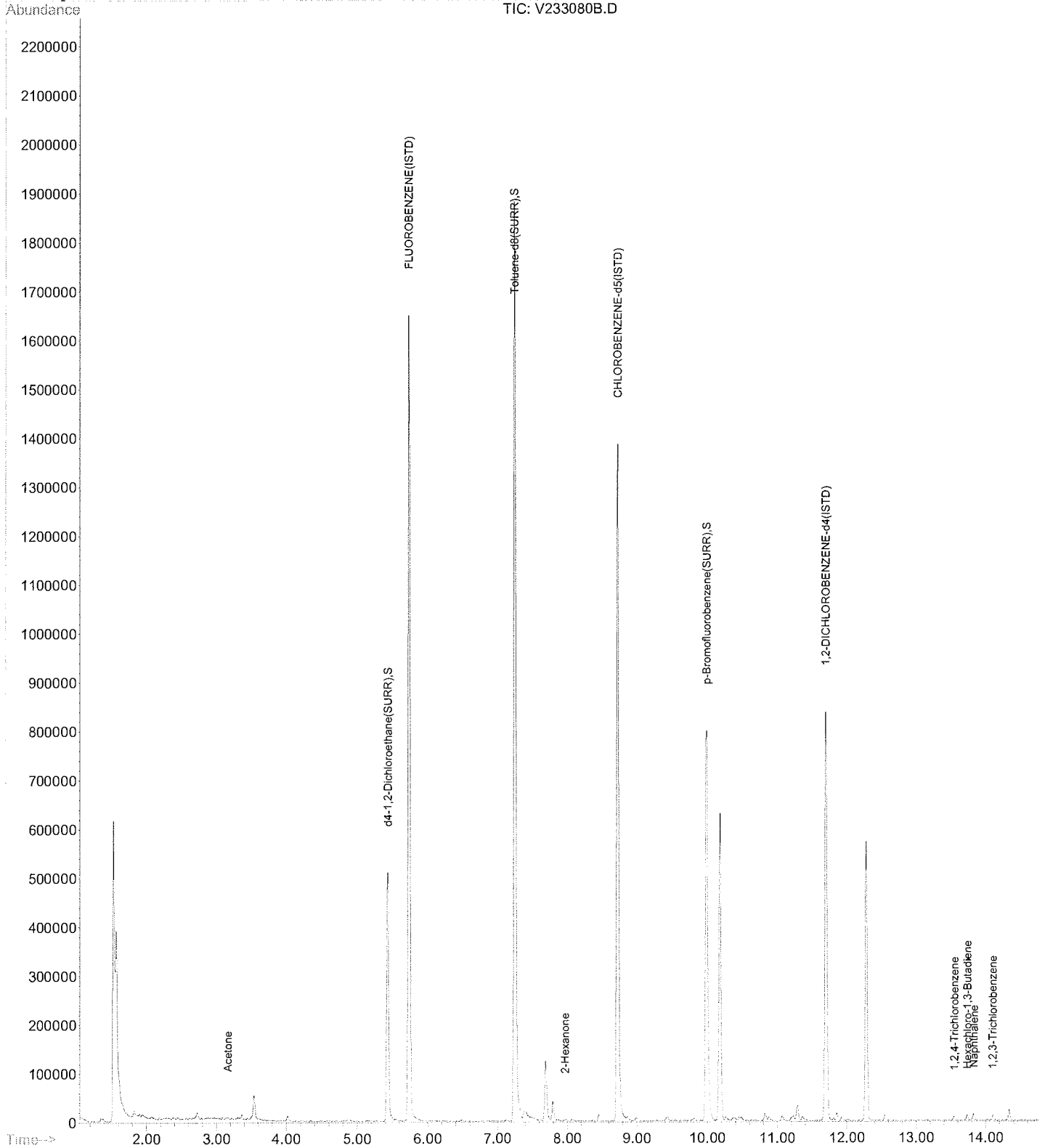
Target Compounds

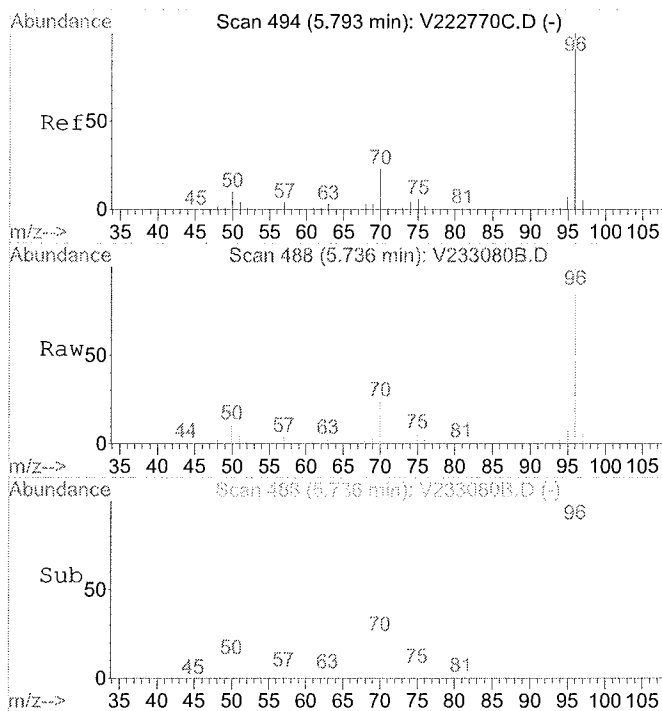
						Qvalue
20) Acetone	3.16	43	4543	2.22	ppb	87
46) 2-Hexanone	7.97	43	4979	0.90	ppb	# 72
86) 1,2,4-Trichlorobenzene	13.54	180	4077	0.81	ppb	# 52
87) Naphthalene	13.83	128	14123	1.38	ppb	# 100
88) Hexachloro-1,3-Butadiene	13.74	225	3489	1.25	ppb	# 97
89) 1,2,3-Trichlorobenzene	14.11	182	4855	1.19	ppb	# 100

Quantitation Report

Data File : G:\MSVOA2 V2\AILYDAT\V2110313\V233080B.D Vial: 7
 Acq On : 3 Nov 2013 12:47 pm Operator: SS
 Sample : BK30107-BLK1 Inst : MS VOA 2
 Misc : QBV2110313A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:25 2013 Quant Results File: V2C00349.RES

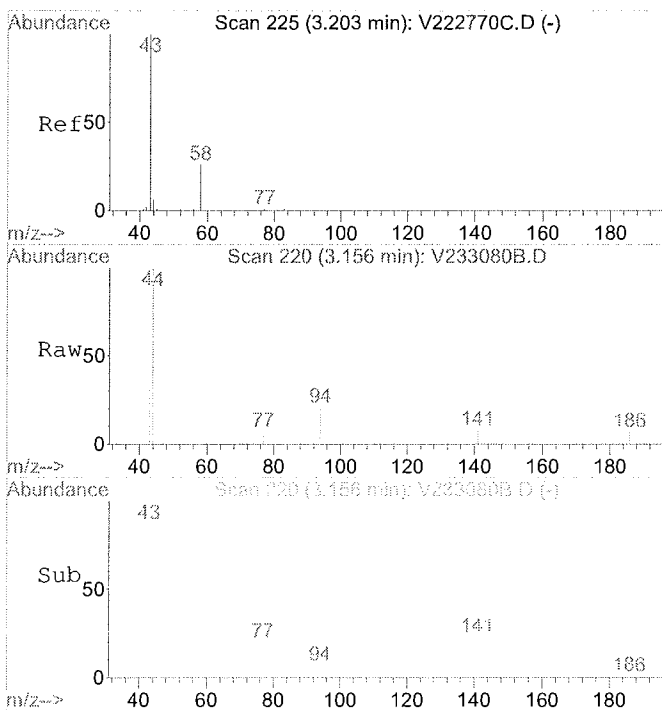
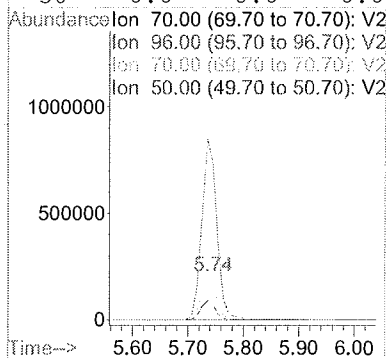
Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration





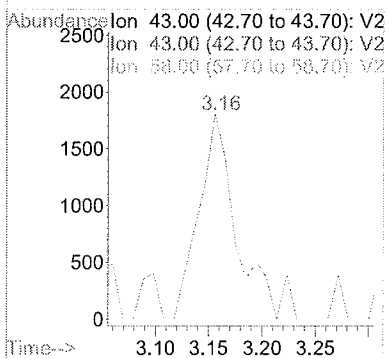
#1
 FLUOROBENZENE (ISTD)
 Concen: 50.00 ppb
 RT: 5.74 min Scan# 488
 Delta R.T. -0.00 min
 Lab File: V233080B.D
 Acq: 3 Nov 2013 12:47 pm

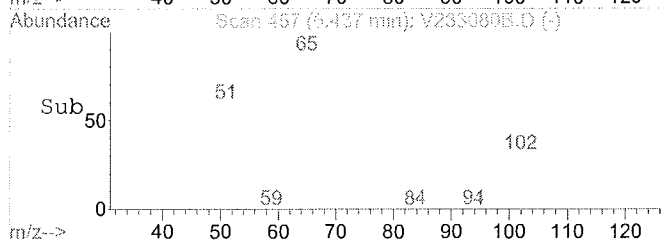
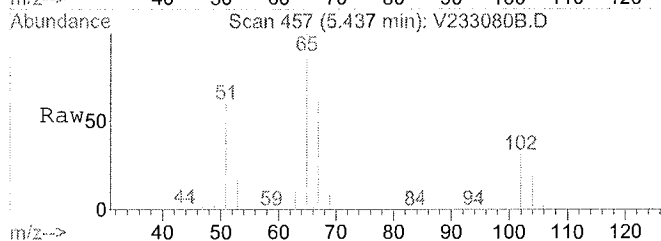
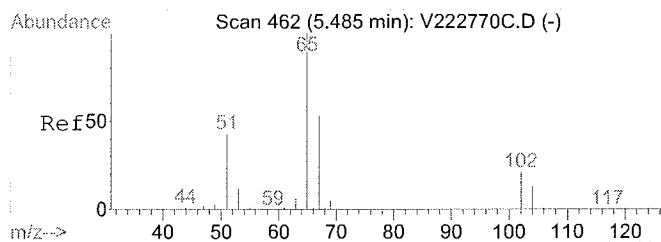
Tgt Ion: 70 Resp: 380020
 Ion Ratio Lower Upper
 70 100
 96 423.7 359.2 538.8
 70 100.0 80.0 120.0
 50 0.0 0.0 0.0



#20
 Acetone
 Concen: 2.22 ppb
 RT: 3.16 min Scan# 220
 Delta R.T. 0.02 min
 Lab File: V233080B.D
 Acq: 3 Nov 2013 12:47 pm

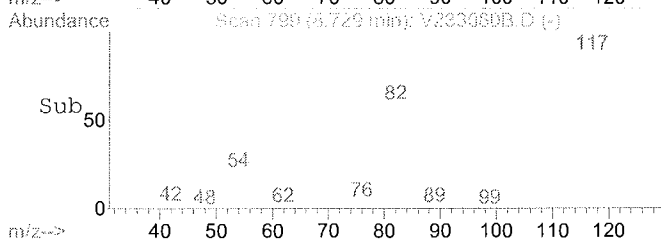
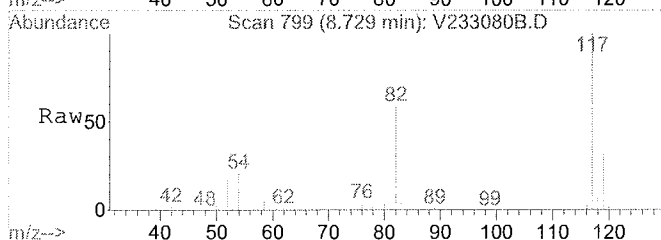
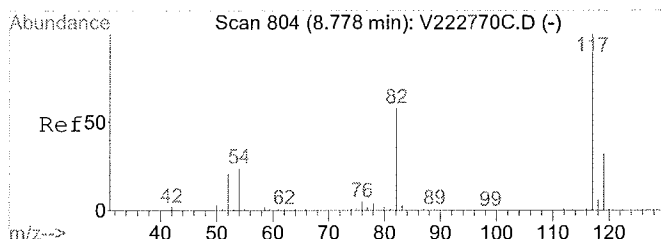
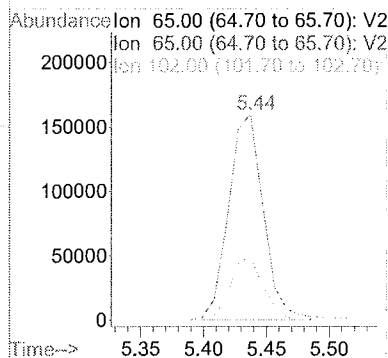
Tgt Ion: 43 Resp: 4543
 Ion Ratio Lower Upper
 43 100
 43 100.0 0.0 200.0
 58 0.0 0.0 60.6





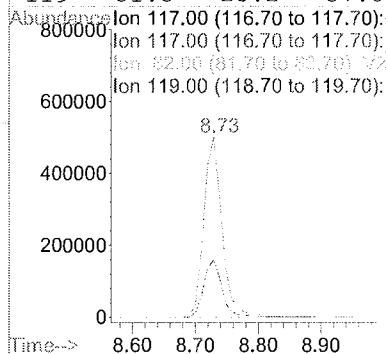
#31
d4-1,2-Dichloroethane (SURRE)
Concen: N.D. ppb
RT: 5.44 min Scan# 457
Delta R.T. 0.01 min
Lab File: V233080B.D
Acq: 3 Nov 2013 12:47 pm

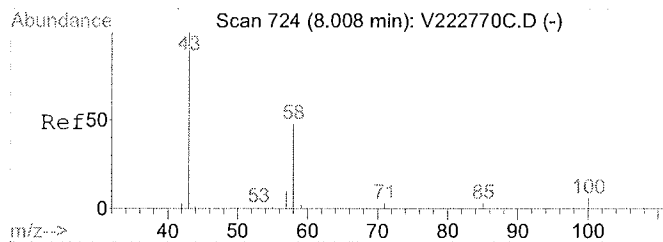
Tgt Ion	Resp	Lower	Upper
65	305325		
65	100		
65	100.0	80.0	120.0
102	29.2	24.2	36.4



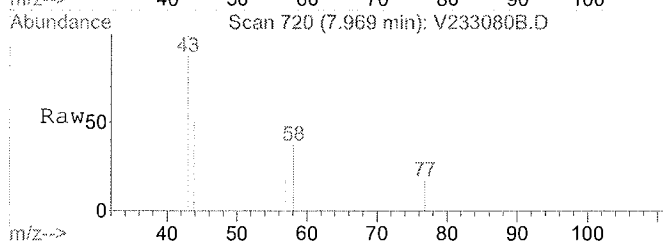
#35
CHLOROBEZENE-d5 (ISTD)
Concen: 50.00 ppb
RT: 8.73 min Scan# 799
Delta R.T. 0.01 min
Lab File: V233080B.D
Acq: 3 Nov 2013 12:47 pm

Tgt Ion	Resp	Lower	Upper
117	1000870		
117	100		
117	100.0	80.0	120.0
82	0.0	0.0	0.0
119	31.3	25.2	37.8

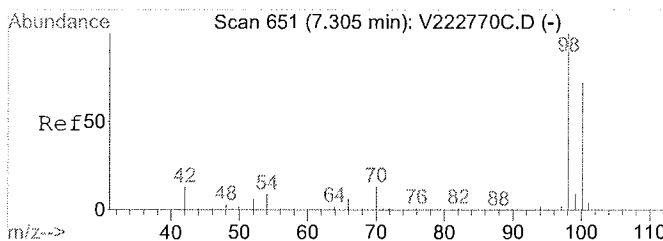
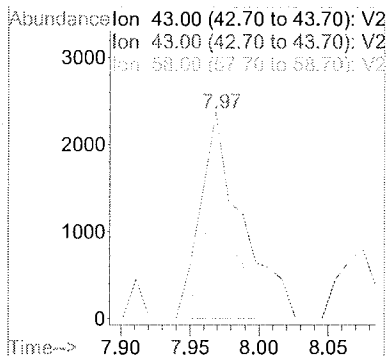
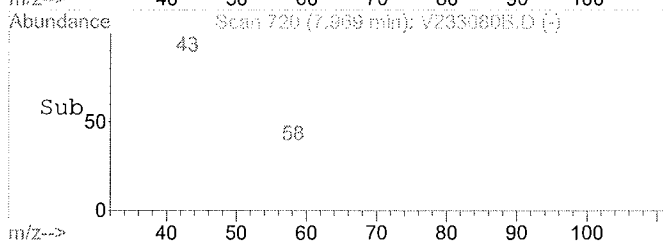




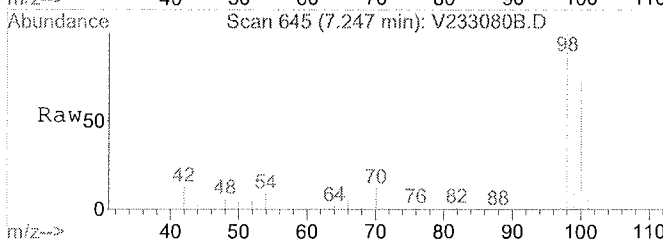
#46
2-Hexanone
Concen: 0.90 ppb
RT: 7.97 min Scan# 720
Delta R.T. 0.01 min
Lab File: V233080B.D
Acq: 3 Nov 2013 12:47 pm



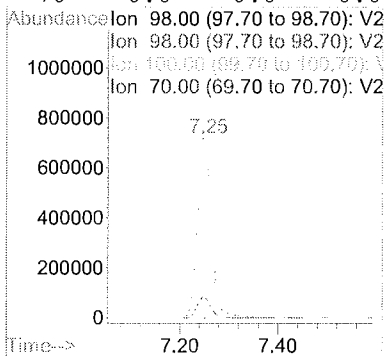
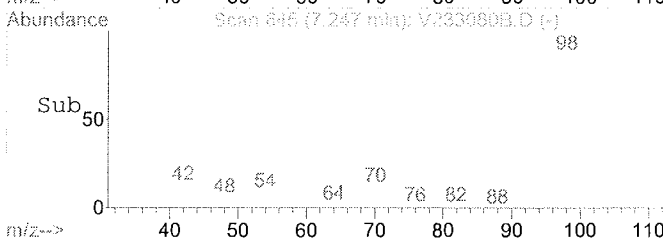
Tgt Ion: 43 Resp: 4979
Ion Ratio Lower Upper
43 100
43 100.0 80.0 120.0
58 0.0 46.1 69.1#

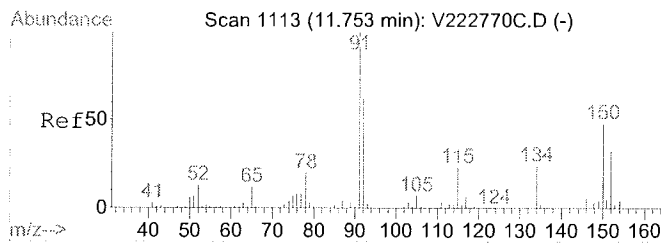


#47
Toluene-d8 (SURR)
Concen: 0.90 ppb
RT: 7.25 min Scan# 645
Delta R.T. -0.00 min
Lab File: V233080B.D
Acq: 3 Nov 2013 12:47 pm

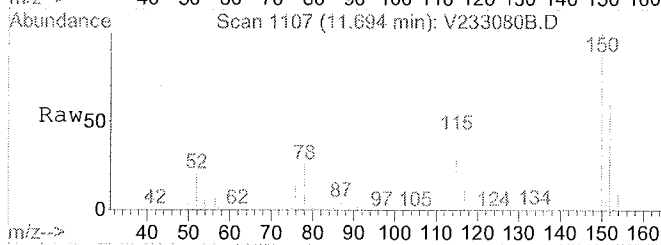


Tgt Ion: 98 Resp: 1395786
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 71.7 57.3 85.9
70 0.0 0.0 0.0

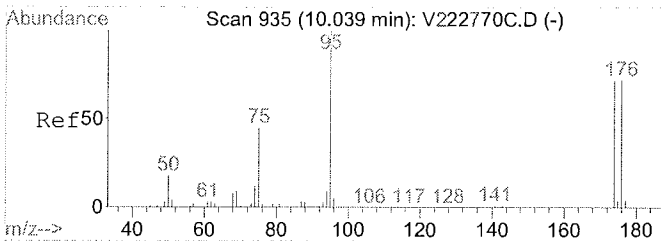
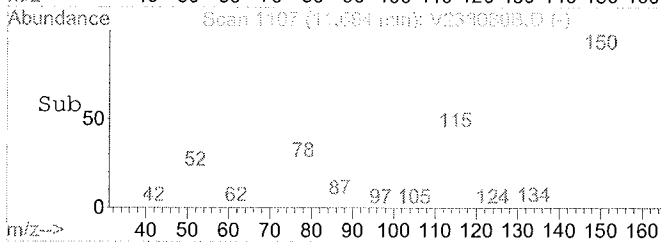
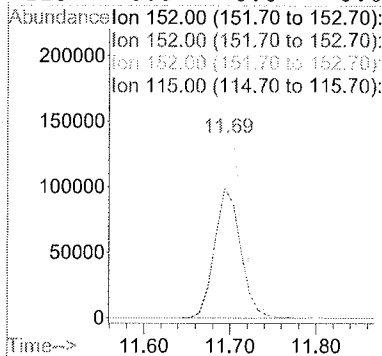




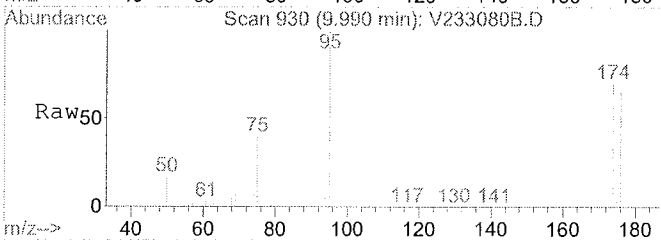
#64
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.69 min Scan# 1107
Delta R.T. -0.00 min
Lab File: V233080B.D
Acq: 3 Nov 2013 12:47 pm



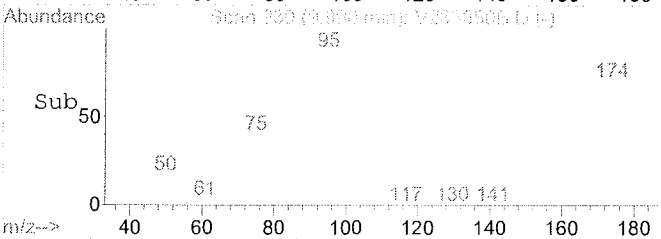
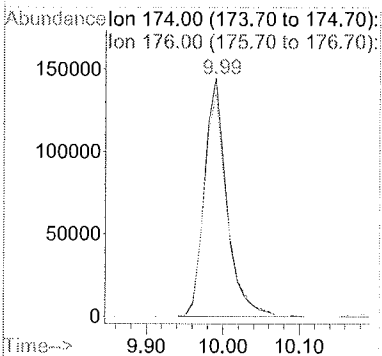
Tgt Ion:152 Resp: 299782
Ion Ratio Lower Upper
152 100
152 100.0 80.0 120.0
152 100.0 80.0 120.0
115 0.0 0.0 0.0

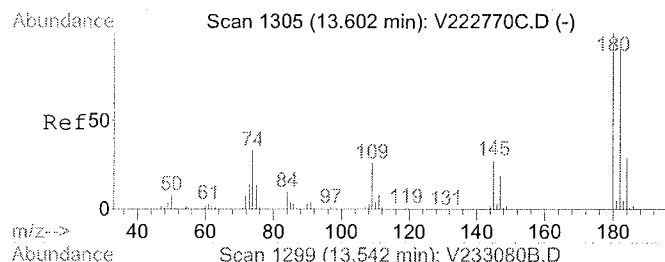


#66
p-Bromofluorobenzene (SURR)
Concen: N.D. ppb
RT: 9.99 min Scan# 930
Delta R.T. 0.01 min
Lab File: V233080B.D
Acq: 3 Nov 2013 12:47 pm



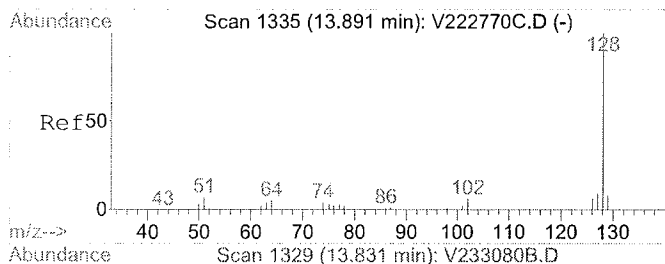
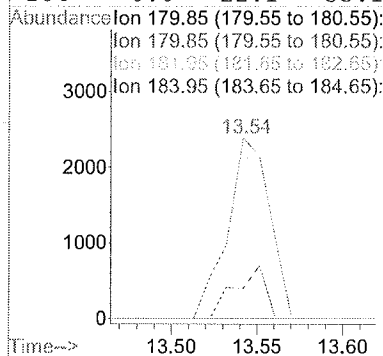
Tgt Ion:174 Resp: 294371
Ion Ratio Lower Upper
174 100
176 93.3 75.0 112.4





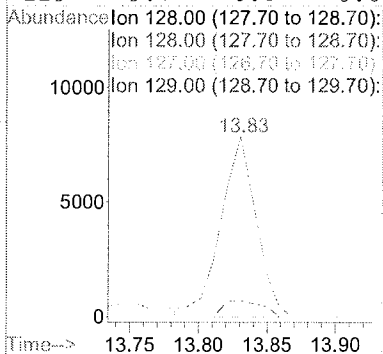
#86
1,2,4-Trichlorobenzene
Concen: 0.81 ppb
RT: 13.54 min Scan# 1299
Delta R.T. -0.00 min
Lab File: V233080B.D
Acq: 3 Nov 2013 12:47 pm

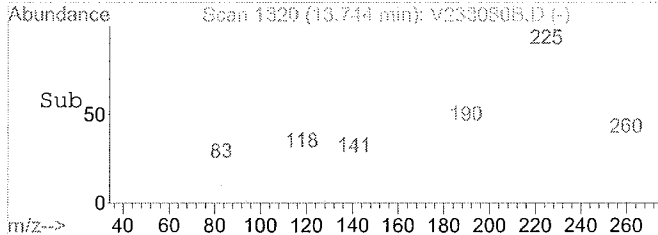
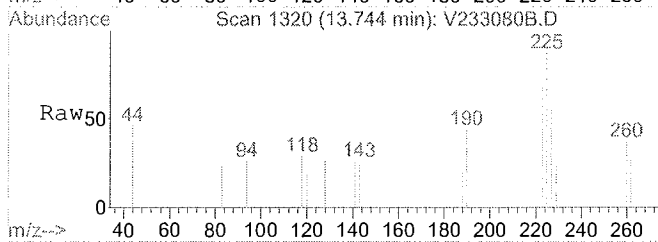
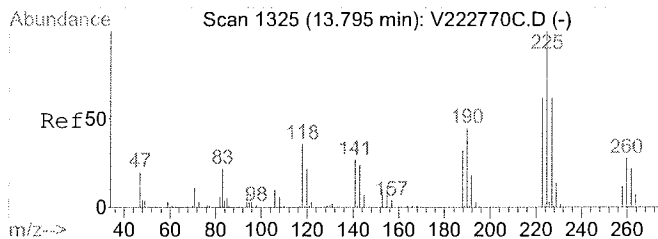
Tgt Ion:180 Resp: 4077
Ion Ratio Lower Upper
180 100
180 100.0 80.0 120.0
182 0.0 74.7 112.1#
184 0.0 22.1 33.1#



#87
Naphthalene
Concen: 1.38 ppb
RT: 13.83 min Scan# 1329
Delta R.T. 0.01 min
Lab File: V233080B.D
Acq: 3 Nov 2013 12:47 pm

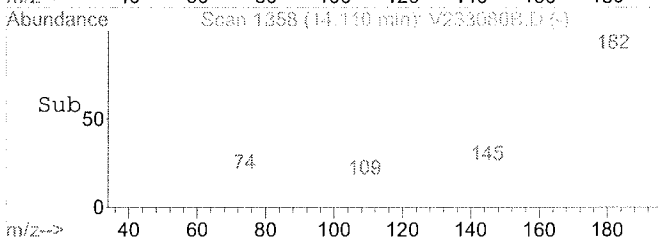
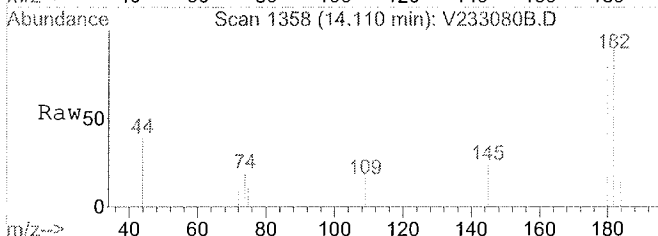
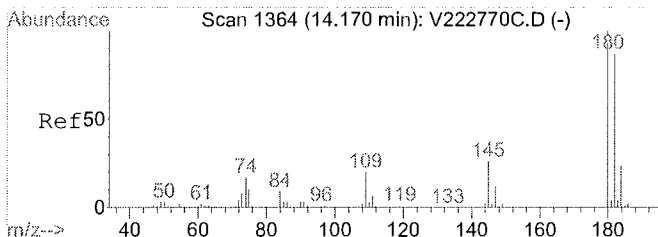
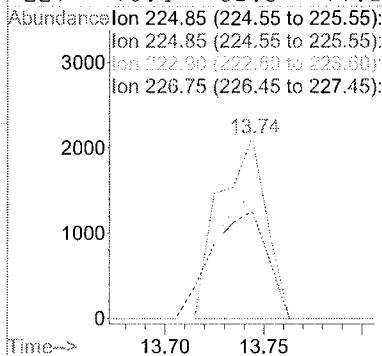
Tgt Ion:128 Resp: 14123
Ion Ratio Lower Upper
128 100
128 100.0 80.0 120.0
127 0.0 0.0 0.0
129 9.7 0.0 0.0#





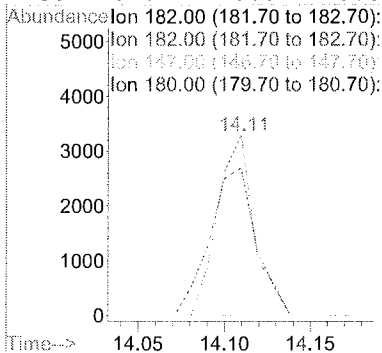
#88
Hexachloro-1,3-Butadiene
Concen: 1.25 ppb
RT: 13.74 min Scan# 1320
Delta R.T. 0.01 min
Lab File: V233080B.D
Acq: 3 Nov 2013 12:47 pm

Tgt Ion: 225 Resp: 3489
Ion Ratio Lower Upper
225 100
225 100.0 80.0 120.0
223 0.0 0.0 0.0
227 70.4 51.5 77.3



#89
1,2,3-Trichlorobenzene
Concen: 1.19 ppb
RT: 14.11 min Scan# 1358
Delta R.T. 0.01 min
Lab File: V233080B.D
Acq: 3 Nov 2013 12:47 pm

Tgt Ion: 182 Resp: 4855
Ion Ratio Lower Upper
182 100
182 100.0 80.0 120.0
147 5.2 0.0 0.0#
180 103.2 0.0 0.0#



FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BK30233-BLK1 File ID: V233177B.D
 Prepared: 11/06/13 07:02 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Analyzed: 11/06/13 09:32 Instrument: MS VOA 2
 Batch: BK30233 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethylene	5.0	U
563-58-6	1,1-Dichloropropylene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	5.0	U
108-86-1	Bromobenzene	5.0	U
74-97-5	Bromochloromethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BK30233-BLK1 File ID: V233177B.D
 Prepared: 11/06/13 07:02 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
 Analyzed: 11/06/13 09:32 Instrument: MS VOA 2
 Batch: BK30233 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
156-59-2	cis-1,2-Dichloroethylene	5.0	U
10061-01-5	cis-1,3-Dichloropropylene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
100-41-4	Ethyl Benzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
98-82-8	Isopropylbenzene	5.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	5.0	U
75-09-2	Methylene chloride	5.0	U
91-20-3	Naphthalene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	p- & m- Xylenes	10	U
99-87-6	p-Isopropyltoluene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
100-42-5	Styrene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
127-18-4	Tetrachloroethylene	5.0	U
108-88-3	Toluene	5.0	U
156-60-5	trans-1,2-Dichloroethylene	5.0	U
10061-02-6	trans-1,3-Dichloropropylene	5.0	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Matrix: Water Laboratory ID: BK30233-BLK1 File ID: V233177B.D
Prepared: 11/06/13 07:02 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL
Analyzed: 11/06/13 09:32 Instrument: MS VOA 2
Batch: BK30233 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
79-01-6	Trichloroethylene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
1330-20-7	Xylenes, Total	15	U
108-05-4	Vinyl acetate	5.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	50.0	48.7	97.4	78 - 122	
p-Bromofluorobenzene	50.0	50.5	101	87 - 112	
Toluene-d8	50.0	48.2	96.5	91 - 110	

Data File : G:\MSVOA2 V2\AILYDAT\V2110613\V233177B.D Vial: 4
 Acq On : 6 Nov 2013 9:32 am Operator: SS
 Sample : BK30233-BLK1 Inst : MS VOA 2
 Misc : QBV2110613A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 6 12:08 2013 Quant Results File: V2C00349.RES

Quant Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE (ISTD)	5.70	70	352034	50.00	ppb	-0.04
35) CHLOROBENZENE-d5 (ISTD)	8.69	117	1020064	50.00	ppb	-0.04
64) 1,2-DICHLOROBENZENE-d4 (IST)	11.66	152	304317	50.00	ppb	-0.04

System Monitoring Compounds

31) d4-1,2-Dichloroethane (SURR)	5.39	65	288904	48.68	ppb	-0.04
Spiked Amount	50.000	Range	67 - 128	Recovery	=	97.36%
47) Toluene-d8 (SURR)	7.21	98	1389526	48.25	ppb	-0.04
Spiked Amount	50.000	Range	87 - 113	Recovery	=	96.50%
66) p-Bromofluorobenzene (SURR)	9.95	174	295996	50.51	ppb	-0.04
Spiked Amount	50.000	Range	63 - 166	Recovery	=	101.02%

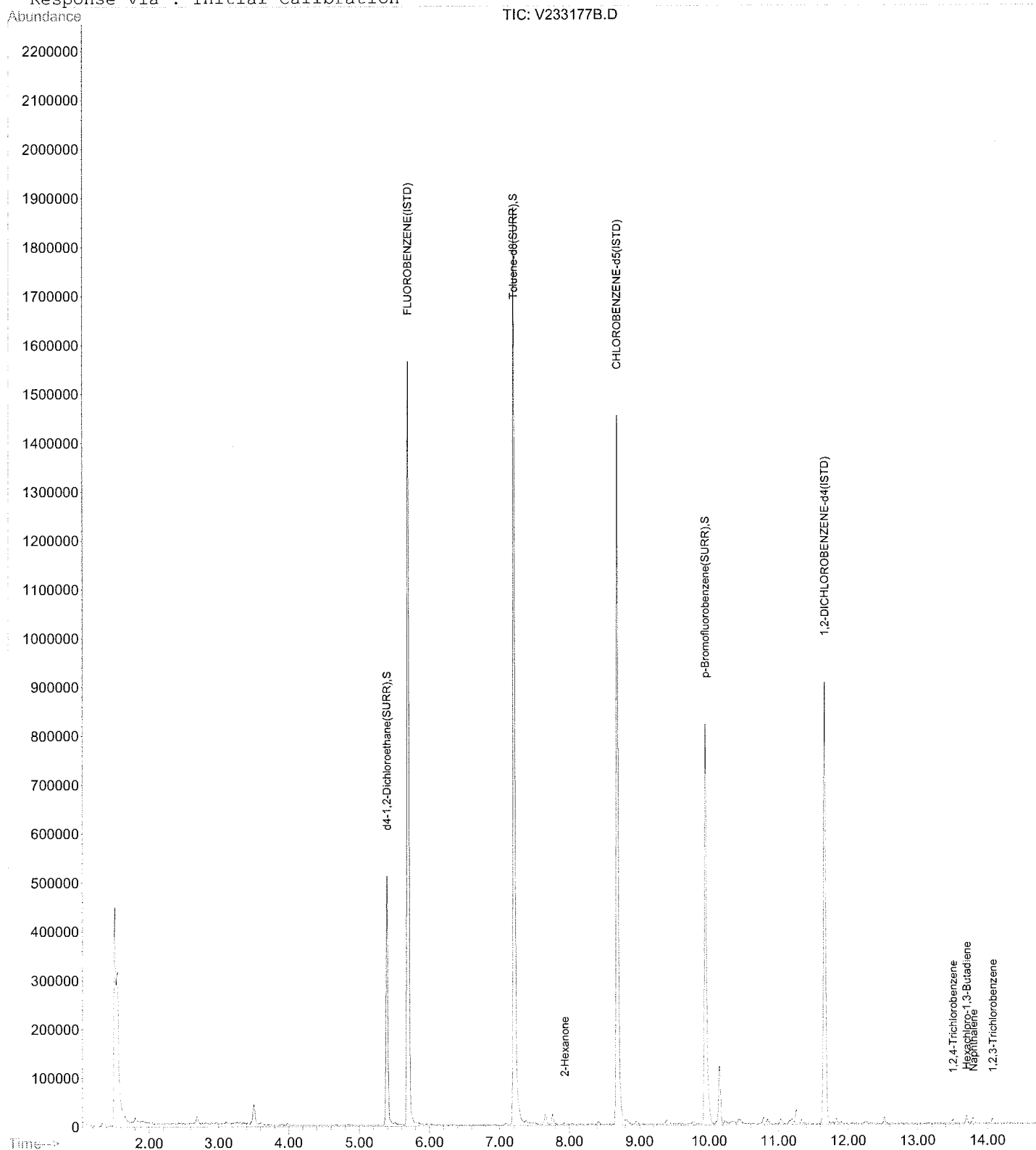
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
46) 2-Hexanone	7.93	43	5499	0.98	ppb	# 90
86) 1,2,4-Trichlorobenzene	13.51	180	4227	0.83	ppb	# 96
87) Naphthalene	13.80	128	12635	1.22	ppb	# 100
88) Hexachloro-1,3-Butadiene	13.71	225	4145	1.46	ppb	# 68
89) 1,2,3-Trichlorobenzene	14.07	182	4041	0.98	ppb	# 100

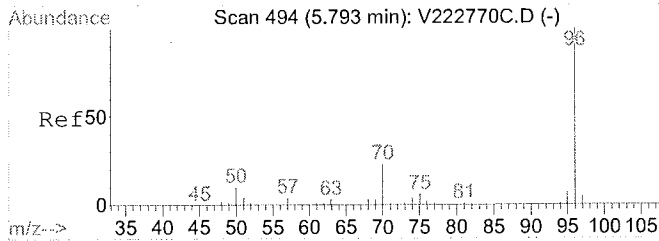
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\MSVOA2 V2\AILYDAT\V2110613\V233177B.D Vial: 4
 Acq On : 6 Nov 2013 9:32 am Operator: SS
 Sample : BK30233-BLK1 Inst : MS VOA 2
 Misc : QBV2110613A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 6 12:08 2013 Quant Results File: V2C00349.RES

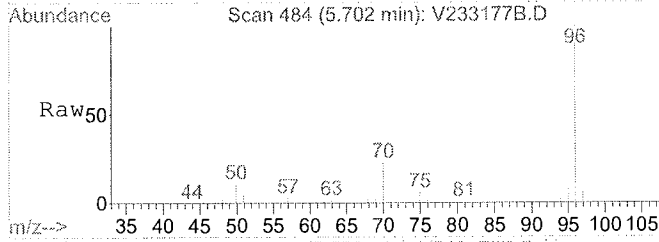
Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration





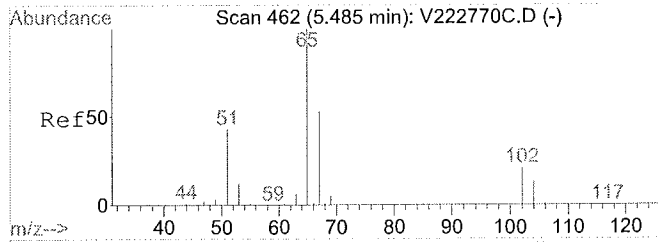
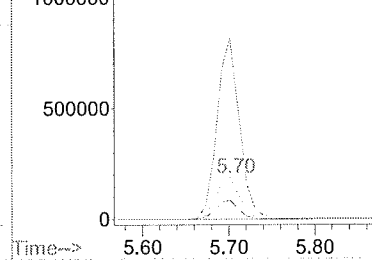
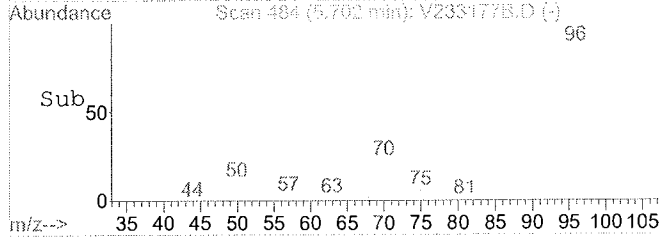
#1
 FLUOROBENZENE (ISTD)
 Concen: 50.00 ppb
 RT: 5.70 min Scan# 484
 Delta R.T. -0.04 min
 Lab File: V233177B.D
 Acq: 6 Nov 2013 9:32 am

Tgt Ion: 70 Resp: 352034
 Ion Ratio Lower Upper
 70 100
 96 424.1 359.2 538.8
 70 100.0 80.0 120.0
 50 0.0 0.0 0.0



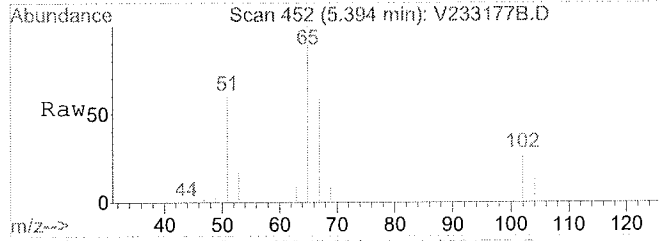
Abundance

Ion 70.00 (69.70 to 70.70): V2
 Ion 96.00 (95.70 to 96.70): V2
 Ion 70.00 (69.70 to 70.70): V2
 Ion 50.00 (49.70 to 50.70): V2



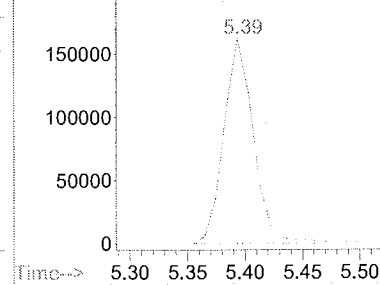
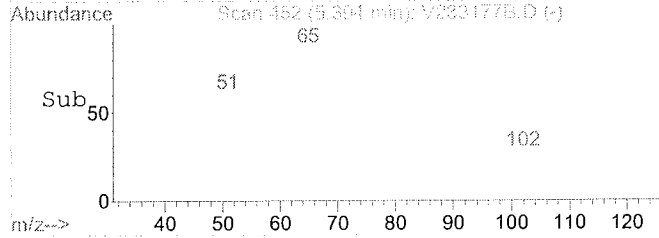
#31
 d4-1,2-Dichloroethane (SURR)
 Concen: N.D. ppb
 RT: 5.39 min Scan# 452
 Delta R.T. -0.04 min
 Lab File: V233177B.D
 Acq: 6 Nov 2013 9:32 am

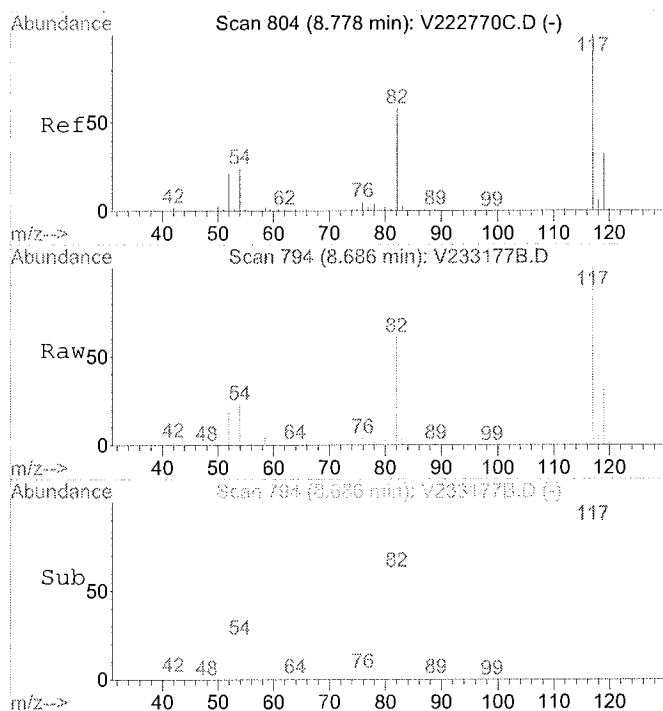
Tgt Ion: 65 Resp: 288904
 Ion Ratio Lower Upper
 65 100
 65 100.0 80.0 120.0
 102 28.6 24.2 36.4



Abundance

Ion 65.00 (64.70 to 65.70): V2
 Ion 65.00 (64.70 to 65.70): V2
 Ion 102.00 (101.70 to 102.70): V2

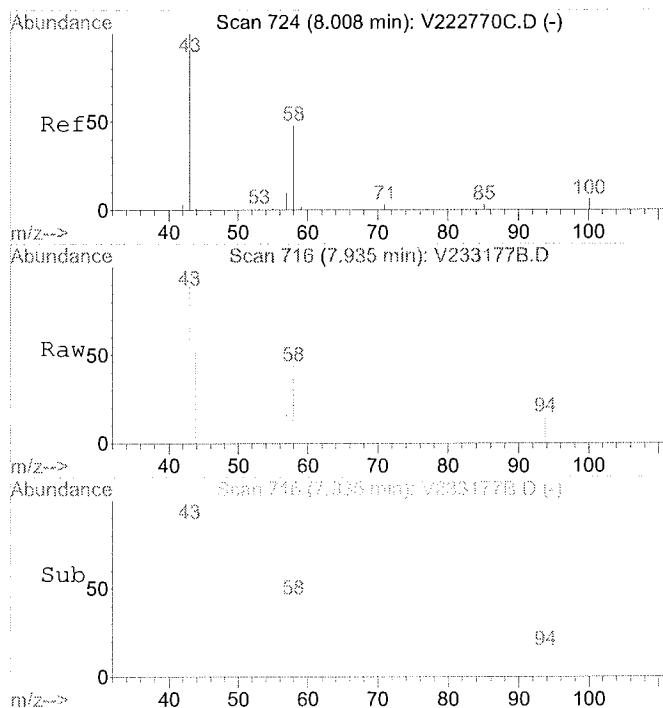
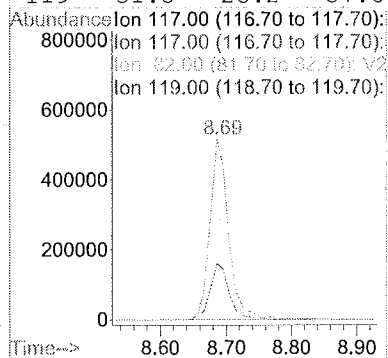




#35
 CHLOROBENZENE-d5 (ISTD)
 Concen: 50.00 ppb
 RT: 8.69 min Scan# 794
 Delta R.T. -0.04 min
 Lab File: V233177B.D
 Acq: 6 Nov 2013 9:32 am

Tgt Ion: 117 Resp: 1020064

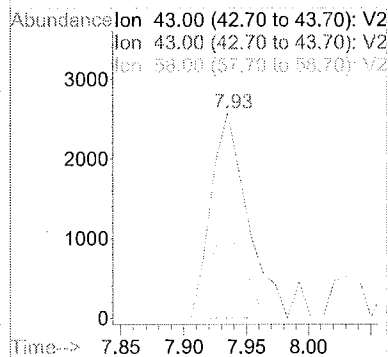
Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
82	0.0	0.0	0.0
119	31.5	25.2	37.8

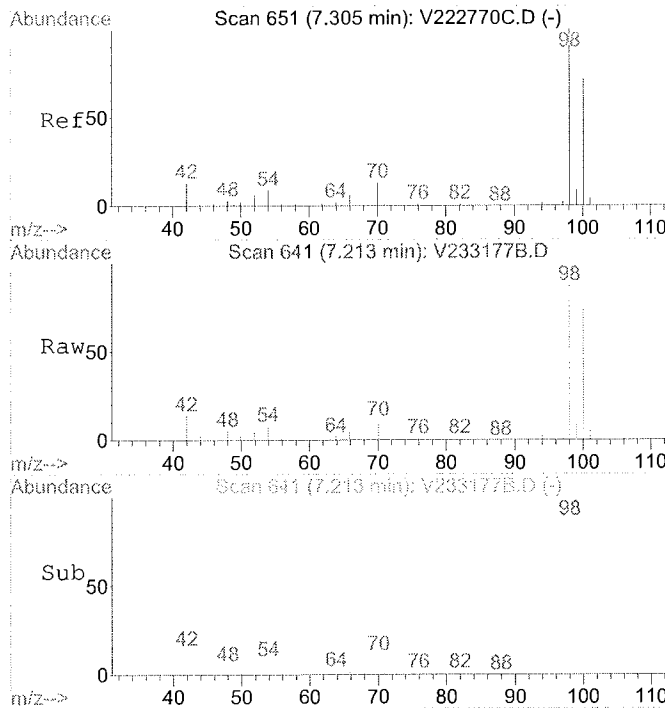


#46
 2-Hexanone
 Concen: 0.98 ppb
 RT: 7.93 min Scan# 716
 Delta R.T. -0.03 min
 Lab File: V233177B.D
 Acq: 6 Nov 2013 9:32 am

Tgt Ion: 43 Resp: 5499

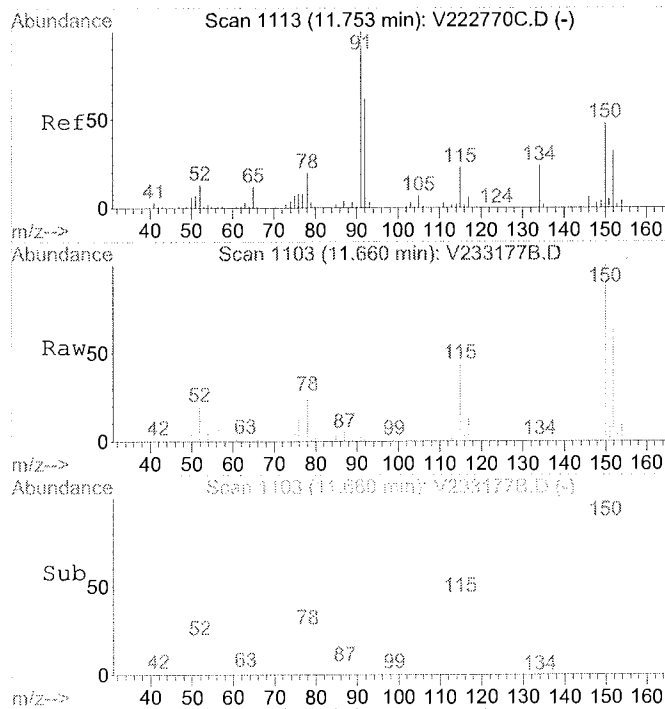
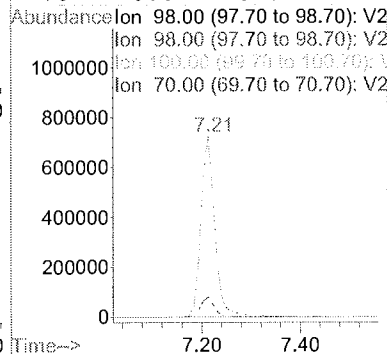
Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	37.8	46.1	69.1#





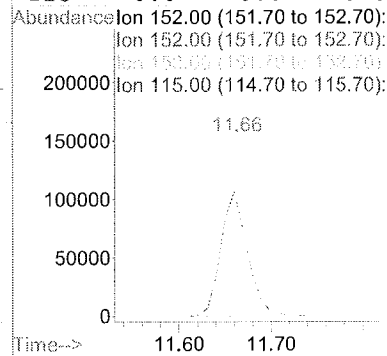
#47
Toluene-d8 (SURR)
Concen: 0.98 ppb
RT: 7.21 min Scan# 641
Delta R.T. -0.04 min
Lab File: V233177B.D
Acq: 6 Nov 2013 9:32 am

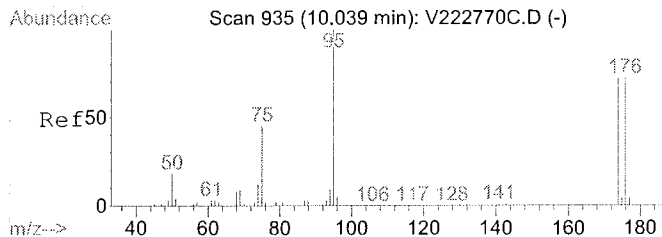
Tgt Ion: 98 Resp: 1389526
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 72.2 57.3 85.9
70 0.0 0.0 0.0



#64
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.66 min Scan# 1103
Delta R.T. -0.04 min
Lab File: V233177B.D
Acq: 6 Nov 2013 9:32 am

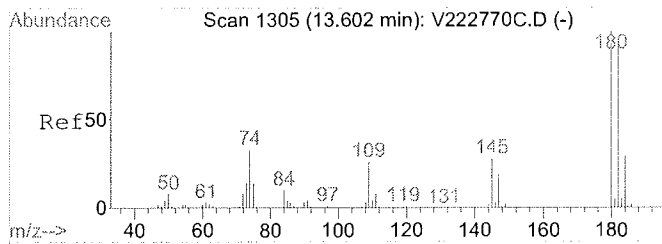
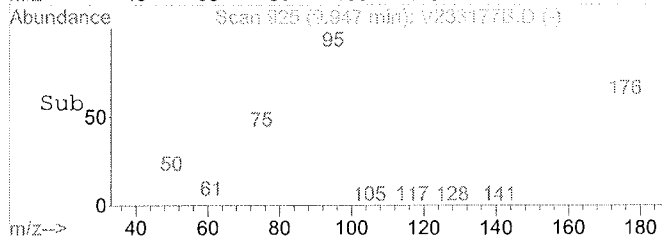
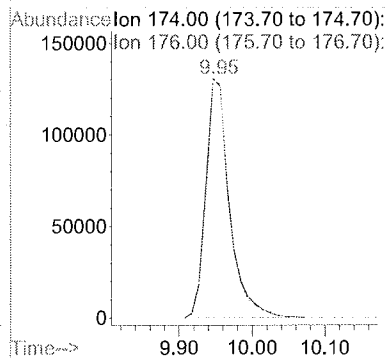
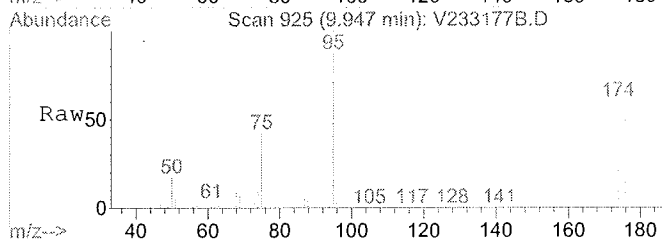
Tgt Ion: 152 Resp: 304317
Ion Ratio Lower Upper
152 100
152 100.0 80.0 120.0
152 100.0 80.0 120.0
115 0.0 0.0 0.0





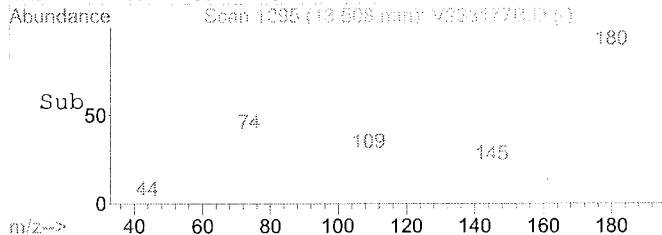
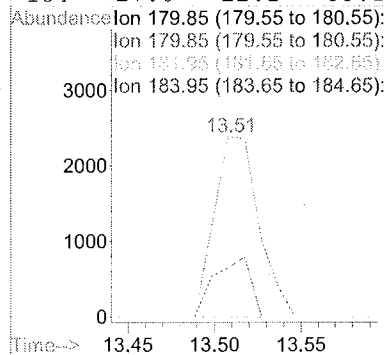
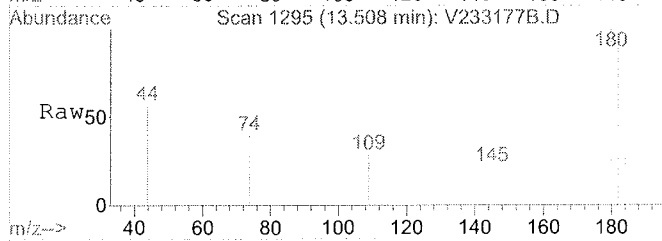
#66
p-Bromofluorobenzene (SURR)
Concen: N.D. ppb
RT: 9.95 min Scan# 925
Delta R.T. -0.04 min
Lab File: V233177B.D
Acq: 6 Nov 2013 9:32 am

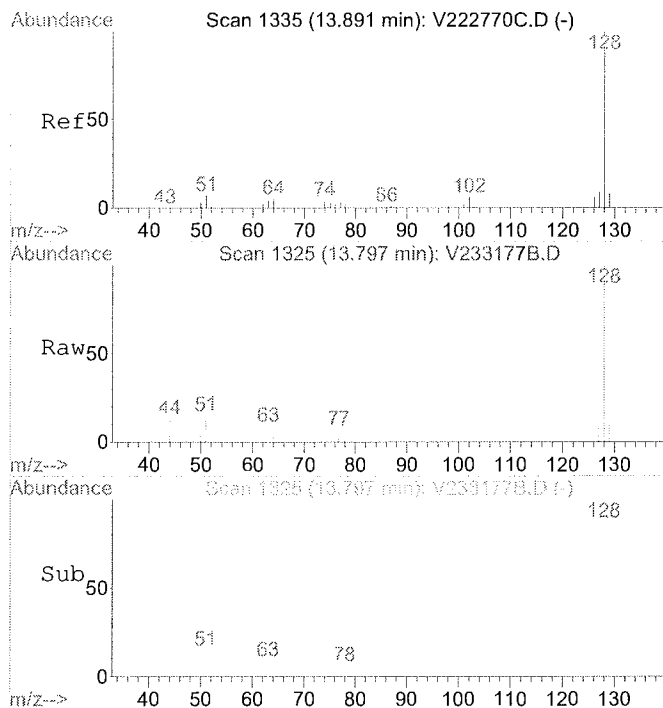
Tgt Ion:174 Resp: 295996
Ion Ratio Lower Upper
174 100
176 99.5 75.0 112.4



#86
1,2,4-Trichlorobenzene
Concen: 0.83 ppb
RT: 13.51 min Scan# 1295
Delta R.T. -0.04 min
Lab File: V233177B.D
Acq: 6 Nov 2013 9:32 am

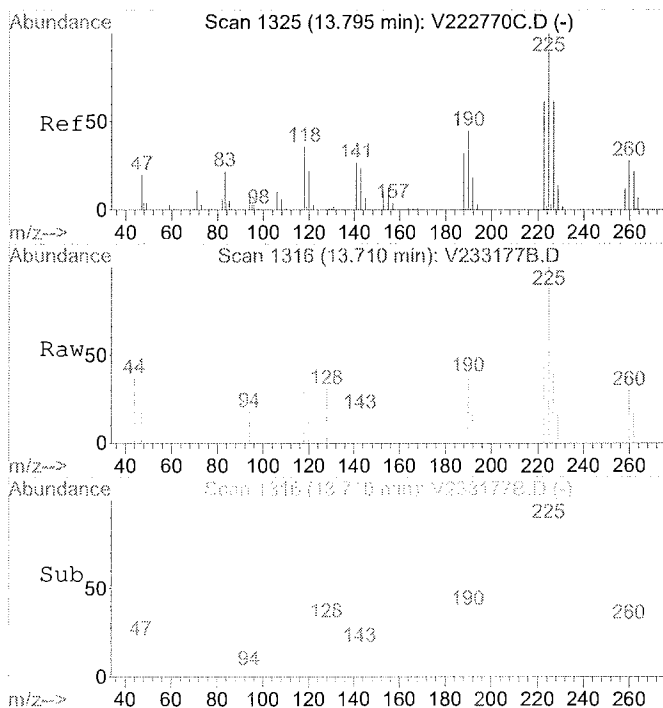
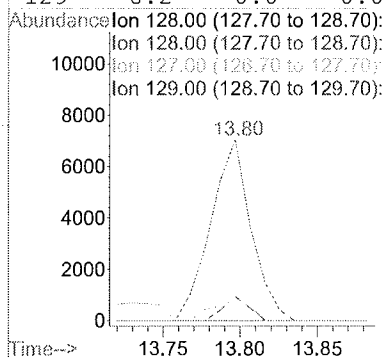
Tgt Ion:180 Resp: 4227
Ion Ratio Lower Upper
180 100
180 100.0 80.0 120.0
182 85.5 74.7 112.1
184 27.0 22.1 33.1





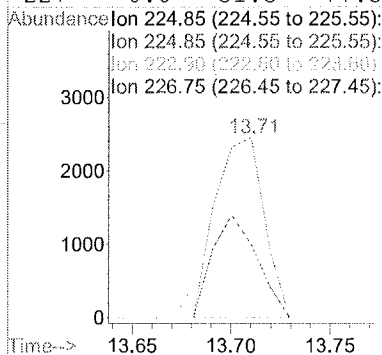
#87
Naphthalene
Concen: 1.22 ppb
RT: 13.80 min Scan# 1325
Delta R.T. -0.03 min
Lab File: V233177B.D
Acq: 6 Nov 2013 9:32 am

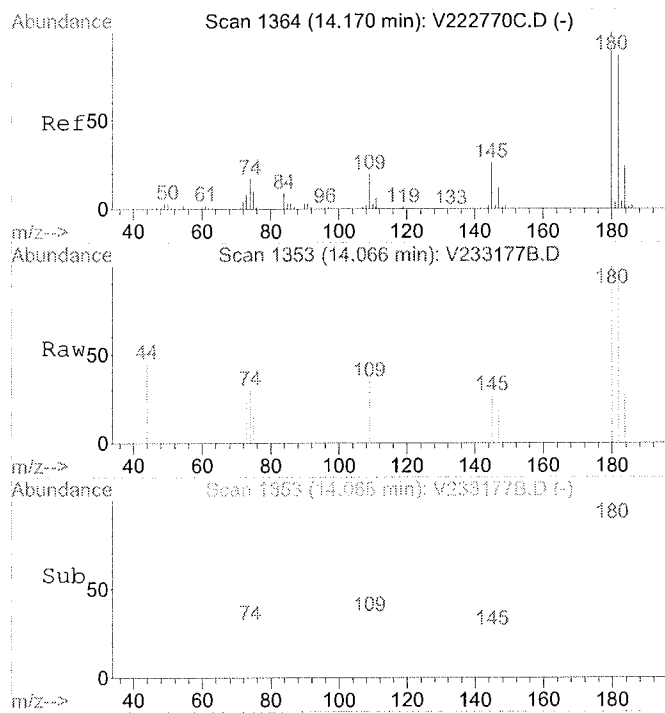
Tgt Ion:128 Resp: 12635
Ion Ratio Lower Upper
128 100
128 100.0 80.0 120.0
127 9.7 0.0 0.0#
129 8.2 0.0 0.0#



#88
Hexachloro-1,3-Butadiene
Concen: 1.46 ppb
RT: 13.71 min Scan# 1316
Delta R.T. -0.03 min
Lab File: V233177B.D
Acq: 6 Nov 2013 9:32 am

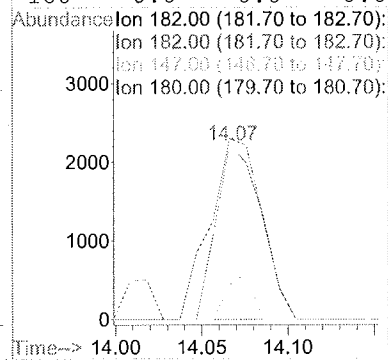
Tgt Ion:225 Resp: 4145
Ion Ratio Lower Upper
225 100
225 100.0 80.0 120.0
223 0.0 0.0 0.0
227 0.0 51.5 77.3#





#89
 1,2,3-Trichlorobenzene
 Concen: 0.98 ppb
 RT: 14.07 min Scan# 1353
 Delta R.T. -0.04 min
 Lab File: V233177B.D
 Acq: 6 Nov 2013 9:32 am

Tgt Ion:182 Resp: 4041
 Ion Ratio Lower Upper
 182 100
 182 100.0 80.0 120.0
 147 14.6 0.0 0.0#
 180 0.0 0.0 0.0



FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30107Laboratory ID: BK30107-BS1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	53	107	90 - 116
1,1,1-Trichloroethane	50.0	47	94.6	83 - 125
1,1,2,2-Tetrachloroethane	50.0	54	109	84 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	50	100	66 - 141
1,1,2-Trichloroethane	50.0	55	111	83 - 116
1,1-Dichloroethane	50.0	51	102	82 - 121
1,1-Dichloroethylene	50.0	44	89.0	59 - 135
1,1-Dichloropropylene	50.0	47	93.4	81 - 112
1,2,3-Trichlorobenzene	50.0	50	101	74 - 132
1,2,3-Trichloropropane	50.0	54	108	83 - 118
1,2,4-Trichlorobenzene	50.0	50	99.7	72 - 133
1,2,4-Trimethylbenzene	50.0	49	98.9	82 - 119
1,2-Dibromo-3-chloropropane	50.0	55	111	69 - 134
1,2-Dibromoethane	50.0	55	110	85 - 118
1,2-Dichlorobenzene	50.0	49	98.6	87 - 116
1,2-Dichloroethane	50.0	51	103	79 - 125
1,2-Dichloropropane	50.0	57	114	82 - 119
1,3,5-Trimethylbenzene	50.0	52	104	84 - 120
1,3-Dichlorobenzene	50.0	50	100	85 - 116
1,3-Dichloropropane	50.0	56	112	86 - 114
1,4-Dichlorobenzene	50.0	51	102	84 - 116
2,2-Dichloropropane	50.0	48	95.4	56 - 138
2-Butanone	50.0	49	98.8	59 - 127
2-Chlorotoluene	50.0	49	98.3	82 - 117
4-Chlorotoluene	50.0	52	104	84 - 118
Acetone	50.0	27	54.9	30 - 112
Benzene	50.0	51	102	88 - 113
Bromobenzene	50.0	53	107	85 - 117
Bromochloromethane	50.0	54	108	80 - 120
Bromodichloromethane	50.0	53	107	87 - 122

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30107Laboratory ID: BK30107-BS1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Bromoform	50.0	52	104	83 - 127
Bromomethane	50.0	30	59.2	36 - 135
Carbon tetrachloride	50.0	48	95.7	82 - 128
Chlorobenzene	50.0	50	100	90 - 111
Chloroethane	50.0	37	74.6	60 - 132
Chloroform	50.0	49	98.4	89 - 116
Chloromethane	50.0	27	53.5	39 - 131
cis-1,2-Dichloroethylene	50.0	50	99.3	90 - 112
cis-1,3-Dichloropropylene	50.0	58	116	89 - 124
Dibromochloromethane	50.0	51	102	82 - 132
Dibromomethane	50.0	56	111	83 - 124
Dichlorodifluoromethane	50.0	11	21.9	10 - 143
Ethyl Benzene	50.0	54	107	91 - 117
Hexachlorobutadiene	50.0	50	101	83 - 129
Isopropylbenzene	50.0	52	103	82 - 122
Methyl tert-butyl ether (MTBE)	50.0	51	103	59 - 135
Methylene chloride	50.0	44	87.4	51 - 136
Naphthalene	50.0	50	101	61 - 147
n-Butylbenzene	50.0	49	97.5	79 - 122
n-Propylbenzene	50.0	54	109	80 - 123
o-Xylene	50.0	56	113 *	91 - 110
p- & m- Xylenes	100	110	108	86 - 118
p-Isopropyltoluene	50.0	51	102	83 - 125
sec-Butylbenzene	50.0	52	105	82 - 127
Styrene	50.0	64	127 *	88 - 121
tert-Butylbenzene	50.0	50	99.7	70 - 130
Tetrachloroethylene	50.0	52	104	67 - 138
Toluene	50.0	55	109	88 - 113
trans-1,2-Dichloroethylene	50.0	52	103	73 - 123
trans-1,3-Dichloropropylene	50.0	55	110	85 - 123

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Matrix: Water
Batch: BK30107 Laboratory ID: BK30107-BS1
Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Trichloroethylene	50.0	53	105	83 - 120
Trichlorofluoromethane	50.0	37	74.7	62 - 138
Vinyl Chloride	50.0	31	63.0	49 - 127
Vinyl acetate	50.0	14	27.2	21 - 90

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30107Laboratory ID: BK30107-BSD1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	50.0	50	100	6.42	30	90 - 116
1,1,1-Trichloroethane	50.0	48	95.9	1.45	30	83 - 125
1,1,2,2-Tetrachloroethane	50.0	53	107	1.84	30	84 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50	99.1	1.36	30	66 - 141
1,1,2-Trichloroethane	50.0	51	103	7.62	30	83 - 116
1,1-Dichloroethane	50.0	50	101	1.46	30	82 - 121
1,1-Dichloroethylene	50.0	44	88.8	0.157	30	59 - 135
1,1-Dichloropropylene	50.0	46	92.2	1.27	30	81 - 112
1,2,3-Trichlorobenzene	50.0	49	97.6	3.11	30	74 - 132
1,2,3-Trichloropropane	50.0	52	104	3.33	30	83 - 118
1,2,4-Trichlorobenzene	50.0	49	98.5	1.19	30	72 - 133
1,2,4-Trimethylbenzene	50.0	50	100	1.15	30	82 - 119
1,2-Dibromo-3-chloropropane	50.0	57	114	3.31	30	69 - 134
1,2-Dibromoethane	50.0	50	101	8.34	30	85 - 118
1,2-Dichlorobenzene	50.0	50	100	1.71	30	87 - 116
1,2-Dichloroethane	50.0	46	92.6	10.6	30	79 - 125
1,2-Dichloropropane	50.0	55	109	3.95	30	82 - 119
1,3,5-Trimethylbenzene	50.0	50	99.1	4.69	30	84 - 120
1,3-Dichlorobenzene	50.0	52	105	4.78	30	85 - 116
1,3-Dichloropropane	50.0	51	102	9.44	30	86 - 114
1,4-Dichlorobenzene	50.0	51	101	0.158	30	84 - 116
2,2-Dichloropropane	50.0	48	96.2	0.752	30	56 - 138
2-Butanone	50.0	49	97.9	0.834	30	59 - 127
2-Chlorotoluene	50.0	51	103	4.24	30	82 - 117
4-Chlorotoluene	50.0	51	103	1.43	30	84 - 118
Acetone	50.0	28	55.4	0.906	30	30 - 112
Benzene	50.0	46	92.2	10.5	30	88 - 113
Bromobenzene	50.0	53	105	1.51	30	85 - 117
Bromochloromethane	50.0	56	112	3.22	30	80 - 120
Bromodichloromethane	50.0	52	104	2.54	30	87 - 122

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30107Laboratory ID: BK30107-BSD1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Bromoform	50.0	49	98.1	5.61	30	83 - 127
Bromomethane	50.0	30	59.1	0.203	30	36 - 135
Carbon tetrachloride	50.0	46	91.4	4.62	30	82 - 128
Chlorobenzene	50.0	51	103	2.25	30	90 - 111
Chloroethane	50.0	39	78.4	4.92	30	60 - 132
Chloroform	50.0	51	102	3.44	30	89 - 116
Chloromethane	50.0	28	55.4	3.41	30	39 - 131
cis-1,2-Dichloroethylene	50.0	49	98.2	1.15	30	90 - 112
cis-1,3-Dichloropropylene	50.0	55	110	5.03	30	89 - 124
Dibromochloromethane	50.0	49	98.6	3.19	30	82 - 132
Dibromomethane	50.0	55	111	0.306	30	83 - 124
Dichlorodifluoromethane	50.0	11	22.2	0.998	30	10 - 143
Ethyl Benzene	50.0	51	102	5.08	30	91 - 117
Hexachlorobutadiene	50.0	52	104	3.86	30	83 - 129
Isopropylbenzene	50.0	51	102	1.11	30	82 - 122
Methyl tert-butyl ether (MTBE)	50.0	49	97.0	5.51	30	59 - 135
Methylene chloride	50.0	43	86.8	0.666	30	51 - 136
Naphthalene	50.0	54	108	6.76	30	61 - 147
n-Butylbenzene	50.0	46	92.8	4.92	30	79 - 122
n-Propylbenzene	50.0	53	105	2.95	30	80 - 123
o-Xylene	50.0	53	107	5.23	30	91 - 110
p- & m- Xylenes	100	99	99.4	8.48	30	86 - 118
p-Isopropyltoluene	50.0	56	111	9.16	30	83 - 125
sec-Butylbenzene	50.0	56	111	5.65	30	82 - 127
Styrene	50.0	59	119	6.84	30	88 - 121
tert-Butylbenzene	50.0	51	101	1.73	30	70 - 130
Tetrachloroethylene	50.0	49	98.6	4.99	30	67 - 138
Toluene	50.0	50	100	8.83	30	88 - 113
trans-1,2-Dichloroethylene	50.0	49	98.6	4.74	30	73 - 123
trans-1,3-Dichloropropylene	50.0	52	105	5.25	30	85 - 123

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Matrix: Water
Batch: BK30107 Laboratory ID: BK30107-BSD1
Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Trichloroethylene	50.0	52	103	2.13	30	83 - 120
Trichlorofluoromethane	50.0	38	76.2	1.94	30	62 - 138
Vinyl Chloride	50.0	32	63.5	0.854	30	49 - 127
Vinyl acetate	50.0	13	26.1	4.21	30	21 - 90

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Data File : G:\MSVOA2 V2\DAI\DAT\2110313\233078L.D Vial: 5
 Acq On : 3 Nov 2013 11:36 am Operator: SS
 Sample : BK30107-BS1 Inst : MS VOA 2
 Misc : QBV2110313A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:22 2013 Quant Results File: V2C00349.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) FLUOROBENZENE (ISTD)	5.74	70	389893	50.00	ppb	0.00
35) CHLOROBENZENE-d5 (ISTD)	8.72	117	986469	50.00	ppb	0.00
64) 1,2-DICHLOROBENZENE-d4 (ISTD)	11.70	152	322790	50.00	ppb	0.00

System Monitoring Compounds

31) d4-1,2-Dichloroethane (SURR)	5.43	65	304540	46.33	ppb	0.00
Spiked Amount	50.000	Range	67 - 128	Recovery	=	92.66%
47) Toluene-d8 (SURR)	7.25	98	1477943	53.07	ppb	0.00
Spiked Amount	50.000	Range	87 - 113	Recovery	=	106.14%
66) p-Bromofluorobenzene (SURR)	9.99	174	307227	49.42	ppb	0.01
Spiked Amount	50.000	Range	63 - 166	Recovery	=	98.84%

Target Compounds

Qvalue

2) Dichlorodifluoromethane	1.70	85	97880m	10.97	ppb	
3) Chloromethane	1.87	50	460794	26.77	ppb	100
4) Vinyl Chloride	1.97	62	421268	31.49	ppb	100
5) Bromomethane	2.28	94	178422	29.62	ppb	99
6) Chloroethane	2.38	64	251999	37.30	ppb	100
7) Trichlorofluoromethane	2.62	101	352784	37.36	ppb	100
8) Ethyl Ether	2.89	59	285729	49.72	ppb	97
9) Freon-113	3.09	101	349906	50.21	ppb	97
10) 1,1-Dichloroethylene	3.10	61	515280	44.49	ppb	99
11) Acrolein	3.01	56	39492	43.49	ppb	92
12) Iodomethane	3.25	142	355689	42.82	ppb	100
13) Methyl Acetate	3.45	43	337951	84.59	ppb	100
14) tert Butyl Alcohol (TBA)	3.64	59	598133	1211.43	ppb	# 100
15) Acrylonitrile	3.77	53	145889	58.49	ppb	# 100
16) trans-1,2-Dichloroethylene	3.79	61	744044	51.67	ppb	98
17) Carbon Disulfide	3.31	76	2462068	87.28	ppb	100
18) Methylene Chloride	3.54	49	502596	43.69	ppb	99
19) tert-Butyl Methyl Ether (M)	3.79	73	1042103	51.26	ppb	# 100
20) Acetone	3.15	43	57681	27.46	ppb	99
21) 1,1-Dichloroethane	4.16	63	1031989	51.12	ppb	100
22) Vinyl Acetate	4.20	43	236362	13.59	ppb	100
23) cis-1,2-Dichloroethylene	4.69	96	542788	49.65	ppb	# 100
24) 2-Butanone	4.70	43	202776	49.38	ppb	100
25) 2,2-Dichloropropane	4.69	77	608266	47.72	ppb	100
26) Bromochloromethane	4.90	49	503177	54.13	ppb	97
27) Chloroform	4.97	83	755673	49.21	ppb	99
28) 1,1,1-Trichloroethane	5.14	97	550694	47.28	ppb	99
29) Cyclohexane	5.20	56	1124944	53.27	ppb	99
30) 1,1-Dichloropropylene	5.30	75	655915	46.70	ppb	100
32) Carbon Tetrachloride	5.30	117	447650	47.85	ppb	100
33) 1,2-Dichloroethane	5.50	62	429529	51.48	ppb	100
34) Benzene	5.49	78	2124878	51.22	ppb	100
36) Tetrahydrofuran	4.96	42	117882	56.51	ppb	96
37) Trichloroethylene	6.08	95	449070	52.73	ppb	99
38) Methyl Cyclohexane	6.27	83	929729	56.69	ppb	# 75
39) Methyl Methacrylate	6.39	69	291910	58.69	ppb	# 99
40) Dibromomethane	6.41	93	232125	55.58	ppb	98
41) Bromodichloromethane	6.55	83	529848	53.35	ppb	99
42) 1,2-Dichloropropane	6.30	63	573755	56.79	ppb	99
43) 1,4-Dioxane	6.42	88	36440	638.45	ppb	97
45) cis-1,3-Dichloropropene	6.98	75	805501	58.03	ppb	100
46) 2-Hexanone	7.96	43	321720	58.99	ppb	99
48) Toluene	7.32	91	1874312	54.61	ppb	100
49) trans-1,3-Dichloropropene	7.53	75	571138	55.09	ppb	99
50) 1,1,2-Trichloroethane	7.71	83	289305	55.43	ppb	99

(#) = qualifier out of range (m) = manual integration

Data File : G:\MSVOA2 V2\AILYDAT\V2110313\V233078L.D Vial: 5
 Acq On : 3 Nov 2013 11:36 am Operator: SS
 Sample : BK30107-BS1 Inst : MS VOA 2
 Misc : QBV2110313A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:22 2013 Quant Results File: V2C00349.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

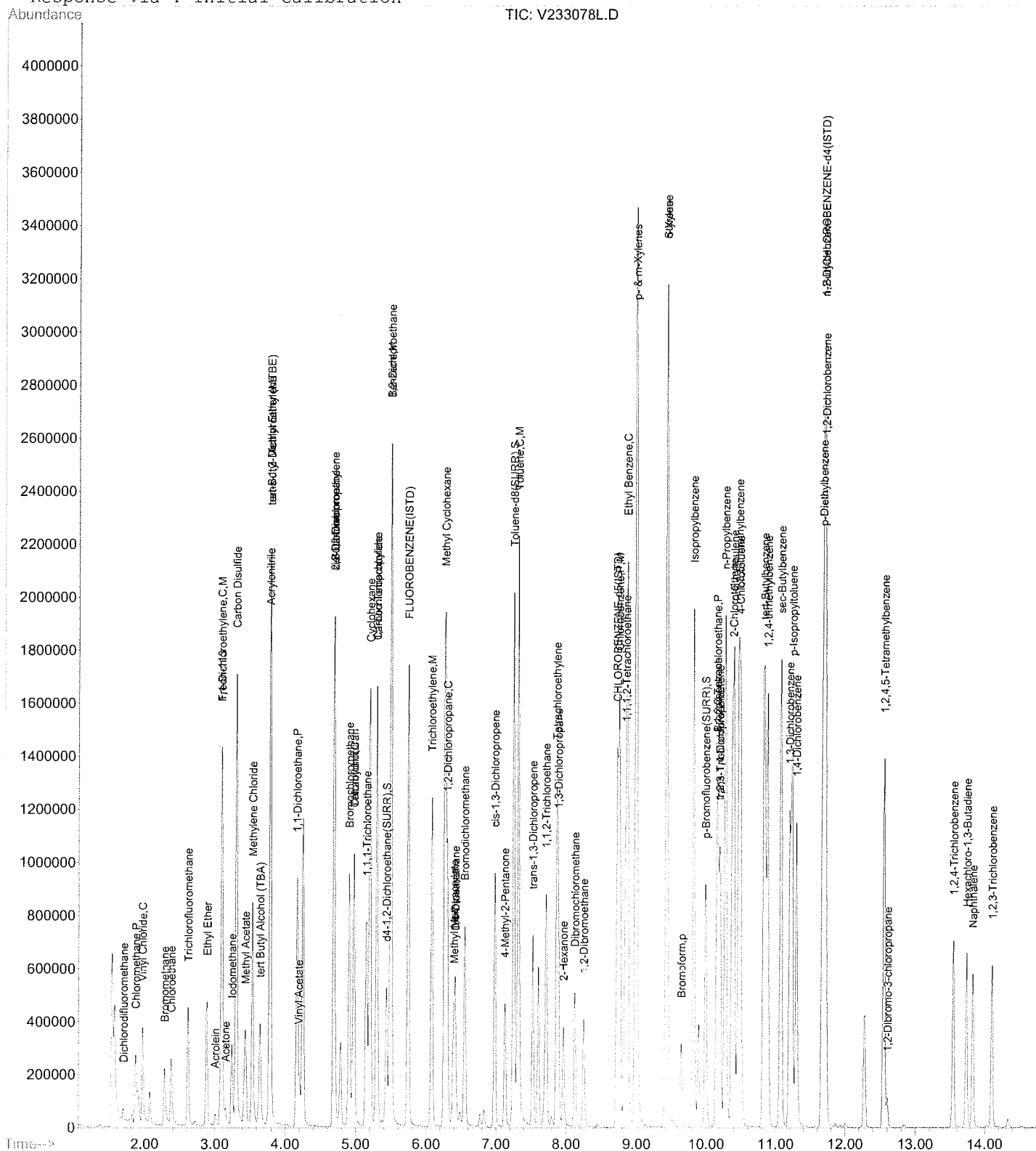
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 1,3-Dichloropropane	7.90	76	658829	56.22	ppb	# 87
52) Tetrachloroethylene	7.87	166	395260	51.80	ppb	# 100
53) 4-Methyl-2-Pentanone	7.13	43	463708	52.29	ppb	# 75
54) Dibromochloromethane	8.13	129	325017	50.92	ppb	100
55) 1,2-Dibromoethane	8.25	107	318470	54.85	ppb	100
56) Chlorobenzene	8.76	112	1000144	50.12	ppb	# 100
57) Ethyl Benzene	8.87	91	1928738	53.54	ppb	100
58) p- & m-Xylenes	8.99	91	2934391	108.22	ppb	100
59) o-Xylene	9.42	91	1496085	56.27	ppb	100
60) Styrene	9.44	104	1138046	63.51	ppb	99
61) 1,1,1,2-Tetrachloroethane	8.84	131	323908	53.37	ppb	99
62) p-Ethyltoluene	10.39	105	1348317	47.59	ppb	93
63) p-Diethylbenzene	11.67	119	729858	11.76	ppb	# 74
65) Bromoform	9.64	173	166091	51.90	ppb	# 100
67) 1,1,2,2-Tetrachloroethane	10.14	83	421722	54.35	ppb	99
68) trans-1,4-Dichloro-2-buten	10.20	75	479532	55.44	ppb	100
69) 1,2,3-Trichloropropane	10.20	110	89177	53.77	ppb	99
70) Isopropylbenzene	9.81	105	1719321	51.51	ppb	# 100
71) Bromobenzene	10.16	77	852784	53.40	ppb	98
72) n-Propylbenzene	10.26	91	2232774	54.30	ppb	100
73) 2-Chlorotoluene	10.37	91	1231195	49.16	ppb	# 100
74) 4-Chlorotoluene	10.49	91	1373168	52.02	ppb	# 99
75) tert-Butylbenzene	10.82	119	1385595	49.84	ppb	# 100
76) 1,3,5-trimethylbenzene	10.46	105	1321324	51.93	ppb	99
77) 1,2,4-trimethylbenzene	10.88	105	1193559	49.47	ppb	99
78) sec-Butylbenzene	11.07	105	1752341	52.48	ppb	# 100
79) 1,3-Dichlorobenzene	11.20	146	625859	50.03	ppb	# 94
80) 1,4-Dichlorobenzene	11.29	146	626453	50.75	ppb	# 99
81) 1,2-Dichlorobenzene	11.72	146	538571	49.32	ppb	# 99
82) p-Isopropyltoluene	11.24	119	1261781	50.75	ppb	# 100
83) n-Butylbenzene	11.69	91	1547906	48.76	ppb	# 99
84) 1,2,4,5-Tetramethylbenzene	12.55	119	945885	48.47	ppb	99
85) 1,2-Dibromo-3-chloropropan	12.60	75	41999	55.32	ppb	94
86) 1,2,4-Trichlorobenzene	13.55	180	269527	49.86	ppb	99
87) Naphthalene	13.83	128	554214	50.43	ppb	# 100
88) Hexachloro-1,3-Butadiene	13.74	225	151620	50.26	ppb	# 99
89) 1,2,3-Trichlorobenzene	14.10	182	220492	50.34	ppb	# 100

Quantitation Report

Data File : G:\MSVOA2 V2\AILYDAT\V2110313\V233078L.D Vial: 5
Acq On : 3 Nov 2013 11:36 am Operator: SS
Sample : BK30107-BS1 Inst : MS VOA 2
Misc : QBV2110313A Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 4 13:22 2013 Quant Results File: V2C00349

Quant Results File: V2C00349.RES

Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
Title : VOCs BY GC/MS 8240/8260
Last Update : Tue Oct 15 09:36:54 2013
Response via : Initial Calibration



Data File : G:\MSVOA2 V2\DAI\YDAT\V2110313\V233079U.D Vial: 6
 Acq On : 3 Nov 2013 12:11 pm Operator: SS
 Sample : BK30107-BSD1 Inst : MS VOA 2
 Misc : QBV2110313A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:22 2013 Quant Results File: V2C00349.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)

Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE (ISTD)	5.74	70	383845	50.00	ppb	0.00
35) CHLOROBEZENE-d5 (ISTD)	8.73	117	999819	50.00	ppb	0.00
64) 1,2-DICHLOROBEZENE-d4 (IST)	11.69	152	316510	50.00	ppb	0.00

System Monitoring Compounds						
31) d4-1,2-Dichloroethane (SURR)	5.44	65	311286	48.11	ppb	0.00
Spiked Amount	50.000	Range	67 - 128	Recovery	=	96.22%
47) Toluene-d8 (SURR)	7.25	98	1372331	48.62	ppb	0.00
Spiked Amount	50.000	Range	87 - 113	Recovery	=	97.24%
66) p-Bromofluorobenzene (SURR)	9.99	174	295925	48.55	ppb	0.00
Spiked Amount	50.000	Range	63 - 166	Recovery	=	97.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.69	85	97392m	11.08	ppb	
3) Chloromethane	1.87	50	469486	27.70	ppb	99
4) Vinyl Chloride	1.97	62	418265	31.76	ppb	100
5) Bromomethane	2.29	94	175302	29.56	ppb	100
6) Chloroethane	2.39	64	260596	39.18	ppb	100
7) Trichlorofluoromethane	2.63	101	354130	38.09	ppb	99
8) Ethyl Ether	2.89	59	293793	51.93	ppb	99
9) Freon-113	3.10	101	339796	49.53	ppb	95
10) 1,1-Dichloroethylene	3.10	61	506460	44.42	ppb	99
11) Acrolein	3.01	56	39205	43.86	ppb	88
12) Iodomethane	3.24	142	352788	43.10	ppb	100
13) Methyl Acetate	3.44	43	317235	80.66	ppb	100
14) tert Butyl Alcohol (TBA)	3.65	59	587982	1209.63	ppb	# 100
15) Acrylonitrile	3.76	53	132319	53.89	ppb	# 100
16) trans-1,2-Dichloroethylene	3.78	61	698631	49.28	ppb	98
17) Carbon Disulfide	3.31	76	2356335	84.85	ppb	100
18) Methylene Chloride	3.54	49	491879	43.40	ppb	100
19) tert-Butyl Methyl Ether (M	3.78	73	970819	48.51	ppb	# 100
20) Acetone	3.15	43	57296	27.71	ppb	100
21) 1,1-Dichloroethane	4.17	63	1001225	50.38	ppb	100
22) Vinyl Acetate	4.21	43	223126	13.03	ppb	100
23) cis-1,2-Dichloroethylene	4.69	96	528184	49.08	ppb	# 100
24) 2-Butanone	4.71	43	197979	48.97	ppb	100
25) 2,2-Dichloropropane	4.69	77	603354	48.08	ppb	100
26) Bromochloromethane	4.91	49	511496	55.90	ppb	96
27) Chloroform	4.98	83	770044	50.93	ppb	100
28) 1,1,1-Trichloroethane	5.15	97	550108	47.97	ppb	99
29) Cyclohexane	5.20	56	1113448	53.55	ppb	98
30) 1,1-Dichloropropylene	5.29	75	637618	46.11	ppb	100
32) Carbon Tetrachloride	5.30	117	420763	45.69	ppb	100
33) 1,2-Dichloroethane	5.50	62	380477	46.32	ppb	100
34) Benzene	5.49	78	1883033	46.10	ppb	100
36) Tetrahydrofuran	4.96	42	126344	59.76	ppb	95
37) Trichloroethylene	6.08	95	445598	51.62	ppb	98
38) Methyl Cyclohexane	6.26	83	942637	56.71	ppb	# 100
39) Methyl Methacrylate	6.38	69	280536	55.65	ppb	# 99
40) Dibromomethane	6.41	93	234538	55.41	ppb	97
41) Bromodichloromethane	6.55	83	523488	52.01	ppb	100
42) 1,2-Dichloropropane	6.29	63	559028	54.59	ppb	100
43) 1,4-Dioxane	6.43	88	35961	624.07	ppb	96
45) cis-1,3-Dichloropropene	6.99	75	776256	55.18	ppb	100
46) 2-Hexanone	7.97	43	292136	52.85	ppb	99
48) Toluene	7.31	91	1738940	49.99	ppb	100
49) trans-1,3-Dichloropropene	7.53	75	549306	52.27	ppb	99
50) 1,1,2-Trichloroethane	7.72	83	271715	51.36	ppb	97

(#) = qualifier out of range (m) = manual integration
 V233079U.D V2C00349.M Wed Nov 20 10:40:38 2013

Quantitation Report (QT Reviewed)

Data File : G:\MSVOA2 V2\AILYDAT\V2110313\V233079U.D Vial: 6
 Acq On : 3 Nov 2013 12:11 pm Operator: SS
 Sample : BK30107-BSD1 Inst : MS VOA 2
 Misc : QBV2110313A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:22 2013 Quant Results File: V2C00349.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 1,3-Dichloropropane	7.89	76	607552	51.15	ppb	# 100
52) Tetrachloroethylene	7.87	166	381130	49.28	ppb	# 100
53) 4-Methyl-2-Pentanone	7.13	43	411333	45.76	ppb	# 75
54) Dibromochloromethane	8.12	129	319071	49.32	ppb	100
55) 1,2-Dibromoethane	8.25	107	296959	50.46	ppb	100
56) Chlorobenzene	8.76	112	1036772	51.26	ppb	# 100
57) Ethyl Benzene	8.86	91	1858192	50.89	ppb	100
58) p- & m-Xylenes	8.99	91	2732087	99.42	ppb	100
59) o-Xylene	9.42	91	1438976	53.40	ppb	100
60) Styrene	9.43	104	1077226	59.31	ppb	100
61) 1,1,1,2-Tetrachloroethane	8.84	131	307861	50.05	ppb	98
62) p-Ethyltoluene	10.39	105	1340323	46.67	ppb	91
63) p-Diethylbenzene	11.66	119	648045	2.37	ppb	# 68
65) Bromoform	9.63	173	153978	49.07	ppb	# 100
67) 1,1,2,2-Tetrachloroethane	10.13	83	405946	53.36	ppb	98
68) trans-1,4-Dichloro-2-buten	10.19	75	446111	52.60	ppb	100
69) 1,2,3-Trichloropropane	10.19	110	84576	52.01	ppb	97
70) Isopropylbenzene	9.82	105	1667431	50.94	ppb	# 100
71) Bromobenzene	10.15	77	823615	52.60	ppb	99
72) n-Propylbenzene	10.27	91	2125699	52.72	ppb	100
73) 2-Chlorotoluene	10.37	91	1259487	51.29	ppb	# 100
74) 4-Chlorotoluene	10.49	91	1327191	51.28	ppb	# 100
75) tert-Butylbenzene	10.83	119	1382546	50.71	ppb	# 92
76) 1,3,5-trimethylbenzene	10.46	105	1236197	49.55	ppb	100
77) 1,2,4-trimethylbenzene	10.88	105	1183757	50.04	ppb	99
78) sec-Butylbenzene	11.07	105	1817987	55.53	ppb	# 100
79) 1,3-Dichlorobenzene	11.20	146	643748	52.48	ppb	# 68
80) 1,4-Dichlorobenzene	11.30	146	613312	50.67	ppb	# 99
81) 1,2-Dichlorobenzene	11.72	146	537172	50.17	ppb	# 69
82) p-Isopropyltoluene	11.23	119	1355867	55.62	ppb	# 100
83) n-Butylbenzene	11.69	91	1453819	46.42	ppb	# 99
84) 1,2,4,5-Tetramethylbenzene	12.55	119	971060	50.75	ppb	98
85) 1,2-Dibromo-3-chloropropan	12.60	75	42567	57.18	ppb	92
86) 1,2,4-Trichlorobenzene	13.54	180	261183	49.27	ppb	99
87) Naphthalene	13.83	128	581549	53.96	ppb	# 100
88) Hexachloro-1,3-Butadiene	13.74	225	154534	52.24	ppb	# 99
89) 1,2,3-Trichlorobenzene	14.11	182	209600	48.80	ppb	# 100

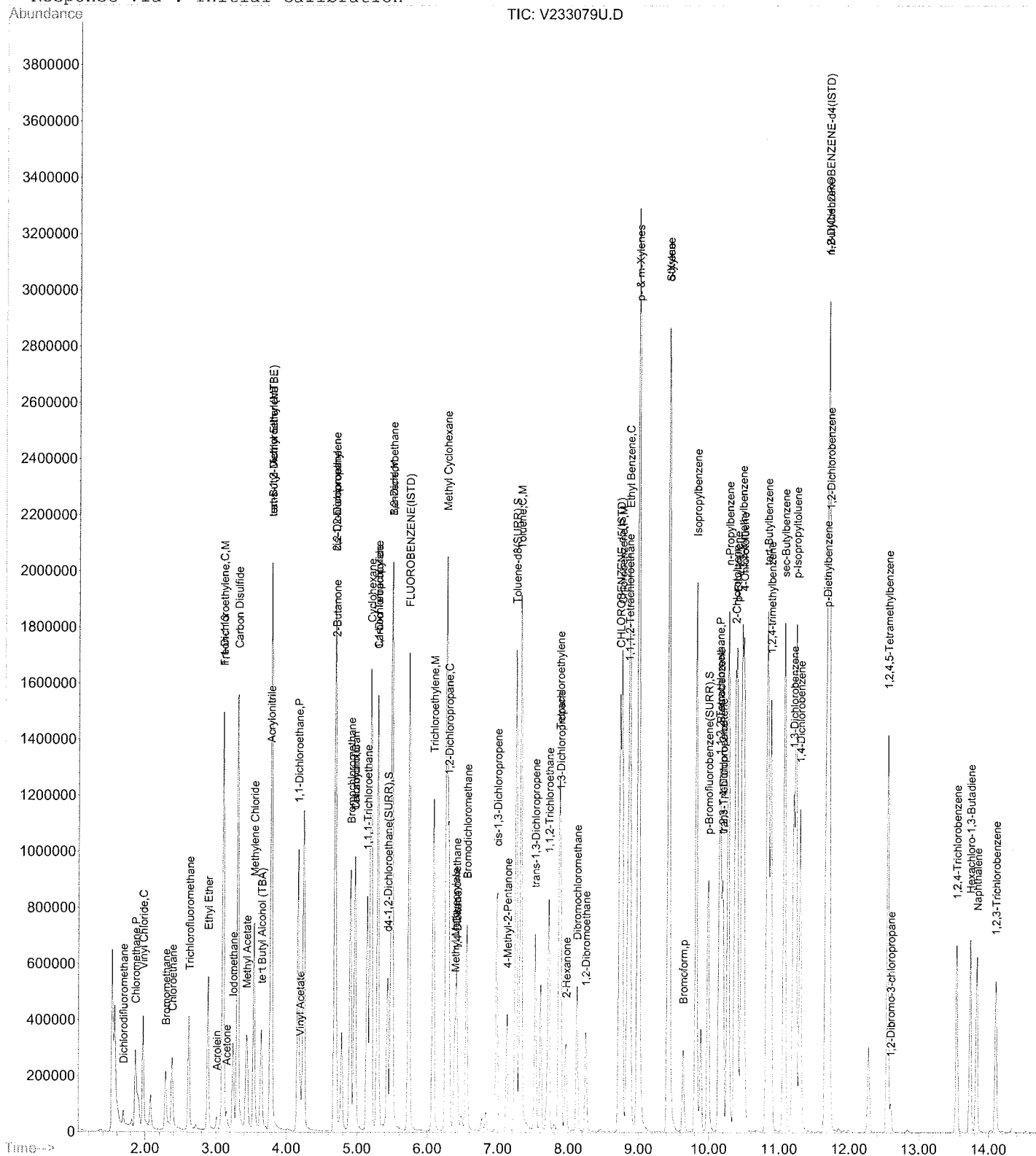
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\MSVOA2 V2\AILYDAT\V2110313\V233079U.D Vial: 6
Acq On : 3 Nov 2013 12:11 pm Operator: SS
Sample : BK30107-BSD1 Inst : MS VOA 2
Misc : QBV2110313A Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 4 13:22 2013 Quant Results File: V2C00349

Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
Title : VOCs BY GC/MS 8240/8260
Last Update : Tue Oct 15 09:36:54 2013
Response via : Initial Calibration

Quant Results File: V2C00349.RES



FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30233Laboratory ID: BK30233-BS1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	54	108	90 - 116
1,1,1-Trichloroethane	50.0	50	99.0	83 - 125
1,1,2,2-Tetrachloroethane	50.0	61	123 *	84 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	53	105	66 - 141
1,1,2-Trichloroethane	50.0	54	108	83 - 116
1,1-Dichloroethane	50.0	53	106	82 - 121
1,1-Dichloroethylene	50.0	47	95.0	59 - 135
1,1-Dichloropropylene	50.0	50	101	81 - 112
1,2,3-Trichlorobenzene	50.0	56	111	74 - 132
1,2,3-Trichloropropane	50.0	61	121 *	83 - 118
1,2,4-Trichlorobenzene	50.0	56	112	72 - 133
1,2,4-Trimethylbenzene	50.0	50	100	82 - 119
1,2-Dibromo-3-chloropropane	50.0	64	128	69 - 134
1,2-Dibromoethane	50.0	58	116	85 - 118
1,2-Dichlorobenzene	50.0	50	99.0	87 - 116
1,2-Dichloroethane	50.0	55	110	79 - 125
1,2-Dichloropropane	50.0	52	103	82 - 119
1,3,5-Trimethylbenzene	50.0	53	106	84 - 120
1,3-Dichlorobenzene	50.0	49	98.5	85 - 116
1,3-Dichloropropane	50.0	56	113	86 - 114
1,4-Dichlorobenzene	50.0	52	105	84 - 116
2,2-Dichloropropane	50.0	52	103	56 - 138
2-Butanone	50.0	59	118	59 - 127
2-Chlorotoluene	50.0	49	97.6	82 - 117
4-Chlorotoluene	50.0	54	107	84 - 118
Acetone	50.0	37	73.8	30 - 112
Benzene	50.0	52	103	88 - 113
Bromobenzene	50.0	56	113	85 - 117
Bromochloromethane	50.0	59	119	80 - 120
Bromodichloromethane	50.0	54	108	87 - 122

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30233Laboratory ID: BK30233-BS1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Bromoform	50.0	57	113	83 - 127
Bromomethane	50.0	39	77.1	36 - 135
Carbon tetrachloride	50.0	51	102	82 - 128
Chlorobenzene	50.0	51	102	90 - 111
Chloroethane	50.0	46	91.9	60 - 132
Chloroform	50.0	52	104	89 - 116
Chloromethane	50.0	41	82.7	39 - 131
cis-1,2-Dichloroethylene	50.0	51	102	90 - 112
cis-1,3-Dichloropropylene	50.0	58	115	89 - 124
Dibromochloromethane	50.0	56	111	82 - 132
Dibromomethane	50.0	56	111	83 - 124
Dichlorodifluoromethane	50.0	25	49.7	10 - 143
Ethyl Benzene	50.0	51	103	91 - 117
Hexachlorobutadiene	50.0	54	109	83 - 129
Isopropylbenzene	50.0	52	104	82 - 122
Methyl tert-butyl ether (MTBE)	50.0	56	112	59 - 135
Methylene chloride	50.0	50	101	51 - 136
Naphthalene	50.0	60	119	61 - 147
n-Butylbenzene	50.0	46	91.1	79 - 122
n-Propylbenzene	50.0	55	110	80 - 123
o-Xylene	50.0	51	103	91 - 110
p- & m- Xylenes	100	100	101	86 - 118
p-Isopropyltoluene	50.0	50	101	83 - 125
sec-Butylbenzene	50.0	51	101	82 - 127
Styrene	50.0	59	117	88 - 121
tert-Butylbenzene	50.0	48	96.9	70 - 130
Tetrachloroethylene	50.0	49	98.7	67 - 138
Toluene	50.0	52	105	88 - 113
trans-1,2-Dichloroethylene	50.0	52	105	73 - 123
trans-1,3-Dichloropropylene	50.0	57	115	85 - 123

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 1311044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Matrix: Water
Batch: BK30233 Laboratory ID: BK30233-BS1
Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Trichloroethylene	50.0	53	107	83 - 120
Trichlorofluoromethane	50.0	43	86.1	62 - 138
Vinyl Chloride	50.0	42	83.3	49 - 127
Vinyl acetate	50.0	17	34.2	21 - 90

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30233Laboratory ID: BK30233-BSD1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	50.0	53	105	2.22	30	90 - 116
1,1,1-Trichloroethane	50.0	50	100	1.07	30	83 - 125
1,1,2,2-Tetrachloroethane	50.0	54	109	12.2	30	84 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53	107	1.64	30	66 - 141
1,1,2-Trichloroethane	50.0	52	104	3.98	30	83 - 116
1,1-Dichloroethane	50.0	51	102	3.48	30	82 - 121
1,1-Dichloroethylene	50.0	50	99.3	4.43	30	59 - 135
1,1-Dichloropropylene	50.0	49	98.0	2.74	30	81 - 112
1,2,3-Trichlorobenzene	50.0	53	105	5.34	30	74 - 132
1,2,3-Trichloropropane	50.0	52	105	14.3	30	83 - 118
1,2,4-Trichlorobenzene	50.0	52	104	7.33	30	72 - 133
1,2,4-Trimethylbenzene	50.0	52	104	3.53	30	82 - 119
1,2-Dibromo-3-chloropropane	50.0	57	113	12.0	30	69 - 134
1,2-Dibromoethane	50.0	54	107	7.98	30	85 - 118
1,2-Dichlorobenzene	50.0	50	101	1.54	30	87 - 116
1,2-Dichloroethane	50.0	53	107	2.49	30	79 - 125
1,2-Dichloropropane	50.0	55	109	5.59	30	82 - 119
1,3,5-Trimethylbenzene	50.0	52	105	1.16	30	84 - 120
1,3-Dichlorobenzene	50.0	48	97.0	1.60	30	85 - 116
1,3-Dichloropropane	50.0	51	102	9.85	30	86 - 114
1,4-Dichlorobenzene	50.0	50	101	3.77	30	84 - 116
2,2-Dichloropropane	50.0	52	103	0.252	30	56 - 138
2-Butanone	50.0	50	101	15.8	30	59 - 127
2-Chlorotoluene	50.0	51	102	4.39	30	82 - 117
4-Chlorotoluene	50.0	52	104	3.01	30	84 - 118
Acetone	50.0	37	74.0	0.352	30	30 - 112
Benzene	50.0	52	103	0.349	30	88 - 113
Bromobenzene	50.0	54	108	4.88	30	85 - 117
Bromochloromethane	50.0	56	112	5.76	30	80 - 120
Bromodichloromethane	50.0	51	102	5.37	30	87 - 122

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BK30233Laboratory ID: BK30233-BSD1Preparation: EPA 5030BInitial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Bromoform	50.0	50	101	12.0	30	83 - 127
Bromomethane	50.0	39	78.0	1.24	30	36 - 135
Carbon tetrachloride	50.0	49	98.0	3.68	30	82 - 128
Chlorobenzene	50.0	51	102	0.0591	30	90 - 111
Chloroethane	50.0	47	93.1	1.30	30	60 - 132
Chloroform	50.0	51	103	1.01	30	89 - 116
Chloromethane	50.0	39	77.8	6.08	30	39 - 131
cis-1,2-Dichloroethylene	50.0	51	102	0.157	30	90 - 112
cis-1,3-Dichloropropylene	50.0	56	112	2.59	30	89 - 124
Dibromochloromethane	50.0	51	102	8.17	30	82 - 132
Dibromomethane	50.0	53	107	4.17	30	83 - 124
Dichlorodifluoromethane	50.0	22	44.2	11.7	30	10 - 143
Ethyl Benzene	50.0	53	105	2.73	30	91 - 117
Hexachlorobutadiene	50.0	51	102	6.54	30	83 - 129
Isopropylbenzene	50.0	48	95.1	9.07	30	82 - 122
Methyl tert-butyl ether (MTBE)	50.0	53	106	5.92	30	59 - 135
Methylene chloride	50.0	51	102	1.17	30	51 - 136
Naphthalene	50.0	55	111	7.10	30	61 - 147
n-Butylbenzene	50.0	45	90.7	0.374	30	79 - 122
n-Propylbenzene	50.0	55	110	0.218	30	80 - 123
o-Xylene	50.0	54	108	5.26	30	91 - 110
p- & m- Xylenes	100	100	103	2.47	30	86 - 118
p-Isopropyltoluene	50.0	50	101	0.238	30	83 - 125
sec-Butylbenzene	50.0	54	107	5.64	30	82 - 127
Styrene	50.0	61	123 *	4.25	30	88 - 121
tert-Butylbenzene	50.0	51	102	4.72	30	70 - 130
Tetrachloroethylene	50.0	50	99.9	1.13	30	67 - 138
Toluene	50.0	51	102	3.03	30	88 - 113
trans-1,2-Dichloroethylene	50.0	53	106	1.10	30	73 - 123
trans-1,3-Dichloropropylene	50.0	54	107	6.80	30	85 - 123

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water
 Batch: BK30233 Laboratory ID: BK30233-BSD1
 Preparation: EPA 5030B Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Trichloroethylene	50.0	53	107	0.0187	30	83 - 120
Trichlorofluoromethane	50.0	42	84.6	1.80	30	62 - 138
Vinyl Chloride	50.0	40	79.1	5.17	30	49 - 127
Vinyl acetate	50.0	13	26.6	24.9	30	21 - 90

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Data File : G:\MSVOA2 V2\DAI\DAT\2110613\233175L.D Vial: 2
 Acq On : 6 Nov 2013 8:22 am Operator: SS
 Sample : BK30233-BS1 Inst : MS VOA 2
 Misc : QBV2110613A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 6 12:06 2013 Quant Results File: V2C00349.RES

Quant Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)

Title : VOCs BY GC/MS 8240/8260

Last Update : Tue Oct 15 09:36:54 2013

Response via : Initial Calibration

DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) FLUOROBENZENE (ISTD)	5.70	70	375788	50.00	ppb	-0.04
35) CHLOROBENZENE-d5 (ISTD)	8.68	117	1032565	50.00	ppb	-0.04
64) 1,2-DICHLOROBENZENE-d4 (ISTD)	11.66	152	332593	50.00	ppb	-0.04

System Monitoring Compounds

31) d4-1,2-Dichloroethane (SURR)	5.39	65	319449	50.43	ppb	-0.04
Spiked Amount	50.000	Range	67 - 128	Recovery	=	100.86%
47) Toluene-d8 (SURR)	7.21	98	1433731	49.19	ppb	-0.04
Spiked Amount	50.000	Range	87 - 113	Recovery	=	98.38%
66) p-Bromofluorobenzene (SURR)	9.94	174	321119	50.14	ppb	-0.04
Spiked Amount	50.000	Range	63 - 166	Recovery	=	100.28%

Target Compounds

Qvalue

2) Dichlorodifluoromethane	1.67	85	213659m	24.84	ppb	
3) Chloromethane	1.84	50	685840	41.34	ppb	99
4) Vinyl Chloride	1.94	62	536811	41.64	ppb	100
5) Bromomethane	2.25	94	223717	38.53	ppb	99
6) Chloroethane	2.35	64	299170	45.94	ppb	100
7) Trichlorofluoromethane	2.59	101	392002	43.07	ppb	100
8) Ethyl Ether	2.85	59	325997	58.86	ppb	100
9) Freon-113	3.06	101	353340	52.60	ppb	98
10) 1,1-Dichloroethylene	3.06	61	530034	47.49	ppb	100
11) Acrolein	2.97	56	45264	51.72	ppb	96
12) Iodomethane	3.20	142	413728	50.50	ppb	100
13) Methyl Acetate	3.41	43	399695	103.80	ppb	100
14) tert Butyl Alcohol (TBA)	3.60	59	683934m	1437.20	ppb	
15) Acrylonitrile	3.72	53	159781	66.47	ppb	# 100
16) trans-1,2-Dichloroethylene	3.74	61	727047	52.39	ppb	99
17) Carbon Disulfide	3.26	76	2530776	93.08	ppb	100
18) Methylene Chloride	3.49	49	549712	50.32	ppb	98
19) tert-Butyl Methyl Ether (M)	3.74	73	1100994	56.19	ppb	# 100
20) Acetone	3.11	43	74668	36.88	ppb	100
21) 1,1-Dichloroethane	4.12	63	1029362	52.90	ppb	100
22) Vinyl Acetate	4.16	43	286485	17.09	ppb	100
23) cis-1,2-Dichloroethylene	4.65	96	535479	50.82	ppb	# 99
24) 2-Butanone	4.66	43	233593	59.02	ppb	100
25) 2,2-Dichloropropane	4.65	77	634771	51.67	ppb	100
26) Bromochloromethane	4.86	49	531640	59.34	ppb	97
27) Chloroform	4.93	83	766762	51.80	ppb	99
28) 1,1,1-Trichloroethane	5.10	97	555718	49.50	ppb	100
29) Cyclohexane	5.15	56	1190240	58.47	ppb	100
30) 1,1-Dichloropropylene	5.25	75	682024	50.38	ppb	100
32) Carbon Tetrachloride	5.25	117	458536	50.86	ppb	99
33) 1,2-Dichloroethane	5.46	62	440781	54.82	ppb	100
34) Benzene	5.45	78	2068042	51.72	ppb	100
36) Tetrahydrofuran	4.91	42	149017	68.24	ppb	97
37) Trichloroethylene	6.03	95	476745	53.48	ppb	99
38) Methyl Cyclohexane	6.22	83	898910	52.36	ppb	# 100
39) Methyl Methacrylate	6.34	69	327990	63.00	ppb	# 99
40) Dibromomethane	6.36	93	243110	55.61	ppb	99
41) Bromodichloromethane	6.51	83	558769	53.75	ppb	100
42) 1,2-Dichloropropane	6.26	63	546065	51.63	ppb	100
43) 1,4-Dioxane	6.38	88	41388	684.99	ppb	100
45) cis-1,3-Dichloropropene	6.94	75	835495	57.51	ppb	100
46) 2-Hexanone	7.92	43	377906	66.20	ppb	98
48) Toluene	7.28	91	1879764	52.32	ppb	100
49) trans-1,3-Dichloropropene	7.48	75	623497	57.45	ppb	99
50) 1,1,2-Trichloroethane	7.67	83	295463	54.08	ppb	99

(#) = qualifier out of range (m) = manual integration

Data File : G:\MSVOA2 V2\AILYDAT\V2110613\V233175L.D Vial: 2
 Acq On : 6 Nov 2013 8:22 am Operator: SS
 Sample : BK30233-BS1 Inst : MS VOA 2
 Misc : QBV2110613A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 6 12:06 2013 Quant Results File: V2C00349.RES

Quant Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

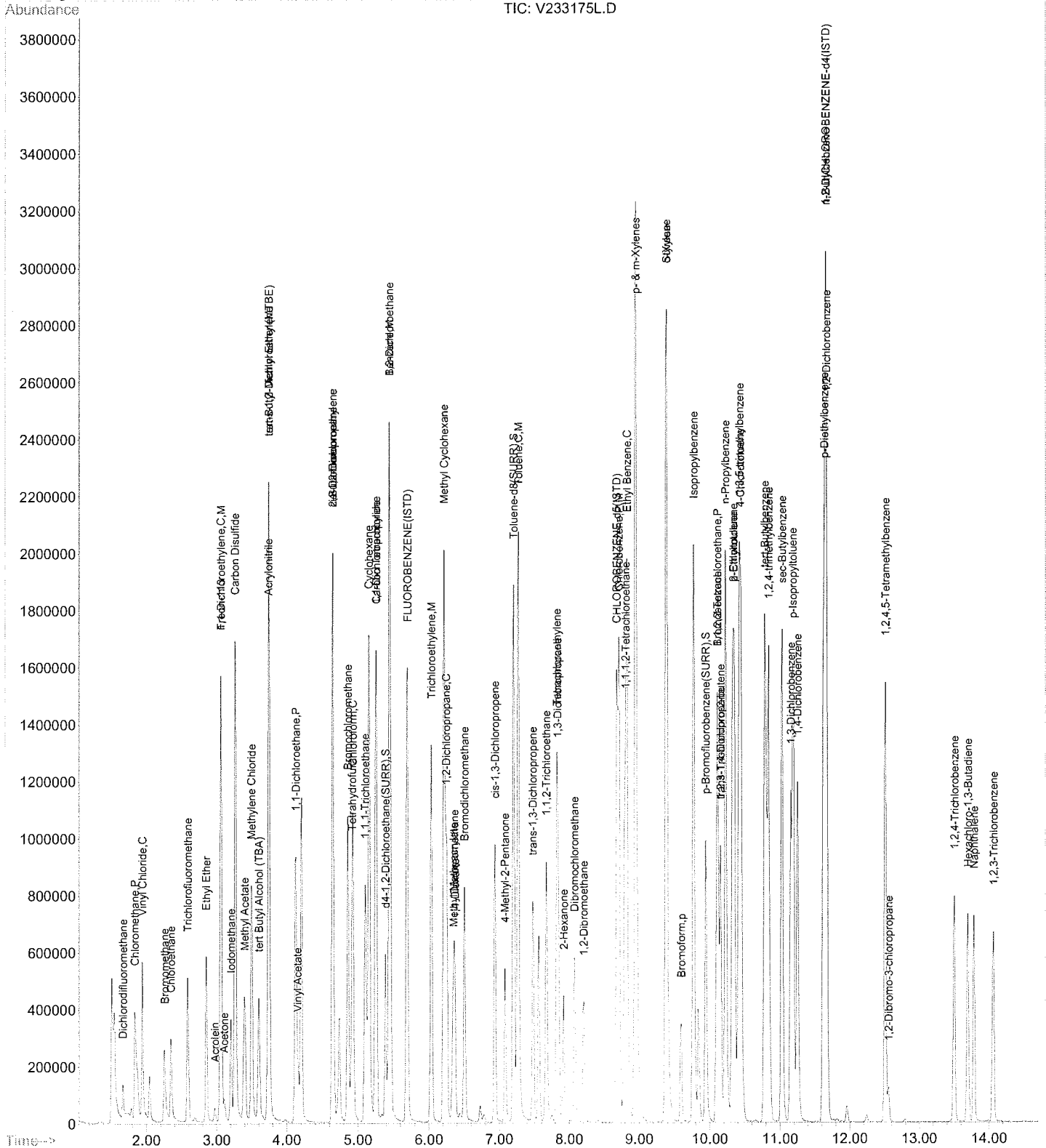
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 1,3-Dichloropropane	7.84	76	692324	56.44	ppb	# 100
52) Tetrachloroethylene	7.82	166	394289	49.37	ppb	# 100
53) 4-Methyl-2-Pentanone	7.08	43	518636	55.87	ppb	# 75
54) Dibromochloromethane	8.07	129	371220	55.56	ppb	100
55) 1,2-Dibromoethane	8.21	107	353028	58.09	ppb	99
56) Chlorobenzene	8.71	112	1061305	50.81	ppb	# 100
57) Ethyl Benzene	8.83	91	1934811	51.31	ppb	100
58) p- & m-Xylenes	8.95	91	2861013	100.81	ppb	100
59) o-Xylene	9.37	91	1428126	51.31	ppb	100
60) Styrene	9.38	104	1101545	58.73	ppb	100
61) 1,1,1,2-Tetrachloroethane	8.80	131	342026	53.84	ppb	97
62) p-Ethyltoluene	10.35	105	1344061	45.32	ppb	89
63) p-Diethylbenzene	11.63	119	722154	7.64	ppb	# 75
65) Bromoform	9.60	173	186771	56.65	ppb	# 100
67) 1,1,2,2-Tetrachloroethane	10.10	83	491168	61.44	ppb	98
68) trans-1,4-Dichloro-2-buten	10.15	75	534724	60.00	ppb	100
69) 1,2,3-Trichloropropane	10.15	110	103550	60.60	ppb	86
70) Isopropylbenzene	9.77	105	1790808	52.07	ppb	# 100
71) Bromobenzene	10.12	77	929318	56.48	ppb	99
72) n-Propylbenzene	10.22	91	2338810	55.20	ppb	100
73) 2-Chlorotoluene	10.33	91	1259058	48.79	ppb	# 100
74) 4-Chlorotoluene	10.44	91	1460427	53.70	ppb	# 100
75) tert-Butylbenzene	10.78	119	1387936	48.45	ppb	# 100
76) 1,3,5-trimethylbenzene	10.41	105	1391036	53.06	ppb	99
77) 1,2,4-trimethylbenzene	10.84	105	1246071	50.13	ppb	100
78) sec-Butylbenzene	11.03	105	1743826	50.69	ppb	# 100
79) 1,3-Dichlorobenzene	11.15	146	635057	49.27	ppb	# 95
80) 1,4-Dichlorobenzene	11.25	146	666807	52.43	ppb	# 99
81) 1,2-Dichlorobenzene	11.67	146	557180	49.52	ppb	# 100
82) p-Isopropyltoluene	11.19	119	1290541	50.38	ppb	# 100
83) n-Butylbenzene	11.65	91	1501979	45.53	ppb	# 99
84) 1,2,4,5-Tetramethylbenzene	12.51	119	999369	49.71	ppb	99
85) 1,2-Dibromo-3-chloropropan	12.56	75	49934	63.83	ppb	94
86) 1,2,4-Trichlorobenzene	13.50	180	311044	55.84	ppb	100
87) Naphthalene	13.78	128	674246	59.54	ppb	# 100
88) Hexachloro-1,3-Butadiene	13.70	225	169341	54.48	ppb	# 98
89) 1,2,3-Trichlorobenzene	14.06	182	250796	55.57	ppb	# 100

Quantitation Report

Data File : G:\MSVOA2 V2\DAILYDAT\V2110613\V233175L.D Vial: 2
Acq On : 6 Nov 2013 8:22 am Operator: SS
Sample : BK30233-BS1 Inst : MS VOA 2
Misc : QBV2110613A Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 6 12:06 2013 Quant Results File: V2C00349

Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
Title : VOCs BY GC/MS 8240/8260
Last Update : Tue Oct 15 09:36:54 2013
Response via : Initial Calibration

Quant Results File: V2C00349.RES



Data File : G:\MSVOA2 V2\DAI\DAT\2110613\233176U.D Vial: 3
 Acq On : 6 Nov 2013 8:57 am Operator: SS
 Sample : BK30233-BSD1 Inst : MS VOA 2
 Misc : QBV2110613A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 6 12:55 2013 Quant Results File: V2C00349.RES

Quant Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) FLUOROBENZENE (ISTD)	5.70	70	360942	50.00	ppb	-0.04
35) CHLOROBENZENE-d5 (ISTD)	8.68	117	981899	50.00	ppb	-0.04
64) 1,2-DICHLOROBENZENE-d4 (ISTD)	11.66	152	317645	50.00	ppb	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
31) d4-1,2-Dichloroethane (SURR)	5.39	65	303330	49.85	ppb	-0.04
Spiked Amount 50.000	Range 67 - 128		Recovery =	99.70%		
47) Toluene-d8 (SURR)	7.21	98	1413337	50.99	ppb	-0.04
Spiked Amount 50.000	Range 87 - 113		Recovery =	101.98%		
66) p-Bromofluorobenzene (SURR)	9.94	174	293525	47.98	ppb	-0.04
Spiked Amount 50.000	Range 63 - 166		Recovery =	95.96%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.67	85	182738m	22.12	ppb	
3) Chloromethane	1.85	50	619837	38.90	ppb	99
4) Vinyl Chloride	1.94	62	489621	39.54	ppb	100
5) Bromomethane	2.26	94	217577	39.01	ppb	100
6) Chloroethane	2.35	64	291051	46.54	ppb	99
7) Trichlorofluoromethane	2.59	101	369837	42.30	ppb	100
8) Ethyl Ether	2.85	59	295669	55.58	ppb	99
9) Freon-113	3.06	101	344953	53.47	ppb	97
10) 1,1-Dichloroethylene	3.06	61	532228	49.64	ppb	99
11) Acrolein	2.97	56	36385	43.29	ppb	94
12) Iodomethane	3.20	142	399704	50.76	ppb	100
13) Methyl Acetate	3.41	43	356547	96.41	ppb	100
14) tert Butyl Alcohol (TBA)	3.60	59	557465	1219.62	ppb	# 100
15) Acrylonitrile	3.72	53	133490	57.82	ppb	# 100
16) trans-1,2-Dichloroethylene	3.74	61	706125	52.97	ppb	98
17) Carbon Disulfide	3.27	76	2510928	96.15	ppb	100
18) Methylene Chloride	3.50	49	533614	50.91	ppb	98
19) tert-Butyl Methyl Ether (M)	3.74	73	996647	52.96	ppb	# 100
20) Acetone	3.12	43	71959	37.01	ppb	100
21) 1,1-Dichloroethane	4.13	63	954824	51.09	ppb	100
22) Vinyl Acetate	4.16	43	214022	13.30	ppb	100
23) cis-1,2-Dichloroethylene	4.65	96	515114	50.90	ppb	# 100
24) 2-Butanone	4.66	43	191497	50.37	ppb	100
25) 2,2-Dichloropropane	4.65	77	608137	51.54	ppb	100
26) Bromochloromethane	4.86	49	482033	56.02	ppb	97
27) Chloroform	4.93	83	729110	51.28	ppb	99
28) 1,1,1-Trichloroethane	5.10	97	539458	50.03	ppb	100
29) Cyclohexane	5.16	56	1130921	57.85	ppb	98
30) 1,1-Dichloropropylene	5.25	75	637374	49.02	ppb	100
32) Carbon Tetrachloride	5.25	117	424549	49.02	ppb	99
33) 1,2-Dichloroethane	5.46	62	412960	53.47	ppb	100
34) Benzene	5.45	78	1979639	51.54	ppb	100
36) Tetrahydrofuran	4.92	42	124445	59.93	ppb	95
37) Trichloroethylene	6.03	95	453430	53.49	ppb	98
38) Methyl Cyclohexane	6.22	83	868066	53.17	ppb	# 99
39) Methyl Methacrylate	6.34	69	286941	57.96	ppb	# 100
40) Dibromomethane	6.37	93	221746	53.34	ppb	99
41) Bromodichloromethane	6.51	83	503517	50.94	ppb	100
42) 1,2-Dichloropropane	6.26	63	549097	54.60	ppb	99
43) 1,4-Dioxane	6.38	88	32965	588.70	ppb	99
45) cis-1,3-Dichloropropene	6.94	75	774228	56.04	ppb	100
46) 2-Hexanone	7.92	43	283833	52.28	ppb	99
48) Toluene	7.28	91	1734115	50.76	ppb	100
49) trans-1,3-Dichloropropene	7.49	75	553893	53.67	ppb	99
50) 1,1,2-Trichloroethane	7.67	83	270011	51.97	ppb	99

(#) = qualifier out of range (m) = manual integration

Data File : G:\MSVOA2 V2\DAI\DAT\2110613\233176U.D Vial: 3
 Acq On : 6 Nov 2013 8:57 am Operator: SS
 Sample : BK30233-BSD1 Inst : MS VOA 2
 Misc : QBV2110613A Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 6 12:55 2013 Quant Results File: V2C00349.RES

Quant Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 1,3-Dichloropropane	7.84	76	596502	51.14	ppb	# 99
52) Tetrachloroethylene	7.82	166	379178	49.93	ppb	# 100
53) 4-Methyl-2-Pentanone	7.08	43	444156	50.31	ppb	# 75
54) Dibromochloromethane	8.08	129	325285	51.20	ppb	100
55) 1,2-Dibromoethane	8.21	107	309944	53.63	ppb	99
56) Chlorobenzene	8.72	112	1008541	50.78	ppb	# 100
57) Ethyl Benzene	8.83	91	1890869	52.73	ppb	100
58) p- & m-Xylenes	8.95	91	2788807	103.33	ppb	100
59) o-Xylene	9.37	91	1431285	54.08	ppb	100
60) Styrene	9.39	104	1092974	61.28	ppb	99
61) 1,1,1,2-Tetrachloroethane	8.80	131	318134	52.66	ppb	100
62) p-Ethyltoluene	10.35	105	1307986	46.38	ppb	89
63) p-Diethylbenzene	11.63	119	660977	4.95	ppb	# 71
65) Bromoform	9.60	173	158263	50.26	ppb	# 100
67) 1,1,2,2-Tetrachloroethane	10.10	83	415154	54.37	ppb	98
68) trans-1,4-Dichloro-2-buten	10.15	75	456401	53.62	ppb	100
69) 1,2,3-Trichloropropane	10.15	110	85656	52.49	ppb	95
70) Isopropylbenzene	9.77	105	1561831	47.55	ppb	# 99
71) Bromobenzene	10.12	77	845258	53.79	ppb	99
72) n-Propylbenzene	10.22	91	2228624	55.08	ppb	100
73) 2-Chlorotoluene	10.33	91	1256226	50.98	ppb	# 100
74) 4-Chlorotoluene	10.44	91	1353504	52.11	ppb	# 100
75) tert-Butylbenzene	10.78	119	1389502	50.79	ppb	# 100
76) 1,3,5-trimethylbenzene	10.41	105	1313346	52.45	ppb	99
77) 1,2,4-trimethylbenzene	10.84	105	1232783	51.93	ppb	99
78) sec-Butylbenzene	11.03	105	1762075	53.63	ppb	# 100
79) 1,3-Dichlorobenzene	11.15	146	596879	48.49	ppb	# 95
80) 1,4-Dichlorobenzene	11.26	146	613357	50.49	ppb	# 99
81) 1,2-Dichlorobenzene	11.67	146	540355	50.29	ppb	# 99
82) p-Isopropyltoluene	11.19	119	1235480	50.50	ppb	# 100
83) n-Butylbenzene	11.66	91	1429826	45.36	ppb	# 99
84) 1,2,4,5-Tetramethylbenzene	12.51	119	940825	49.00	ppb	99
85) 1,2-Dibromo-3-chloropropan	12.56	75	42283	56.59	ppb	93
86) 1,2,4-Trichlorobenzene	13.50	180	276044	51.89	ppb	100
87) Naphthalene	13.78	128	599876	55.46	ppb	# 100
88) Hexachloro-1,3-Butadiene	13.70	225	151477	51.03	ppb	# 100
89) 1,2,3-Trichlorobenzene	14.06	182	227079	52.68	ppb	# 100

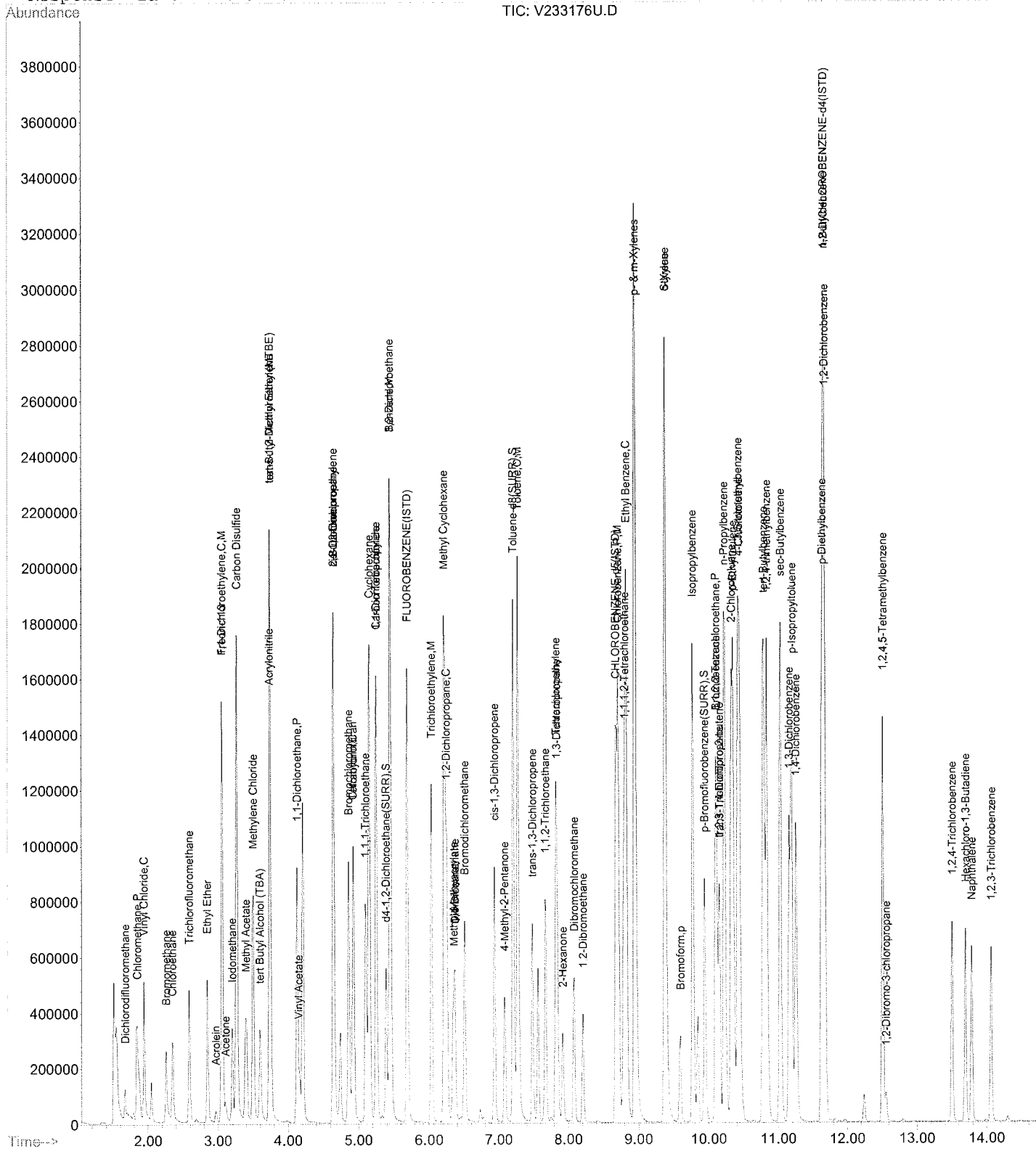
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\MSVOA2 V2\AILYDAT\V2110613\V233176U.D Vial: 3
Acq On : 6 Nov 2013 8:57 am Operator: SS
Sample : BK30233-BSD1 Inst : MS VOA 2
Misc : QBV2110613A Multiplr: 1.00

MS Integration Params: rteint.p
Quant Time: Nov 6 12:55 2013 Quant Results File: V2C00349.RES

Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
Title : VOCs BY GC/MS 8240/8260
Last Update : Tue Oct 15 09:36:54 2013
Response via : Initial Calibration



DUPLICATES

EPA 8260C

KC-MW-02 1013

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Laboratory ID: BK30107-DUP1

Batch: BK30107

Lab Source ID: 13J1044-02

Preparation: EPA 5030B

Initial/Final: 5 mL / 5 mL

Source Sample Name: KC-MW-02 1013

% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/L)	C	DUPLICATE CONCENTRATION (ug/L)	C	RPD %	Q	METHOD
1,1,1,2-Tetrachloroethane	200	ND		ND				EPA 8260C
1,1,1-Trichloroethane	200	ND		ND				EPA 8260C
1,1,2,2-Tetrachloroethane	200	ND		ND				EPA 8260C
1,1,2-Trichloro-1,2,2-trifluoroethane (F	200	ND		ND				EPA 8260C
1,1,2-Trichloroethane	200	ND		ND				EPA 8260C
1,1-Dichloroethane	200	ND		ND				EPA 8260C
1,1-Dichloroethylene	200	ND		ND				EPA 8260C
1,1-Dichloropropylene	200	ND		ND				EPA 8260C
1,2,3-Trichlorobenzene	200	ND		ND				EPA 8260C
1,2,3-Trichloropropane	200	ND		ND				EPA 8260C
1,2,4-Trichlorobenzene	200	ND		ND				EPA 8260C
1,2,4-Trimethylbenzene	200	ND		ND				EPA 8260C
1,2-Dibromo-3-chloropropane	200	ND		ND				EPA 8260C
1,2-Dibromoethane	200	ND		ND				EPA 8260C
1,2-Dichlorobenzene	200	ND		ND				EPA 8260C
1,2-Dichloroethane	200	ND		ND				EPA 8260C
1,2-Dichloropropane	200	ND		ND				EPA 8260C
1,3,5-Trimethylbenzene	200	ND		ND				EPA 8260C
1,3-Dichlorobenzene	200	ND		ND				EPA 8260C
1,3-Dichloropropane	200	ND		ND				EPA 8260C
1,4-Dichlorobenzene	200	ND		ND				EPA 8260C
2,2-Dichloropropane	200	ND		ND				EPA 8260C
2-Butanone	200	ND		ND				EPA 8260C
2-Chlorotoluene	200	ND		ND				EPA 8260C
4-Chlorotoluene	200	ND		ND				EPA 8260C
Acetone	200	5.73		6.0		3.93		EPA 8260C
Benzene	200	ND		ND				EPA 8260C
Bromobenzene	200	ND		ND				EPA 8260C

DUPLICATES

EPA 8260C

KC-MW-02 1013

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Laboratory ID: BK30107-DUP1

Batch: BK30107

Lab Source ID: 13J1044-02

Preparation: EPA 5030B

Initial/Final: 5 mL / 5 mL

Source Sample Name: KC-MW-02 1013

% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/L)	C	DUPLICATE CONCENTRATION (ug/L)	C	RPD %	Q	METHOD
Bromochloromethane	200	ND		ND				EPA 8260C
Bromodichloromethane	200	ND		ND				EPA 8260C
Bromoform	200	ND		ND				EPA 8260C
Bromomethane	200	ND		ND				EPA 8260C
Carbon tetrachloride	200	ND		ND				EPA 8260C
Chlorobenzene	200	ND		ND				EPA 8260C
Chloroethane	200	ND		ND				EPA 8260C
Chloroform	200	ND		ND				EPA 8260C
Chloromethane	200	ND		ND				EPA 8260C
cis-1,2-Dichloroethylene	200	17.7		19		8.37		EPA 8260C
cis-1,3-Dichloropropylene	200	ND		ND				EPA 8260C
Dibromochloromethane	200	ND		ND				EPA 8260C
Dibromomethane	200	ND		ND				EPA 8260C
Dichlorodifluoromethane	200	ND		ND				EPA 8260C
Ethyl Benzene	200	ND		ND				EPA 8260C
Hexachlorobutadiene	200	ND		ND				EPA 8260C
Isopropylbenzene	200	ND		ND				EPA 8260C
Methyl tert-butyl ether (MTBE)	200	ND		ND				EPA 8260C
Methylene chloride	200	ND		ND				EPA 8260C
Naphthalene	200	ND		ND				EPA 8260C
n-Butylbenzene	200	ND		ND				EPA 8260C
n-Propylbenzene	200	ND		ND				EPA 8260C
o-Xylene	200	ND		ND				EPA 8260C
p- & m- Xylenes	200	ND		ND				EPA 8260C
p-Isopropyltoluene	200	ND		ND				EPA 8260C
sec-Butylbenzene	200	ND		ND				EPA 8260C
Styrene	200	ND		ND				EPA 8260C
tert-Butylbenzene	200	ND		ND				EPA 8260C

DUPLICATES

EPA 8260C

KC-MW-02 1013

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Laboratory ID: BK30107-DUP1

Batch: BK30107

Lab Source ID: 13J1044-02

Preparation: EPA 5030B

Initial/Final: 5 mL / 5 mL

Source Sample Name: KC-MW-02 1013

% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/L)	C	DUPLICATE CONCENTRATION (ug/L)	C	RPD %	Q	METHOD
Tetrachloroethylene	200	ND		ND				EPA 8260C
Toluene	200	ND		ND				EPA 8260C
trans-1,2-Dichloroethylene	200	ND		ND				EPA 8260C
trans-1,3-Dichloropropylene	200	ND		ND				EPA 8260C
Trichloroethylene	200	ND		2.7				EPA 8260C
Trichlorofluoromethane	200	ND		ND				EPA 8260C
Vinyl Chloride	200	ND		3.0				EPA 8260C
Xylenes, Total	200	ND		ND				EPA 8260C
Vinyl acetate	200	ND		ND				EPA 8260C
1,2-Dichloroethane-d4		48.5		48.5				EPA 8260C
p-Bromofluorobenzene		47.9		48.5				EPA 8260C
Toluene-d8		49.1		44.4				EPA 8260C

* Values outside of QC limits

Data File : G:\MSVOA2 V2\AILYDAT\V2110313\V233091B.D Vial: 18
 Acq On : 3 Nov 2013 7:15 pm Operator: SS
 Sample : BK30107-DUP1 Inst : MS VOA 2
 Misc : QBV2110313A pH<2 1044-02DUP 8260 ASPB Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:36 2013 Quant Results File: V2C00349.RES

Quant Method : G:\MSVOA2~1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration
 DataAcq Meth : V2C204A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) FLUOROBENZENE (ISTD)	5.72	70	374899	50.00	ppb	-0.02
35) CHLOROBENZENE-d5 (ISTD)	8.71	117	1009179	50.00	ppb	-0.01
64) 1,2-DICHLOROBENZENE-d4 (ISTD)	11.68	152	307346	50.00	ppb	-0.01

System Monitoring Compounds

31) d4-1,2-Dichloroethane (SURR)	5.42	65	306755	48.54	ppb	-0.01
Spiked Amount	50.000	Range	67 - 128	Recovery	=	97.08%
47) Toluene-d8 (SURR)	7.23	98	1266208	44.45	ppb	-0.02
Spiked Amount	50.000	Range	87 - 113	Recovery	=	88.90%
66) p-Bromofluorobenzene (SURR)	9.97	174	287092	48.50	ppb	-0.01
Spiked Amount	50.000	Range	63 - 166	Recovery	=	97.00%

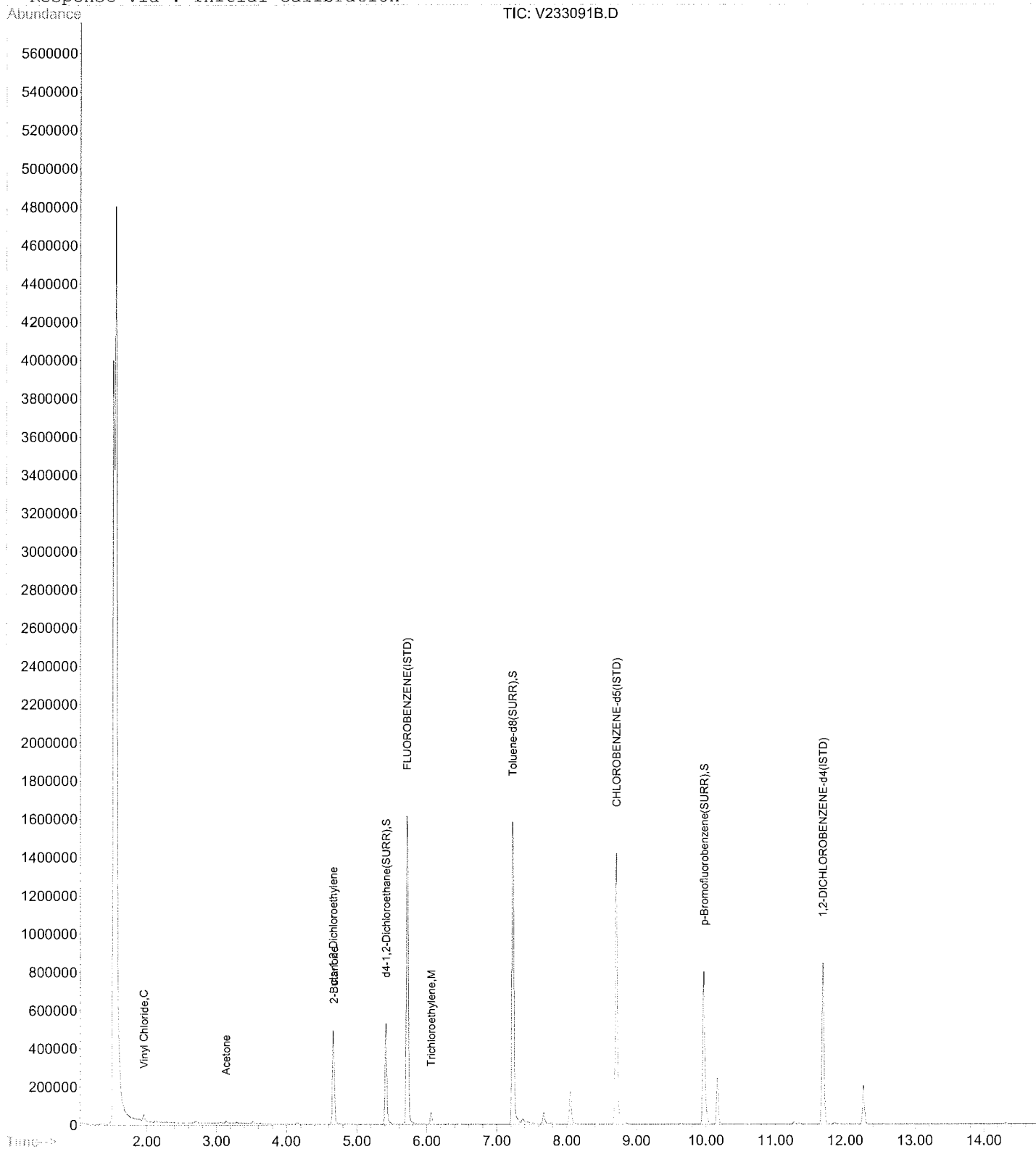
Target Compounds

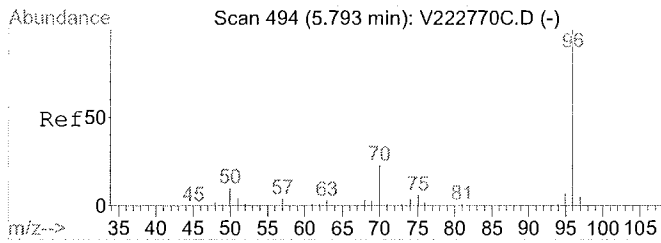
						Qvalue
4) Vinyl Chloride	1.96	62	38363	2.98	ppb	99
20) Acetone	3.14	43	12032	5.96	ppb	98
23) cis-1,2-Dichloroethylene	4.67	96	202752	19.29	ppb	# 100
24) 2-Butanone	4.69	43	5942	1.50	ppb	99
37) Trichloroethylene	6.06	95	23497	2.70	ppb	97

Quantitation Report

Data File : G:\MSVOA2 V2\DAI\LYDAT\V2110313\V233091B.D Vial: 18
 Acq On : 3 Nov 2013 7:15 pm Operator: SS
 Sample : BK30107-DUP1 Inst : MS VOA 2
 Misc : QBV2110313A pH<2 1044-02DUP 8260 ASPB Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Nov 4 13:36 2013 Quant Results File: V2C00349.RES

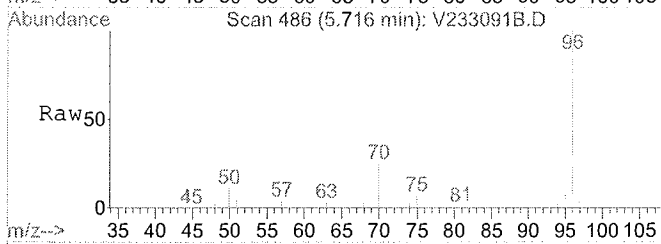
Method : C:\HPCHEM\1\METHODS\V2C00349.M (RTE Integrator)
 Title : VOCs BY GC/MS 8240/8260
 Last Update : Tue Oct 15 09:36:54 2013
 Response via : Initial Calibration



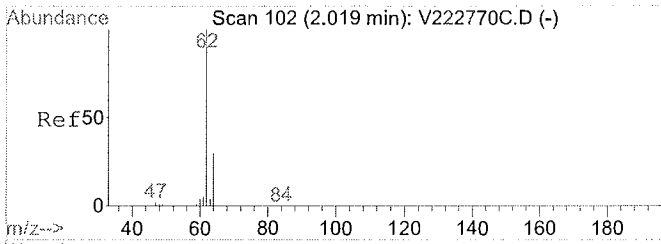
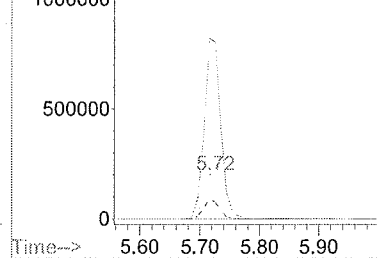
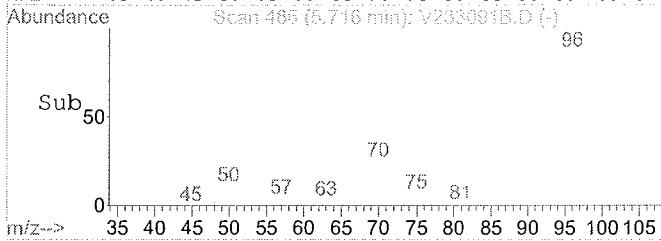


#1
 FLUOROBENZENE (ISTD)
 Concen: 50.00 ppb
 RT: 5.72 min Scan# 486
 Delta R.T. -0.02 min
 Lab File: V233091B.D
 Acq: 3 Nov 2013 7:15 pm

Tgt Ion:	70	Resp:	374899
Ion	Ratio	Lower	Upper
70	100		
96	423.2	359.2	538.8
70	100.0	80.0	120.0
50	0.0	0.0	0.0

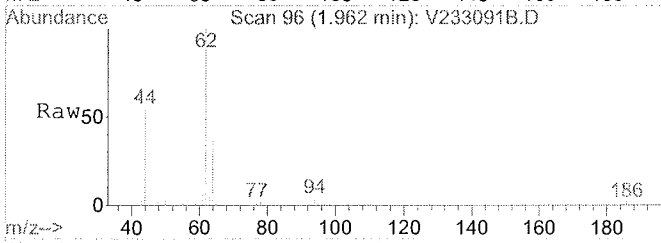


Abundance Ion 70.00 (69.70 to 70.70): V2
 Ion 96.00 (95.70 to 96.70): V2
 Ion 70.00 (69.70 to 70.70): V2
 Ion 50.00 (49.70 to 50.70): V2

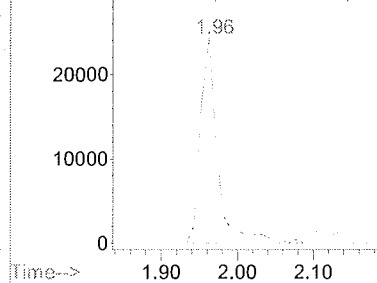
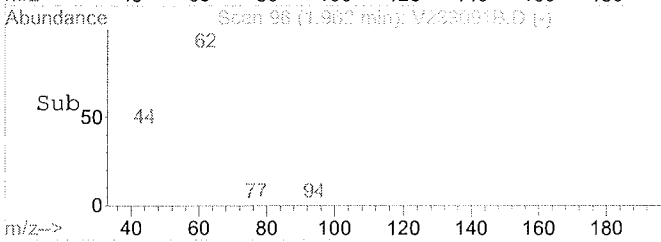


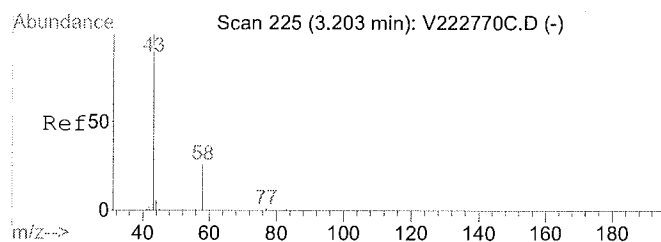
#4
 Vinyl Chloride
 Concen: 2.98 ppb
 RT: 1.96 min Scan# 96
 Delta R.T. -0.00 min
 Lab File: V233091B.D
 Acq: 3 Nov 2013 7:15 pm

Tgt Ion:	62	Resp:	38363
Ion	Ratio	Lower	Upper
62	100		
62	100.0	80.0	120.0
64	27.6	24.8	37.2

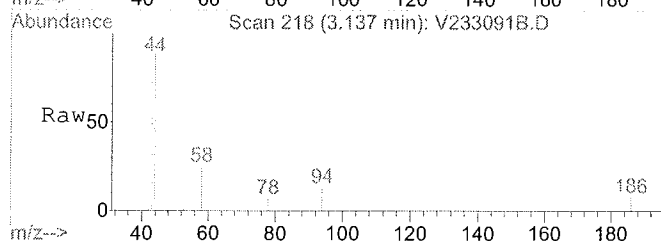


Abundance Ion 62.00 (61.70 to 62.70): V2
 Ion 62.00 (61.70 to 62.70): V2
 Ion 64.00 (63.05 to 64.95): V2

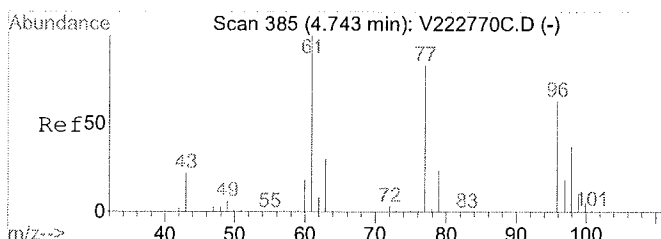
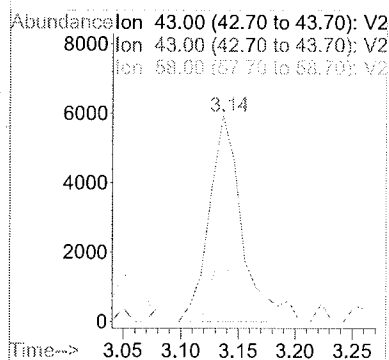
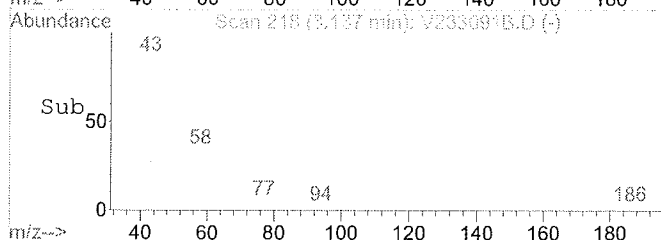




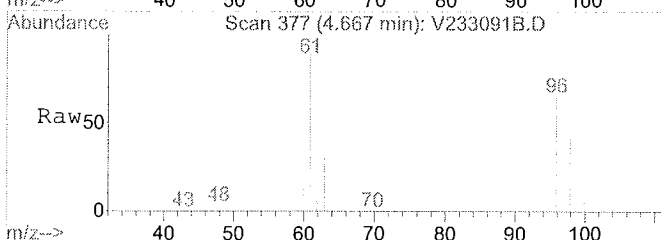
#20
Acetone
Concen: 5.96 ppb
RT: 3.14 min Scan# 218
Delta R.T. -0.00 min
Lab File: V233091B.D
Acq: 3 Nov 2013 7:15 pm



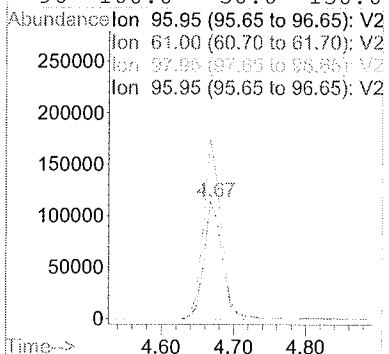
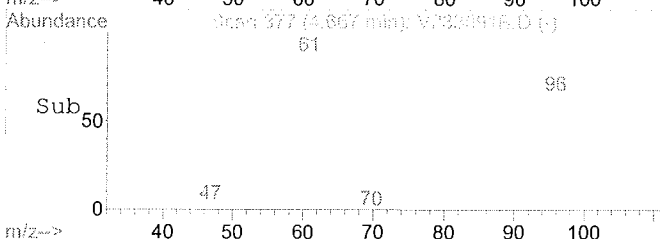
Tgt Ion: 43 Resp: 12032
Ion Ratio Lower Upper
43 100
43 100.0 0.0 200.0
58 34.7 0.0 60.6

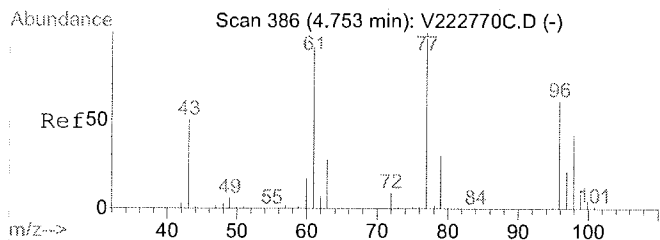


#23
cis-1,2-Dichloroethylene
Concen: 19.29 ppb
RT: 4.67 min Scan# 377
Delta R.T. -0.01 min
Lab File: V233091B.D
Acq: 3 Nov 2013 7:15 pm



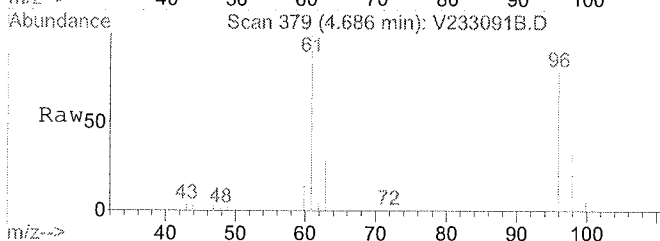
Tgt Ion: 96 Resp: 202752
Ion Ratio Lower Upper
96 100
61 0.0 0.0 0.0
98 61.2 30.8 92.4
96 100.0 50.0 150.0



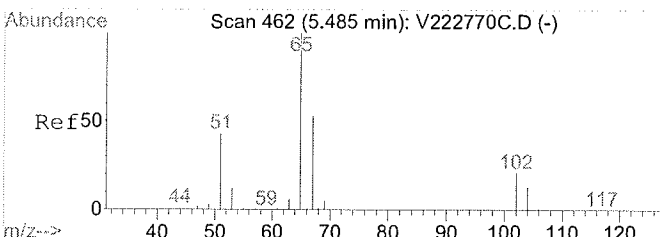
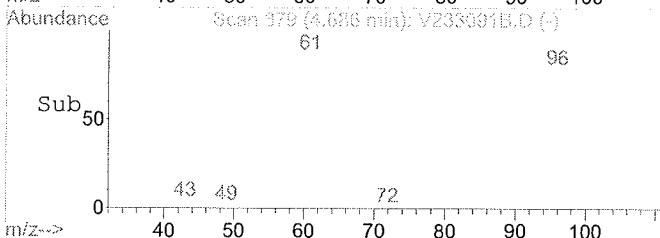
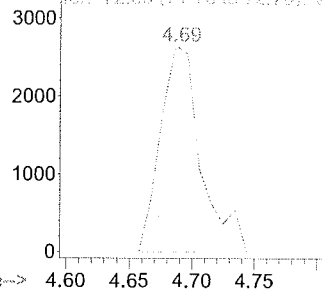


#24
2-Butanone
Concen: 1.50 ppb
RT: 4.69 min Scan# 379
Delta R.T. -0.01 min
Lab File: V233091B.D
Acq: 3 Nov 2013 7:15 pm

Tgt Ion: 43 Resp: 5942
Ion Ratio Lower Upper
43 100
43 100.0 60.0 140.0
72 16.8 0.0 37.6

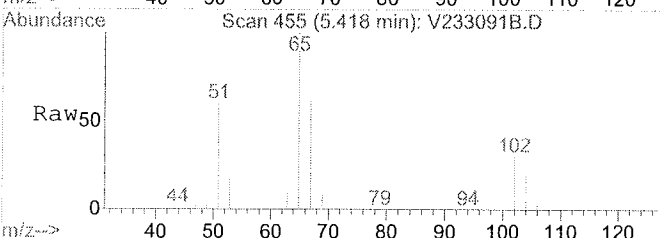


Abundance Ion 43.00 (42.70 to 43.70): V2
Ion 43.00 (42.70 to 43.70): V2
Ion 72.00 (71.70 to 72.70): V2

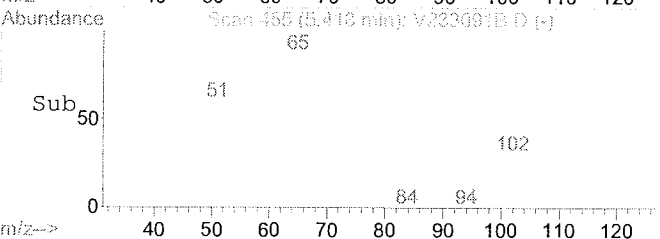
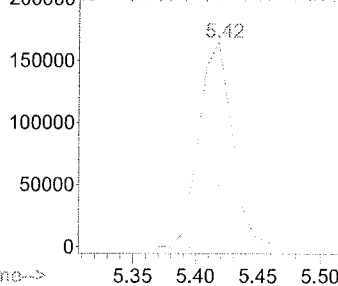


#31
d4-1,2-Dichloroethane (SURR)
Concen: N.D. ppb
RT: 5.42 min Scan# 455
Delta R.T. -0.01 min
Lab File: V233091B.D
Acq: 3 Nov 2013 7:15 pm

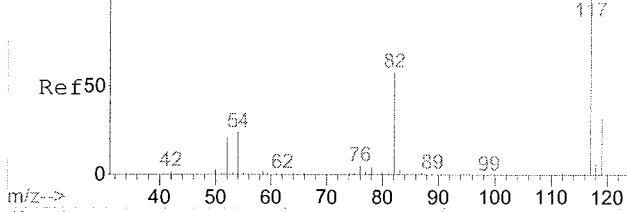
Tgt Ion: 65 Resp: 306755
Ion Ratio Lower Upper
65 100
65 100.0 80.0 120.0
102 28.6 24.2 36.4



Abundance Ion 65.00 (64.70 to 65.70): V2
Ion 65.00 (64.70 to 65.70): V2
Ion 102.00 (101.70 to 102.70): V2



Abundance Scan 804 (8.778 min): V222770C.D (-)



#35

CHLOROBENZENE-d5 (ISTD)

Concen: 50.00 ppb

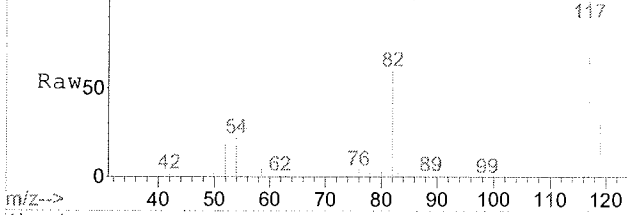
RT: 8.71 min Scan# 797

Delta R.T. -0.01 min

Lab File: V233091B.D

Acq: 3 Nov 2013 7:15 pm

Abundance Scan 797 (8.710 min): V233091B.D



Tgt Ion: 117 Resp: 1009179

Ion Ratio Lower Upper

117 100

117 100.0 80.0 120.0

82 0.0 0.0 0.0

119 31.1 25.2 37.8

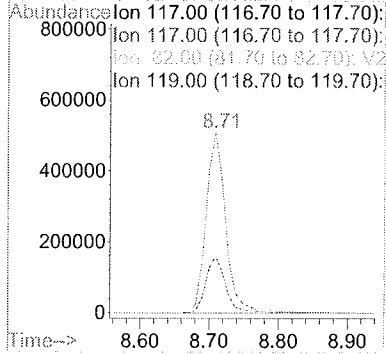
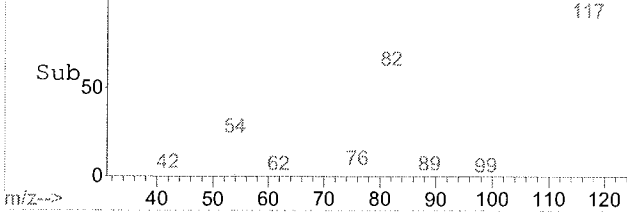
Abundance Ion 117.00 (116.70 to 117.70):

Ion 117.00 (116.70 to 117.70):

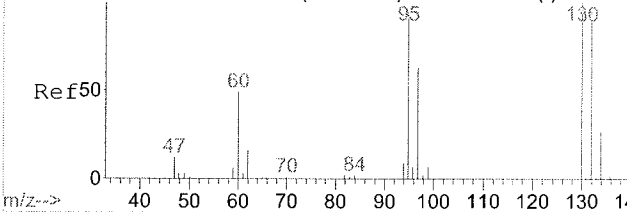
Ion 82.00 (81.70 to 82.70): V2

Ion 119.00 (118.70 to 119.70):

Abundance Scan 797 (8.710 min): V233091B.D (-)



Abundance Scan 529 (6.130 min): V222770C.D (-)



#37

Trichloroethylene

Concen: 2.70 ppb

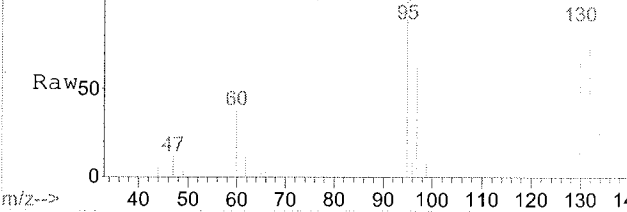
RT: 6.06 min Scan# 522

Delta R.T. -0.01 min

Lab File: V233091B.D

Acq: 3 Nov 2013 7:15 pm

Abundance Scan 522 (6.063 min): V233091B.D



Tgt Ion: 95 Resp: 23497

Ion Ratio Lower Upper

95 100

95 100.0 80.0 120.0

97 64.2 49.0 73.4

130 90.7 77.5 116.3

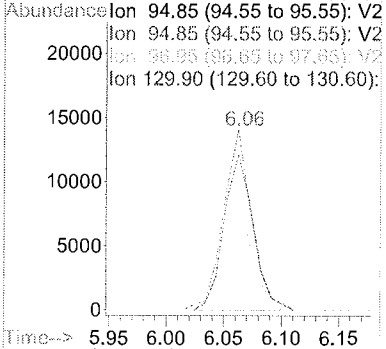
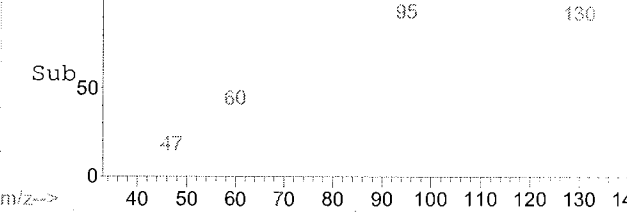
Abundance Ion 94.85 (94.55 to 95.55): V2

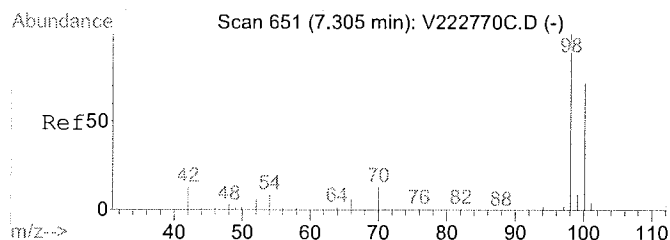
Ion 94.85 (94.55 to 95.55): V2

Ion 96.85 (96.55 to 97.55): V2

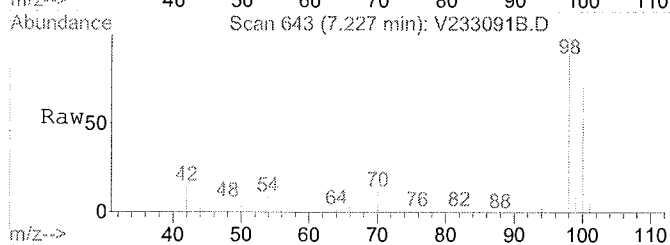
Ion 129.90 (129.60 to 130.60):

Abundance Scan 522 (6.063 min): V233091B.D (-)



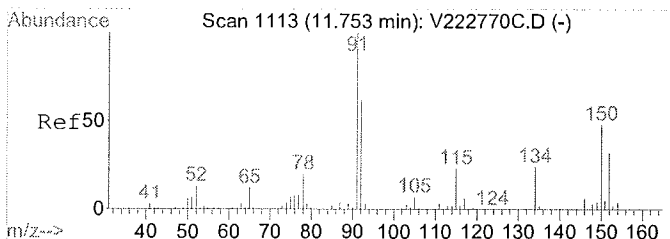
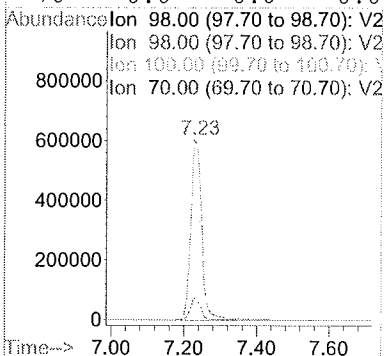
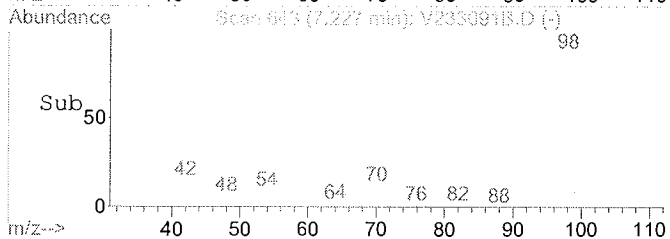


#47
Toluene-d8 (Surr)
Concen: N.D. ppb
RT: 7.23 min Scan# 643
Delta R.T. -0.02 min
Lab File: V233091B.D
Acq: 3 Nov 2013 7:15 pm

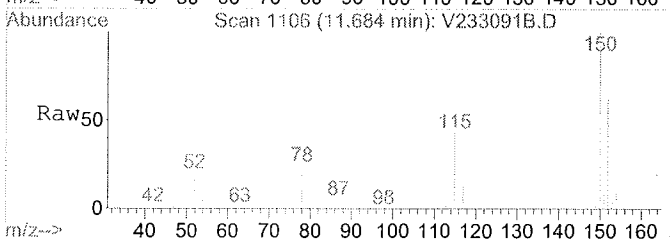


Tgt Ion: 98 Resp: 1266208

Ion	Ratio	Lower	Upper
98	100		
98	100.0	80.0	120.0
100	70.5	57.3	85.9
70	0.0	0.0	0.0

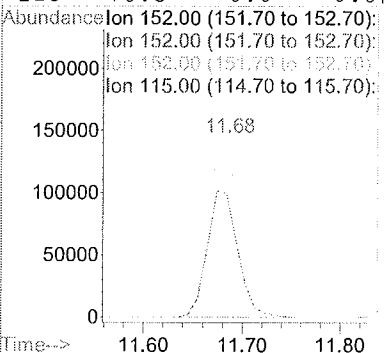
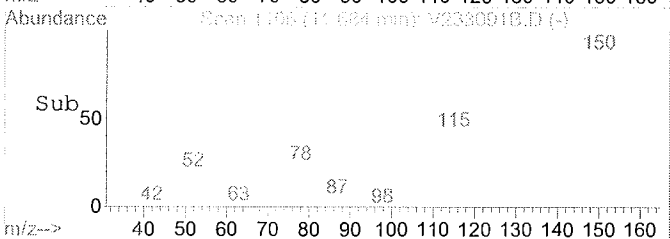


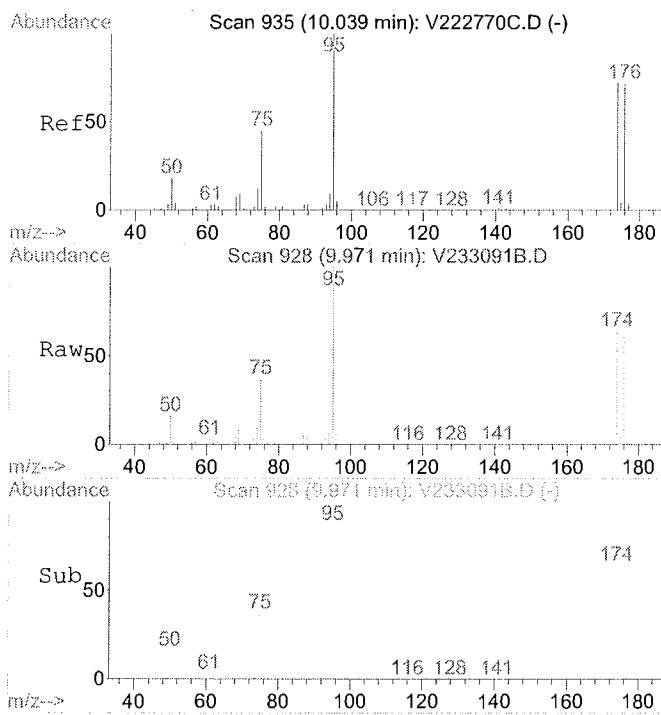
#64
1,2-DICHLOROBENZENE-d4 (Istd)
Concen: 50.00 ppb
RT: 11.68 min Scan# 1106
Delta R.T. -0.01 min
Lab File: V233091B.D
Acq: 3 Nov 2013 7:15 pm



Tgt Ion: 152 Resp: 307346

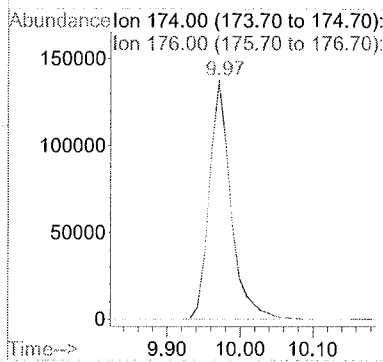
Ion	Ratio	Lower	Upper
152	100		
152	100.0	80.0	120.0
152	100.0	80.0	120.0
115	70.5	0.0	0.0#





#66
 p-Bromofluorobenzene (SURR)
 Concen: N.D. ppb
 RT: 9.97 min Scan# 928
 Delta R.T. -0.01 min
 Lab File: V233091B.D
 Acq: 3 Nov 2013 7:15 pm

Tgt Ion: 174 Resp: 287092
 Ion Ratio Lower Upper
 174 100
 176 97.4 75.0 112.4



PREPARATION BENCH SHEET

BK30107

York Analytical Laboratories, Inc.

Printed: 11/4/2013 1:20:13PM

Matrix: Water Prepared by: EPA 5030B

Surrogate used: Y10A009

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	pH Data			Decanted Y/N	Sample Comments
										Initial	Acid	Basic		
13J1026-01	Volatile Organics, 601/602/7	11/03/2013 09:00	SS	5	5				1		<2			
13J1026-02	Volatile Organics, 601/602/7	11/03/2013 09:00	SS	5	5				1		<2			
13J1027-01	Volatile Organics, NYCDEF	11/03/2013 09:00	SS	5	5				1		<2			
13J1039-01	Volatile Organics, CP-51 (fc	11/03/2013 09:00	SS	5	5				1		<2			
13J1039-02	Volatile Organics, CP-51 (fc	11/03/2013 09:00	SS	5	5				1		<2			
13J1041-01	Volatile Organics, CP-51 (fc	11/03/2013 09:00	SS	5	5				1		<2			
13J1041-02	Volatile Organics, CP-51 (fc	11/03/2013 09:00	SS	5	5				1		<2			
13J1044-01	Volatile Organics, 8260 List	11/03/2013 09:00	SS	5	5				1		<2			
13J1044-02	Volatile Organics, CP-51 (fc	11/03/2013 09:00	SS	5	5				1		<2		Added for BatchQC in:	
13J1044-02	Volatile Organics, 8260 List	11/03/2013 09:00	SS	5	5				1		<2			
13J1044-02	Volatile Organics, NYCDEF	11/03/2013 09:00	SS	5	5				1		<2		Added for BatchQC in:	
13J1044-02	Volatile Organics, 601/602/7	11/03/2013 09:00	SS	5	5				1		<2		Added for BatchQC in:	
13J1044-03	Volatile Organics, 8260 List	11/03/2013 09:00	SS	5	5				1		<2			
13J1044-04	Volatile Organics, 8260 List	11/03/2013 09:00	SS	5	5				1		<2			
13J1048-01	Volatile Organics, CP-51 (fc	11/03/2013 09:00	BK	5	5				1		<2		5 day firm	
13J1048-02	Volatile Organics, CP-51 (fc	11/03/2013 09:00	BK	5	5				1		<2		5 day firm	
BK30107-BLK1	QC	11/03/2013 09:00	SS	5	5				1					
BK30107-BS1	QC	11/03/2013 09:00	SS	5	5	Y10A022		5	1					
BK30107-BSD1	QC	11/03/2013 09:00	SS	5	5	Y10A022		5	1					
BK30107-DUP1	QC	11/03/2013 09:00	SS	5	5		13J1044-02		1					

Batch Comments:

PREPARATION BENCH SHEET

BK30269

Printed: 11/7/2013 11:02:19AM

York Analytical Laboratories, Inc.

Surrogate used: Y10A009

Prepared by: EPA 5035A

Lab Number	Matrix: Soil	Analysis	Prepared	By	Initial (g)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	pH Data			Decanted Y/N	Sample Comments
											Initial	Acid	Basic		
13K0002-01		Volatile Organics, CP-51 (fc)	11/06/2013 15:1	BK	5.57	5				1					
13K0002-02		Volatile Organics, CP-51 (fc)	11/06/2013 15:1	BK	7.28	5				1					
13K0002-03		Volatile Organics, CP-51 (fc)	11/06/2013 15:1	BK	7.1	5				1					
13K0002-04		Volatile Organics, CP-51 (fc)	11/06/2013 15:1	BK	6.96	5				1					
13K0010-03		Volatile Organics, 8260 List	11/06/2013 15:1	BK	1.94	5				1					
13K0072-01		Volatile Organics, CT RCP	11/06/2013 15:1	BK	15.67	5				1					
13K0072-02		Volatile Organics, CT RCP	11/06/2013 15:1	BK	16.73	5				1					
13K0072-03		Volatile Organics, CT RCP	11/06/2013 15:1	BK	14.31	5				1					
13K0072-04		Volatile Organics, CT RCP	11/06/2013 15:1	BK	16.25	5				1					
13K0072-05		Volatile Organics, CT RCP	11/06/2013 15:1	BK	15.15	5				1					
13K0072-06		Volatile Organics, CT RCP	11/06/2013 15:1	BK	15.85	5				1					Added for BatchQC in:
13K0072-07		Volatile Organics, CP-51 (fc)	11/06/2013 15:1	BK	16.85	5				1					
13K0072-07		Volatile Organics, CT RCP	11/06/2013 15:1	BK	16.85	5				1					Added for BatchQC in:
13K0072-07		Volatile Organics, 8260 List	11/06/2013 15:1	BK	16.85	5				1					
13K0072-08		Volatile Organics, CT RCP	11/06/2013 15:1	BK	16.01	5				1					
13K0072-09		Volatile Organics, CT RCP	11/06/2013 15:1	BK	15.52	5				1					
BK30269-BLK1		QC	11/06/2013 12:1	BK	5	5				1					
BK30269-BS1		QC	11/06/2013 12:1	BK	5	5	Y10A022		5	1					
BK30269-BSD1		QC	11/06/2013 12:1	BK	5	5	Y10A022		5	1					
BK30269-MS1		QC	11/06/2013 12:1	BK	14.94	5	Y10A022	13K0072-07	5	1					
BK30269-MSD1		QC	11/06/2013 12:1	BK	19.08	5	Y10A022	13K0072-07	5	1					

Injection Log

Directory: g:\msvoa2~1\dailydat\2110313

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	v233074b.d	1.	BLK	QBV2110313A	3 Nov 13 09:14
2	2	v233075b.d	1.	BLK	QBV2110313A	3 Nov 13 09:50
3	3	v233076c.d	1.	50ppb VOA CAL CHECK STD	QBV2110313A	3 Nov 13 10:25
4	4	v233077c.d	1.	50ppb VOA CAL CHECK STD	QBV2110313A	3 Nov 13 11:00
5	5	v233078l.d	1.	BK30107-BS1	QBV2110313A	3 Nov 13 11:36
6	6	v233079u.d	1.	BK30107-BSD1	QBV2110313A	3 Nov 13 12:11
7	7	v233080b.d	1.	BK30107-BLK1	QBV2110313A	3 Nov 13 12:47
8	8	v233081b.d	1.	13J1026-01	QBV2110313A pH<2 601/602/MTBE	3 Nov 13 13:22
9	9	v233082b.d	1.	13J1026-02	QBV2110313A pH<2 601/602/MTBE	3 Nov 13 13:57
10	10	v233083b.d	1.	13J1027-01	QBV2110313A pH<2 NYCDEP SEWER	3 Nov 13 14:33
11	11	v233084b.d	1.	13J1039-01	QBV2110313A pH<2 CP51	3 Nov 13 15:08
12	12	v233085b.d	1.	13J1039-02	QBV2110313A pH<2 CP51	3 Nov 13 15:43
13	13	v233086b.d	1.	13J1041-01	QBV2110313A pH<2 CP51	3 Nov 13 16:18
14	14	v233087b.d	1.	13J1041-02	QBV2110313A pH<2 CP51	3 Nov 13 16:53
15	15	v233088b.d	1.	13J1048-01	QBV2110313A pH<2 CP51	3 Nov 13 17:29
16	16	v233089b.d	1.	13J1048-02	QBV2110313A pH<2 CP51	3 Nov 13 18:04
17	17	v233090b.d	1.	(A) 13J1044-01 <i>12000349.1</i>	QBV2110313A pH<2 8260 ASPB	3 Nov 13 18:39
18	18	v233091b.d	1.	BK30107-DUP1	QBV2110313A pH<2 1044-02DUP 8260 ASPB	3 Nov 13 19:15
19	19	v233092b.d	1.	13J1044-02	QBV2110313A pH<2 8260 ASPB	3 Nov 13 19:50
20	20	v233093b.d	1.	13J1044-03	QBV2110313A pH<2 8260 ASPB	3 Nov 13 20:25
21	21	v233094b.d	1.	13J1044-04	QBV2110313A pH<2 8260 ASPB	3 Nov 13 21:01

Injection Log

Directory: g:\msvoa2~1\dailydat\2110613

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	v233174c.d	1.	50 ppb VOA CAL CHECK STD	QBV2110613A	6 Nov 13 07:45
2	2	v233175i.d	1.	BK30233-BS1	QBV2110613A	6 Nov 13 08:22
3	3	v233176u.d	1.	BK30233-BSD1	QBV2110613A	6 Nov 13 08:57
4	4	v233177b.d	1.	BK30233-BLK1	QBV2110613A	6 Nov 13 09:32
5	5	v233178w.d	1.	13K0096-01	QBV2110613A CP51	6 Nov 13 10:07
6	6	v233179w.d	1.	13K0096-02	QBV2110613A CP51	6 Nov 13 10:43
7	7	v233180w.d	25.	1J1044-01RE1	QBV2110613A 8260 ASPB RE 2ML/50ML	6 Nov 13 11:18
8	8	v233181w.d	1.	13J1072-01	QBV2110613A CP51 QA	6 Nov 13 11:53
9	9	v233182w.d	10.	13J1072-02	QBV2110613A CP51 QA 5ML/50ML	6 Nov 13 12:28
10	10	v233183w.d	1.	13J1072-03	QBV2110613A CP51 QA	6 Nov 13 13:03
11	11	v233184s.d	100.	13J1122-02RE1	QBV2110613A NYSDEC 375 ASPB 26.73g	6 Nov 13 13:39
12	12	v233185s.d	1.	13K0013-01	QBV2110613A 8260 2.41g	6 Nov 13 14:14
13	12	v233186s.d	1.	13K0013-02	QBV2110613A 8260 3.18g	6 Nov 13 14:49
14	14	v233187s.d	1.	13K0013-03	QBV2110613A 8260 1.97g	6 Nov 13 15:25
15	15	v233188s.d	1.	13K0013-04	QBV2110613A 8260 2.51g	6 Nov 13 16:00
16	16	v233189s.d	1.	13K0013-05	QBV2110613A 8260 2.08g	6 Nov 13 16:36
17	17	v233190m.d	1.	BJ30233-MS1	QBV2110613A 096-01 MS1	6 Nov 13 17:11
18	18	v233191m.d	1.	BJ30253-MS1	QBV2110613A 1122-02 100UL/5ML 26.73g	6 Nov 13 17:46
19	19	v233192c.d	1.	50 ppb VOA CAL CHECK STD	QBV2110613A 1122-02 100UL/5ML 26.73g	6 Nov 13 18:22
20	20	v233193c.d	1.	50 ppb VOA CAL CHECK STD	QBV2110613A 1122-02 100UL/5ML 26.73g	6 Nov 13 18:57
21	21	v233194i.d	1.	BK30269-BS1	QBV2110613A 1122-02 100UL/5ML 26.73g	6 Nov 13 19:32
22	22	v233195u.d	1.	BK30269-BSD1	QBV2110613A 1122-02 100UL/5ML 26.73g	6 Nov 13 20:07
23	23	v233196b.d	1.	BK30269-BLK1	QBV2110613A 1122-02 100UL/5ML 26.73g	6 Nov 13 20:43
24	24	v233197s.d	1.	13K0010-03	QBV2110613B 8260 1.94g	6 Nov 13 21:18
25	25	v233198s.d	1.	13K0002-01	QBV2110613B CP51 5.57g	6 Nov 13 21:53
26	26	v233199s.d	1.	13K0002-02	QBV2110613B CP51 7.28g	6 Nov 13 22:28
27	27	v233200s.d	1.	13K0002-03	QBV2110613B CP51 7.10g	6 Nov 13 23:04
28	28	v233201s.d	1.	13K0002-04	QBV2110613B CP51 6.96g	6 Nov 13 23:39
29	29	v233202s.d	100.	13K0072-01	QBV2110613B CT RCP 15.67g 100UL/5ML	7 Nov 13 00:14
30	30	v233203s.d	100.	13K0072-02	QBV2110613B CT RCP 16.73 100UL/5ML	7 Nov 13 00:50
31	31	v233204s.d	100.	13K0072-03	QBV2110613B CT RCP 14.31g 100UL/5ML	7 Nov 13 01:25
32	32	v233205s.d	100.	13K0072-04	QBV2110613B CT RCP 16.25g 100UL/5ML	7 Nov 13 02:00
33	33	v233206s.d	100.	13K0072-05	QBV2110613B CT RCP 15.15g 100UL/5ML	7 Nov 13 02:35
34	34	v233207s.d	100.	13K0072-06	QBV2110613B CT RCP 15.85g 100UL/5ML	7 Nov 13 03:11
35	35	v233208s.d	100.	13K0072-07	QBV2110613B CT RCP 16.85g 100UL/5ML	7 Nov 13 03:46
36	36	v233209s.d	100.	13K0072-08	QBV2110613B CT RCP 16.01g 100UL/5ML	7 Nov 13 04:21
37	37	v233210s.d	100.	13K0072-09	QBV2110613B CT RCP 15.52g 100UL/5ML	7 Nov 13 04:57
38	38	v233211m.d	1.	BK30269-MS1	QBV2110613B 072-07 MS1 100UL/5ML 14.94g	7 Nov 13 05:32
39	39	v233212d.d	1.	BK30269-MSD1	QBV2110613B 072-07 MS1 100UL/5ML 14.08g	7 Nov 13 06:07

York Analytical Laboratories, Inc.

SDG: 13J1044

CLASS: METALS

METHOD: EPA 6010C

DATA PACKAGE COVER PAGE

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Client Sample Id:

KC-MW-01 1013

KC-MW-02 1013

KC-MW-05 1013

KC-FD-01 1013

Lab Sample Id:

13J1044-01

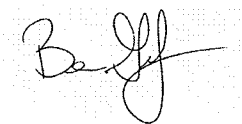
13J1044-02

13J1044-03

13J1044-04

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 in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:



Name:

Benjamin Gulizia

Date:

1/15/2014

Title:

Laboratory Director

FORM I

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

KC-MW-01 1013

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 13J1044-01File ID: qbi103013a-040Sampled: 10/25/13 17:00Prepared: 10/30/13 08:25Analyzed: 10/30/13 13:11Solids: 0.00Preparation: EPA 3010AInitial/Final: 50 mL / 50 mLBatch: BJ31394Sequence: Y3J3108Calibration: 10/30/13 1Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.005	1	U	EPA 6010C
7440-38-2	Arsenic	0.007	1		EPA 6010C
7440-41-7	Beryllium	0.001	1	U	EPA 6010C
7440-43-9	Cadmium	0.033	1		EPA 6010C
7440-47-3	Chromium	0.008	1		EPA 6010C
7440-50-8	Copper	0.020	1		EPA 6010C
7439-92-1	Lead	0.003	1		EPA 6010C
7440-02-0	Nickel	0.477	1		EPA 6010C
7782-49-2	Selenium	0.010	1	U	EPA 6010C
7440-22-4	Silver	0.005	1	U	EPA 6010C
7440-28-0	Thallium	0.005	1	U	EPA 6010C
7440-66-6	Zinc	0.104	1		EPA 6010C

FORM I

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

KC-MW-02 1013

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 13J1044-02File ID: qbi103013a-043Sampled: 10/25/13 16:50Prepared: 10/30/13 08:25Analyzed: 10/30/13 13:29Solids: 0.00Preparation: EPA 3010AInitial/Final: 50 mL / 50 mLBatch: BJ31394Sequence: Y3J3108Calibration: 10/30/13 1Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.005	1	U	EPA 6010C
7440-38-2	Arsenic	0.043	1		EPA 6010C
7440-41-7	Beryllium	0.005	1		EPA 6010C
7440-43-9	Cadmium	0.030	1		EPA 6010C
7440-47-3	Chromium	0.160	1		EPA 6010C
7440-50-8	Copper	0.452	1		EPA 6010C
7439-92-1	Lead	0.267	1		EPA 6010C
7440-02-0	Nickel	0.367	1		EPA 6010C
7782-49-2	Selenium	0.016	1		EPA 6010C
7440-22-4	Silver	0.005	1	U	EPA 6010C
7440-28-0	Thallium	0.005	1	U	EPA 6010C
7440-66-6	Zinc	0.856	1		EPA 6010C

FORM I

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

KC-MW-05 1013

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 13J1044-03File ID: qbi103013a-044Sampled: 10/25/13 16:40Prepared: 10/30/13 08:25Analyzed: 10/30/13 13:34Solids: 0.00Preparation: EPA 3010AInitial/Final: 50 mL / 50 mLBatch: BJ31394Sequence: Y3J3108Calibration: 10/30/13 1Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.005	1	U	EPA 6010C
7440-38-2	Arsenic	0.004	1	U	EPA 6010C
7440-41-7	Beryllium	0.001	1	U	EPA 6010C
7440-43-9	Cadmium	0.003	1	U	EPA 6010C
7440-47-3	Chromium	0.005	1	U	EPA 6010C
7440-50-8	Copper	0.005	1		EPA 6010C
7439-92-1	Lead	0.003	1	U	EPA 6010C
7440-02-0	Nickel	0.012	1		EPA 6010C
7782-49-2	Selenium	0.010	1	U	EPA 6010C
7440-22-4	Silver	0.005	1	U	EPA 6010C
7440-28-0	Thallium	0.005	1	U	EPA 6010C
7440-66-6	Zinc	0.029	1		EPA 6010C

FORM I

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

KC-FD-01 1013

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 13J1044-04File ID: qbi103013a-045Sampled: 10/25/13 15:00Prepared: 10/30/13 08:25Analyzed: 10/30/13 13:40Solids: 0.00Preparation: EPA 3010AInitial/Final: 50 mL / 50 mLBatch: BJ31394Sequence: Y3J3108Calibration: 10/30/13 1Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.005	1	U	EPA 6010C
7440-38-2	Arsenic	0.004	1		EPA 6010C
7440-41-7	Beryllium	0.001	1	U	EPA 6010C
7440-43-9	Cadmium	0.003	1	U	EPA 6010C
7440-47-3	Chromium	0.005	1	U	EPA 6010C
7440-50-8	Copper	0.004	1		EPA 6010C
7439-92-1	Lead	0.004	1		EPA 6010C
7440-02-0	Nickel	0.012	1		EPA 6010C
7782-49-2	Selenium	0.010	1	U	EPA 6010C
7440-22-4	Silver	0.005	1	U	EPA 6010C
7440-28-0	Thallium	0.005	1	U	EPA 6010C
7440-66-6	Zinc	0.029	1		EPA 6010C

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument ID: WinLabICP

Calibration: 10/30/13

Control Limit: +/- 10.00%

Sequence: Y3J3108

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y3J3108-ICV1	Antimony	0.250	0.256	102	ug/mL	EPA 6010C
	Arsenic	0.250	0.245	98.0	ug/mL	EPA 6010C
	Beryllium	0.250	0.249	99.6	ug/mL	EPA 6010C
	Cadmium	0.125	0.124	99.0	ug/mL	EPA 6010C
	Chromium	1.00	1.01	101	ug/mL	EPA 6010C
	Copper	1.25	1.23	98.7	ug/mL	EPA 6010C
	Lead	0.250	0.252	101	ug/mL	EPA 6010C
	Nickel	2.50	2.48	99.4	ug/mL	EPA 6010C
	Selenium	0.250	0.250	99.9	ug/mL	EPA 6010C
	Silver	1.25	1.23	98.6	ug/mL	EPA 6010C
	Thallium	0.250	0.249	99.8	ug/mL	EPA 6010C
	Zinc	2.50	2.53	101	ug/mL	EPA 6010C
Y3J3108-CCV1	Antimony	0.250	0.256	102	ug/mL	EPA 6010C
	Arsenic	0.250	0.249	99.7	ug/mL	EPA 6010C
	Beryllium	0.250	0.249	99.5	ug/mL	EPA 6010C
	Cadmium	0.125	0.124	99.6	ug/mL	EPA 6010C
	Chromium	1.00	1.01	101	ug/mL	EPA 6010C
	Copper	1.25	1.24	99.0	ug/mL	EPA 6010C
	Lead	0.250	0.255	102	ug/mL	EPA 6010C
	Nickel	2.50	2.49	99.5	ug/mL	EPA 6010C
	Selenium	0.250	0.253	101	ug/mL	EPA 6010C
	Silver	1.25	1.24	99.0	ug/mL	EPA 6010C
	Thallium	0.250	0.253	101	ug/mL	EPA 6010C
	Zinc	2.50	2.54	102	ug/mL	EPA 6010C
Y3J3108-CCV2	Antimony	0.250	0.253	101	ug/mL	EPA 6010C
	Arsenic	0.250	0.248	99.3	ug/mL	EPA 6010C
	Beryllium	0.250	0.252	101	ug/mL	EPA 6010C
	Cadmium	0.125	0.126	101	ug/mL	EPA 6010C
	Chromium	1.00	1.02	102	ug/mL	EPA 6010C
	Copper	1.25	1.25	100	ug/mL	EPA 6010C
	Lead	0.250	0.256	102	ug/mL	EPA 6010C
	Nickel	2.50	2.53	101	ug/mL	EPA 6010C
	Selenium	0.250	0.251	101	ug/mL	EPA 6010C
	Silver	1.25	1.25	100	ug/mL	EPA 6010C
	Thallium	0.250	0.252	101	ug/mL	EPA 6010C
	Zinc	2.50	2.57	103	ug/mL	EPA 6010C
Y3J3108-CCV3	Antimony	0.250	0.251	100	ug/mL	EPA 6010C
	Arsenic	0.250	0.247	99.0	ug/mL	EPA 6010C

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument ID: WinLabICP

Calibration: 10/30/13

Control Limit: +/- 10.00%

Sequence: Y3J3108

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y3J3108-CCV3	Beryllium	0.250	0.250	99.9	ug/mL	EPA 6010C
	Cadmium	0.125	0.125	100	ug/mL	EPA 6010C
	Chromium	1.00	1.02	102	ug/mL	EPA 6010C
	Copper	1.25	1.24	99.6	ug/mL	EPA 6010C
	Lead	0.250	0.255	102	ug/mL	EPA 6010C
	Nickel	2.50	2.50	100	ug/mL	EPA 6010C
	Selenium	0.250	0.253	101	ug/mL	EPA 6010C
	Silver	1.25	1.24	99.3	ug/mL	EPA 6010C
	Thallium	0.250	0.251	100	ug/mL	EPA 6010C
	Zinc	2.50	2.56	102	ug/mL	EPA 6010C
Y3J3108-CCV4	Antimony	0.250	0.247	99.0	ug/mL	EPA 6010C
	Arsenic	0.250	0.248	99.1	ug/mL	EPA 6010C
	Beryllium	0.250	0.252	101	ug/mL	EPA 6010C
	Cadmium	0.125	0.126	101	ug/mL	EPA 6010C
	Chromium	1.00	1.02	102	ug/mL	EPA 6010C
	Copper	1.25	1.22	98.0	ug/mL	EPA 6010C
	Lead	0.250	0.256	102	ug/mL	EPA 6010C
	Nickel	2.50	2.49	99.5	ug/mL	EPA 6010C
	Selenium	0.250	0.248	99.2	ug/mL	EPA 6010C
	Silver	1.25	1.24	98.8	ug/mL	EPA 6010C
	Thallium	0.250	0.250	100	ug/mL	EPA 6010C
	Zinc	2.50	2.60	104	ug/mL	EPA 6010C
Y3J3108-CCV5	Antimony	0.250	0.250	100	ug/mL	EPA 6010C
	Arsenic	0.250	0.248	99.3	ug/mL	EPA 6010C
	Beryllium	0.250	0.255	102	ug/mL	EPA 6010C
	Cadmium	0.125	0.129	103	ug/mL	EPA 6010C
	Chromium	1.00	1.03	103	ug/mL	EPA 6010C
	Copper	1.25	1.19	94.9	ug/mL	EPA 6010C
	Lead	0.250	0.258	103	ug/mL	EPA 6010C
	Nickel	2.50	2.46	98.6	ug/mL	EPA 6010C
	Selenium	0.250	0.250	100	ug/mL	EPA 6010C
	Silver	1.25	1.22	97.7	ug/mL	EPA 6010C
	Thallium	0.250	0.249	99.5	ug/mL	EPA 6010C
	Zinc	2.50	2.67	107	ug/mL	EPA 6010C

* Values outside of QC limits

CRDL STANDARD**EPA 6010C**Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSInstrument ID: WinLabICPCalibration: 10/30/13Sequence: Y3J3108

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limits
Y3J3108-CRL1	Antimony	0.0100	0.012	122	ug/mL	10 - 190
	Arsenic	0.0100	0.008	77.5	ug/mL	10 - 190
	Beryllium	0.00500	0.005	98.4	ug/mL	10 - 190
	Cadmium	0.00500	0.005	101	ug/mL	10 - 190
	Chromium	0.00500	0.005	107	ug/mL	10 - 190
	Copper	0.00500	0.006	120	ug/mL	10 - 190
	Lead	0.00500	0.004	82.6	ug/mL	10 - 190
	Nickel	0.00500	0.005	94.7	ug/mL	10 - 190
	Selenium	0.0100	0.007	65.1	ug/mL	10 - 190
	Silver	0.00500	0.005	102	ug/mL	10 - 190
	Thallium	0.0100	0.009	88.6	ug/mL	10 - 190
	Zinc	0.00500	0.006	119	ug/mL	10 - 190
Y3J3108-CRL2	Antimony	0.0100	0.011	106	ug/mL	10 - 190
	Arsenic	0.0100	0.008	83.3	ug/mL	10 - 190
	Beryllium	0.00500	0.005	103	ug/mL	10 - 190
	Cadmium	0.00500	0.005	108	ug/mL	10 - 190
	Chromium	0.00500	0.006	110	ug/mL	10 - 190
	Copper	0.00500	0.004	82.3	ug/mL	10 - 190
	Lead	0.00500	0.006	124	ug/mL	10 - 190
	Nickel	0.00500	0.004	76.0	ug/mL	10 - 190
	Selenium	0.0100	0.008	80.6	ug/mL	10 - 190
	Silver	0.00500	0.005	95.6	ug/mL	10 - 190
	Thallium	0.0100	0.010	96.0	ug/mL	10 - 190
	Zinc	0.00500	0.006	129	ug/mL	10 - 190

* Values outside of QC limits

FORM I

BLANKS
EPA 6010CLaboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Instrument ID: WinLabICPProject: 41103.00 Kingston CVSSequence: Y3J3108Calibration: 10/30/13 Q

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y3J3108-ICB1	Antimony	0.003	0.005	ug/mL		EPA 6010C
	Arsenic	-0.002	0.004	ug/mL		EPA 6010C
	Beryllium	0.000005	0.001	ug/mL		EPA 6010C
	Cadmium	-0.00001	0.003	ug/mL		EPA 6010C
	Chromium	0.00006	0.005	ug/mL		EPA 6010C
	Copper	0.0006	0.003	ug/mL		EPA 6010C
	Lead	0.0002	0.003	ug/mL		EPA 6010C
	Nickel	-0.0007	0.005	ug/mL		EPA 6010C
	Selenium	-0.002	0.010	ug/mL		EPA 6010C
	Silver	0.0001	0.005	ug/mL		EPA 6010C
	Thallium	-0.0005	0.005	ug/mL		EPA 6010C
	Zinc	0.0004	0.010	ug/mL		EPA 6010C
Y3J3108-CCB1	Antimony	0.002	0.005	ug/mL		EPA 6010C
	Arsenic	-0.0009	0.004	ug/mL		EPA 6010C
	Beryllium	0.000009	0.001	ug/mL		EPA 6010C
	Cadmium	0.00006	0.003	ug/mL		EPA 6010C
	Chromium	0.0001	0.005	ug/mL		EPA 6010C
	Copper	0.0002	0.003	ug/mL		EPA 6010C
	Lead	0.0004	0.003	ug/mL		EPA 6010C
	Nickel	-0.0008	0.005	ug/mL		EPA 6010C
	Selenium	-0.002	0.010	ug/mL		EPA 6010C
	Silver	0.0002	0.005	ug/mL		EPA 6010C
	Thallium	-0.0004	0.005	ug/mL		EPA 6010C
	Zinc	0.0002	0.010	ug/mL		EPA 6010C
Y3J3108-CCB2	Antimony	0.002	0.005	ug/mL		EPA 6010C
	Arsenic	-0.001	0.004	ug/mL		EPA 6010C
	Beryllium	-0.00002	0.001	ug/mL		EPA 6010C
	Cadmium	0.00003	0.003	ug/mL		EPA 6010C
	Chromium	0.0001	0.005	ug/mL		EPA 6010C
	Copper	0.0004	0.003	ug/mL		EPA 6010C
	Lead	0.001	0.003	ug/mL		EPA 6010C
	Nickel	-0.0008	0.005	ug/mL		EPA 6010C
	Selenium	-0.004	0.010	ug/mL		EPA 6010C

FORM I

BLANKS
EPA 6010CLaboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Instrument ID: WinLabICPProject: 41103.00 Kingston CVSSequence: Y3J3108Calibration: 10/30/13 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y3J3108-CCB2	Silver	0.0002	0.005	ug/mL		EPA 6010C
	Thallium	-0.0004	0.005	ug/mL		EPA 6010C
	Zinc	0.0001	0.010	ug/mL		EPA 6010C
BJ31394-BLK1	Antimony	0.0005	0.005	mg/L		EPA 6010C
	Arsenic	-0.002	0.004	mg/L		EPA 6010C
	Beryllium	-0.00001	0.001	mg/L		EPA 6010C
	Cadmium	-0.000001	0.003	mg/L		EPA 6010C
	Chromium	0.00006	0.005	mg/L		EPA 6010C
	Copper	0.0005	0.003	mg/L		EPA 6010C
	Lead	-0.0005	0.003	mg/L		EPA 6010C
	Nickel	-0.0007	0.005	mg/L		EPA 6010C
	Selenium	-0.001	0.010	mg/L		EPA 6010C
	Silver	0.0001	0.005	mg/L		EPA 6010C
	Thallium	-0.0007	0.005	mg/L		EPA 6010C
	Zinc	0.00008	0.010	mg/L		EPA 6010C
Y3J3108-CCB3	Antimony	0.002	0.005	ug/mL		EPA 6010C
	Arsenic	-0.0005	0.004	ug/mL		EPA 6010C
	Beryllium	0.00002	0.001	ug/mL		EPA 6010C
	Cadmium	-0.00005	0.003	ug/mL		EPA 6010C
	Chromium	0.00007	0.005	ug/mL		EPA 6010C
	Copper	0.0005	0.003	ug/mL		EPA 6010C
	Lead	0.0004	0.003	ug/mL		EPA 6010C
	Nickel	-0.0005	0.005	ug/mL		EPA 6010C
	Selenium	-0.002	0.010	ug/mL		EPA 6010C
	Silver	0.0002	0.005	ug/mL		EPA 6010C
	Thallium	-0.001	0.005	ug/mL		EPA 6010C
	Zinc	0.0002	0.010	ug/mL		EPA 6010C
Y3J3108-CCB4	Antimony	0.003	0.005	ug/mL		EPA 6010C
	Arsenic	-0.002	0.004	ug/mL		EPA 6010C
	Beryllium	0.00004	0.001	ug/mL		EPA 6010C
	Cadmium	0.00004	0.003	ug/mL		EPA 6010C
	Chromium	0.00008	0.005	ug/mL		EPA 6010C
	Copper	-0.0003	0.003	ug/mL		EPA 6010C

FORM I**BLANKS
EPA 6010C**Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Instrument ID: WinLabICPProject: 41103.00 Kingston CVSSequence: Y3J3108Calibration: 10/30/13 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y3J3108-CCB4	Lead	0.001	0.003	ug/mL		EPA 6010C
	Nickel	-0.001	0.005	ug/mL		EPA 6010C
	Selenium	-0.001	0.010	ug/mL		EPA 6010C
	Silver	-0.0001	0.005	ug/mL		EPA 6010C
	Thallium	-0.0006	0.005	ug/mL		EPA 6010C
	Zinc	0.0004	0.010	ug/mL		EPA 6010C
Y3J3108-CCB5	Antimony	0.003	0.005	ug/mL		EPA 6010C
	Arsenic	0.0003	0.004	ug/mL		EPA 6010C
	Beryllium	0.00007	0.001	ug/mL		EPA 6010C
	Cadmium	0.00001	0.003	ug/mL		EPA 6010C
	Chromium	0.00004	0.005	ug/mL		EPA 6010C
	Copper	-0.0003	0.003	ug/mL		EPA 6010C
	Lead	0.00003	0.003	ug/mL		EPA 6010C
	Nickel	-0.001	0.005	ug/mL		EPA 6010C
	Selenium	-0.003	0.010	ug/mL		EPA 6010C
	Silver	-0.0001	0.005	ug/mL		EPA 6010C
	Thallium	-0.001	0.005	ug/mL		EPA 6010C
	Zinc	0.0003	0.010	ug/mL		EPA 6010C

ICP INTERFERENCE CHECK SAMPLE

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument ID: WinLabICP

Calibration: 10/30/13

Sequence: Y3J3108

Lab Sample ID	Analyte	True	Found	%R	Units
Y3J3108-IFA1	Antimony		0.00		ug/mL
	Arsenic		0.00		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.00		ug/mL
	Chromium		-0.01		ug/mL
	Copper		-0.02		ug/mL
	Lead		-0.01		ug/mL
	Nickel		0.00		ug/mL
	Selenium		-0.01		ug/mL
	Silver		0.00		ug/mL
	Thallium		0.00		ug/mL
	Zinc		0.00		ug/mL
Y3J3108-IFB1	Antimony	0.500	0.50	101	ug/mL
	Arsenic	0.500	0.53	106	ug/mL
	Beryllium	0.500	0.47	94.1	ug/mL
	Cadmium	1.00	0.87	87.5	ug/mL
	Chromium	0.500	0.45	89.9	ug/mL
	Copper	0.500	0.51	102	ug/mL
	Lead	1.00	0.86	85.8	ug/mL
	Nickel	1.00	1.02	102	ug/mL
	Selenium	0.500	0.49	97.6	ug/mL
	Silver	1.00	1.05	105	ug/mL
	Thallium	0.500	0.45	90.2	ug/mL
	Zinc	1.00	0.89	89.1	ug/mL
Y3J3108-IFA2	Antimony		0.00		ug/mL
	Arsenic		0.00		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.00		ug/mL
	Chromium		-0.01		ug/mL

ICP INTERFERENCE CHECK SAMPLE

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument ID: WinLabICP

Calibration: 10/30/13

Sequence: Y3J3108

Lab Sample ID	Analyte	True	Found	%R	Units
Y3J3108-IFA2	Copper		-0.02		ug/mL
	Lead		-0.02		ug/mL
	Nickel		0.01		ug/mL
	Selenium		-0.01		ug/mL
	Silver		0.00		ug/mL
	Thallium		0.00		ug/mL
	Zinc		0.00		ug/mL
Y3J3108-IFB2	Antimony	0.500	0.49	97.1	ug/mL
	Arsenic	0.500	0.51	101	ug/mL
	Beryllium	0.500	0.48	95.3	ug/mL
	Cadmium	1.00	0.89	89.3	ug/mL
	Chromium	0.500	0.45	90.8	ug/mL
	Copper	0.500	0.48	95.6	ug/mL
	Lead	1.00	0.87	86.6	ug/mL
	Nickel	1.00	1.01	101	ug/mL
	Selenium	0.500	0.49	98.7	ug/mL
	Silver	1.00	1.02	102	ug/mL
	Thallium	0.500	0.45	90.2	ug/mL
	Zinc	1.00	0.93	92.6	ug/mL

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010C

KC-MW-01 1013

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Batch: BJ31394

Laboratory ID: BJ31394-MS1

Preparation: EPA 3010A

Initial/Final: 50 mL / 50 mL

Source Sample Name: KC-MW-01 1013

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Antimony	0.250	ND	0.247	98.7	75 - 125
Arsenic	2.00	0.007	2.16	107	75 - 125
Beryllium	0.0500	ND	0.051	102	75 - 125
Cadmium	0.0500	0.033	0.083	100	75 - 125
Chromium	0.200	0.008	0.207	99.6	75 - 125
Copper	0.250	0.020	0.282	105	75 - 125
Lead	0.500	0.003	0.488	97.0	75 - 125
Nickel	0.500	0.477	1.02	108	75 - 125
Selenium	2.00	ND	2.26	113	75 - 125
Silver	0.0500	ND	0.046	91.5	75 - 125
Thallium	2.00	ND	1.94	96.9	75 - 125
Zinc	0.500	0.104	0.609	101	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

DUPLICATES

EPA 6010C

KC-MW-01 1013

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Laboratory ID: BJ31394-DUP1

Batch: BJ31394

Lab Source ID: 13J1044-01

Preparation: EPA 3010A

Initial/Final: 50 mL / 50 mL

Source Sample Name: KC-MW-01 1013

% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Antimony	20	ND		ND				EPA 6010C
Arsenic	20	0.007		0.008		10.6		EPA 6010C
Beryllium	20	ND		ND				EPA 6010C
Cadmium	20	0.033		0.034		0.855		EPA 6010C
Chromium	20	0.008		0.008		1.82		EPA 6010C
Copper	20	0.020		0.021		0.512		EPA 6010C
Lead	20	0.003		0.003		4.62		EPA 6010C
Nickel	20	0.477		0.478		0.242		EPA 6010C
Selenium	20	ND		ND				EPA 6010C
Silver	20	ND		ND				EPA 6010C
Thallium	20	ND		ND				EPA 6010C
Zinc	20	0.104		0.105		0.704		EPA 6010C

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Batch: BJ31394

Laboratory ID: BJ31394-SRM1

Preparation: EPA 3010A

Initial/Final: 50 mL / 50 mL

ANALYTE	TRUE (mg/L)	FOUND (mg/L)	SRM % REC.	QC LIMITS REC.
Antimony	0.102	0.090	88.7	59.4 - 125
Arsenic	0.482	0.441	91.4	83.8 - 117
Beryllium	0.667	0.633	94.9	85 - 113
Cadmium	0.293	0.270	92.3	85.3 - 114
Chromium	0.276	0.261	94.7	86.6 - 113
Copper	0.522	0.504	96.6	90 - 110
Lead	1.48	1.40	94.5	87.8 - 111
Nickel	1.34	1.25	93.4	90.3 - 112
Selenium	0.541	0.475	87.9	79.1 - 116
Silver	0.359	0.328	91.3	85.8 - 114
Thallium	0.579	0.563	97.3	81 - 120
Zinc	1.30	1.22	94.2	86.2 - 115

* Values outside of QC limits

SERIAL DILUTION

EPA 6010C

KC-MW-02 1013

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Laboratory ID: Y3J3108-SRD2

Sequence: Y3J3108

Lab Source ID: 13J1044-02

Preparation: BJ31394

Initial/Final: 50 / 50

Source Sample Name: KC-MW-02 1013

% Solids:

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method	QC Limits % Difference
Antimony	ND		ND				EPA 6010C	10
Arsenic	0.043		0.041		5.47		EPA 6010C	10
Beryllium	0.005		0.005		9.13		EPA 6010C	10
Cadmium	0.030		0.028		8.01		EPA 6010C	10
Chromium	0.160		0.172		7.22		EPA 6010C	10
Copper	0.452		0.405		10.3 *		EPA 6010C	10
Lead	0.267		0.286		7.41		EPA 6010C	10
Nickel	0.367		0.361		1.74		EPA 6010C	10
Selenium	ND		ND				EPA 6010C	10
Silver	ND		ND				EPA 6010C	10
Thallium	ND		ND				EPA 6010C	10
Zinc	0.856		0.964		12.6 *		EPA 6010C	10

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Instrument: WinLabICP

Analyte	LOD	LOQ	Units
Antimony	0.005	0.005	mg/L
Arsenic	0.004	0.004	mg/L
Beryllium	0.001	0.001	mg/L
Cadmium	0.003	0.003	mg/L
Chromium	0.005	0.005	mg/L
Copper	0.003	0.003	mg/L
Lead	0.003	0.003	mg/L
Nickel	0.005	0.005	mg/L
Selenium	0.010	0.010	mg/L
Silver	0.005	0.005	mg/L
Thallium	0.005	0.005	mg/L
Zinc	0.010	0.010	mg/L

ICP Interelement Correction Factors

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument: WinLabICP

Date: 08/06/2012

Analyte	Wavelength (nm)	Fe	Al	Ca	Mg
Ag	338.289	0	0	0.01053	0
Al	308.215	-0.0853677	n/a	0.0113715	0.0230017
Al RADIAL		-0.120022	1040.13	-0.0385377	-0.0326901
As	188.979	-0.147064	0	0	0
Ba	233.527	0	0	0	0
Be	313.107	0	0	0	0
Ca	227.546	-4.69394	-0.540569	n/a	-0.0764809
Ca RADIAL		-0.208308	-0.0362947	985.629	-0.0380518
Cd	226.502	0.188643	0	0	0
Co	228.616	0	0	0	0
Cr	267.716	0	0	0	0
Cu	324.752	-0.0486096	0.011678	0.0195576	0.0130959
Fe	273.955	n/a	0	0	0
Fe RADIAL		1050.93	0.010468	0	0.0130041
K RADIAL		0	-0.0141601	0	0.019658
Mg	279.077	-0.0503105	0	0.0223471	n/a
Mg RADIAL		-0.0472329	0	0.0580061	959.388
Mn	257.610	-0.0538655	0	0	0.0184026
Na	330.237	-4.8803	-0.0462274	-1.67366	-0.102377
Na RADIAL		0.073432	0.0403134	0.0327159	0.108619
Ni	232.003	-0.163436	0	0	0
Pb	220.353	0.130655	-0.0944594	-0.011762	0
Sb	206.836	0	0.0149504	0	0
Se	196.026	-0.702912	0	0	0
Tl	190.801	-0.0795765	-0.0111665	0	0
V	292.402	0.0810207	0	0	0
Y	371.029	25.2577	9.27277	8.3464	8.87615
Y RADIAL		25.9251	9.90661	8.63732	9.4563
Zn	206.200	0.0476982	0.0198303	0	0

ICP Linear Dynamic Range

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument: WinLabICP

Date: 08/06/2012

CAS NO.	Analyte	Concentration mg/L
7440-36-0	Antimony	50
7440-38-2	Arsenic	100
7440-41-7	Beryllium	5
7440-43-9	Cadmium	33.3
7440-47-3	Chromium	20
7440-50-8	Copper	25
7439-92-1	Lead	66.6
7440-02-0	Nickel	50
7782-49-2	Selenium	100
7440-22-4	Silver	25
7440-28-0	Thallium	66.6
7440-66-6	Zinc	33.3

FORM IV**PREPARATION BATCH SUMMARY****EPA 6010C**

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Batch: BJ31394 Batch Matrix: Water Preparation: EPA 3010A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1013	13J1044-01	qbi103013a-040	10/30/13 08:25	
KC-MW-02 1013	13J1044-02	qbi103013a-043	10/30/13 08:25	
KC-MW-05 1013	13J1044-03	qbi103013a-044	10/30/13 08:25	
KC-FD-01 1013	13J1044-04	qbi103013a-045	10/30/13 08:25	
Blank	BJ31394-BLK1	qbi103013a-026	10/30/13 08:25	
KC-MW-01 1013	BJ31394-DUP1	qbi103013a-041	10/30/13 08:25	
KC-MW-01 1013	BJ31394-MS1	qbi103013a-042	10/30/13 08:25	
Reference	BJ31394-SRM1	qbi103013a-027	10/30/13 08:25	

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010C

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Sequence: Y3J3108 Instrument: WinLabICP
 Matrix: Water Calibration: 10/30/13 0

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y3J3108-ICV1	qbi103013a-001	10/30/13 09:35
Initial Cal Blank	Y3J3108-ICB1	qbi103013a-002	10/30/13 09:42
Instrument RL Check	Y3J3108-CRL1	qbi103013a-003	10/30/13 09:47
Interference Check A	Y3J3108-IFA1	qbi103013a-008	10/30/13 10:13
Interference Check B	Y3J3108-IFB1	qbi103013a-009	10/30/13 10:21
Calibration Check	Y3J3108-CCV1	qbi103013a-010	10/30/13 10:27
Calibration Blank	Y3J3108-CCB1	qbi103013a-011	10/30/13 10:35
Calibration Check	Y3J3108-CCV2	qbi103013a-022	10/30/13 11:34
Calibration Blank	Y3J3108-CCB2	qbi103013a-023	10/30/13 11:42
Blank	BJ31394-BLK1	qbi103013a-026	10/30/13 11:57
Reference	BJ31394-SRM1	qbi103013a-027	10/30/13 12:02
Calibration Check	Y3J3108-CCV3	qbi103013a-034	10/30/13 12:38
Calibration Blank	Y3J3108-CCB3	qbi103013a-035	10/30/13 12:46
KC-MW-01 1013	13J1044-01	qbi103013a-040	10/30/13 13:11
KC-MW-01 1013	BJ31394-DUP1	qbi103013a-041	10/30/13 13:16
KC-MW-01 1013	BJ31394-MS1	qbi103013a-042	10/30/13 13:22
KC-MW-02 1013	13J1044-02	qbi103013a-043	10/30/13 13:29
KC-MW-05 1013	13J1044-03	qbi103013a-044	10/30/13 13:34
KC-FD-01 1013	13J1044-04	qbi103013a-045	10/30/13 13:40
Calibration Check	Y3J3108-CCV4	qbi103013a-046	10/30/13 13:45
Calibration Blank	Y3J3108-CCB4	qbi103013a-047	10/30/13 13:53
KC-MW-02 1013	Y3J3108-SRD2	qbi103013a-049	10/30/13 14:03
Instrument RL Check	Y3J3108-CRL2	qbi103013a-050	10/30/13 14:08
Interference Check A	Y3J3108-IFA2	qbi103013a-051	10/30/13 14:13
Interference Check B	Y3J3108-IFB2	qbi103013a-052	10/30/13 14:20
Calibration Check	Y3J3108-CCV5	qbi103013a-053	10/30/13 14:27
Calibration Blank	Y3J3108-CCB5	qbi103013a-054	10/30/13 14:35

HOLDING TIME SUMMARY

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KC-MW-01 1013	10/25/13 17:00	10/29/13 15:50	10/30/13 08:25	4.64	180.00	10/30/13 13:11	0.20	30.00	
KC-MW-02 1013	10/25/13 16:50	10/29/13 15:50	10/30/13 08:25	4.65	180.00	10/30/13 13:29	0.21	30.00	
KC-MW-05 1013	10/25/13 16:40	10/29/13 15:50	10/30/13 08:25	4.66	180.00	10/30/13 13:34	0.22	30.00	
KC-FD-01 1013	10/25/13 15:00	10/29/13 15:50	10/30/13 08:25	4.73	180.00	10/30/13 13:40	0.22	30.00	

Sample Information Detail Report
Document Name: 103013a

File Description

Sample Information File

Parameters Common to All Samples

Batch ID	qbi103013a
Analyst Name	MW
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

3	3	SEQ-ICV1	
4	4	SEQ-ICB1	
5	5	SEQ-CRL1	
6	6	SEQ-IFA1	
7	7	SEQ-IFB1	
8	3	SEQ-CCV1	
9	4	SEQ-CCB1	
10	9	BJ31391-BLK1	
11	10	BJ31391-SRM1	
12	11	BJ31391-SRM2	
13	12	13J0990-11	DISS
14	13	BJ31391-DUP1	DISS
15	14	BJ31391-MS1	DISS
16	15	13J0990-12	DISS
17	16	13J0990-13	DISS
18	17	13J0990-14	DISS
19	18	13J0990-15	DISS
20	3	SEQ-CCV2	
21	4	SEQ-CCB2	
22	19	13J0990-16	DISS
23	20	SEQ-SRD1	13J0990-16 DISS
24	21	BJ31394-BLK1	
25	22	BJ31394-SRM1	
26	23	BJ31394-SRM2	
27	24	13J0990-11	
28	25	13J0990-12	
29	26	13J0990-13	
30	27	13J0990-14	
31	28	13J0990-15	
32	3	SEQ-CCV3	
33	4	SEQ-CCB3	
34	29	13J0990-16	
35	30	13J1026-01	
36	31	13J1026-02	
37	32	13J1027-01	
38	33	13J1044-01	
39	34	BJ31394-DUP1	
40	35	BJ31394-MS1	
41	36	13J1044-02	
42	37	13J1044-03	
43	38	13J1044-04	
44	3	SEQ-CCV4	
45	4	SEQ-CCB4	
46	39	13J1051-01	
47	40	SEQ-SRD2	13J1044-02
48	5	SEQ-CRL2	
49	6	SEQ-IFA2	
50	7	SEQ-IFB2	
51	8	SEQ-CCV5	
52	1	SEQ-CCB5	

PREPARATION BENCH SHEET

BJ31391

York Analytical Laboratories, Inc.

Printed: 10/30/2013 8:24:09AM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
13J0990-11	Metals, Target Analyte, Diss	10/30/2013 08:2	MW	50	50					EPA 3010A	5 day firm - unchecked cations
13J0990-12	Metals, Target Analyte, Diss	10/30/2013 08:2	MW	50	50					EPA 3010A	5 day firm - unchecked cations
13J0990-13	Metals, Target Analyte, Diss	10/30/2013 08:2	MW	50	50					EPA 3010A	5 day firm - unchecked cations
13J0990-14	Metals, Target Analyte, Diss	10/30/2013 08:2	MW	50	50					EPA 3010A	5 day firm - unchecked cations
13J0990-15	Metals, Target Analyte, Diss	10/30/2013 08:2	MW	50	50					EPA 3010A	5 day firm - unchecked cations
13J0990-16	Metals, Target Analyte, Diss	10/30/2013 08:2	MW	50	50					EPA 3010A	5 day firm - unchecked cations
BJ31391-BLK1	QC	10/30/2013 08:2	MW	50	50					EPA 3010A	
BJ31391-DUP1	QC	10/30/2013 08:2	MW	50	50		13J0990-11			EPA 3010A	
BJ31391-MS1	QC	10/30/2013 08:2	MW	50	50	Y13C028	13J0990-11	500		EPA 3010A	
BJ31391-SRM1	QC	10/30/2013 08:2	MW	50	50	Y13C030		50000		EPA 3010A	
BJ31391-SRM2	QC	10/30/2013 08:2	MW	50	50	Y13C029		50000		EPA 3010A	

Batch Comments:

PREPARATION BENCH SHEET

BJ31394

York Analytical Laboratories, Inc.

Printed: 10/30/2013 8:27:18AM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
13J0990-11	Metals, Target Analyte	10/30/2013 08:2	MW	50	50					EPA 3010A	5 day firm - unchecked cations
13J0990-12	Metals, Target Analyte	10/30/2013 08:2	MW	50	50					EPA 3010A	5 day firm - unchecked cations
13J0990-13	Metals, Target Analyte	10/30/2013 08:2	MW	50	50					EPA 3010A	5 day firm - unchecked cations
13J0990-14	Metals, Target Analyte	10/30/2013 08:2	MW	50	50					EPA 3010A	5 day firm - unchecked cations
13J0990-15	Metals, Target Analyte	10/30/2013 08:2	MW	50	50					EPA 3010A	5 day firm - unchecked cations
13J0990-16	Metals, Target Analyte	10/30/2013 08:2	MW	50	50					EPA 3010A	5 day firm - unchecked cations
13J1026-01	Metals, Priority Pollutant in	10/30/2013 08:2	MW	50	50					EPA 3010A	
13J1026-02	Metals, Priority Pollutant in	10/30/2013 08:2	MW	50	50					EPA 3010A	
13J1027-01	Zinc by EPA 200.7	10/30/2013 08:2	MW	50	50					EPA 3010A	
13J1027-01	Nickel by EPA 200.7	10/30/2013 08:2	MW	50	50					EPA 3010A	
13J1027-01	Lead by EPA 200.7	10/30/2013 08:2	MW	50	50					EPA 3010A	
13J1027-01	Cadmium by EPA 200.7	10/30/2013 08:2	MW	50	50					EPA 3010A	
13J1027-01	Copper by EPA 200.7	10/30/2013 08:2	MW	50	50					EPA 3010A	
13J1044-01	Metals, Priority Pollutant in	10/30/2013 08:2	MW	50	50					EPA 3010A	Added for BatchQC in: BJ31394
13J1044-01	Cadmium by EPA 200.7	10/30/2013 08:2	MW	50	50					EPA 3010A	Added for BatchQC in: BJ31394
13J1044-01	Copper by EPA 200.7	10/30/2013 08:2	MW	50	50					EPA 3010A	Added for BatchQC in: BJ31394
13J1044-01	Lead by EPA 200.7	10/30/2013 08:2	MW	50	50					EPA 3010A	Added for BatchQC in: BJ31394
13J1044-01	Metals, Target Analyte	10/30/2013 08:2	MW	50	50					EPA 3010A	Added for BatchQC in: BJ31394
13J1044-01	Nickel by EPA 200.7	10/30/2013 08:2	MW	50	50					EPA 3010A	Added for BatchQC in: BJ31394
13J1044-01	Sodium by EPA 6010	10/30/2013 08:2	MW	50	50					EPA 3010A	Added for BatchQC in: BJ31394
13J1044-01	Zinc by EPA 200.7	10/30/2013 08:2	MW	50	50					EPA 3010A	Added for BatchQC in: BJ31394
13J1044-01	Zinc by EPA 6010	10/30/2013 08:2	MW	50	50					EPA 3010A	Added for BatchQC in: BJ31394
13J1044-01	Metals, Priority Pollutant	10/30/2013 08:2	MW	50	50					EPA 3010A	

PREPARATION BENCH SHEET

BJ31394

York Analytical Laboratories, Inc.

Printed: 10/30/2013 8:27:18AM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
13J1044-02	Metals, Priority Pollutant	10/30/2013 08:2	MW	50	50					EPA 3010A	
13J1044-03	Metals, Priority Pollutant	10/30/2013 08:2	MW	50	50					EPA 3010A	
13J1044-04	Metals, Priority Pollutant	10/30/2013 08:2	MW	50	50					EPA 3010A	
13J1051-01	Sodium by EPA 6010	10/30/2013 08:2	MW	50	50					EPA 3010A	
13J1051-01	Zinc by EPA 6010	10/30/2013 08:2	MW	50	50					EPA 3010A	
BJ31394-BLK1	QC	10/30/2013 08:2	MW	50	50					EPA 3010A	
BJ31394-DUP1	QC	10/30/2013 08:2	MW	50	50		13J1044-01			EPA 3010A	
BJ31394-MS1	QC	10/30/2013 08:2	MW	50	50	Y13C028	13J1044-01	500		EPA 3010A	
BJ31394-SRM1	QC	10/30/2013 08:2	MW	50	50	Y13C030		50000		EPA 3010A	
BJ31394-SRM2	QC	10/30/2013 08:2	MW	50	50	Y13C029		50000		EPA 3010A	

Batch Comments:

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Analysis Begun

Start Time: 10/30/2013 9:22:20 AM

Plasma On Time: 10/29/2013 7:11:23 AM

Logged In Analyst: mikew

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C9011901 Autosampler Model: S10

Sample Information File: C:\pe\Mikew\Sample Information\103013a.sif

Batch ID: qbi103013a

Results Data Set: qbi103013a

Results Library: C:\pe\MIKEW\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 10/30/2013 9:22:21 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected		Std.Dev.	RSD	Calib	
	Intensity				Conc.	Units
Y 371.029	20903433.3		92739.87	0.44%	5.000	mg/L
Y RADIAL	270525.2		876.13	0.32%	5.000	mg/L
As 188.979†	-31.2		4.52	14.50%	[0.00]	mg/L
Tl 190.801†	-39.6		3.90	9.86%	[0.00]	mg/L
Se 196.026†	13.9		4.49	32.26%	[0.00]	mg/L
Zn 206.200†	7.0		3.03	43.51%	[0.00]	mg/L
Sb 206.836†	43.3		2.48	5.72%	[0.00]	mg/L
Pb 220.353†	32.4		12.68	39.11%	[0.00]	mg/L
Cd 226.502†	-357.4		8.43	2.36%	[0.00]	mg/L
Co 228.616†	-78.8		9.05	11.48%	[0.00]	mg/L
Ni 232.003†	-592.1		5.82	0.98%	[0.00]	mg/L
Ba 233.527†	49.9		11.40	22.86%	[0.00]	mg/L
Mn 257.610†	404.9		9.80	2.42%	[0.00]	mg/L
Cr 267.716†	53.3		5.99	11.24%	[0.00]	mg/L
Fe 273.955†	-29.5		6.78	22.95%	[0.00]	mg/L
Mg 279.077†	-114.4		2.13	1.86%	[0.00]	mg/L
V 292.402†	-170.9		80.46	47.08%	[0.00]	mg/L
Al 308.215†	6314.8		44.93	0.71%	[0.00]	mg/L
Be 313.107†	-4935.8		88.79	1.80%	[0.00]	mg/L
Cu 324.752†	2083.9		32.92	1.58%	[0.00]	mg/L
Ag 338.289†	160.8		58.88	36.63%	[0.00]	mg/L
Na 330.237†	216.4		78.47	36.26%	[0.00]	mg/L
Ca 227.546†	-487.7		9.04	1.85%	[0.00]	mg/L
Al RADIAL†	44.6		7.70	17.28%	[0.00]	mg/L
Fe RADIAL†	-0.7		1.55	214.84%	[0.00]	mg/L
Ca RADIAL†	1205.2		3.69	0.31%	[0.00]	mg/L
K RADIAL†	320.4		17.33	5.41%	[0.00]	mg/L
Mg RADIAL†	3.2		1.92	60.79%	[0.00]	mg/L
Na RADIAL†	39850.2		349.89	0.88%	[0.00]	mg/L

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Sequence No.: 2

Autosampler Location: 2

Sample ID: CAL STD 1

Date Collected: 10/30/2013 9:27:21 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: CAL STD 1

Analyte	Mean Corrected		Std.Dev.	RSD	Calib	
	Intensity				Conc.	Units
Y 371.029	18930061.0		129384.89	0.68%	4.528	mg/L
Y RADIAL	261119.0		1431.90	0.55%	4.826	mg/L
As 188.979†	3772.4		13.38	0.35%	[1.0000]	mg/L
Tl 190.801†	5510.4		13.32	0.24%	[1.0000]	mg/L
Se 196.026†	1804.7		17.83	0.99%	[1.0000]	mg/L
Zn 206.200†	406542.6		3020.58	0.74%	[5.0000]	mg/L
Sb 206.836†	2773.0		52.23	1.88%	[0.5000]	mg/L

Pb 220.353†	11221.3	35.74	0.32%	[1.0000]	mg/L
Cd 226.502†	99217.6	816.11	0.82%	[0.5000]	mg/L
Co 228.616†	222316.2	1715.03	0.77%	[5.0000]	mg/L
Ni 232.003†	132926.4	1293.28	0.97%	[5.0000]	mg/L
Ba 233.527†	3364735.4	30008.57	0.89%	[20.0000]	mg/L
Mn 257.610†	4561122.1	35029.29	0.77%	[5.0000]	mg/L
Cr 267.716†	329427.2	3140.59	0.95%	[2.0000]	mg/L
Fe 273.955†	251544.9	2249.13	0.89%	[10.0000]	mg/L
Mg 279.077†	1014649.0	7736.40	0.76%	[50.0000]	mg/L
V 292.402†	2152274.3	13891.40	0.65%	[5.0000]	mg/L
Al 308.215†	837072.3	8686.24	1.04%	[20.0000]	mg/L
Be 313.107†	2852791.0	11541.40	0.40%	[0.5000]	mg/L
Cu 324.752†	1031630.9	10181.88	0.99%	[2.5000]	mg/L
Ag 338.289†	584237.9	4347.96	0.74%	[2.5000]	mg/L
Na 330.237†	82555.9	943.33	1.14%	[50.0000]	mg/L
Ca 227.546†	34808.8	179.16	0.51%	[50.0000]	mg/L
Al RADIAL†	43012.8	33.87	0.08%	[20.0000]	mg/L
Fe RADIAL†	1156.2	1.13	0.10%	[10.0000]	mg/L
Ca RADIAL†	129543.7	187.78	0.14%	[50.0000]	mg/L
K RADIAL†	16024.7	56.00	0.35%	[10.0000]	mg/L
Mg RADIAL†	6775.1	21.17	0.31%	[50.0000]	mg/L
Na RADIAL†	895412.3	13608.16	1.52%	[50.0000]	mg/L

Sequence No.: 3

Sample ID: SEQ-ICV1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 10/30/2013 9:35:07 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-ICV1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	19971552.9	4.777 mg/L	0.0169			0.35%
Y RADIAL	265794.1	4.913 mg/L	0.0272			0.55%
As 188.979†	921.9	0.2451 mg/L	0.00259	0.2451 mg/L	0.00259	1.06%
Tl 190.801†	1371.5	0.2494 mg/L	0.00143	0.2494 mg/L	0.00143	0.57%
Se 196.026†	444.2	0.2496 mg/L	0.00075	0.2496 mg/L	0.00075	0.30%
Zn 206.200†	205843.7	2.531 mg/L	0.0180	2.531 mg/L	0.0180	0.71%
Sb 206.836†	1421.5	0.2562 mg/L	0.00240	0.2562 mg/L	0.00240	0.94%
Pb 220.353†	2820.0	0.2518 mg/L	0.00087	0.2518 mg/L	0.00087	0.35%
Cd 226.502†	24756.0	0.1238 mg/L	0.00091	0.1238 mg/L	0.00091	0.73%
Co 228.616†	111476.7	2.507 mg/L	0.0156	2.507 mg/L	0.0156	0.62%
Ni 232.003†	66028.1	2.484 mg/L	0.0199	2.484 mg/L	0.0199	0.80%
Ba 233.527†	1730810.1	10.29 mg/L	0.017	10.29 mg/L	0.017	0.17%
Mn 257.610†	2312954.0	2.535 mg/L	0.0026	2.535 mg/L	0.0026	0.10%
Cr 267.716†	165785.7	1.007 mg/L	0.0069	1.007 mg/L	0.0069	0.69%
Fe 273.955†	126251.7	5.019 mg/L	0.0232	5.019 mg/L	0.0232	0.46%
Mg 279.077†	504518.5	24.86 mg/L	0.108	24.86 mg/L	0.108	0.44%
V 292.402†	1073450.5	2.493 mg/L	0.0032	2.493 mg/L	0.0032	0.13%
Al 308.215†	403561.7	9.642 mg/L	0.0096	9.642 mg/L	0.0096	0.10%
Be 313.107†	1421316.3	0.2491 mg/L	0.00038	0.2491 mg/L	0.00038	0.15%
Cu 324.752†	509232.9	1.233 mg/L	0.0019	1.233 mg/L	0.0019	0.15%
Ag 338.289†	288006.6	1.232 mg/L	0.0082	1.232 mg/L	0.0082	0.66%
Na 330.237†	38180.2	23.19 mg/L	0.115	23.19 mg/L	0.115	0.50%
Ca 227.546†	16583.8	23.85 mg/L	0.194	23.85 mg/L	0.194	0.81%
Al RADIAL†	21693.1	10.09 mg/L	0.145	10.09 mg/L	0.145	1.44%
Fe RADIAL†	588.7	5.092 mg/L	0.0364	5.092 mg/L	0.0364	0.72%
Ca RADIAL†	66224.4	25.56 mg/L	0.302	25.56 mg/L	0.302	1.18%
K RADIAL†	8041.8	5.018 mg/L	0.0688	5.018 mg/L	0.0688	1.37%
Mg RADIAL†	3491.9	25.77 mg/L	0.148	25.77 mg/L	0.148	0.58%
Na RADIAL†	465540.9	26.00 mg/L	0.040	26.00 mg/L	0.040	0.16%

Sequence No.: 4

Sample ID: SEQ-ICB1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 10/30/2013 9:42:53 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-ICB1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20749949.8	4.963	mg/L	0.0323				0.65%
Y RADIAL	268970.9	4.971	mg/L	0.0411				0.83%
As 188.979†	-7.4	-0.0020	mg/L	0.00293	-0.0020	mg/L	0.00293	148.94%
Tl 190.801†	-2.9	-0.0005	mg/L	0.00088	-0.0005	mg/L	0.00088	170.56%
Se 196.026†	-4.1	-0.0023	mg/L	0.00124	-0.0023	mg/L	0.00124	54.11%
Zn 206.200†	29.9	0.0004	mg/L	0.00009	0.0004	mg/L	0.00009	25.42%
Sb 206.836†	16.3	0.0029	mg/L	0.00095	0.0029	mg/L	0.00095	32.24%
Pb 220.353†	2.0	0.0002	mg/L	0.00138	0.0002	mg/L	0.00138	785.24%
Cd 226.502†	-2.0	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	489.63%
Co 228.616†	2.9	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	210.45%
Ni 232.003†	-17.5	-0.0007	mg/L	0.00072	-0.0007	mg/L	0.00072	109.12%
Ba 233.527†	8.5	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	97.00%
Mn 257.610†	15.7	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	68.85%
Cr 267.716†	10.5	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	69.11%
Fe 273.955†	8.2	0.0003	mg/L	0.00021	0.0003	mg/L	0.00021	62.94%
Mg 279.077†	-16.7	-0.0008	mg/L	0.00056	-0.0008	mg/L	0.00056	68.14%
V 292.402†	2.3	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	531.12%
Al 308.215†	45.5	0.0011	mg/L	0.00060	0.0011	mg/L	0.00060	55.08%
Be 313.107†	30.7	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	198.26%
Cu 324.752†	238.6	0.0006	mg/L	0.00018	0.0006	mg/L	0.00018	30.81%
Ag 338.289†	23.7	0.0001	mg/L	0.00027	0.0001	mg/L	0.00027	269.30%
Na 330.237†	40.8	0.0247	mg/L	0.04445	0.0247	mg/L	0.04445	179.73%
Ca 227.546†	-1.2	-0.0017	mg/L	0.01944	-0.0017	mg/L	0.01944	>999.9%
Al RADIAL†	0.4	0.0002	mg/L	0.00105	0.0002	mg/L	0.00105	628.29%
Fe RADIAL†	2.5	0.0217	mg/L	0.01627	0.0217	mg/L	0.01627	75.04%
Ca RADIAL†	-0.5	-0.0002	mg/L	0.00781	-0.0002	mg/L	0.00781	>999.9%
K RADIAL†	-22.3	-0.0139	mg/L	0.00983	-0.0139	mg/L	0.00983	70.77%
Mg RADIAL†	-2.8	-0.0210	mg/L	0.02938	-0.0210	mg/L	0.02938	140.01%
Na RADIAL†	-4969.3	-0.2775	mg/L	0.02345	-0.2775	mg/L	0.02345	8.45%

Sequence No.: 5

Sample ID: SEQ-CRL1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 10/30/2013 9:47:56 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CRL1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20561901.1	4.918	mg/L	0.0100				0.20%
Y RADIAL	266586.2	4.927	mg/L	0.0553				1.12%
As 188.979†	29.2	0.0078	mg/L	0.00012	0.0078	mg/L	0.00012	1.57%
Tl 190.801†	48.8	0.0089	mg/L	0.00072	0.0089	mg/L	0.00072	8.16%
Se 196.026†	11.7	0.0065	mg/L	0.00224	0.0065	mg/L	0.00224	34.39%
Zn 206.200†	482.7	0.0059	mg/L	0.00007	0.0059	mg/L	0.00007	1.26%
Sb 206.836†	67.5	0.0122	mg/L	0.00118	0.0122	mg/L	0.00118	9.71%
Pb 220.353†	46.3	0.0041	mg/L	0.00165	0.0041	mg/L	0.00165	39.95%
Cd 226.502†	1003.1	0.0051	mg/L	0.00011	0.0051	mg/L	0.00011	2.11%
Co 228.616†	230.6	0.0052	mg/L	0.00016	0.0052	mg/L	0.00016	3.15%
Ni 232.003†	125.9	0.0047	mg/L	0.00026	0.0047	mg/L	0.00026	5.58%
Ba 233.527†	1863.8	0.0111	mg/L	0.00006	0.0111	mg/L	0.00006	0.56%
Mn 257.610†	4954.3	0.0054	mg/L	0.00001	0.0054	mg/L	0.00001	0.15%
Cr 267.716†	880.4	0.0053	mg/L	0.00011	0.0053	mg/L	0.00011	2.13%
Fe 273.955†	165.2	0.0066	mg/L	0.00045	0.0066	mg/L	0.00045	6.81%
Mg 279.077†	-0.7	0.0000	mg/L	0.00029	0.0000	mg/L	0.00029	868.54%
V 292.402†	2209.4	0.0051	mg/L	0.00021	0.0051	mg/L	0.00021	4.00%
Al 308.215†	615.2	0.0147	mg/L	0.00126	0.0147	mg/L	0.00126	8.57%
Be 313.107†	28073.3	0.0049	mg/L	0.00003	0.0049	mg/L	0.00003	0.62%
Cu 324.752†	2467.0	0.0060	mg/L	0.00024	0.0060	mg/L	0.00024	4.09%
Ag 338.289†	1189.8	0.0051	mg/L	0.00035	0.0051	mg/L	0.00035	6.89%
Na 330.237†	71.4	0.0433	mg/L	0.02908	0.0433	mg/L	0.02908	67.12%
Ca 227.546†	16.2	0.0234	mg/L	0.02171	0.0234	mg/L	0.02171	92.93%
Al RADIAL†	30.6	0.0142	mg/L	0.00169	0.0142	mg/L	0.00169	11.88%
Fe RADIAL†	2.6	0.0225	mg/L	0.01748	0.0225	mg/L	0.01748	77.68%
Ca RADIAL†	11.9	0.0046	mg/L	0.00623	0.0046	mg/L	0.00623	135.19%
K RADIAL†	-13.3	-0.0083	mg/L	0.02144	-0.0083	mg/L	0.02144	258.58%
Mg RADIAL†	-1.1	-0.0080	mg/L	0.02873	-0.0080	mg/L	0.02873	360.65%

Na RADIAL† -6212.5 -0.3469 mg/L 0.04180 -0.3469 mg/L 0.04180 12.05%

Sequence No.: 6

Sample ID: MHSF

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 154

Date Collected: 10/30/2013 9:53:01 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: MHSF

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20929880.0	5.006 mg/L		0.0305			0.61%
Y RADIAL	279976.7	5.175 mg/L		0.0300			0.58%
As 188.979†	-4.3	-0.0011 mg/L		0.00168	-0.0011 mg/L	0.00168	148.16%
Tl 190.801†	-0.0	0.0000 mg/L		0.00149	0.0000 mg/L	0.00149	>999.9%
Se 196.026†	-10.6	-0.0059 mg/L		0.00332	-0.0059 mg/L	0.00332	56.45%
Zn 206.200†	91.2	0.0011 mg/L		0.00004	0.0011 mg/L	0.00004	3.29%
Sb 206.836†	2.4	0.0004 mg/L		0.00087	0.0004 mg/L	0.00087	201.56%
Pb 220.353†	-5.9	-0.0004 mg/L		0.00103	-0.0004 mg/L	0.00103	269.99%
Cd 226.502†	34.6	0.0002 mg/L		0.00004	0.0002 mg/L	0.00004	25.31%
Co 228.616†	9.9	0.0002 mg/L		0.00038	0.0002 mg/L	0.00038	169.29%
Ni 232.003†	8.2	0.0003 mg/L		0.00072	0.0003 mg/L	0.00072	232.52%
Ba 233.527†	78.6	0.0005 mg/L		0.00009	0.0005 mg/L	0.00009	18.84%
Mn 257.610†	91.3	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	20.36%
Cr 267.716†	18.7	0.0001 mg/L		0.00009	0.0001 mg/L	0.00009	76.40%
Fe 273.955†	48.6	0.0019 mg/L		0.00049	0.0019 mg/L	0.00049	25.45%
Mg 279.077†	226385.1	11.16 mg/L		0.117	11.16 mg/L	0.117	1.05%
V 292.402†	66.5	0.0002 mg/L		0.00012	0.0002 mg/L	0.00012	75.09%
Al 308.215†	2438.8	0.0579 mg/L		0.00113	0.0579 mg/L	0.00113	1.95%
Be 313.107†	6.1	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	>999.9%
Cu 324.752†	497.2	0.0008 mg/L		0.00006	0.0008 mg/L	0.00006	6.95%
Ag 338.289†	158.8	0.0006 mg/L		0.00033	0.0006 mg/L	0.00033	59.60%
Na 330.237†	30850.8	18.71 mg/L		0.206	18.71 mg/L	0.206	1.10%
Ca 227.546†	8339.0	11.98 mg/L		0.205	11.98 mg/L	0.205	1.71%
Al RADIAL†	134.0	0.0623 mg/L		0.00397	0.0623 mg/L	0.00397	6.37%
Fe RADIAL†	0.1	0.0007 mg/L		0.02110	0.0007 mg/L	0.02110	>999.9%
Ca RADIAL†	33583.6	12.96 mg/L		0.065	12.96 mg/L	0.065	0.50%
K RADIAL†	3110.1	1.941 mg/L		0.0102	1.941 mg/L	0.0102	0.52%
Mg RADIAL†	1525.2	11.26 mg/L		0.074	11.26 mg/L	0.074	0.66%
Na RADIAL†	441413.5	24.65 mg/L		0.254	24.65 mg/L	0.254	1.03%

Sequence No.: 7

Sample ID: IBM-21

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 155

Date Collected: 10/30/2013 9:58:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: IBM-21

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	18928976.2	4.528 mg/L		0.0174			0.38%
Y RADIAL	271397.4	5.016 mg/L		0.0236			0.47%
As 188.979†	-10.0	-0.0026 mg/L		0.00172	-0.0026 mg/L	0.00172	65.05%
Tl 190.801†	-0.0	0.0000 mg/L		0.00055	0.0000 mg/L	0.00055	>999.9%
Se 196.026†	2.9	0.0017 mg/L		0.00217	0.0017 mg/L	0.00217	130.89%
Zn 206.200†	1015.6	0.0125 mg/L		0.00025	0.0125 mg/L	0.00025	1.99%
Sb 206.836†	8.3	0.0015 mg/L		0.00163	0.0015 mg/L	0.00163	109.43%
Pb 220.353†	15.3	0.0022 mg/L		0.00029	0.0022 mg/L	0.00029	12.81%
Cd 226.502†	3.5	0.0000 mg/L		0.00014	0.0000 mg/L	0.00014	>999.9%
Co 228.616†	10.0	0.0002 mg/L		0.00007	0.0002 mg/L	0.00007	32.82%
Ni 232.003†	982.5	0.0370 mg/L		0.00034	0.0370 mg/L	0.00034	0.92%
Ba 233.527†	6569.3	0.0390 mg/L		0.00030	0.0390 mg/L	0.00030	0.77%
Mn 257.610†	11843.8	0.0126 mg/L		0.00012	0.0126 mg/L	0.00012	0.93%
Cr 267.716†	223.7	0.0014 mg/L		0.00010	0.0014 mg/L	0.00010	7.12%
Fe 273.955†	2554.7	0.1016 mg/L		0.00092	0.1016 mg/L	0.00092	0.90%
Mg 279.077†	442322.4	21.80 mg/L		0.158	21.80 mg/L	0.158	0.72%
V 292.402†	3.3	0.0000 mg/L		0.00013	0.0000 mg/L	0.00013	>999.9%
Al 308.215†	8123.1	0.1928 mg/L		0.00430	0.1928 mg/L	0.00430	2.23%

Be 313.107†	-502.4	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	36.71%
Cu 324.752†	21056.9	0.0493 mg/L	0.00074	0.0493 mg/L	0.00074	1.50%
Ag 338.289†	310.2	0.0006 mg/L	0.00046	0.0006 mg/L	0.00046	83.38%
Na 330.237†	754288.8	457.0 mg/L	5.22	457.0 mg/L	5.22	1.14%
Ca 227.546†	51174.0	73.51 mg/L	0.690	73.51 mg/L	0.690	0.94%
Al RADIAL†	378.9	0.1762 mg/L	0.00418	0.1762 mg/L	0.00418	2.37%
Fe RADIAL†	13.4	0.1162 mg/L	0.02594	0.1162 mg/L	0.02594	22.33%
Ca RADIAL†	190654.3	73.59 mg/L	0.159	73.59 mg/L	0.159	0.22%
K RADIAL†	6169.4	3.850 mg/L	0.0356	3.850 mg/L	0.0356	0.92%
Mg RADIAL†	3039.3	22.43 mg/L	0.071	22.43 mg/L	0.071	0.31%
Na RADIAL†	6150351.7	343.4 mg/L	1.50	343.4 mg/L	1.50	0.44%

Sequence No.: 8

Sample ID: IBM-23

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 156

Date Collected: 10/30/2013 10:03:25 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: IBM-23

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	18985101.0	4.541 mg/L		0.0411			0.91%
Y RADIAL	271654.1	5.021 mg/L		0.0155			0.31%
As 188.979†	-1.9	-0.0005 mg/L		0.00170	-0.0005 mg/L	0.00170	349.28%
Tl 190.801†	-8.3	-0.0015 mg/L		0.00144	-0.0015 mg/L	0.00144	95.50%
Se 196.026†	-2.9	-0.0015 mg/L		0.00549	-0.0015 mg/L	0.00549	358.41%
Zn 206.200†	1061.1	0.0130 mg/L		0.00011	0.0130 mg/L	0.00011	0.83%
Sb 206.836†	-2.5	-0.0005 mg/L		0.00170	-0.0005 mg/L	0.00170	372.45%
Pb 220.353†	18.3	0.0025 mg/L		0.00101	0.0025 mg/L	0.00101	40.73%
Cd 226.502†	-5.0	0.0000 mg/L		0.00015	0.0000 mg/L	0.00015	350.40%
Co 228.616†	11.6	0.0003 mg/L		0.00008	0.0003 mg/L	0.00008	30.31%
Ni 232.003†	851.8	0.0321 mg/L		0.00080	0.0321 mg/L	0.00080	2.50%
Ba 233.527†	6705.9	0.0399 mg/L		0.00035	0.0399 mg/L	0.00035	0.88%
Mn 257.610†	13460.0	0.0144 mg/L		0.00021	0.0144 mg/L	0.00021	1.48%
Cr 267.716†	238.4	0.0014 mg/L		0.00006	0.0014 mg/L	0.00006	3.83%
Fe 273.955†	2544.7	0.1012 mg/L		0.00102	0.1012 mg/L	0.00102	1.00%
Mg 279.077†	431116.1	21.24 mg/L		0.276	21.24 mg/L	0.276	1.30%
V 292.402†	77.4	0.0002 mg/L		0.00005	0.0002 mg/L	0.00005	31.50%
Al 308.215†	8308.7	0.1972 mg/L		0.00535	0.1972 mg/L	0.00535	2.71%
Be 313.107†	-460.5	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	33.76%
Cu 324.752†	21243.8	0.0498 mg/L		0.00102	0.0498 mg/L	0.00102	2.06%
Ag 338.289†	301.5	0.0005 mg/L		0.00041	0.0005 mg/L	0.00041	74.35%
Na 330.237†	720906.6	436.7 mg/L		8.43	436.7 mg/L	8.43	1.93%
Ca 227.546†	49159.5	70.62 mg/L		1.236	70.62 mg/L	1.236	1.75%
Al RADIAL†	400.1	0.1861 mg/L		0.00244	0.1861 mg/L	0.00244	1.31%
Fe RADIAL†	14.0	0.1210 mg/L		0.01607	0.1210 mg/L	0.01607	13.28%
Ca RADIAL†	183007.1	70.64 mg/L		0.044	70.64 mg/L	0.044	0.06%
K RADIAL†	6874.1	4.290 mg/L		0.0388	4.290 mg/L	0.0388	0.90%
Mg RADIAL†	2955.0	21.81 mg/L		0.022	21.81 mg/L	0.022	0.10%
Na RADIAL†	5985657.9	334.2 mg/L		2.09	334.2 mg/L	2.09	0.62%

Sequence No.: 9

Sample ID: IBM-25

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 157

Date Collected: 10/30/2013 10:08:39 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: IBM-25

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	19122930.0	4.574 mg/L		0.0147			0.32%
Y RADIAL	274238.2	5.069 mg/L		0.0135			0.27%
As 188.979†	-10.9	-0.0029 mg/L		0.00306	-0.0029 mg/L	0.00306	105.95%
Tl 190.801†	-5.2	-0.0009 mg/L		0.00088	-0.0009 mg/L	0.00088	93.50%
Se 196.026†	-5.4	-0.0029 mg/L		0.00211	-0.0029 mg/L	0.00211	71.64%
Zn 206.200†	770.4	0.0095 mg/L		0.00017	0.0095 mg/L	0.00017	1.82%
Sb 206.836†	0.4	0.0001 mg/L		0.00072	0.0001 mg/L	0.00072	>999.9%
Pb 220.353†	9.7	0.0017 mg/L		0.00041	0.0017 mg/L	0.00041	23.89%

Cd 226.502†	10.1	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	83.68%
Co 228.616†	9.9	0.0002 mg/L	0.00028	0.0002 mg/L	0.00028	123.61%
Ni 232.003†	791.8	0.0298 mg/L	0.00054	0.0298 mg/L	0.00054	1.82%
Ba 233.527†	6201.6	0.0369 mg/L	0.00019	0.0369 mg/L	0.00019	0.52%
Mn 257.610†	5205.9	0.0053 mg/L	0.00002	0.0053 mg/L	0.00002	0.39%
Cr 267.716†	163.4	0.0010 mg/L	0.00012	0.0010 mg/L	0.00012	12.51%
Fe 273.955†	1532.9	0.0609 mg/L	0.00081	0.0609 mg/L	0.00081	1.33%
Mg 279.077†	431181.1	21.25 mg/L	0.160	21.25 mg/L	0.160	0.75%
V 292.402†	64.6	0.0001 mg/L	0.00017	0.0001 mg/L	0.00017	118.79%
Al 308.215†	6080.4	0.1440 mg/L	0.00174	0.1440 mg/L	0.00174	1.21%
Be 313.107†	-471.1	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	4.27%
Cu 324.752†	18153.8	0.0423 mg/L	0.00028	0.0423 mg/L	0.00028	0.66%
Ag 338.289†	230.1	0.0002 mg/L	0.00027	0.0002 mg/L	0.00027	112.96%
Na 330.237†	723714.1	438.4 mg/L	2.17	438.4 mg/L	2.17	0.49%
Ca 227.546†	49218.8	70.70 mg/L	0.488	70.70 mg/L	0.488	0.69%
Al RADIAL†	278.2	0.1294 mg/L	0.00413	0.1294 mg/L	0.00413	3.19%
Fe RADIAL†	9.6	0.0832 mg/L	0.00731	0.0832 mg/L	0.00731	8.79%
Ca RADIAL†	182507.8	70.44 mg/L	0.080	70.44 mg/L	0.080	0.11%
K RADIAL†	6791.4	4.238 mg/L	0.0407	4.238 mg/L	0.0407	0.96%
Mg RADIAL†	2940.0	21.70 mg/L	0.190	21.70 mg/L	0.190	0.87%
Na RADIAL†	5882230.5	328.5 mg/L	1.24	328.5 mg/L	1.24	0.38%

Sequence No.: 10

Sample ID: SEQ-IFAL

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 10/30/2013 10:13:51 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFAL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	17263917.2	4.129	mg/L	0.0170				0.41%
Y RADIAL	242969.3	4.491	mg/L	0.0333				0.74%
As 188.979†	-94.5	0.0008	mg/L	0.00176	0.0008	mg/L	0.00176	231.28%
Tl 190.801†	-95.1	0.0025	mg/L	0.00173	0.0025	mg/L	0.00173	68.06%
Se 196.026†	-237.0	-0.0080	mg/L	0.00512	-0.0080	mg/L	0.00512	63.95%
Zn 206.200†	1372.4	-0.0019	mg/L	0.00009	-0.0019	mg/L	0.00009	4.75%
Sb 206.836†	20.7	-0.0041	mg/L	0.00084	-0.0041	mg/L	0.00084	20.51%
Pb 220.353†	-476.6	-0.0097	mg/L	0.00157	-0.0097	mg/L	0.00157	16.15%
Cd 226.502†	6053.3	-0.0026	mg/L	0.00041	-0.0026	mg/L	0.00041	15.63%
Co 228.616†	-64.7	-0.0015	mg/L	0.00044	-0.0015	mg/L	0.00044	30.27%
Ni 232.003†	-686.6	0.0029	mg/L	0.00130	0.0029	mg/L	0.00130	45.59%
Ba 233.527†	282.6	0.0017	mg/L	0.00004	0.0017	mg/L	0.00004	2.53%
Mn 257.610†	-21540.8	-0.0230	mg/L	0.00018	-0.0230	mg/L	0.00018	0.80%
Cr 267.716†	-1303.8	-0.0079	mg/L	0.00025	-0.0079	mg/L	0.00025	3.13%
Fe 273.955†	4413551.0	175.5	mg/L	1.64	175.5	mg/L	1.64	0.94%
Mg 279.077†	9759451.9	480.9	mg/L	4.48	480.9	mg/L	4.48	0.93%
V 292.402†	4299.0	-0.0042	mg/L	0.00016	-0.0042	mg/L	0.00016	3.86%
Al 308.215†	21874532.0	522.6	mg/L	1.61	522.6	mg/L	1.61	0.31%
Be 313.107†	-939.6	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	19.22%
Cu 324.752†	-2889.1	-0.0213	mg/L	0.00008	-0.0213	mg/L	0.00008	0.38%
Ag 338.289†	1268.0	-0.0002	mg/L	0.00033	-0.0002	mg/L	0.00033	157.51%
Na 330.237†	-2146.1	0.5253	mg/L	0.04023	0.5253	mg/L	0.04023	7.66%
Ca 227.546†	372464.8	536.2	mg/L	5.85	536.2	mg/L	5.85	1.09%
Al RADIAL†	1122435.0	521.9	mg/L	0.86	521.9	mg/L	0.86	0.16%
Fe RADIAL†	22253.8	192.5	mg/L	1.21	192.5	mg/L	1.21	0.63%
Ca RADIAL†	1249848.6	482.4	mg/L	0.33	482.4	mg/L	0.33	0.07%
K RADIAL†	251.4	0.1569	mg/L	0.00698	0.1569	mg/L	0.00698	4.45%
Mg RADIAL†	68680.4	506.9	mg/L	4.21	506.9	mg/L	4.21	0.83%
Na RADIAL†	50065.9	2.796	mg/L	0.0682	2.796	mg/L	0.0682	2.44%

Sequence No.: 11

Sample ID: SEQ-IFB1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 10/30/2013 10:21:06 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	17387455.2	4.159 mg/L	0.0359			0.86%
Y RADIAL	245255.4	4.533 mg/L	0.0105			0.23%
As 188.979†	1907.3	0.5317 mg/L	0.01261	0.5317 mg/L	0.01261	2.37%
Tl 190.801†	2375.9	0.4512 mg/L	0.00872	0.4512 mg/L	0.00872	1.93%
Se 196.026†	655.3	0.4881 mg/L	0.01192	0.4881 mg/L	0.01192	2.44%
Zn 206.200†	73991.0	0.8911 mg/L	0.01317	0.8911 mg/L	0.01317	1.48%
Sb 206.836†	2833.2	0.5030 mg/L	0.00779	0.5030 mg/L	0.00779	1.55%
Pb 220.353†	9268.3	0.8584 mg/L	0.01414	0.8584 mg/L	0.01414	1.65%
Cd 226.502†	180242.4	0.8748 mg/L	0.01021	0.8748 mg/L	0.01021	1.17%
Co 228.616†	19673.2	0.4425 mg/L	0.00734	0.4425 mg/L	0.00734	1.66%
Ni 232.003†	26261.6	1.017 mg/L	0.0162	1.017 mg/L	0.0162	1.59%
Ba 233.527†	86041.2	0.5114 mg/L	0.00844	0.5114 mg/L	0.00844	1.65%
Mn 257.610†	405448.3	0.4451 mg/L	0.00401	0.4451 mg/L	0.00401	0.90%
Cr 267.716†	74005.1	0.4493 mg/L	0.00424	0.4493 mg/L	0.00424	0.94%
Fe 273.955†	4473634.3	177.8 mg/L	1.54	177.8 mg/L	1.54	0.87%
Mg 279.077†	9884895.1	487.1 mg/L	5.03	487.1 mg/L	5.03	1.03%
V 292.402†	203930.0	0.4593 mg/L	0.00468	0.4593 mg/L	0.00468	1.02%
Al 308.215†	21907580.7	523.4 mg/L	0.70	523.4 mg/L	0.70	0.13%
Be 313.107†	2685422.9	0.4707 mg/L	0.00485	0.4707 mg/L	0.00485	1.03%
Cu 324.752†	215939.5	0.5090 mg/L	0.00439	0.5090 mg/L	0.00439	0.86%
Ag 338.289†	246345.6	1.049 mg/L	0.0092	1.049 mg/L	0.0092	0.87%
Na 330.237†	108.4	1.900 mg/L	0.0492	1.900 mg/L	0.0492	2.59%
Ca 227.546†	371058.1	534.1 mg/L	6.04	534.1 mg/L	6.04	1.13%
Al RADIAL†	1128086.4	524.5 mg/L	1.06	524.5 mg/L	1.06	0.20%
Fe RADIAL†	22410.7	193.8 mg/L	1.96	193.8 mg/L	1.96	1.01%
Ca RADIAL†	1254886.5	484.3 mg/L	1.08	484.3 mg/L	1.08	0.22%
K RADIAL†	230.2	0.1437 mg/L	0.02603	0.1437 mg/L	0.02603	18.12%
Mg RADIAL†	68977.2	509.1 mg/L	4.73	509.1 mg/L	4.73	0.93%
Na RADIAL†	38918.6	2.173 mg/L	0.0551	2.173 mg/L	0.0551	2.54%

Sequence No.: 12

Sample ID: SEQ-CCV1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 10/30/2013 10:27:54 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	19834986.5	4.744 mg/L	0.0132			0.28%
Y RADIAL	259251.2	4.792 mg/L	0.0495			1.03%
As 188.979†	937.6	0.2493 mg/L	0.00261	0.2493 mg/L	0.00261	1.05%
Tl 190.801†	1391.0	0.2529 mg/L	0.00053	0.2529 mg/L	0.00053	0.21%
Se 196.026†	449.5	0.2526 mg/L	0.00070	0.2526 mg/L	0.00070	0.28%
Zn 206.200†	206794.4	2.543 mg/L	0.0196	2.543 mg/L	0.0196	0.77%
Sb 206.836†	1418.1	0.2556 mg/L	0.00456	0.2556 mg/L	0.00456	1.78%
Pb 220.353†	2851.3	0.2546 mg/L	0.00079	0.2546 mg/L	0.00079	0.31%
Cd 226.502†	24892.2	0.1245 mg/L	0.00104	0.1245 mg/L	0.00104	0.84%
Co 228.616†	111779.5	2.514 mg/L	0.0189	2.514 mg/L	0.0189	0.75%
Ni 232.003†	66133.5	2.488 mg/L	0.0186	2.488 mg/L	0.0186	0.75%
Ba 233.527†	1731985.6	10.29 mg/L	0.060	10.29 mg/L	0.060	0.59%
Mn 257.610†	2313605.9	2.536 mg/L	0.0139	2.536 mg/L	0.0139	0.55%
Cr 267.716†	166098.4	1.008 mg/L	0.0080	1.008 mg/L	0.0080	0.79%
Fe 273.955†	126351.8	5.023 mg/L	0.0360	5.023 mg/L	0.0360	0.72%
Mg 279.077†	493448.7	24.32 mg/L	0.110	24.32 mg/L	0.110	0.45%
V 292.402†	1071198.6	2.488 mg/L	0.0182	2.488 mg/L	0.0182	0.73%
Al 308.215†	404397.6	9.662 mg/L	0.0860	9.662 mg/L	0.0860	0.89%
Be 313.107†	1419117.6	0.2487 mg/L	0.00171	0.2487 mg/L	0.00171	0.69%
Cu 324.752†	510854.6	1.237 mg/L	0.0114	1.237 mg/L	0.0114	0.92%
Ag 338.289†	289251.6	1.237 mg/L	0.0081	1.237 mg/L	0.0081	0.65%
Na 330.237†	38499.0	23.38 mg/L	0.155	23.38 mg/L	0.155	0.66%
Ca 227.546†	16602.9	23.88 mg/L	0.221	23.88 mg/L	0.221	0.93%
Al RADIAL†	21979.2	10.22 mg/L	0.087	10.22 mg/L	0.087	0.85%
Fe RADIAL†	599.4	5.185 mg/L	0.0497	5.185 mg/L	0.0497	0.96%
Ca RADIAL†	66708.8	25.75 mg/L	0.218	25.75 mg/L	0.218	0.85%
K RADIAL†	8108.6	5.060 mg/L	0.0248	5.060 mg/L	0.0248	0.49%
Mg RADIAL†	3550.2	26.20 mg/L	0.306	26.20 mg/L	0.306	1.17%
Na RADIAL†	466939.2	26.07 mg/L	0.094	26.07 mg/L	0.094	0.36%

Sequence No.: 13
 Sample ID: SEQ-CCB1
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 10/30/2013 10:35:40 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: SEQ-CCB1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20705831.7	4.953 mg/L	0.0238			0.48%
Y RADIAL	264170.7	4.883 mg/L	0.0233			0.48%
As 188.979†	-3.5	-0.0009 mg/L	0.00082	-0.0009 mg/L	0.00082	88.79%
Tl 190.801†	-2.2	-0.0004 mg/L	0.00123	-0.0004 mg/L	0.00123	309.23%
Se 196.026†	-3.6	-0.0020 mg/L	0.00083	-0.0020 mg/L	0.00083	41.87%
Zn 206.200†	15.8	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	22.81%
Sb 206.836†	12.0	0.0022 mg/L	0.00231	0.0022 mg/L	0.00231	106.75%
Pb 220.353†	4.8	0.0004 mg/L	0.00122	0.0004 mg/L	0.00122	282.81%
Cd 226.502†	12.9	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	58.56%
Co 228.616†	2.9	0.0001 mg/L	0.00014	0.0001 mg/L	0.00014	208.58%
Ni 232.003†	-22.2	-0.0008 mg/L	0.00031	-0.0008 mg/L	0.00031	36.91%
Ba 233.527†	7.0	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	55.76%
Mn 257.610†	8.3	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	146.01%
Cr 267.716†	18.7	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	71.80%
Fe 273.955†	28.7	0.0011 mg/L	0.00063	0.0011 mg/L	0.00063	55.63%
Mg 279.077†	9.1	0.0005 mg/L	0.00134	0.0005 mg/L	0.00134	297.16%
V 292.402†	76.4	0.0002 mg/L	0.00015	0.0002 mg/L	0.00015	86.83%
Al 308.215†	-84.7	-0.0020 mg/L	0.00236	-0.0020 mg/L	0.00236	116.58%
Be 313.107†	52.6	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	284.40%
Cu 324.752†	83.1	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	39.88%
Ag 338.289†	57.5	0.0002 mg/L	0.00029	0.0002 mg/L	0.00029	118.35%
Na 330.237†	40.8	0.0247 mg/L	0.00921	0.0247 mg/L	0.00921	37.24%
Ca 227.546†	4.8	0.0069 mg/L	0.01280	0.0069 mg/L	0.01280	185.53%
Al RADIAL†	7.8	0.0036 mg/L	0.00096	0.0036 mg/L	0.00096	26.37%
Fe RADIAL†	3.0	0.0257 mg/L	0.01237	0.0257 mg/L	0.01237	48.10%
Ca RADIAL†	3.9	0.0015 mg/L	0.00367	0.0015 mg/L	0.00367	241.56%
K RADIAL†	-82.5	-0.0515 mg/L	0.02079	-0.0515 mg/L	0.02079	40.38%
Mg RADIAL†	-3.7	-0.0272 mg/L	0.01810	-0.0272 mg/L	0.01810	66.67%
Na RADIAL†	-11936.2	-0.6665 mg/L	0.00832	-0.6665 mg/L	0.00832	1.25%

Sequence No.: 14
 Sample ID: BJ31391-BLK1
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 9
 Date Collected: 10/30/2013 10:40:42 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: BJ31391-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20591157.3	4.925 mg/L	0.0018			0.04%
Y RADIAL	266271.7	4.921 mg/L	0.0193			0.39%
As 188.979†	-2.6	-0.0007 mg/L	0.00047	-0.0007 mg/L	0.00047	69.59%
Tl 190.801†	-3.0	-0.0006 mg/L	0.00047	-0.0006 mg/L	0.00047	84.47%
Se 196.026†	-3.9	-0.0022 mg/L	0.00408	-0.0022 mg/L	0.00408	189.32%
Zn 206.200†	5.1	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	92.89%
Sb 206.836†	5.7	0.0010 mg/L	0.00130	0.0010 mg/L	0.00130	126.00%
Pb 220.353†	-2.6	-0.0002 mg/L	0.00139	-0.0002 mg/L	0.00139	598.74%
Cd 226.502†	11.3	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	14.83%
Co 228.616†	-0.5	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	451.19%
Ni 232.003†	-30.4	-0.0011 mg/L	0.00052	-0.0011 mg/L	0.00052	45.15%
Ba 233.527†	1.2	0.0000 mg/L	0.00006	0.0000 mg/L	0.00006	901.78%
Mn 257.610†	12.4	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	184.61%
Cr 267.716†	-4.1	0.0000 mg/L	0.00017	0.0000 mg/L	0.00017	674.13%
Fe 273.955†	68.0	0.0027 mg/L	0.00429	0.0027 mg/L	0.00429	158.60%
Mg 279.077†	60.1	0.0030 mg/L	0.00076	0.0030 mg/L	0.00076	25.71%
V 292.402†	42.9	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	64.02%
Al 308.215†	47.0	0.0011 mg/L	0.00066	0.0011 mg/L	0.00066	58.99%
Be 313.107†	-124.3	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	121.53%

Cu 324.752†	44.6	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	71.50%
Ag 338.289†	33.6	0.0001 mg/L	0.00050	0.0001 mg/L	0.00050	348.92%
Na 330.237†	44.8	0.0272 mg/L	0.03260	0.0272 mg/L	0.03260	120.02%
Ca 227.546†	10.2	0.0146 mg/L	0.01087	0.0146 mg/L	0.01087	74.49%
Al RADIAL†	0.8	0.0004 mg/L	0.00287	0.0004 mg/L	0.00287	758.37%
Fe RADIAL†	2.6	0.0223 mg/L	0.01843	0.0223 mg/L	0.01843	82.50%
Ca RADIAL†	-2.1	-0.0008 mg/L	0.00451	-0.0008 mg/L	0.00451	544.48%
K RADIAL†	-62.2	-0.0388 mg/L	0.02220	-0.0388 mg/L	0.02220	57.20%
Mg RADIAL†	-1.8	-0.0136 mg/L	0.03626	-0.0136 mg/L	0.03626	266.47%
Na RADIAL†	-11281.3	-0.6299 mg/L	0.05675	-0.6299 mg/L	0.05675	9.01%

Sequence No.: 15

Sample ID: BJ31391-SRM1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 10/30/2013 10:45:44 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BJ31391-SRM1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	21503167.2	5.143 mg/L	0.0455			0.88%
Y RADIAL	277229.9	5.124 mg/L	0.0702			1.37%
As 188.979†	1679.3	0.4454 mg/L	0.00235	0.4454 mg/L	0.00235	0.53%
Tl 190.801†	3128.6	0.5679 mg/L	0.00163	0.5679 mg/L	0.00163	0.29%
Se 196.026†	868.8	0.4824 mg/L	0.00304	0.4824 mg/L	0.00304	0.63%
Zn 206.200†	99320.4	1.221 mg/L	0.0092	1.221 mg/L	0.0092	0.75%
Sb 206.836†	511.7	0.0923 mg/L	0.00043	0.0923 mg/L	0.00043	0.47%
Pb 220.353†	15709.5	1.400 mg/L	0.0127	1.400 mg/L	0.0127	0.91%
Cd 226.502†	53828.6	0.2710 mg/L	0.00243	0.2710 mg/L	0.00243	0.90%
Co 228.616†	24402.3	0.5488 mg/L	0.00465	0.5488 mg/L	0.00465	0.85%
Ni 232.003†	33492.8	1.260 mg/L	0.0125	1.260 mg/L	0.0125	0.99%
Ba 233.527†	325802.1	1.937 mg/L	0.0165	1.937 mg/L	0.0165	0.85%
Mn 257.610†	363866.0	0.3989 mg/L	0.00326	0.3989 mg/L	0.00326	0.82%
Cr 267.716†	43116.9	0.2618 mg/L	0.00200	0.2618 mg/L	0.00200	0.76%
Fe 273.955†	33591.2	1.335 mg/L	0.0103	1.335 mg/L	0.0103	0.77%
Mg 279.077†	-11.3	-0.0005 mg/L	0.00059	-0.0005 mg/L	0.00059	120.23%
V 292.402†	192786.9	0.4478 mg/L	0.00404	0.4478 mg/L	0.00404	0.90%
Al 308.215†	13732.3	0.3282 mg/L	0.00189	0.3282 mg/L	0.00189	0.58%
Be 313.107†	3614020.8	0.6334 mg/L	0.00866	0.6334 mg/L	0.00866	1.37%
Cu 324.752†	210882.0	0.5111 mg/L	0.00355	0.5111 mg/L	0.00355	0.69%
Ag 338.289†	77456.4	0.3314 mg/L	0.00214	0.3314 mg/L	0.00214	0.65%
Na 330.237†	2822.7	1.716 mg/L	0.0299	1.716 mg/L	0.0299	1.74%
Ca 227.546†	63.1	0.0971 mg/L	0.03164	0.0971 mg/L	0.03164	32.57%
Al RADIAL†	832.6	0.3871 mg/L	0.00411	0.3871 mg/L	0.00411	1.06%
Fe RADIAL†	159.4	1.378 mg/L	0.0458	1.378 mg/L	0.0458	3.32%
Ca RADIAL†	-76.4	-0.0295 mg/L	0.00768	-0.0295 mg/L	0.00768	26.03%
K RADIAL†	-80.5	-0.0503 mg/L	0.02077	-0.0503 mg/L	0.02077	41.34%
Mg RADIAL†	-0.2	-0.0016 mg/L	0.02286	-0.0016 mg/L	0.02286	>999.9%
Na RADIAL†	-12950.0	-0.7231 mg/L	0.02653	-0.7231 mg/L	0.02653	3.67%

Sequence No.: 16

Sample ID: BJ31391-SRM2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 10/30/2013 10:50:54 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BJ31391-SRM2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	18981503.0	4.540 mg/L	0.0053			0.12%
Y RADIAL	252356.3	4.664 mg/L	0.0348			0.75%
As 188.979†	2.7	0.0007 mg/L	0.00013	0.0007 mg/L	0.00013	18.17%
Tl 190.801†	-4.8	-0.0009 mg/L	0.00193	-0.0009 mg/L	0.00193	222.53%
Se 196.026†	-9.5	-0.0053 mg/L	0.00296	-0.0053 mg/L	0.00296	56.22%
Zn 206.200†	60.7	0.0007 mg/L	0.00010	0.0007 mg/L	0.00010	13.93%
Sb 206.836†	1.0	0.0002 mg/L	0.00269	0.0002 mg/L	0.00269	>999.9%
Pb 220.353†	4.7	0.0011 mg/L	0.00097	0.0011 mg/L	0.00097	85.12%
Cd 226.502†	1.7	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	169.55%

Co 228.616†	0.7	0.0000 mg/L	0.00018	0.0000 mg/L	0.00018	>999.9%
Ni 232.003†	-65.8	-0.0025 mg/L	0.00041	-0.0025 mg/L	0.00041	16.49%
Ba 233.527†	61.7	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	20.67%
Mn 257.610†	437.7	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	18.81%
Cr 267.716†	16.3	0.0001 mg/L	0.00013	0.0001 mg/L	0.00013	134.60%
Fe 273.955†	63.5	0.0025 mg/L	0.00075	0.0025 mg/L	0.00075	29.53%
Mg 279.077†	586725.9	28.91 mg/L	0.248	28.91 mg/L	0.248	0.86%
V 292.402†	45.5	0.0001 mg/L	0.00012	0.0001 mg/L	0.00012	111.84%
Al 308.215†	2138.1	0.0497 mg/L	0.00132	0.0497 mg/L	0.00132	2.65%
Be 313.107†	-312.7	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	32.13%
Cu 324.752†	1550.6	0.0022 mg/L	0.00016	0.0022 mg/L	0.00016	7.12%
Ag 338.289†	251.6	0.0004 mg/L	0.00037	0.0004 mg/L	0.00037	83.45%
Na 330.237†	129897.8	78.78 mg/L	0.676	78.78 mg/L	0.676	0.86%
Ca 227.546†	42112.8	60.49 mg/L	0.562	60.49 mg/L	0.562	0.93%
Al RADIAL†	97.4	0.0453 mg/L	0.00104	0.0453 mg/L	0.00104	2.30%
Fe RADIAL†	1.8	0.0157 mg/L	0.01085	0.0157 mg/L	0.01085	69.10%
Ca RADIAL†	164140.5	63.35 mg/L	0.089	63.35 mg/L	0.089	0.14%
K RADIAL†	56975.9	35.56 mg/L	0.086	35.56 mg/L	0.086	0.24%
Mg RADIAL†	4118.4	30.39 mg/L	0.278	30.39 mg/L	0.278	0.92%
Na RADIAL†	1612557.7	90.05 mg/L	0.460	90.05 mg/L	0.460	0.51%

Sequence No.: 17

Sample ID: 13J0990-11

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 12

Date Collected: 10/30/2013 10:56:04 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J0990-11

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	21098190.8	5.047 mg/L	0.0297			0.59%
Y RADIAL	276920.6	5.118 mg/L	0.0275			0.54%
As 188.979†	-8.9	-0.0023 mg/L	0.00056	-0.0023 mg/L	0.00056	23.83%
Tl 190.801†	-3.8	-0.0007 mg/L	0.00110	-0.0007 mg/L	0.00110	162.26%
Se 196.026†	3.4	0.0020 mg/L	0.00141	0.0020 mg/L	0.00141	70.67%
Zn 206.200†	820.5	0.0101 mg/L	0.00015	0.0101 mg/L	0.00015	1.48%
Sb 206.836†	7.1	0.0013 mg/L	0.00110	0.0013 mg/L	0.00110	85.73%
Pb 220.353†	10.1	0.0011 mg/L	0.00043	0.0011 mg/L	0.00043	40.27%
Cd 226.502†	48.8	0.0002 mg/L	0.00009	0.0002 mg/L	0.00009	44.11%
Co 228.616†	106.7	0.0024 mg/L	0.00008	0.0024 mg/L	0.00008	3.35%
Ni 232.003†	159.7	0.0060 mg/L	0.00083	0.0060 mg/L	0.00083	13.76%
Ba 233.527†	3365.4	0.0200 mg/L	0.00026	0.0200 mg/L	0.00026	1.30%
Mn 257.610†	411979.0	0.4515 mg/L	0.00467	0.4515 mg/L	0.00467	1.03%
Cr 267.716†	54.3	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	5.46%
Fe 273.955†	4425.2	0.1759 mg/L	0.00206	0.1759 mg/L	0.00206	1.17%
Mg 279.077†	175317.1	8.639 mg/L	0.1044	8.639 mg/L	0.1044	1.21%
V 292.402†	88.1	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	14.95%
Al 308.215†	1565.9	0.0371 mg/L	0.00502	0.0371 mg/L	0.00502	13.55%
Be 313.107†	-69.2	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	216.92%
Cu 324.752†	903.1	0.0018 mg/L	0.00015	0.0018 mg/L	0.00015	8.08%
Ag 338.289†	57.0	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	91.04%
Na 330.237†	23614.9	14.33 mg/L	0.225	14.33 mg/L	0.225	1.57%
Ca 227.546†	10180.5	14.62 mg/L	0.217	14.62 mg/L	0.217	1.48%
Al RADIAL†	93.9	0.0436 mg/L	0.00368	0.0436 mg/L	0.00368	8.44%
Fe RADIAL†	23.5	0.2030 mg/L	0.01773	0.2030 mg/L	0.01773	8.74%
Ca RADIAL†	42044.8	16.23 mg/L	0.213	16.23 mg/L	0.213	1.31%
K RADIAL†	5717.9	3.568 mg/L	0.0515	3.568 mg/L	0.0515	1.44%
Mg RADIAL†	1200.9	8.862 mg/L	0.0571	8.862 mg/L	0.0571	0.64%
Na RADIAL†	343419.9	19.18 mg/L	0.061	19.18 mg/L	0.061	0.32%

Sequence No.: 18

Sample ID: BJ31391-DUP1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 10/30/2013 11:01:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BJ31391-DUP1

Mean Corrected

Calib.

Sample

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	20765105.1	4.967 mg/L	0.0244			0.49%
Y RADIAL	273966.4	5.064 mg/L	0.0139			0.27%
As 188.979†	-4.6	-0.0012 mg/L	0.00180	-0.0012 mg/L	0.00180	146.27%
Tl 190.801†	-3.5	-0.0006 mg/L	0.00079	-0.0006 mg/L	0.00079	124.86%
Se 196.026†	-4.5	-0.0025 mg/L	0.00352	-0.0025 mg/L	0.00352	142.16%
Zn 206.200†	826.7	0.0102 mg/L	0.00008	0.0102 mg/L	0.00008	0.83%
Sb 206.836†	0.5	0.0001 mg/L	0.00057	0.0001 mg/L	0.00057	619.76%
Pb 220.353†	2.1	0.0004 mg/L	0.00055	0.0004 mg/L	0.00055	152.23%
Cd 226.502†	59.2	0.0003 mg/L	0.00008	0.0003 mg/L	0.00008	28.69%
Co 228.616†	94.7	0.0021 mg/L	0.00005	0.0021 mg/L	0.00005	2.39%
Ni 232.003†	160.1	0.0060 mg/L	0.00030	0.0060 mg/L	0.00030	4.99%
Ba 233.527†	3416.8	0.0203 mg/L	0.00013	0.0203 mg/L	0.00013	0.65%
Mn 257.610†	420780.9	0.4611 mg/L	0.00353	0.4611 mg/L	0.00353	0.77%
Cr 267.716†	52.4	0.0003 mg/L	0.00006	0.0003 mg/L	0.00006	20.18%
Fe 273.955†	908.9	0.0361 mg/L	0.00056	0.0361 mg/L	0.00056	1.54%
Mg 279.077†	179066.4	8.824 mg/L	0.0665	8.824 mg/L	0.0665	0.75%
V 292.402†	108.2	0.0002 mg/L	0.00019	0.0002 mg/L	0.00019	75.25%
Al 308.215†	1745.9	0.0413 mg/L	0.00267	0.0413 mg/L	0.00267	6.46%
Be 313.107†	-105.5	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	61.63%
Cu 324.752†	918.9	0.0018 mg/L	0.00010	0.0018 mg/L	0.00010	5.28%
Ag 338.289†	15.7	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	40.46%
Na 330.237†	24010.9	14.57 mg/L	0.137	14.57 mg/L	0.137	0.94%
Ca 227.546†	10352.2	14.87 mg/L	0.136	14.87 mg/L	0.136	0.91%
Al RADIAL†	96.6	0.0449 mg/L	0.00122	0.0449 mg/L	0.00122	2.72%
Fe RADIAL†	5.1	0.0439 mg/L	0.00917	0.0439 mg/L	0.00917	20.89%
Ca RADIAL†	42230.9	16.30 mg/L	0.066	16.30 mg/L	0.066	0.40%
K RADIAL†	5824.1	3.634 mg/L	0.0313	3.634 mg/L	0.0313	0.86%
Mg RADIAL†	1207.7	8.913 mg/L	0.0502	8.913 mg/L	0.0502	0.56%
Na RADIAL†	346890.7	19.37 mg/L	0.081	19.37 mg/L	0.081	0.42%

Sequence No.: 19

Sample ID: BJ31391-MS1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 14

Date Collected: 10/30/2013 11:06:23 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BJ31391-MS1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20898624.6	4.999 mg/L	0.0252			0.50%
Y RADIAL	275738.3	5.096 mg/L	0.0627			1.23%
As 188.979†	7642.7	2.026 mg/L	0.0100	2.026 mg/L	0.0100	0.49%
Tl 190.801†	11369.8	2.063 mg/L	0.0094	2.063 mg/L	0.0094	0.45%
Se 196.026†	3783.5	2.097 mg/L	0.0128	2.097 mg/L	0.0128	0.61%
Zn 206.200†	44403.5	0.5460 mg/L	0.00286	0.5460 mg/L	0.00286	0.52%
Sb 206.836†	1334.1	0.2405 mg/L	0.00305	0.2405 mg/L	0.00305	1.27%
Pb 220.353†	5681.0	0.5065 mg/L	0.00273	0.5065 mg/L	0.00273	0.54%
Cd 226.502†	10265.5	0.0515 mg/L	0.00028	0.0515 mg/L	0.00028	0.54%
Co 228.616†	23610.8	0.5310 mg/L	0.00230	0.5310 mg/L	0.00230	0.43%
Ni 232.003†	14107.8	0.5308 mg/L	0.00261	0.5308 mg/L	0.00261	0.49%
Ba 233.527†	365949.8	2.175 mg/L	0.0161	2.175 mg/L	0.0161	0.74%
Mn 257.610†	899087.9	0.9855 mg/L	0.00874	0.9855 mg/L	0.00874	0.89%
Cr 267.716†	32883.0	0.1996 mg/L	0.00170	0.1996 mg/L	0.00170	0.85%
Fe 273.955†	27132.9	1.079 mg/L	0.0045	1.079 mg/L	0.0045	0.42%
Mg 279.077†	173283.2	8.539 mg/L	0.0683	8.539 mg/L	0.0683	0.80%
V 292.402†	217483.2	0.5052 mg/L	0.00458	0.5052 mg/L	0.00458	0.91%
Al 308.215†	82183.3	1.963 mg/L	0.0240	1.963 mg/L	0.0240	1.22%
Be 313.107†	293799.6	0.0515 mg/L	0.00041	0.0515 mg/L	0.00041	0.80%
Cu 324.752†	111231.4	0.2692 mg/L	0.00358	0.2692 mg/L	0.00358	1.33%
Ag 338.289†	10689.4	0.0456 mg/L	0.00005	0.0456 mg/L	0.00005	0.11%
Na 330.237†	25446.4	15.44 mg/L	0.086	15.44 mg/L	0.086	0.56%
Ca 227.546†	10428.0	14.99 mg/L	0.123	14.99 mg/L	0.123	0.82%
Al RADIAL†	4446.6	2.068 mg/L	0.0139	2.068 mg/L	0.0139	0.67%
Fe RADIAL†	126.3	1.092 mg/L	0.0249	1.092 mg/L	0.0249	2.28%
Ca RADIAL†	41545.4	16.04 mg/L	0.119	16.04 mg/L	0.119	0.74%
K RADIAL†	5673.4	3.540 mg/L	0.0384	3.540 mg/L	0.0384	1.09%
Mg RADIAL†	1195.4	8.822 mg/L	0.1375	8.822 mg/L	0.1375	1.56%
Na RADIAL†	341156.7	19.05 mg/L	0.056	19.05 mg/L	0.056	0.30%

Sequence No.: 20
 Sample ID: 13J0990-12
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 15
 Date Collected: 10/30/2013 11:14:00 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 13J0990-12

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20370249.2	4.872 mg/L	0.0456			0.94%
Y RADIAL	277975.7	5.138 mg/L	0.0432			0.84%
As 188.979†	-21.5	-0.0057 mg/L	0.00242	-0.0057 mg/L	0.00242	42.38%
Tl 190.801†	-16.9	-0.0031 mg/L	0.00091	-0.0031 mg/L	0.00091	29.77%
Se 196.026†	7.5	0.0042 mg/L	0.00125	0.0042 mg/L	0.00125	30.12%
Zn 206.200†	498.1	0.0061 mg/L	0.00011	0.0061 mg/L	0.00011	1.81%
Sb 206.836†	4.5	0.0008 mg/L	0.00118	0.0008 mg/L	0.00118	145.26%
Pb 220.353†	-9.1	0.0000 mg/L	0.00130	0.0000 mg/L	0.00130	>999.9%
Cd 226.502†	41.3	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	23.15%
Co 228.616†	527.1	0.0119 mg/L	0.00012	0.0119 mg/L	0.00012	1.02%
Ni 232.003†	433.0	0.0163 mg/L	0.00011	0.0163 mg/L	0.00011	0.69%
Ba 233.527†	6596.9	0.0392 mg/L	0.00025	0.0392 mg/L	0.00025	0.64%
Mn 257.610†	3037749.6	3.330 mg/L	0.0158	3.330 mg/L	0.0158	0.47%
Cr 267.716†	169.5	0.0010 mg/L	0.00012	0.0010 mg/L	0.00012	11.35%
Fe 273.955†	388.9	0.0155 mg/L	0.00690	0.0155 mg/L	0.00690	44.64%
Mg 279.077†	133062.4	6.555 mg/L	0.1022	6.555 mg/L	0.1022	1.56%
V 292.402†	-154.4	-0.0004 mg/L	0.00009	-0.0004 mg/L	0.00009	24.48%
Al 308.215†	65.6	0.0006 mg/L	0.00094	0.0006 mg/L	0.00094	156.82%
Be 313.107†	-290.9	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	42.07%
Cu 324.752†	982.1	0.0009 mg/L	0.00015	0.0009 mg/L	0.00015	17.47%
Ag 338.289†	175.9	0.0000 mg/L	0.00015	0.0000 mg/L	0.00015	>999.9%
Na 330.237†	15343.7	9.414 mg/L	0.2280	9.414 mg/L	0.2280	2.42%
Ca 227.546†	50251.1	72.18 mg/L	1.210	72.18 mg/L	1.210	1.68%
Al RADIAL†	-12.2	-0.0057 mg/L	0.00852	-0.0057 mg/L	0.00852	149.52%
Fe RADIAL†	2.1	0.0184 mg/L	0.01007	0.0184 mg/L	0.01007	54.63%
Ca RADIAL†	197098.4	76.07 mg/L	0.166	76.07 mg/L	0.166	0.22%
K RADIAL†	7366.2	4.597 mg/L	0.0181	4.597 mg/L	0.0181	0.39%
Mg RADIAL†	874.8	6.456 mg/L	0.0929	6.456 mg/L	0.0929	1.44%
Na RADIAL†	213074.4	11.90 mg/L	0.040	11.90 mg/L	0.040	0.33%

Sequence No.: 21
 Sample ID: 13J0990-13
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 16
 Date Collected: 10/30/2013 11:19:07 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 13J0990-13

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20547725.6	4.915 mg/L	0.0326			0.66%
Y RADIAL	271842.0	5.024 mg/L	0.0408			0.81%
As 188.979†	-21.0	-0.0056 mg/L	0.00136	-0.0056 mg/L	0.00136	24.39%
Tl 190.801†	-0.1	0.0000 mg/L	0.00114	0.0000 mg/L	0.00114	>999.9%
Se 196.026†	3.1	0.0017 mg/L	0.00113	0.0017 mg/L	0.00113	66.58%
Zn 206.200†	816.8	0.0100 mg/L	0.00021	0.0100 mg/L	0.00021	2.13%
Sb 206.836†	0.3	0.0001 mg/L	0.00099	0.0001 mg/L	0.00099	>999.9%
Pb 220.353†	5.7	0.0008 mg/L	0.00058	0.0008 mg/L	0.00058	73.96%
Cd 226.502†	55.5	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	6.13%
Co 228.616†	176.8	0.0040 mg/L	0.00011	0.0040 mg/L	0.00011	2.71%
Ni 232.003†	157.5	0.0059 mg/L	0.00007	0.0059 mg/L	0.00007	1.20%
Ba 233.527†	4745.0	0.0282 mg/L	0.00016	0.0282 mg/L	0.00016	0.57%
Mn 257.610†	657207.2	0.7202 mg/L	0.00582	0.7202 mg/L	0.00582	0.81%
Cr 267.716†	96.3	0.0006 mg/L	0.00012	0.0006 mg/L	0.00012	20.03%
Fe 273.955†	153.1	0.0061 mg/L	0.00588	0.0061 mg/L	0.00588	96.67%
Mg 279.077†	217400.0	10.71 mg/L	0.087	10.71 mg/L	0.087	0.81%
V 292.402†	-5.0	0.0000 mg/L	0.00013	0.0000 mg/L	0.00013	>999.9%
Al 308.215†	-221.5	-0.0058 mg/L	0.00298	-0.0058 mg/L	0.00298	51.35%
Be 313.107†	-109.5	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	84.54%
Cu 324.752†	852.2	0.0015 mg/L	0.00002	0.0015 mg/L	0.00002	1.61%

Ag 338.289†	145.4	0.0004 mg/L	0.00040	0.0004 mg/L	0.00040	106.93%
Na 330.237†	41292.2	25.05 mg/L	0.236	25.05 mg/L	0.236	0.94%
Ca 227.546†	16164.7	23.22 mg/L	0.162	23.22 mg/L	0.162	0.70%
Al RADIAL†	-19.9	-0.0093 mg/L	0.00300	-0.0093 mg/L	0.00300	32.32%
Fe RADIAL†	2.1	0.0185 mg/L	0.02245	0.0185 mg/L	0.02245	121.14%
Ca RADIAL†	67978.5	26.24 mg/L	0.164	26.24 mg/L	0.164	0.63%
K RADIAL†	4244.8	2.649 mg/L	0.0225	2.649 mg/L	0.0225	0.85%
Mg RADIAL†	1527.3	11.27 mg/L	0.140	11.27 mg/L	0.140	1.24%
Na RADIAL†	599063.1	33.45 mg/L	0.262	33.45 mg/L	0.262	0.78%

Sequence No.: 22

Sample ID: 13J0990-14

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 17

Date Collected: 10/30/2013 11:24:15 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J0990-14

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20104448.9	4.809 mg/L	0.0111			0.23%
Y RADIAL	273538.7	5.056 mg/L	0.0278			0.55%
As 188.979†	-16.6	-0.0044 mg/L	0.00112	-0.0044 mg/L	0.00112	25.42%
Tl 190.801†	0.7	0.0001 mg/L	0.00128	0.0001 mg/L	0.00128	>999.9%
Se 196.026†	7.3	0.0040 mg/L	0.00116	0.0040 mg/L	0.00116	28.93%
Zn 206.200†	153.9	0.0019 mg/L	0.00013	0.0019 mg/L	0.00013	6.86%
Sb 206.836†	1.6	0.0003 mg/L	0.00082	0.0003 mg/L	0.00082	278.93%
Pb 220.353†	6.1	0.0012 mg/L	0.00071	0.0012 mg/L	0.00071	58.75%
Cd 226.502†	52.4	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	27.09%
Co 228.616†	22.4	0.0005 mg/L	0.00011	0.0005 mg/L	0.00011	21.43%
Ni 232.003†	122.2	0.0046 mg/L	0.00064	0.0046 mg/L	0.00064	13.81%
Ba 233.527†	8015.6	0.0476 mg/L	0.00022	0.0476 mg/L	0.00022	0.46%
Mn 257.610†	361584.2	0.3958 mg/L	0.00151	0.3958 mg/L	0.00151	0.38%
Cr 267.716†	491.4	0.0030 mg/L	0.00007	0.0030 mg/L	0.00007	2.20%
Fe 273.955†	28.1	0.0011 mg/L	0.00015	0.0011 mg/L	0.00015	13.86%
Mg 279.077†	581030.1	28.63 mg/L	0.143	28.63 mg/L	0.143	0.50%
V 292.402†	114.9	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	14.55%
Al 308.215†	-316.6	-0.0089 mg/L	0.00153	-0.0089 mg/L	0.00153	17.31%
Be 313.107†	-125.6	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	173.64%
Cu 324.752†	1389.1	0.0019 mg/L	0.00003	0.0019 mg/L	0.00003	1.51%
Ag 338.289†	148.0	0.0000 mg/L	0.00033	0.0000 mg/L	0.00033	826.78%
Na 330.237†	43603.1	26.51 mg/L	0.037	26.51 mg/L	0.037	0.14%
Ca 227.546†	39241.3	56.37 mg/L	0.334	56.37 mg/L	0.334	0.59%
Al RADIAL†	-15.7	-0.0073 mg/L	0.00313	-0.0073 mg/L	0.00313	42.88%
Fe RADIAL†	0.7	0.0057 mg/L	0.02671	0.0057 mg/L	0.02671	466.46%
Ca RADIAL†	156010.3	60.22 mg/L	0.039	60.22 mg/L	0.039	0.06%
K RADIAL†	7465.4	4.659 mg/L	0.0511	4.659 mg/L	0.0511	1.10%
Mg RADIAL†	4039.4	29.81 mg/L	0.152	29.81 mg/L	0.152	0.51%
Na RADIAL†	605795.1	33.83 mg/L	0.062	33.83 mg/L	0.062	0.18%

Sequence No.: 23

Sample ID: 13J0990-15

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 18

Date Collected: 10/30/2013 11:29:21 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J0990-15

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	19613172.9	4.691 mg/L	0.0135			0.29%
Y RADIAL	270000.8	4.990 mg/L	0.0189			0.38%
As 188.979†	-28.0	-0.0074 mg/L	0.00152	-0.0074 mg/L	0.00152	20.44%
Tl 190.801†	-6.5	-0.0012 mg/L	0.00071	-0.0012 mg/L	0.00071	60.20%
Se 196.026†	3.6	0.0020 mg/L	0.00316	0.0020 mg/L	0.00316	157.68%
Zn 206.200†	504.9	0.0062 mg/L	0.00006	0.0062 mg/L	0.00006	0.95%
Sb 206.836†	4.2	0.0008 mg/L	0.00131	0.0008 mg/L	0.00131	174.93%
Pb 220.353†	8.0	0.0015 mg/L	0.00123	0.0015 mg/L	0.00123	83.61%
Cd 226.502†	37.0	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	11.94%
Co 228.616†	186.1	0.0042 mg/L	0.00007	0.0042 mg/L	0.00007	1.75%

Ni 232.003†	323.5	0.0122 mg/L	0.00076	0.0122 mg/L	0.00076	6.28%
Ba 233.527†	11929.0	0.0709 mg/L	0.00054	0.0709 mg/L	0.00054	0.76%
Mn 257.610†	1178716.9	1.292 mg/L	0.0048	1.292 mg/L	0.0048	0.37%
Cr 267.716†	188.3	0.0011 mg/L	0.00008	0.0011 mg/L	0.00008	6.80%
Fe 273.955†	10.3	0.0004 mg/L	0.00046	0.0004 mg/L	0.00046	111.22%
Mg 279.077†	646296.1	31.85 mg/L	0.144	31.85 mg/L	0.144	0.45%
V 292.402†	59.7	0.0001 mg/L	0.00022	0.0001 mg/L	0.00022	157.32%
Al 308.215†	318.1	0.0061 mg/L	0.00236	0.0061 mg/L	0.00236	38.50%
Be 313.107†	-601.7	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	22.42%
Cu 324.752†	1380.4	0.0017 mg/L	0.00022	0.0017 mg/L	0.00022	13.16%
Ag 338.289†	211.8	0.0002 mg/L	0.00024	0.0002 mg/L	0.00024	102.91%
Na 330.237†	131740.7	79.90 mg/L	1.174	79.90 mg/L	1.174	1.47%
Ca 227.546†	44442.2	63.84 mg/L	0.887	63.84 mg/L	0.887	1.39%
Al RADIAL†	-24.8	-0.0116 mg/L	0.00114	-0.0116 mg/L	0.00114	9.87%
Fe RADIAL†	1.8	0.0154 mg/L	0.00655	0.0154 mg/L	0.00655	42.51%
Ca RADIAL†	172141.1	66.44 mg/L	0.117	66.44 mg/L	0.117	0.18%
K RADIAL†	6432.0	4.014 mg/L	0.0386	4.014 mg/L	0.0386	0.96%
Mg RADIAL†	4499.7	33.21 mg/L	0.118	33.21 mg/L	0.118	0.36%
Na RADIAL†	1615208.0	90.19 mg/L	0.259	90.19 mg/L	0.259	0.29%

Sequence No.: 24

Sample ID: SEQ-CCV2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 10/30/2013 11:34:34 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV2

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	19704235.4	4.713 mg/L	0.0072			0.15%
Y RADIAL	266401.5	4.924 mg/L	0.0273			0.55%
As 188.979†	933.8	0.2483 mg/L	0.00187	0.2483 mg/L	0.00187	0.75%
Tl 190.801†	1385.4	0.2519 mg/L	0.00232	0.2519 mg/L	0.00232	0.92%
Se 196.026†	447.2	0.2514 mg/L	0.00261	0.2514 mg/L	0.00261	1.04%
Zn 206.200†	209079.6	2.571 mg/L	0.0120	2.571 mg/L	0.0120	0.47%
Sb 206.836†	1404.1	0.2530 mg/L	0.00441	0.2530 mg/L	0.00441	1.74%
Pb 220.353†	2861.0	0.2555 mg/L	0.00175	0.2555 mg/L	0.00175	0.68%
Cd 226.502†	25128.0	0.1257 mg/L	0.00031	0.1257 mg/L	0.00031	0.25%
Co 228.616†	113409.8	2.551 mg/L	0.0042	2.551 mg/L	0.0042	0.16%
Ni 232.003†	67244.9	2.530 mg/L	0.0070	2.530 mg/L	0.0070	0.28%
Ba 233.527†	1753126.3	10.42 mg/L	0.027	10.42 mg/L	0.027	0.26%
Mn 257.610†	2342216.2	2.567 mg/L	0.0062	2.567 mg/L	0.0062	0.24%
Cr 267.716†	168793.1	1.025 mg/L	0.0007	1.025 mg/L	0.0007	0.07%
Fe 273.955†	128437.0	5.106 mg/L	0.0052	5.106 mg/L	0.0052	0.10%
Mg 279.077†	512776.2	25.27 mg/L	0.057	25.27 mg/L	0.057	0.22%
V 292.402†	1085535.6	2.521 mg/L	0.0058	2.521 mg/L	0.0058	0.23%
Al 308.215†	409279.6	9.778 mg/L	0.0539	9.778 mg/L	0.0539	0.55%
Be 313.107†	1438667.0	0.2522 mg/L	0.00066	0.2522 mg/L	0.00066	0.26%
Cu 324.752†	516980.8	1.252 mg/L	0.0077	1.252 mg/L	0.0077	0.62%
Ag 338.289†	292458.5	1.251 mg/L	0.0037	1.251 mg/L	0.0037	0.30%
Na 330.237†	38650.4	23.48 mg/L	0.053	23.48 mg/L	0.053	0.23%
Ca 227.546†	16889.9	24.29 mg/L	0.113	24.29 mg/L	0.113	0.47%
Al RADIAL†	21695.3	10.09 mg/L	0.097	10.09 mg/L	0.097	0.96%
Fe RADIAL†	593.8	5.136 mg/L	0.0426	5.136 mg/L	0.0426	0.83%
Ca RADIAL†	65976.8	25.47 mg/L	0.361	25.47 mg/L	0.361	1.42%
K RADIAL†	7950.0	4.961 mg/L	0.0252	4.961 mg/L	0.0252	0.51%
Mg RADIAL†	3493.4	25.78 mg/L	0.199	25.78 mg/L	0.199	0.77%
Na RADIAL†	459816.1	25.68 mg/L	0.053	25.68 mg/L	0.053	0.21%

Sequence No.: 25

Sample ID: SEQ-CCB2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 10/30/2013 11:42:20 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB2

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD

Y 371.029	20585287.0	4.924 mg/L	0.0154		0.31%
Y RADIAL	270115.6	4.992 mg/L	0.0414		0.83%
As 188.979†	-4.5	-0.0012 mg/L	0.00072	-0.0012 mg/L	0.00072 60.09%
Tl 190.801†	-2.4	-0.0004 mg/L	0.00103	-0.0004 mg/L	0.00103 239.69%
Se 196.026†	-7.5	-0.0041 mg/L	0.00297	-0.0041 mg/L	0.00297 71.79%
Zn 206.200†	9.2	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003 23.79%
Sb 206.836†	10.6	0.0019 mg/L	0.00058	0.0019 mg/L	0.00058 30.67%
Pb 220.353†	12.4	0.0011 mg/L	0.00113	0.0011 mg/L	0.00113 102.26%
Cd 226.502†	6.1	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005 172.72%
Co 228.616†	6.1	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008 56.40%
Ni 232.003†	-21.5	-0.0008 mg/L	0.00036	-0.0008 mg/L	0.00036 44.11%
Ba 233.527†	3.9	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001 47.71%
Mn 257.610†	8.2	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002 209.94%
Cr 267.716†	15.8	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002 21.78%
Fe 273.955†	7.1	0.0003 mg/L	0.00017	0.0003 mg/L	0.00017 61.37%
Mg 279.077†	-5.2	-0.0003 mg/L	0.00070	-0.0003 mg/L	0.00070 273.09%
V 292.402†	69.6	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010 61.59%
Al 308.215†	231.8	0.0055 mg/L	0.00185	0.0055 mg/L	0.00185 33.49%
Be 313.107†	-92.7	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003 172.21%
Cu 324.752†	178.2	0.0004 mg/L	0.00013	0.0004 mg/L	0.00013 29.01%
Ag 338.289†	49.2	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014 64.41%
Na 330.237†	61.8	0.0374 mg/L	0.05896	0.0374 mg/L	0.05896 157.54%
Ca 227.546†	2.7	0.0039 mg/L	0.03852	0.0039 mg/L	0.03852 976.04%
Al RADIAL†	4.3	0.0020 mg/L	0.00159	0.0020 mg/L	0.00159 78.80%
Fe RADIAL†	0.5	0.0043 mg/L	0.00485	0.0043 mg/L	0.00485 111.59%
Ca RADIAL†	-3.8	-0.0015 mg/L	0.00466	-0.0015 mg/L	0.00466 319.66%
K RADIAL†	-79.3	-0.0495 mg/L	0.01516	-0.0495 mg/L	0.01516 30.64%
Mg RADIAL†	-0.2	-0.0017 mg/L	0.00390	-0.0017 mg/L	0.00390 225.22%
Na RADIAL†	-17336.4	-0.9681 mg/L	0.03419	-0.9681 mg/L	0.03419 3.53%

Sequence No.: 26

Sample ID: 13J0990-16

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 19

Date Collected: 10/30/2013 11:47:24 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J0990-16

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20180155.9	4.827 mg/L		0.0561				1.16%
Y RADIAL	274802.0	5.079 mg/L		0.0364				0.72%
As 188.979†	-17.1	-0.0045 mg/L		0.00211	-0.0045 mg/L		0.00211	46.55%
Tl 190.801†	-3.3	-0.0006 mg/L		0.00066	-0.0006 mg/L		0.00066	109.46%
Se 196.026†	7.6	0.0042 mg/L		0.00343	0.0042 mg/L		0.00343	81.44%
Zn 206.200†	299.8	0.0037 mg/L		0.00027	0.0037 mg/L		0.00027	7.31%
Sb 206.836†	6.2	0.0011 mg/L		0.00203	0.0011 mg/L		0.00203	182.34%
Pb 220.353†	-12.3	-0.0004 mg/L		0.00021	-0.0004 mg/L		0.00021	50.44%
Cd 226.502†	33.4	0.0002 mg/L		0.00008	0.0002 mg/L		0.00008	50.64%
Co 228.616†	124.6	0.0028 mg/L		0.00012	0.0028 mg/L		0.00012	4.30%
Ni 232.003†	232.1	0.0087 mg/L		0.00073	0.0087 mg/L		0.00073	8.31%
Ba 233.527†	7717.3	0.0459 mg/L		0.00110	0.0459 mg/L		0.00110	2.39%
Mn 257.610†	474228.7	0.5193 mg/L		0.00946	0.5193 mg/L		0.00946	1.82%
Cr 267.716†	-23.9	-0.0001 mg/L		0.00018	-0.0001 mg/L		0.00018	123.10%
Fe 273.955†	113.8	0.0045 mg/L		0.00033	0.0045 mg/L		0.00033	7.23%
Mg 279.077†	572486.6	28.21 mg/L		0.505	28.21 mg/L		0.505	1.79%
V 292.402†	-3.7	0.0000 mg/L		0.00011	0.0000 mg/L		0.00011	>999.9%
Al 308.215†	94.7	0.0010 mg/L		0.00187	0.0010 mg/L		0.00187	194.53%
Be 313.107†	-178.2	0.0000 mg/L		0.00003	0.0000 mg/L		0.00003	97.28%
Cu 324.752†	1268.4	0.0016 mg/L		0.00007	0.0016 mg/L		0.00007	4.39%
Ag 338.289†	169.2	0.0001 mg/L		0.00038	0.0001 mg/L		0.00038	315.88%
Na 330.237†	83770.2	50.83 mg/L		1.191	50.83 mg/L		1.191	2.34%
Ca 227.546†	39829.4	57.21 mg/L		1.254	57.21 mg/L		1.254	2.19%
Al RADIAL†	-20.3	-0.0094 mg/L		0.00179	-0.0094 mg/L		0.00179	18.92%
Fe RADIAL†	0.3	0.0023 mg/L		0.02423	0.0023 mg/L		0.02423	>999.9%
Ca RADIAL†	157416.6	60.76 mg/L		0.106	60.76 mg/L		0.106	0.17%
K RADIAL†	8906.6	5.558 mg/L		0.0497	5.558 mg/L		0.0497	0.89%
Mg RADIAL†	3956.0	29.20 mg/L		0.230	29.20 mg/L		0.230	0.79%
Na RADIAL†	1098141.1	61.32 mg/L		0.311	61.32 mg/L		0.311	0.51%

Sequence No.: 27
 Sample ID: SEQ-SRD1
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 20
 Date Collected: 10/30/2013 11:52:32 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: SEQ-SRD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20987580.9	5.020	mg/L	0.0252				0.50%
Y RADIAL	278939.0	5.156	mg/L	0.0490				0.95%
As 188.979†	-1.7	-0.0004	mg/L	0.00239	-0.0004	mg/L	0.00239	531.91%
Tl 190.801†	-3.9	-0.0007	mg/L	0.00063	-0.0007	mg/L	0.00063	89.93%
Se 196.026†	-9.0	-0.0050	mg/L	0.00243	-0.0050	mg/L	0.00243	48.56%
Zn 206.200†	64.7	0.0008	mg/L	0.00007	0.0008	mg/L	0.00007	8.73%
Sb 206.836†	4.3	0.0008	mg/L	0.00134	0.0008	mg/L	0.00134	174.74%
Pb 220.353†	-2.0	-0.0001	mg/L	0.00026	-0.0001	mg/L	0.00026	487.68%
Cd 226.502†	20.4	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	59.02%
Co 228.616†	31.9	0.0007	mg/L	0.00025	0.0007	mg/L	0.00025	34.76%
Ni 232.003†	19.4	0.0007	mg/L	0.00015	0.0007	mg/L	0.00015	21.08%
Ba 233.527†	1565.5	0.0093	mg/L	0.00007	0.0093	mg/L	0.00007	0.76%
Mn 257.610†	92899.0	0.1017	mg/L	0.00065	0.1017	mg/L	0.00065	0.64%
Cr 267.716†	15.6	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	101.14%
Fe 273.955†	32.1	0.0013	mg/L	0.00048	0.0013	mg/L	0.00048	37.33%
Mg 279.077†	112335.8	5.535	mg/L	0.0414	5.535	mg/L	0.0414	0.75%
V 292.402†	81.6	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	59.40%
Al 308.215†	345.1	0.0080	mg/L	0.00198	0.0080	mg/L	0.00198	24.72%
Be 313.107†	-82.8	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	151.31%
Cu 324.752†	484.1	0.0009	mg/L	0.00011	0.0009	mg/L	0.00011	12.66%
Ag 338.289†	66.2	0.0002	mg/L	0.00025	0.0002	mg/L	0.00025	144.68%
Na 330.237†	13944.2	8.464	mg/L	0.0371	8.464	mg/L	0.0371	0.44%
Ca 227.546†	7500.2	10.77	mg/L	0.058	10.77	mg/L	0.058	0.54%
Al RADIAL†	8.2	0.0038	mg/L	0.00123	0.0038	mg/L	0.00123	32.13%
Fe RADIAL†	2.0	0.0169	mg/L	0.00983	0.0169	mg/L	0.00983	58.06%
Ca RADIAL†	30134.2	11.63	mg/L	0.023	11.63	mg/L	0.023	0.20%
K RADIAL†	1552.2	0.9686	mg/L	0.02322	0.9686	mg/L	0.02322	2.40%
Mg RADIAL†	747.1	5.514	mg/L	0.0593	5.514	mg/L	0.0593	1.08%
Na RADIAL†	201937.2	11.28	mg/L	0.085	11.28	mg/L	0.085	0.75%

Sequence No.: 28
 Sample ID: BJ31394-BLK1
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 21
 Date Collected: 10/30/2013 11:57:34 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: BJ31394-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20734732.1	4.960	mg/L	0.0454				0.92%
Y RADIAL	273385.4	5.053	mg/L	0.0214				0.42%
As 188.979†	-7.3	-0.0019	mg/L	0.00113	-0.0019	mg/L	0.00113	58.86%
Tl 190.801†	-3.8	-0.0007	mg/L	0.00111	-0.0007	mg/L	0.00111	160.79%
Se 196.026†	-2.6	-0.0015	mg/L	0.00253	-0.0015	mg/L	0.00253	173.04%
Zn 206.200†	6.2	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	163.16%
Sb 206.836†	2.5	0.0005	mg/L	0.00129	0.0005	mg/L	0.00129	281.28%
Pb 220.353†	-5.7	-0.0005	mg/L	0.00169	-0.0005	mg/L	0.00169	335.64%
Cd 226.502†	-0.3	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	>999.9%
Co 228.616†	1.3	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	485.39%
Ni 232.003†	-19.7	-0.0007	mg/L	0.00031	-0.0007	mg/L	0.00031	42.57%
Ba 233.527†	-0.4	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	539.35%
Mn 257.610†	14.4	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	88.23%
Cr 267.716†	10.6	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	53.65%
Fe 273.955†	-12.1	-0.0005	mg/L	0.00034	-0.0005	mg/L	0.00034	71.88%
Mg 279.077†	71.5	0.0035	mg/L	0.00104	0.0035	mg/L	0.00104	29.44%
V 292.402†	46.8	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	41.93%
Al 308.215†	293.0	0.0070	mg/L	0.00316	0.0070	mg/L	0.00316	45.11%
Be 313.107†	-55.1	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	298.88%
Cu 324.752†	214.9	0.0005	mg/L	0.00012	0.0005	mg/L	0.00012	23.15%
Ag 338.289†	24.1	0.0001	mg/L	0.00017	0.0001	mg/L	0.00017	162.35%

Na 330.237†	6.2	0.0038 mg/L	0.03299	0.0038 mg/L	0.03299	871.85%
Ca 227.546†	13.6	0.0195 mg/L	0.01289	0.0195 mg/L	0.01289	65.96%
Al RADIAL†	0.2	0.0001 mg/L	0.00211	0.0001 mg/L	0.00211	>999.9%
Fe RADIAL†	-0.3	-0.0026 mg/L	0.00148	-0.0026 mg/L	0.00148	57.64%
Ca RADIAL†	-1.4	-0.0005 mg/L	0.00332	-0.0005 mg/L	0.00332	618.01%
K RADIAL†	-91.7	-0.0572 mg/L	0.00374	-0.0572 mg/L	0.00374	6.53%
Mg RADIAL†	0.5	0.0034 mg/L	0.01701	0.0034 mg/L	0.01701	507.04%
Na RADIAL†	-17164.4	-0.9585 mg/L	0.01447	-0.9585 mg/L	0.01447	1.51%

Sequence No.: 29

Sample ID: BJ31394-SRM1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 22

Date Collected: 10/30/2013 12:02:36 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BJ31394-SRM1

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	21794570.1	5.213 mg/L	0.0182			0.35%
Y RADIAL	286762.5	5.300 mg/L	0.0482			0.91%
As 188.979†	1662.1	0.4408 mg/L	0.00317	0.4408 mg/L	0.00317	0.72%
Tl 190.801†	3102.6	0.5632 mg/L	0.00285	0.5632 mg/L	0.00285	0.51%
Se 196.026†	856.4	0.4755 mg/L	0.00107	0.4755 mg/L	0.00107	0.23%
Zn 206.200†	99567.2	1.224 mg/L	0.0048	1.224 mg/L	0.0048	0.39%
Sb 206.836†	501.7	0.0905 mg/L	0.00124	0.0905 mg/L	0.00124	1.37%
Pb 220.353†	15692.8	1.398 mg/L	0.0085	1.398 mg/L	0.0085	0.60%
Cd 226.502†	53693.9	0.2703 mg/L	0.00149	0.2703 mg/L	0.00149	0.55%
Co 228.616†	24320.5	0.5470 mg/L	0.00378	0.5470 mg/L	0.00378	0.69%
Ni 232.003†	33263.9	1.251 mg/L	0.0103	1.251 mg/L	0.0103	0.82%
Ba 233.527†	325736.0	1.936 mg/L	0.0106	1.936 mg/L	0.0106	0.55%
Mn 257.610†	363256.2	0.3983 mg/L	0.00228	0.3983 mg/L	0.00228	0.57%
Cr 267.716†	43046.5	0.2613 mg/L	0.00133	0.2613 mg/L	0.00133	0.51%
Fe 273.955†	33513.4	1.332 mg/L	0.0079	1.332 mg/L	0.0079	0.60%
Mg 279.077†	21.5	0.0011 mg/L	0.00102	0.0011 mg/L	0.00102	91.08%
V 292.402†	191549.5	0.4449 mg/L	0.00313	0.4449 mg/L	0.00313	0.70%
Al 308.215†	13895.0	0.3321 mg/L	0.00517	0.3321 mg/L	0.00517	1.56%
Be 313.107†	3611632.5	0.6330 mg/L	0.00454	0.6330 mg/L	0.00454	0.72%
Cu 324.752†	208112.7	0.5044 mg/L	0.00476	0.5044 mg/L	0.00476	0.94%
Ag 338.289†	76589.1	0.3277 mg/L	0.00179	0.3277 mg/L	0.00179	0.55%
Na 330.237†	2664.3	1.620 mg/L	0.0329	1.620 mg/L	0.0329	2.03%
Ca 227.546†	80.3	0.1218 mg/L	0.01849	0.1218 mg/L	0.01849	15.18%
Al RADIAL†	811.9	0.3775 mg/L	0.00797	0.3775 mg/L	0.00797	2.11%
Fe RADIAL†	157.9	1.366 mg/L	0.0385	1.366 mg/L	0.0385	2.82%
Ca RADIAL†	-90.4	-0.0349 mg/L	0.00587	-0.0349 mg/L	0.00587	16.83%
K RADIAL†	-78.9	-0.0492 mg/L	0.02987	-0.0492 mg/L	0.02987	60.65%
Mg RADIAL†	-1.6	-0.0122 mg/L	0.03541	-0.0122 mg/L	0.03541	290.97%
Na RADIAL†	-18174.5	-1.015 mg/L	0.0078	-1.015 mg/L	0.0078	0.77%

Sequence No.: 30

Sample ID: BJ31394-SRM2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 23

Date Collected: 10/30/2013 12:07:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BJ31394-SRM2

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	18819385.0	4.502 mg/L	0.0288			0.64%
Y RADIAL	261326.4	4.830 mg/L	0.0490			1.01%
As 188.979†	-0.9	-0.0002 mg/L	0.00232	-0.0002 mg/L	0.00232	943.56%
Tl 190.801†	-10.5	-0.0019 mg/L	0.00057	-0.0019 mg/L	0.00057	30.09%
Se 196.026†	0.6	0.0004 mg/L	0.00233	0.0004 mg/L	0.00233	647.11%
Zn 206.200†	49.9	0.0006 mg/L	0.00008	0.0006 mg/L	0.00008	12.92%
Sb 206.836†	1.3	0.0002 mg/L	0.00124	0.0002 mg/L	0.00124	520.44%
Pb 220.353†	3.4	0.0010 mg/L	0.00023	0.0010 mg/L	0.00023	22.54%
Cd 226.502†	0.9	0.0000 mg/L	0.00009	0.0000 mg/L	0.00009	>999.9%
Co 228.616†	3.6	0.0001 mg/L	0.00018	0.0001 mg/L	0.00018	223.32%
Ni 232.003†	-60.9	-0.0023 mg/L	0.00021	-0.0023 mg/L	0.00021	9.14%

Ba 233.527†	63.9	0.0004 mg/L	0.00011	0.0004 mg/L	0.00011	29.04%
Mn 257.610†	427.7	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	17.87%
Cr 267.716†	20.5	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	74.95%
Fe 273.955†	68.0	0.0027 mg/L	0.00029	0.0027 mg/L	0.00029	10.66%
Mg 279.077†	594656.4	29.30 mg/L	0.304	29.30 mg/L	0.304	1.04%
V 292.402†	3.5	0.0000 mg/L	0.00026	0.0000 mg/L	0.00026	>999.9%
Al 308.215†	2763.7	0.0647 mg/L	0.00286	0.0647 mg/L	0.00286	4.42%
Be 313.107†	-642.3	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	11.38%
Cu 324.752†	1724.7	0.0026 mg/L	0.00005	0.0026 mg/L	0.00005	1.96%
Ag 338.289†	173.7	0.0001 mg/L	0.00044	0.0001 mg/L	0.00044	467.66%
Na 330.237†	132120.5	80.12 mg/L	0.768	80.12 mg/L	0.768	0.96%
Ca 227.546†	42897.6	61.62 mg/L	0.574	61.62 mg/L	0.574	0.93%
Al RADIAL†	91.5	0.0426 mg/L	0.00193	0.0426 mg/L	0.00193	4.54%
Fe RADIAL†	1.5	0.0132 mg/L	0.01178	0.0132 mg/L	0.01178	89.08%
Ca RADIAL†	163419.7	63.08 mg/L	0.120	63.08 mg/L	0.120	0.19%
K RADIAL†	56024.8	34.96 mg/L	0.435	34.96 mg/L	0.435	1.24%
Mg RADIAL†	4025.1	29.71 mg/L	0.275	29.71 mg/L	0.275	0.93%
Na RADIAL†	1601276.5	89.42 mg/L	0.472	89.42 mg/L	0.472	0.53%

Sequence No.: 31

Sample ID: 13J0990-11

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 24

Date Collected: 10/30/2013 12:12:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J0990-11

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20591450.5	4.925 mg/L		0.0232			0.47%
Y RADIAL	289784.6	5.356 mg/L		0.0332			0.62%
As 188.979†	-38.4	0.0052 mg/L		0.00228	0.0052 mg/L	0.00228	43.69%
Tl 190.801†	-181.7	-0.0239 mg/L		0.00156	-0.0239 mg/L	0.00156	6.53%
Se 196.026†	-118.0	0.0082 mg/L		0.00259	0.0082 mg/L	0.00259	31.40%
Zn 206.200†	43457.8	0.5281 mg/L		0.00404	0.5281 mg/L	0.00404	0.77%
Sb 206.836†	25.1	0.0035 mg/L		0.00200	0.0035 mg/L	0.00200	57.04%
Pb 220.353†	550.0	0.0421 mg/L		0.00077	0.0421 mg/L	0.00077	1.82%
Cd 226.502†	3383.1	-0.0027 mg/L		0.00014	-0.0027 mg/L	0.00014	5.06%
Co 228.616†	3857.1	0.0867 mg/L		0.00039	0.0867 mg/L	0.00039	0.45%
Ni 232.003†	6673.2	0.2681 mg/L		0.00430	0.2681 mg/L	0.00430	1.61%
Ba 233.527†	174516.3	1.037 mg/L		0.0074	1.037 mg/L	0.0074	0.71%
Mn 257.610†	2907591.5	3.192 mg/L		0.0220	3.192 mg/L	0.0220	0.69%
Cr 267.716†	31497.0	0.1912 mg/L		0.00138	0.1912 mg/L	0.00138	0.72%
Fe 273.955†	2634111.6	104.7 mg/L		0.73	104.7 mg/L	0.73	0.70%
Mg 279.077†	873235.0	43.04 mg/L		0.311	43.04 mg/L	0.311	0.72%
V 292.402†	59622.4	0.1300 mg/L		0.00080	0.1300 mg/L	0.00080	0.62%
Al 308.215†	2825332.0	67.51 mg/L		0.469	67.51 mg/L	0.469	0.69%
Be 313.107†	-85404.2	-0.0150 mg/L		0.00003	-0.0150 mg/L	0.00003	0.17%
Cu 324.752†	137889.3	0.3372 mg/L		0.00335	0.3372 mg/L	0.00335	0.99%
Ag 338.289†	-5227.5	-0.0227 mg/L		0.00055	-0.0227 mg/L	0.00055	2.41%
Na 330.237†	22667.5	14.30 mg/L		0.227	14.30 mg/L	0.227	1.58%
Ca 227.546†	23245.8	33.92 mg/L		0.362	33.92 mg/L	0.362	1.07%
Al RADIAL†	138527.7	64.41 mg/L		0.211	64.41 mg/L	0.211	0.33%
Fe RADIAL†	12544.8	108.5 mg/L		1.23	108.5 mg/L	1.23	1.13%
Ca RADIAL†	86762.2	33.49 mg/L		0.063	33.49 mg/L	0.063	0.19%
K RADIAL†	55576.9	34.68 mg/L		0.297	34.68 mg/L	0.297	0.86%
Mg RADIAL†	5913.0	43.64 mg/L		0.275	43.64 mg/L	0.275	0.63%
Na RADIAL†	337533.0	18.85 mg/L		0.051	18.85 mg/L	0.051	0.27%

Sequence No.: 32

Sample ID: 13J0990-12

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 25

Date Collected: 10/30/2013 12:17:40 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J0990-12

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20305880.7	4.857 mg/L		0.0188			0.39%

Y RADIAL	284112.4	5.251 mg/L	0.1136			2.16%
As 188.979†	-6.1	-0.0001 mg/L	0.00229	-0.0001 mg/L	0.00229	>999.9%
Tl 190.801†	-34.9	-0.0055 mg/L	0.00136	-0.0055 mg/L	0.00136	24.91%
Se 196.026†	-9.0	0.0022 mg/L	0.00249	0.0022 mg/L	0.00249	110.71%
Zn 206.200†	3298.7	0.0400 mg/L	0.00004	0.0400 mg/L	0.00004	0.11%
Sb 206.836†	0.4	0.0000 mg/L	0.00118	0.0000 mg/L	0.00118	>999.9%
Pb 220.353†	55.5	0.0049 mg/L	0.00042	0.0049 mg/L	0.00042	8.50%
Cd 226.502†	372.3	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	33.22%
Co 228.616†	719.9	0.0162 mg/L	0.00020	0.0162 mg/L	0.00020	1.24%
Ni 232.003†	922.1	0.0364 mg/L	0.00016	0.0364 mg/L	0.00016	0.44%
Ba 233.527†	16432.1	0.0977 mg/L	0.00035	0.0977 mg/L	0.00035	0.36%
Mn 257.610†	2680784.9	2.939 mg/L	0.0116	2.939 mg/L	0.0116	0.40%
Cr 267.716†	5719.9	0.0347 mg/L	0.00012	0.0347 mg/L	0.00012	0.35%
Fe 273.955†	259246.0	10.31 mg/L	0.075	10.31 mg/L	0.075	0.72%
Mg 279.077†	170574.6	8.405 mg/L	0.0296	8.405 mg/L	0.0296	0.35%
V 292.402†	5500.3	0.0119 mg/L	0.00013	0.0119 mg/L	0.00013	1.12%
Al 308.215†	212578.6	5.079 mg/L	0.0091	5.079 mg/L	0.0091	0.18%
Be 313.107†	-11270.5	-0.0020 mg/L	0.00005	-0.0020 mg/L	0.00005	2.73%
Cu 324.752†	11257.1	0.0262 mg/L	0.00005	0.0262 mg/L	0.00005	0.20%
Ag 338.289†	-495.8	-0.0029 mg/L	0.00031	-0.0029 mg/L	0.00031	10.87%
Na 330.237†	15867.5	9.781 mg/L	0.0511	9.781 mg/L	0.0511	0.52%
Ca 227.546†	49707.3	71.45 mg/L	0.369	71.45 mg/L	0.369	0.52%
Al RADIAL†	11022.6	5.125 mg/L	0.0611	5.125 mg/L	0.0611	1.19%
Fe RADIAL†	1185.5	10.25 mg/L	0.267	10.25 mg/L	0.267	2.60%
Ca RADIAL†	192429.9	74.27 mg/L	0.250	74.27 mg/L	0.250	0.34%
K RADIAL†	9877.2	6.164 mg/L	0.0664	6.164 mg/L	0.0664	1.08%
Mg RADIAL†	1126.0	8.310 mg/L	0.1679	8.310 mg/L	0.1679	2.02%
Na RADIAL†	225092.4	12.57 mg/L	0.147	12.57 mg/L	0.147	1.17%

Sequence No.: 33

Sample ID: 13J0990-13

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 26

Date Collected: 10/30/2013 12:22:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J0990-13

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20520063.1	4.908 mg/L		0.0311			0.63%
Y RADIAL	286937.9	5.303 mg/L		0.0539			1.02%
As 188.979†	-6.2	-0.0011 mg/L		0.00131	-0.0011 mg/L	0.00131	117.19%
Tl 190.801†	-10.6	-0.0016 mg/L		0.00136	-0.0016 mg/L	0.00136	83.56%
Se 196.026†	-3.1	0.0007 mg/L		0.00498	0.0007 mg/L	0.00498	666.90%
Zn 206.200†	2431.1	0.0297 mg/L		0.00020	0.0297 mg/L	0.00020	0.66%
Sb 206.836†	-5.8	-0.0011 mg/L		0.00111	-0.0011 mg/L	0.00111	104.94%
Pb 220.353†	33.1	0.0029 mg/L		0.00106	0.0029 mg/L	0.00106	36.51%
Cd 226.502†	156.7	0.0001 mg/L		0.00003	0.0001 mg/L	0.00003	21.63%
Co 228.616†	294.4	0.0066 mg/L		0.00015	0.0066 mg/L	0.00015	2.31%
Ni 232.003†	281.8	0.0112 mg/L		0.00042	0.0112 mg/L	0.00042	3.75%
Ba 233.527†	7242.3	0.0430 mg/L		0.00074	0.0430 mg/L	0.00074	1.71%
Mn 257.610†	680794.8	0.7463 mg/L		0.00598	0.7463 mg/L	0.00598	0.80%
Cr 267.716†	1337.7	0.0081 mg/L		0.00004	0.0081 mg/L	0.00004	0.45%
Fe 273.955†	88422.9	3.515 mg/L		0.0350	3.515 mg/L	0.0350	1.00%
Mg 279.077†	212829.2	10.49 mg/L		0.075	10.49 mg/L	0.075	0.72%
V 292.402†	1965.0	0.0043 mg/L		0.00019	0.0043 mg/L	0.00019	4.38%
Al 308.215†	65745.8	1.571 mg/L		0.0466	1.571 mg/L	0.0466	2.97%
Be 313.107†	-3105.2	-0.0005 mg/L		0.00003	-0.0005 mg/L	0.00003	5.74%
Cu 324.752†	7848.2	0.0186 mg/L		0.00028	0.0186 mg/L	0.00028	1.49%
Ag 338.289†	-114.4	-0.0007 mg/L		0.00031	-0.0007 mg/L	0.00031	42.74%
Na 330.237†	39923.5	24.24 mg/L		0.203	24.24 mg/L	0.203	0.84%
Ca 227.546†	15836.6	22.77 mg/L		0.203	22.77 mg/L	0.203	0.89%
Al RADIAL†	3504.2	1.629 mg/L		0.0351	1.629 mg/L	0.0351	2.15%
Fe RADIAL†	410.0	3.547 mg/L		0.0760	3.547 mg/L	0.0760	2.14%
Ca RADIAL†	61904.0	23.89 mg/L		0.419	23.89 mg/L	0.419	1.75%
K RADIAL†	4616.5	2.881 mg/L		0.0643	2.881 mg/L	0.0643	2.23%
Mg RADIAL†	1423.3	10.50 mg/L		0.163	10.50 mg/L	0.163	1.56%
Na RADIAL†	553554.6	30.91 mg/L		0.082	30.91 mg/L	0.082	0.26%

Sequence No.: 34

Autosampler Location: 27

Sample ID: 13J0990-14
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Date Collected: 10/30/2013 12:27:59 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 13J0990-14

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20183969.7	4.828 mg/L		0.0530			1.10%
Y RADIAL	275794.3	5.097 mg/L		0.0515			1.01%
As 188.979†	-5.6	0.0006 mg/L		0.00124	0.0006 mg/L	0.00124	216.06%
Tl 190.801†	-55.5	-0.0089 mg/L		0.00028	-0.0089 mg/L	0.00028	3.11%
Se 196.026†	-11.4	0.0035 mg/L		0.00470	0.0035 mg/L	0.00470	132.95%
Zn 206.200†	4899.9	0.0595 mg/L		0.00072	0.0595 mg/L	0.00072	1.21%
Sb 206.836†	3.4	0.0005 mg/L		0.00092	0.0005 mg/L	0.00092	179.14%
Pb 220.353†	457.5	0.0403 mg/L		0.00156	0.0403 mg/L	0.00156	3.86%
Cd 226.502†	544.7	0.0001 mg/L		0.00011	0.0001 mg/L	0.00011	100.29%
Co 228.616†	584.8	0.0132 mg/L		0.00000	0.0132 mg/L	0.00000	0.03%
Ni 232.003†	1718.3	0.0669 mg/L		0.00039	0.0669 mg/L	0.00039	0.58%
Ba 233.527†	96621.0	0.5743 mg/L		0.00452	0.5743 mg/L	0.00452	0.79%
Mn 257.610†	5022473.3	5.506 mg/L		0.0587	5.506 mg/L	0.0587	1.07%
Cr 267.716†	6782.3	0.0412 mg/L		0.00026	0.0412 mg/L	0.00026	0.64%
Fe 273.955†	351828.0	13.99 mg/L		0.111	13.99 mg/L	0.111	0.79%
Mg 279.077†	670904.8	33.06 mg/L		0.374	33.06 mg/L	0.374	1.13%
V 292.402†	7839.5	0.0171 mg/L		0.00032	0.0171 mg/L	0.00032	1.89%
Al 308.215†	287453.4	6.868 mg/L		0.0845	6.868 mg/L	0.0845	1.23%
Be 313.107†	-15148.0	-0.0027 mg/L		0.00002	-0.0027 mg/L	0.00002	0.72%
Cu 324.752†	30507.7	0.0729 mg/L		0.00077	0.0729 mg/L	0.00077	1.05%
Ag 338.289†	-660.5	-0.0035 mg/L		0.00008	-0.0035 mg/L	0.00008	2.42%
Na 330.237†	47425.3	28.90 mg/L		0.320	28.90 mg/L	0.320	1.11%
Ca 227.546†	44003.0	63.28 mg/L		0.564	63.28 mg/L	0.564	0.89%
Al RADIAL†	15336.4	7.131 mg/L		0.0847	7.131 mg/L	0.0847	1.19%
Fe RADIAL†	1642.7	14.21 mg/L		0.184	14.21 mg/L	0.184	1.30%
Ca RADIAL†	168337.4	64.97 mg/L		0.145	64.97 mg/L	0.145	0.22%
K RADIAL†	11713.5	7.310 mg/L		0.0996	7.310 mg/L	0.0996	1.36%
Mg RADIAL†	4646.8	34.29 mg/L		0.407	34.29 mg/L	0.407	1.19%
Na RADIAL†	643485.5	35.93 mg/L		0.207	35.93 mg/L	0.207	0.58%

Sequence No.: 35

Sample ID: 13J0990-15

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 28

Date Collected: 10/30/2013 12:33:08 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J0990-15

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	19848607.6	4.748 mg/L		0.0181			0.38%
Y RADIAL	272282.4	5.032 mg/L		0.0437			0.87%
As 188.979†	-3.9	-0.0002 mg/L		0.00085	-0.0002 mg/L	0.00085	385.23%
Tl 190.801†	-22.0	-0.0035 mg/L		0.00034	-0.0035 mg/L	0.00034	9.81%
Se 196.026†	-6.5	0.0003 mg/L		0.00312	0.0003 mg/L	0.00312	899.62%
Zn 206.200†	2761.2	0.0336 mg/L		0.00027	0.0336 mg/L	0.00027	0.82%
Sb 206.836†	-3.1	-0.0006 mg/L		0.00102	-0.0006 mg/L	0.00102	171.57%
Pb 220.353†	49.5	0.0047 mg/L		0.00144	0.0047 mg/L	0.00144	30.99%
Cd 226.502†	236.3	0.0001 mg/L		0.00007	0.0001 mg/L	0.00007	53.57%
Co 228.616†	367.9	0.0083 mg/L		0.00021	0.0083 mg/L	0.00021	2.58%
Ni 232.003†	783.5	0.0304 mg/L		0.00074	0.0304 mg/L	0.00074	2.43%
Ba 233.527†	29422.0	0.1749 mg/L		0.00202	0.1749 mg/L	0.00202	1.16%
Mn 257.610†	2002004.7	2.194 mg/L		0.0200	2.194 mg/L	0.0200	0.91%
Cr 267.716†	3143.3	0.0191 mg/L		0.00011	0.0191 mg/L	0.00011	0.56%
Fe 273.955†	140823.1	5.598 mg/L		0.0328	5.598 mg/L	0.0328	0.59%
Mg 279.077†	609617.1	30.04 mg/L		0.289	30.04 mg/L	0.289	0.96%
V 292.402†	3512.4	0.0077 mg/L		0.00027	0.0077 mg/L	0.00027	3.48%
Al 308.215†	116484.8	2.782 mg/L		0.0377	2.782 mg/L	0.0377	1.36%
Be 313.107†	-4591.0	-0.0008 mg/L		0.00001	-0.0008 mg/L	0.00001	1.43%
Cu 324.752†	13647.4	0.0317 mg/L		0.00021	0.0317 mg/L	0.00021	0.68%
Ag 338.289†	-32.3	-0.0008 mg/L		0.00049	-0.0008 mg/L	0.00049	62.59%
Na 330.237†	121526.0	73.73 mg/L		0.788	73.73 mg/L	0.788	1.07%

Ca 227.546†	42206.6	60.66 mg/L	0.757	60.66 mg/L	0.757	1.25%
Al RADIAL†	6162.7	2.866 mg/L	0.0166	2.866 mg/L	0.0166	0.58%
Fe RADIAL†	658.0	5.691 mg/L	0.0495	5.691 mg/L	0.0495	0.87%
Ca RADIAL†	158975.5	61.36 mg/L	0.063	61.36 mg/L	0.063	0.10%
K RADIAL†	7168.0	4.473 mg/L	0.0742	4.473 mg/L	0.0742	1.66%
Mg RADIAL†	4299.2	31.73 mg/L	0.234	31.73 mg/L	0.234	0.74%
Na RADIAL†	1481187.0	82.71 mg/L	0.305	82.71 mg/L	0.305	0.37%

Sequence No.: 36

Sample ID: SEQ-CCV3

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 10/30/2013 12:38:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	19659661.9	4.702 mg/L		0.0271			0.58%
Y RADIAL	265527.2	4.908 mg/L		0.0357			0.73%
As 188.979†	930.7	0.2475 mg/L		0.00306	0.2475 mg/L	0.00306	1.24%
Tl 190.801†	1379.2	0.2508 mg/L		0.00113	0.2508 mg/L	0.00113	0.45%
Se 196.026†	449.8	0.2528 mg/L		0.00117	0.2528 mg/L	0.00117	0.46%
Zn 206.200†	208081.2	2.559 mg/L		0.0074	2.559 mg/L	0.0074	0.29%
Sb 206.836†	1390.4	0.2506 mg/L		0.00505	0.2506 mg/L	0.00505	2.02%
Pb 220.353†	2858.9	0.2553 mg/L		0.00196	0.2553 mg/L	0.00196	0.77%
Cd 226.502†	25003.4	0.1250 mg/L		0.00071	0.1250 mg/L	0.00071	0.56%
Co 228.616†	112497.2	2.530 mg/L		0.0110	2.530 mg/L	0.0110	0.43%
Ni 232.003†	66568.8	2.505 mg/L		0.0076	2.505 mg/L	0.0076	0.30%
Ba 233.527†	1746174.0	10.38 mg/L		0.092	10.38 mg/L	0.092	0.89%
Mn 257.610†	2332192.1	2.556 mg/L		0.0252	2.556 mg/L	0.0252	0.99%
Cr 267.716†	167561.4	1.017 mg/L		0.0044	1.017 mg/L	0.0044	0.43%
Fe 273.955†	127516.5	5.069 mg/L		0.0202	5.069 mg/L	0.0202	0.40%
Mg 279.077†	498355.2	24.56 mg/L		0.213	24.56 mg/L	0.213	0.87%
V 292.402†	1078096.1	2.504 mg/L		0.0291	2.504 mg/L	0.0291	1.16%
Al 308.215†	405195.4	9.681 mg/L		0.0861	9.681 mg/L	0.0861	0.89%
Be 313.107†	1425447.2	0.2498 mg/L		0.00302	0.2498 mg/L	0.00302	1.21%
Cu 324.752†	513829.7	1.245 mg/L		0.0121	1.245 mg/L	0.0121	0.97%
Ag 338.289†	290115.7	1.241 mg/L		0.0049	1.241 mg/L	0.0049	0.39%
Na 330.237†	38139.0	23.17 mg/L		0.078	23.17 mg/L	0.078	0.34%
Ca 227.546†	16590.7	23.86 mg/L		0.075	23.86 mg/L	0.075	0.31%
Al RADIAL†	22001.0	10.23 mg/L		0.099	10.23 mg/L	0.099	0.96%
Fe RADIAL†	591.5	5.116 mg/L		0.0437	5.116 mg/L	0.0437	0.85%
Ca RADIAL†	66992.5	25.86 mg/L		0.185	25.86 mg/L	0.185	0.71%
K RADIAL†	8106.9	5.059 mg/L		0.0386	5.059 mg/L	0.0386	0.76%
Mg RADIAL†	3494.2	25.79 mg/L		0.215	25.79 mg/L	0.215	0.83%
Na RADIAL†	459357.7	25.65 mg/L		0.237	25.65 mg/L	0.237	0.92%

Sequence No.: 37

Sample ID: SEQ-CCB3

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 10/30/2013 12:46:08 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20839061.4	4.985 mg/L		0.0452			0.91%
Y RADIAL	272547.0	5.037 mg/L		0.0206			0.41%
As 188.979†	-2.0	-0.0005 mg/L		0.00111	-0.0005 mg/L	0.00111	211.25%
Tl 190.801†	-7.7	-0.0014 mg/L		0.00084	-0.0014 mg/L	0.00084	60.53%
Se 196.026†	-4.4	-0.0024 mg/L		0.00192	-0.0024 mg/L	0.00192	78.65%
Zn 206.200†	19.3	0.0002 mg/L		0.00004	0.0002 mg/L	0.00004	15.47%
Sb 206.836†	12.5	0.0022 mg/L		0.00056	0.0022 mg/L	0.00056	25.13%
Pb 220.353†	4.5	0.0004 mg/L		0.00093	0.0004 mg/L	0.00093	233.40%
Cd 226.502†	-10.1	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	53.70%
Co 228.616†	6.9	0.0002 mg/L		0.00023	0.0002 mg/L	0.00023	145.19%
Ni 232.003†	-12.6	-0.0005 mg/L		0.00027	-0.0005 mg/L	0.00027	57.21%
Ba 233.527†	-1.4	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	209.28%

Mn 257.610†	31.2	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	11.72%
Cr 267.716†	11.4	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	201.72%
Fe 273.955†	8.6	0.0003	mg/L	0.00046	0.0003	mg/L	0.00046	133.80%
Mg 279.077†	-7.8	-0.0004	mg/L	0.00152	-0.0004	mg/L	0.00152	393.28%
V 292.402†	104.8	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	53.72%
Al 308.215†	315.0	0.0075	mg/L	0.00342	0.0075	mg/L	0.00342	45.43%
Be 313.107†	111.4	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	125.22%
Cu 324.752†	212.0	0.0005	mg/L	0.00012	0.0005	mg/L	0.00012	24.05%
Ag 338.289†	42.4	0.0002	mg/L	0.00025	0.0002	mg/L	0.00025	135.95%
Na 330.237†	36.9	0.0225	mg/L	0.00787	0.0225	mg/L	0.00787	35.05%
Ca 227.546†	33.8	0.0485	mg/L	0.02448	0.0485	mg/L	0.02448	50.46%
Al RADIAL†	7.1	0.0033	mg/L	0.00314	0.0033	mg/L	0.00314	95.22%
Fe RADIAL†	1.8	0.0155	mg/L	0.00703	0.0155	mg/L	0.00703	45.27%
Ca RADIAL†	-21.9	-0.0084	mg/L	0.00331	-0.0084	mg/L	0.00331	39.25%
K RADIAL†	-117.7	-0.0735	mg/L	0.01122	-0.0735	mg/L	0.01122	15.27%
Mg RADIAL†	-1.6	-0.0116	mg/L	0.00604	-0.0116	mg/L	0.00604	52.32%
Na RADIAL†	-19903.6	-1.111	mg/L	0.0122	-1.111	mg/L	0.0122	1.09%

Sequence No.: 38

Sample ID: 13J0990-16

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 29

Date Collected: 10/30/2013 12:51:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J0990-16

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20221575.2	4.837	mg/L	0.0193				0.40%
Y RADIAL	281782.4	5.208	mg/L	0.0384				0.74%
As 188.979†	-11.1	-0.0019	mg/L	0.00127	-0.0019	mg/L	0.00127	67.05%
Tl 190.801†	-27.9	-0.0045	mg/L	0.00017	-0.0045	mg/L	0.00017	3.84%
Se 196.026†	-5.6	0.0019	mg/L	0.00070	0.0019	mg/L	0.00070	36.98%
Zn 206.200†	2937.9	0.0357	mg/L	0.00021	0.0357	mg/L	0.00021	0.60%
Sb 206.836†	-3.4	-0.0007	mg/L	0.00120	-0.0007	mg/L	0.00120	179.32%
Pb 220.353†	28.1	0.0026	mg/L	0.00078	0.0026	mg/L	0.00078	30.27%
Cd 226.502†	277.0	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	152.00%
Co 228.616†	342.8	0.0077	mg/L	0.00006	0.0077	mg/L	0.00006	0.76%
Ni 232.003†	796.5	0.0311	mg/L	0.00043	0.0311	mg/L	0.00043	1.37%
Ba 233.527†	15402.2	0.0916	mg/L	0.00050	0.0916	mg/L	0.00050	0.55%
Mn 257.610†	604301.3	0.6623	mg/L	0.00344	0.6623	mg/L	0.00344	0.52%
Cr 267.716†	3915.2	0.0238	mg/L	0.00028	0.0238	mg/L	0.00028	1.18%
Fe 273.955†	179691.4	7.144	mg/L	0.0439	7.144	mg/L	0.0439	0.61%
Mg 279.077†	584156.0	28.79	mg/L	0.110	28.79	mg/L	0.110	0.38%
V 292.402†	4278.0	0.0094	mg/L	0.00003	0.0094	mg/L	0.00003	0.27%
Al 308.215†	148556.6	3.549	mg/L	0.0329	3.549	mg/L	0.0329	0.93%
Be 313.107†	-9908.6	-0.0017	mg/L	0.00006	-0.0017	mg/L	0.00006	3.50%
Cu 324.752†	7902.7	0.0180	mg/L	0.00031	0.0180	mg/L	0.00031	1.70%
Ag 338.289†	-369.5	-0.0022	mg/L	0.00026	-0.0022	mg/L	0.00026	11.87%
Na 330.237†	81070.2	49.23	mg/L	0.329	49.23	mg/L	0.329	0.67%
Ca 227.546†	38878.5	55.88	mg/L	0.365	55.88	mg/L	0.365	0.65%
Al RADIAL†	7911.7	3.679	mg/L	0.0271	3.679	mg/L	0.0271	0.74%
Fe RADIAL†	832.7	7.203	mg/L	0.1335	7.203	mg/L	0.1335	1.85%
Ca RADIAL†	151359.0	58.42	mg/L	0.123	58.42	mg/L	0.123	0.21%
K RADIAL†	10904.4	6.805	mg/L	0.0458	6.805	mg/L	0.0458	0.67%
Mg RADIAL†	3904.1	28.81	mg/L	0.326	28.81	mg/L	0.326	1.13%
Na RADIAL†	1025063.4	57.24	mg/L	0.506	57.24	mg/L	0.506	0.88%

Sequence No.: 39

Sample ID: 13J1026-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 30

Date Collected: 10/30/2013 12:56:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J1026-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20230259.8	4.839	mg/L	0.0358				0.74%
Y RADIAL	273469.7	5.054	mg/L	0.0167				0.33%

As	188.979†	-13.0	-0.0033 mg/L	0.00346	-0.0033 mg/L	0.00346	103.21%
Tl	190.801†	-14.7	-0.0026 mg/L	0.00117	-0.0026 mg/L	0.00117	44.89%
Se	196.026†	-4.6	-0.0020 mg/L	0.00310	-0.0020 mg/L	0.00310	153.98%
Zn	206.200†	1592.8	0.0196 mg/L	0.00021	0.0196 mg/L	0.00021	1.09%
Sb	206.836†	-7.9	-0.0014 mg/L	0.00137	-0.0014 mg/L	0.00137	96.77%
Pb	220.353†	-13.0	-0.0003 mg/L	0.00062	-0.0003 mg/L	0.00062	215.34%
Cd	226.502†	77.1	0.0003 mg/L	0.00012	0.0003 mg/L	0.00012	46.03%
Co	228.616†	80.3	0.0018 mg/L	0.00028	0.0018 mg/L	0.00028	15.58%
Ni	232.003†	51.3	0.0020 mg/L	0.00020	0.0020 mg/L	0.00020	9.76%
Ba	233.527†	55103.5	0.3275 mg/L	0.00184	0.3275 mg/L	0.00184	0.56%
Mn	257.610†	1945394.6	2.132 mg/L	0.0098	2.132 mg/L	0.0098	0.46%
Cr	267.716†	170.8	0.0010 mg/L	0.00004	0.0010 mg/L	0.00004	3.39%
Fe	273.955†	18367.5	0.7302 mg/L	0.00721	0.7302 mg/L	0.00721	0.99%
Mg	279.077†	223864.4	11.03 mg/L	0.063	11.03 mg/L	0.063	0.57%
V	292.402†	11.7	0.0000 mg/L	0.00013	0.0000 mg/L	0.00013	414.19%
Al	308.215†	2106.1	0.0492 mg/L	0.00266	0.0492 mg/L	0.00266	5.41%
Be	313.107†	-281.6	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	38.85%
Cu	324.752†	1317.9	0.0015 mg/L	0.00009	0.0015 mg/L	0.00009	6.36%
Ag	338.289†	309.8	0.0005 mg/L	0.00029	0.0005 mg/L	0.00029	62.61%
Na	330.237†	65127.2	39.59 mg/L	0.332	39.59 mg/L	0.332	0.84%
Ca	227.546†	56889.9	81.72 mg/L	0.651	81.72 mg/L	0.651	0.80%
Al RADIAL†		83.1	0.0386 mg/L	0.00363	0.0386 mg/L	0.00363	9.41%
Fe RADIAL†		88.0	0.7612 mg/L	0.02556	0.7612 mg/L	0.02556	3.36%
Ca RADIAL†		220880.5	85.25 mg/L	0.207	85.25 mg/L	0.207	0.24%
K RADIAL†		2676.4	1.670 mg/L	0.0203	1.670 mg/L	0.0203	1.22%
Mg RADIAL†		1570.3	11.59 mg/L	0.023	11.59 mg/L	0.023	0.20%
Na RADIAL†		854913.5	47.74 mg/L	0.147	47.74 mg/L	0.147	0.31%

Sequence No.: 40

Sample ID: 13J1026-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 31

Date Collected: 10/30/2013 1:01:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J1026-02

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20227827.5	4.838 mg/L	0.0236			0.49%
Y RADIAL	271914.9	5.026 mg/L	0.0289			0.58%
As 188.979†	-5.4	-0.0014 mg/L	0.00209	-0.0014 mg/L	0.00209	148.53%
Tl 190.801†	-6.3	-0.0011 mg/L	0.00056	-0.0011 mg/L	0.00056	49.57%
Se 196.026†	3.7	0.0022 mg/L	0.00260	0.0022 mg/L	0.00260	116.97%
Zn 206.200†	21946.0	0.2699 mg/L	0.00030	0.2699 mg/L	0.00030	0.11%
Sb 206.836†	-1.6	-0.0003 mg/L	0.00042	-0.0003 mg/L	0.00042	144.55%
Pb 220.353†	7.7	0.0013 mg/L	0.00145	0.0013 mg/L	0.00145	110.25%
Cd 226.502†	38.4	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	40.72%
Co 228.616†	30.0	0.0007 mg/L	0.00026	0.0007 mg/L	0.00026	38.39%
Ni 232.003†	86.6	0.0033 mg/L	0.00020	0.0033 mg/L	0.00020	5.97%
Ba 233.527†	15282.9	0.0908 mg/L	0.00018	0.0908 mg/L	0.00018	0.20%
Mn 257.610†	90512.1	0.0990 mg/L	0.00052	0.0990 mg/L	0.00052	0.53%
Cr 267.716†	135.5	0.0008 mg/L	0.00010	0.0008 mg/L	0.00010	11.97%
Fe 273.955†	6706.3	0.2666 mg/L	0.00375	0.2666 mg/L	0.00375	1.41%
Mg 279.077†	227724.9	11.22 mg/L	0.050	11.22 mg/L	0.050	0.45%
V 292.402†	355.2	0.0008 mg/L	0.00015	0.0008 mg/L	0.00015	19.08%
Al 308.215†	4526.8	0.1073 mg/L	0.00866	0.1073 mg/L	0.00866	8.07%
Be 313.107†	-324.8	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	60.66%
Cu 324.752†	4086.8	0.0087 mg/L	0.00028	0.0087 mg/L	0.00028	3.20%
Ag 338.289†	177.4	0.0002 mg/L	0.00057	0.0002 mg/L	0.00057	329.04%
Na 330.237†	57020.2	34.63 mg/L	0.368	34.63 mg/L	0.368	1.06%
Ca 227.546†	38819.7	55.76 mg/L	0.455	55.76 mg/L	0.455	0.82%
Al RADIAL†	227.3	0.1057 mg/L	0.00544	0.1057 mg/L	0.00544	5.15%
Fe RADIAL†	32.6	0.2816 mg/L	0.01831	0.2816 mg/L	0.01831	6.50%
Ca RADIAL†	153182.1	59.12 mg/L	0.126	59.12 mg/L	0.126	0.21%
K RADIAL†	3710.5	2.315 mg/L	0.0620	2.315 mg/L	0.0620	2.68%
Mg RADIAL†	1556.7	11.49 mg/L	0.079	11.49 mg/L	0.079	0.69%
Na RADIAL†	758183.8	42.34 mg/L	0.376	42.34 mg/L	0.376	0.89%

Sequence No.: 41

Sample ID: 13J1027-01

Autosampler Location: 32

Date Collected: 10/30/2013 1:06:41 PM

Analyst: MW
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 13J1027-01

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	20834412.2	4.983	mg/L	0.0633				1.27%
Y RADIAL	278599.6	5.149	mg/L	0.0324				0.63%
As 188.979†	15.3	0.0043	mg/L	0.00258	0.0043	mg/L	0.00258	60.24%
Tl 190.801†	-2.3	-0.0003	mg/L	0.00055	-0.0003	mg/L	0.00055	187.17%
Se 196.026†	-5.8	-0.0022	mg/L	0.00514	-0.0022	mg/L	0.00514	234.34%
Zn 206.200†	1891.1	0.0232	mg/L	0.00058	0.0232	mg/L	0.00058	2.49%
Sb 206.836†	1.0	0.0002	mg/L	0.00111	0.0002	mg/L	0.00111	636.77%
Pb 220.353†	9.5	0.0009	mg/L	0.00107	0.0009	mg/L	0.00107	116.28%
Cd 226.502†	70.0	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	33.34%
Co 228.616†	1121.6	0.0252	mg/L	0.00058	0.0252	mg/L	0.00058	2.31%
Ni 232.003†	287.2	0.0110	mg/L	0.00010	0.0110	mg/L	0.00010	0.89%
Ba 233.527†	20132.7	0.1197	mg/L	0.00110	0.1197	mg/L	0.00110	0.92%
Mn 257.610†	1000659.4	1.097	mg/L	0.0199	1.097	mg/L	0.0199	1.81%
Cr 267.716†	84.8	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	4.76%
Fe 273.955†	37392.5	1.487	mg/L	0.0172	1.487	mg/L	0.0172	1.16%
Mg 279.077†	35407.4	1.744	mg/L	0.0187	1.744	mg/L	0.0187	1.07%
V 292.402†	67.5	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	144.57%
Al 308.215†	9088.0	0.2170	mg/L	0.00190	0.2170	mg/L	0.00190	0.88%
Be 313.107†	-44.1	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	90.57%
Cu 324.752†	75.7	-0.0002	mg/L	0.00017	-0.0002	mg/L	0.00017	92.83%
Ag 338.289†	117.0	0.0003	mg/L	0.00025	0.0003	mg/L	0.00025	92.45%
Na 330.237†	13051.0	7.947	mg/L	0.0860	7.947	mg/L	0.0860	1.08%
Ca 227.546†	14861.6	21.35	mg/L	0.019	21.35	mg/L	0.019	0.09%
Al RADIAL†	493.2	0.2293	mg/L	0.00611	0.2293	mg/L	0.00611	2.67%
Fe RADIAL†	173.3	1.499	mg/L	0.0411	1.499	mg/L	0.0411	2.74%
Ca RADIAL†	59074.7	22.80	mg/L	0.024	22.80	mg/L	0.024	0.11%
K RADIAL†	5053.6	3.154	mg/L	0.0221	3.154	mg/L	0.0221	0.70%
Mg RADIAL†	231.9	1.712	mg/L	0.0489	1.712	mg/L	0.0489	2.86%
Na RADIAL†	182383.1	10.18	mg/L	0.041	10.18	mg/L	0.041	0.40%

Sequence No.: 42
Sample ID: 13J1044-01
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 10/30/2013 1:11:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 13J1044-01

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	19658320.2	4.702	mg/L	0.0219				0.47%
Y RADIAL	276287.0	5.106	mg/L	0.0521				1.02%
As 188.979†	22.2	0.0068	mg/L	0.00275	0.0068	mg/L	0.00275	40.45%
Tl 190.801†	-13.2	-0.0019	mg/L	0.00054	-0.0019	mg/L	0.00054	29.05%
Se 196.026†	-8.3	-0.0002	mg/L	0.00372	-0.0002	mg/L	0.00372	>999.9%
Zn 206.200†	8511.8	0.1043	mg/L	0.00086	0.1043	mg/L	0.00086	0.83%
Sb 206.836†	0.8	0.0001	mg/L	0.00160	0.0001	mg/L	0.00160	>999.9%
Pb 220.353†	22.2	0.0032	mg/L	0.00119	0.0032	mg/L	0.00119	37.06%
Cd 226.502†	6830.7	0.0332	mg/L	0.00021	0.0332	mg/L	0.00021	0.62%
Co 228.616†	792.8	0.0178	mg/L	0.00018	0.0178	mg/L	0.00018	1.01%
Ni 232.003†	12656.1	0.4771	mg/L	0.00209	0.4771	mg/L	0.00209	0.44%
Ba 233.527†	15267.3	0.0907	mg/L	0.00063	0.0907	mg/L	0.00063	0.70%
Mn 257.610†	1420530.4	1.557	mg/L	0.0094	1.557	mg/L	0.0094	0.60%
Cr 267.716†	1252.0	0.0076	mg/L	0.00008	0.0076	mg/L	0.00008	1.02%
Fe 273.955†	156548.9	6.223	mg/L	0.0279	6.223	mg/L	0.0279	0.45%
Mg 279.077†	835577.5	41.17	mg/L	0.265	41.17	mg/L	0.265	0.64%
V 292.402†	2229.8	0.0047	mg/L	0.00004	0.0047	mg/L	0.00004	0.83%
Al 308.215†	93078.6	2.222	mg/L	0.0150	2.222	mg/L	0.0150	0.67%
Be 313.107†	-1171.9	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	12.16%
Cu 324.752†	9817.1	0.0205	mg/L	0.00010	0.0205	mg/L	0.00010	0.51%
Ag 338.289†	274.8	-0.0005	mg/L	0.00022	-0.0005	mg/L	0.00022	46.83%
Na 330.237†	188977.0	114.8	mg/L	0.54	114.8	mg/L	0.54	0.47%
Ca 227.546†	109045.8	156.7	mg/L	1.01	156.7	mg/L	1.01	0.65%

Al RADIAL†	5068.3	2.357 mg/L	0.0151	2.357 mg/L	0.0151	0.64%
Fe RADIAL†	734.7	6.355 mg/L	0.0849	6.355 mg/L	0.0849	1.34%
Ca RADIAL†	401496.7	155.0 mg/L	0.27	155.0 mg/L	0.27	0.17%
K RADIAL†	13230.8	8.256 mg/L	0.1112	8.256 mg/L	0.1112	1.35%
Mg RADIAL†	5678.0	41.90 mg/L	0.508	41.90 mg/L	0.508	1.21%
Na RADIAL†	2095694.9	117.0 mg/L	0.97	117.0 mg/L	0.97	0.83%

Sequence No.: 43

Sample ID: BJ31394-DUP1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 34

Date Collected: 10/30/2013 1:16:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BJ31394-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	19357731.3	4.630 mg/L	0.0157			0.34%
Y RADIAL	276963.1	5.119 mg/L	0.0292			0.57%
As 188.979†	25.1	0.0076 mg/L	0.00269	0.0076 mg/L	0.00269	35.59%
Tl 190.801†	-15.3	-0.0022 mg/L	0.00181	-0.0022 mg/L	0.00181	80.27%
Se 196.026†	-0.6	0.0040 mg/L	0.00280	0.0040 mg/L	0.00280	69.16%
Zn 206.200†	8571.9	0.1051 mg/L	0.00023	0.1051 mg/L	0.00023	0.22%
Sb 206.836†	8.5	0.0015 mg/L	0.00139	0.0015 mg/L	0.00139	92.51%
Pb 220.353†	23.9	0.0034 mg/L	0.00134	0.0034 mg/L	0.00134	39.61%
Cd 226.502†	6888.5	0.0335 mg/L	0.00012	0.0335 mg/L	0.00012	0.36%
Co 228.616†	812.0	0.0183 mg/L	0.00034	0.0183 mg/L	0.00034	1.85%
Ni 232.003†	12686.8	0.4782 mg/L	0.00226	0.4782 mg/L	0.00226	0.47%
Ba 233.527†	15402.7	0.0916 mg/L	0.00010	0.0916 mg/L	0.00010	0.11%
Mn 257.610†	1424593.3	1.561 mg/L	0.0071	1.561 mg/L	0.0071	0.45%
Cr 267.716†	1275.0	0.0077 mg/L	0.00013	0.0077 mg/L	0.00013	1.65%
Fe 273.955†	157293.9	6.253 mg/L	0.0078	6.253 mg/L	0.0078	0.13%
Mg 279.077†	839895.5	41.39 mg/L	0.106	41.39 mg/L	0.106	0.26%
V 292.402†	2260.4	0.0047 mg/L	0.00004	0.0047 mg/L	0.00004	0.86%
Al 308.215†	94118.0	2.247 mg/L	0.0062	2.247 mg/L	0.0062	0.27%
Be 313.107†	-1405.1	-0.0002 mg/L	0.00008	-0.0002 mg/L	0.00008	31.80%
Cu 324.752†	9863.7	0.0206 mg/L	0.00010	0.0206 mg/L	0.00010	0.50%
Ag 338.289†	329.5	-0.0002 mg/L	0.00049	-0.0002 mg/L	0.00049	200.44%
Na 330.237†	188740.9	114.6 mg/L	0.42	114.6 mg/L	0.42	0.36%
Ca 227.546†	109260.3	157.0 mg/L	0.30	157.0 mg/L	0.30	0.19%
Al RADIAL†	5041.4	2.344 mg/L	0.0295	2.344 mg/L	0.0295	1.26%
Fe RADIAL†	728.8	6.303 mg/L	0.0332	6.303 mg/L	0.0332	0.53%
Ca RADIAL†	400339.5	154.5 mg/L	1.99	154.5 mg/L	1.99	1.29%
K RADIAL†	13250.3	8.269 mg/L	0.0536	8.269 mg/L	0.0536	0.65%
Mg RADIAL†	5621.4	41.49 mg/L	0.202	41.49 mg/L	0.202	0.49%
Na RADIAL†	2091678.8	116.8 mg/L	1.32	116.8 mg/L	1.32	1.13%

Sequence No.: 44

Sample ID: BJ31394-MS1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 35

Date Collected: 10/30/2013 1:22:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BJ31394-MS1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	19381304.5	4.636 mg/L	0.0009			0.02%
Y RADIAL	274352.9	5.071 mg/L	0.0263			0.52%
As 188.979†	8131.6	2.157 mg/L	0.0141	2.157 mg/L	0.0141	0.65%
Tl 190.801†	10671.0	1.937 mg/L	0.0091	1.937 mg/L	0.0091	0.47%
Se 196.026†	4062.7	2.256 mg/L	0.0200	2.256 mg/L	0.0200	0.89%
Zn 206.200†	49545.8	0.6089 mg/L	0.00324	0.6089 mg/L	0.00324	0.53%
Sb 206.836†	1369.3	0.2468 mg/L	0.00215	0.2468 mg/L	0.00215	0.87%
Pb 220.353†	5463.2	0.4882 mg/L	0.00167	0.4882 mg/L	0.00167	0.34%
Cd 226.502†	16799.8	0.0833 mg/L	0.00024	0.0833 mg/L	0.00024	0.29%
Co 228.616†	23445.7	0.5273 mg/L	0.00109	0.5273 mg/L	0.00109	0.21%
Ni 232.003†	27014.8	1.017 mg/L	0.0046	1.017 mg/L	0.0046	0.46%
Ba 233.527†	367539.3	2.185 mg/L	0.0060	2.185 mg/L	0.0060	0.28%
Mn 257.610†	1901706.3	2.084 mg/L	0.0042	2.084 mg/L	0.0042	0.20%

Cr 267.716†	34055.6	0.2068 mg/L	0.00104	0.2068 mg/L	0.00104	0.50%
Fe 273.955†	183125.6	7.280 mg/L	0.0224	7.280 mg/L	0.0224	0.31%
Mg 279.077†	839692.3	41.38 mg/L	0.130	41.38 mg/L	0.130	0.31%
V 292.402†	220203.0	0.5110 mg/L	0.00216	0.5110 mg/L	0.00216	0.42%
Al 308.215†	183428.7	4.381 mg/L	0.0132	4.381 mg/L	0.0132	0.30%
Be 313.107†	291356.4	0.0511 mg/L	0.00037	0.0511 mg/L	0.00037	0.72%
Cu 324.752†	117758.4	0.2821 mg/L	0.00071	0.2821 mg/L	0.00071	0.25%
Ag 338.289†	11077.2	0.0458 mg/L	0.00035	0.0458 mg/L	0.00035	0.75%
Na 330.237†	188909.8	114.7 mg/L	0.59	114.7 mg/L	0.59	0.52%
Ca 227.546†	108970.0	156.6 mg/L	0.29	156.6 mg/L	0.29	0.18%
Al RADIAL†	9298.3	4.323 mg/L	0.0225	4.323 mg/L	0.0225	0.52%
Fe RADIAL†	851.1	7.361 mg/L	0.0680	7.361 mg/L	0.0680	0.92%
Ca RADIAL†	400492.7	154.6 mg/L	1.40	154.6 mg/L	1.40	0.91%
K RADIAL†	13398.4	8.361 mg/L	0.0974	8.361 mg/L	0.0974	1.17%
Mg RADIAL†	5663.2	41.79 mg/L	0.355	41.79 mg/L	0.355	0.85%
Na RADIAL†	2089948.7	116.7 mg/L	0.48	116.7 mg/L	0.48	0.41%

Sequence No.: 45

Sample ID: 13J1044-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 36

Date Collected: 10/30/2013 1:29:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J1044-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	18826480.8	4.503 mg/L	0.0207			0.46%
Y RADIAL	271610.4	5.020 mg/L	0.0273			0.54%
As 188.979†	65.7	0.0435 mg/L	0.00051	0.0435 mg/L	0.00051	1.17%
Tl 190.801†	-107.2	-0.0044 mg/L	0.00277	-0.0044 mg/L	0.00277	62.48%
Se 196.026†	-195.2	0.0163 mg/L	0.00540	0.0163 mg/L	0.00540	33.17%
Zn 206.200†	70426.1	0.8561 mg/L	0.00513	0.8561 mg/L	0.00513	0.60%
Sb 206.836†	6.0	-0.0002 mg/L	0.00356	-0.0002 mg/L	0.00356	>999.9%
Pb 220.353†	3119.1	0.2667 mg/L	0.00128	0.2667 mg/L	0.00128	0.48%
Cd 226.502†	12631.6	0.0303 mg/L	0.00019	0.0303 mg/L	0.00019	0.64%
Co 228.616†	5265.4	0.1184 mg/L	0.00058	0.1184 mg/L	0.00058	0.49%
Ni 232.003†	8984.9	0.3669 mg/L	0.00047	0.3669 mg/L	0.00047	0.13%
Ba 233.527†	142560.6	0.8474 mg/L	0.00557	0.8474 mg/L	0.00557	0.66%
Mn 257.610†	11798512.3	12.94 mg/L	0.026	12.94 mg/L	0.026	0.20%
Cr 267.716†	26432.6	0.1605 mg/L	0.00124	0.1605 mg/L	0.00124	0.77%
Fe 273.955†	4453482.1	177.0 mg/L	1.01	177.0 mg/L	1.01	0.57%
Mg 279.077†	1308366.4	64.48 mg/L	0.389	64.48 mg/L	0.389	0.60%
V 292.402†	55440.9	0.1145 mg/L	0.00144	0.1145 mg/L	0.00144	1.26%
Al 308.215†	3504957.7	83.75 mg/L	0.580	83.75 mg/L	0.580	0.69%
Be 313.107†	28075.8	0.0049 mg/L	0.00008	0.0049 mg/L	0.00008	1.54%
Cu 324.752†	186373.1	0.4518 mg/L	0.00392	0.4518 mg/L	0.00392	0.87%
Ag 338.289†	-161.0	-0.0042 mg/L	0.00021	-0.0042 mg/L	0.00021	4.86%
Na 330.237†	742446.8	451.1 mg/L	4.56	451.1 mg/L	4.56	1.01%
Ca 227.546†	235076.8	338.5 mg/L	3.15	338.5 mg/L	3.15	0.93%
Al RADIAL†	171171.9	79.59 mg/L	0.202	79.59 mg/L	0.202	0.25%
Fe RADIAL†	21885.0	189.3 mg/L	0.91	189.3 mg/L	0.91	0.48%
Ca RADIAL†	853648.5	329.5 mg/L	0.40	329.5 mg/L	0.40	0.12%
K RADIAL†	23604.7	14.73 mg/L	0.136	14.73 mg/L	0.136	0.92%
Mg RADIAL†	9215.7	68.01 mg/L	0.025	68.01 mg/L	0.025	0.04%
Na RADIAL†	6054653.0	338.1 mg/L	1.51	338.1 mg/L	1.51	0.45%

Sequence No.: 46

Sample ID: 13J1044-03

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 10/30/2013 1:34:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J1044-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	18497475.0	4.425 mg/L	0.0239			0.54%
Y RADIAL	266203.5	4.920 mg/L	0.0130			0.26%
As 188.979†	11.2	0.0033 mg/L	0.00517	0.0033 mg/L	0.00517	156.17%

Tl 190.801+	-16.8	-0.0029 mg/L	0.00074	-0.0029 mg/L	0.00074	25.92%
Se 196.026+	1.1	0.0022 mg/L	0.00738	0.0022 mg/L	0.00738	331.31%
Zn 206.200+	2380.0	0.0291 mg/L	0.00027	0.0291 mg/L	0.00027	0.91%
Sb 206.836+	3.8	0.0007 mg/L	0.00066	0.0007 mg/L	0.00066	98.30%
Pb 220.353+	-7.9	0.0018 mg/L	0.00073	0.0018 mg/L	0.00073	41.28%
Cd 226.502+	141.6	0.0003 mg/L	0.00009	0.0003 mg/L	0.00009	31.50%
Co 228.616+	132.8	0.0030 mg/L	0.00006	0.0030 mg/L	0.00006	2.05%
Ni 232.003+	321.9	0.0125 mg/L	0.00082	0.0125 mg/L	0.00082	6.55%
Ba 233.527+	19683.1	0.1170 mg/L	0.00005	0.1170 mg/L	0.00005	0.04%
Mn 257.610+	3813173.1	4.180 mg/L	0.0257	4.180 mg/L	0.0257	0.61%
Cr 267.716+	494.6	0.0030 mg/L	0.00004	0.0030 mg/L	0.00004	1.29%
Fe 273.955+	56972.7	2.265 mg/L	0.0082	2.265 mg/L	0.0082	0.36%
Mg 279.077+	608327.1	29.97 mg/L	0.218	29.97 mg/L	0.218	0.73%
V 292.402+	1556.5	0.0034 mg/L	0.00014	0.0034 mg/L	0.00014	4.03%
Al 308.215+	50655.2	1.207 mg/L	0.0108	1.207 mg/L	0.0108	0.89%
Be 313.107+	-807.1	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	15.13%
Cu 324.752+	3986.3	0.0050 mg/L	0.00005	0.0050 mg/L	0.00005	1.02%
Ag 338.289+	575.0	0.0001 mg/L	0.00039	0.0001 mg/L	0.00039	422.82%
Na 330.237+	677477.1	410.7 mg/L	3.11	410.7 mg/L	3.11	0.76%
Ca 227.546+	156596.2	225.0 mg/L	0.66	225.0 mg/L	0.66	0.29%
Al RADIAL+	2438.4	1.134 mg/L	0.0088	1.134 mg/L	0.0088	0.78%
Fe RADIAL+	264.8	2.290 mg/L	0.0256	2.290 mg/L	0.0256	1.12%
Ca RADIAL+	573771.0	221.5 mg/L	0.18	221.5 mg/L	0.18	0.08%
K RADIAL+	21168.2	13.21 mg/L	0.070	13.21 mg/L	0.070	0.53%
Mg RADIAL+	4252.9	31.39 mg/L	0.211	31.39 mg/L	0.211	0.67%
Na RADIAL+	5824627.3	325.2 mg/L	0.61	325.2 mg/L	0.61	0.19%

Sequence No.: 47

Sample ID: 13J1044-04

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 38

Date Collected: 10/30/2013 1:40:04 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J1044-04

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	18678533.1	4.468 mg/L	0.0104			0.23%
Y RADIAL	269172.9	4.975 mg/L	0.0485			0.98%
As 188.979+	15.5	0.0044 mg/L	0.00247	0.0044 mg/L	0.00247	56.26%
Tl 190.801+	-10.7	-0.0018 mg/L	0.00094	-0.0018 mg/L	0.00094	52.66%
Se 196.026+	-7.6	-0.0029 mg/L	0.00672	-0.0029 mg/L	0.00672	235.57%
Zn 206.200+	2328.1	0.0285 mg/L	0.00014	0.0285 mg/L	0.00014	0.50%
Sb 206.836+	5.4	0.0010 mg/L	0.00184	0.0010 mg/L	0.00184	192.53%
Pb 220.353+	13.2	0.0036 mg/L	0.00016	0.0036 mg/L	0.00016	4.45%
Cd 226.502+	129.8	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	16.92%
Co 228.616+	104.8	0.0024 mg/L	0.00016	0.0024 mg/L	0.00016	6.85%
Ni 232.003+	301.9	0.0117 mg/L	0.00035	0.0117 mg/L	0.00035	3.03%
Ba 233.527+	17482.2	0.1039 mg/L	0.00117	0.1039 mg/L	0.00117	1.12%
Mn 257.610+	3161032.6	3.465 mg/L	0.0343	3.465 mg/L	0.0343	0.99%
Cr 267.716+	398.6	0.0024 mg/L	0.00005	0.0024 mg/L	0.00005	1.97%
Fe 273.955+	47784.0	1.900 mg/L	0.0204	1.900 mg/L	0.0204	1.07%
Mg 279.077+	605966.0	29.86 mg/L	0.054	29.86 mg/L	0.054	0.18%
V 292.402+	1139.3	0.0025 mg/L	0.00008	0.0025 mg/L	0.00008	3.36%
Al 308.215+	32402.3	0.7711 mg/L	0.00915	0.7711 mg/L	0.00915	1.19%
Be 313.107+	-766.4	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	22.48%
Cu 324.752+	3528.3	0.0039 mg/L	0.00015	0.0039 mg/L	0.00015	3.86%
Ag 338.289+	555.8	0.0001 mg/L	0.00012	0.0001 mg/L	0.00012	245.83%
Na 330.237+	670336.6	406.4 mg/L	1.68	406.4 mg/L	1.68	0.41%
Ca 227.546+	153893.0	221.1 mg/L	3.44	221.1 mg/L	3.44	1.56%
Al RADIAL+	1638.1	0.7617 mg/L	0.00365	0.7617 mg/L	0.00365	0.48%
Fe RADIAL+	220.0	1.903 mg/L	0.0263	1.903 mg/L	0.0263	1.38%
Ca RADIAL+	566983.6	218.8 mg/L	0.36	218.8 mg/L	0.36	0.16%
K RADIAL+	20831.8	13.00 mg/L	0.041	13.00 mg/L	0.041	0.31%
Mg RADIAL+	4218.4	31.13 mg/L	0.356	31.13 mg/L	0.356	1.14%
Na RADIAL+	5715640.6	319.2 mg/L	5.33	319.2 mg/L	5.33	1.67%

Sequence No.: 48

Sample ID: SEQ-CCV4

Analyst: MW

Autosampler Location: 3

Date Collected: 10/30/2013 1:45:20 PM

Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV4

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	19853139.4	4.749 mg/L	0.0107			0.23%
Y RADIAL	264576.2	4.890 mg/L	0.0449			0.92%
As 188.979†	932.2	0.2479 mg/L	0.00412	0.2479 mg/L	0.00412	1.66%
Tl 190.801†	1376.9	0.2504 mg/L	0.00289	0.2504 mg/L	0.00289	1.15%
Se 196.026†	440.9	0.2479 mg/L	0.00522	0.2479 mg/L	0.00522	2.11%
Zn 206.200†	211313.5	2.598 mg/L	0.0367	2.598 mg/L	0.0367	1.41%
Sb 206.836†	1372.9	0.2474 mg/L	0.00365	0.2474 mg/L	0.00365	1.48%
Pb 220.353†	2861.9	0.2556 mg/L	0.00177	0.2556 mg/L	0.00177	0.69%
Cd 226.502†	25186.0	0.1260 mg/L	0.00081	0.1260 mg/L	0.00081	0.64%
Co 228.616†	112786.8	2.537 mg/L	0.0249	2.537 mg/L	0.0249	0.98%
Ni 232.003†	66113.0	2.488 mg/L	0.0189	2.488 mg/L	0.0189	0.76%
Ba 233.527†	1750728.7	10.41 mg/L	0.096	10.41 mg/L	0.096	0.93%
Mn 257.610†	2336650.9	2.561 mg/L	0.0190	2.561 mg/L	0.0190	0.74%
Cr 267.716†	168591.3	1.024 mg/L	0.0080	1.024 mg/L	0.0080	0.78%
Fe 273.955†	127972.1	5.087 mg/L	0.0334	5.087 mg/L	0.0334	0.66%
Mg 279.077†	500783.1	24.68 mg/L	0.193	24.68 mg/L	0.193	0.78%
V 292.402†	1082792.3	2.515 mg/L	0.0172	2.515 mg/L	0.0172	0.69%
Al 308.215†	398251.8	9.515 mg/L	0.0820	9.515 mg/L	0.0820	0.86%
Be 313.107†	1440520.7	0.2525 mg/L	0.00164	0.2525 mg/L	0.00164	0.65%
Cu 324.752†	505523.9	1.224 mg/L	0.0120	1.224 mg/L	0.0120	0.98%
Ag 338.289†	288782.3	1.235 mg/L	0.0050	1.235 mg/L	0.0050	0.41%
Na 330.237†	37455.3	22.75 mg/L	0.110	22.75 mg/L	0.110	0.48%
Ca 227.546†	16273.6	23.41 mg/L	0.217	23.41 mg/L	0.217	0.93%
Al RADIAL†	21668.8	10.08 mg/L	0.108	10.08 mg/L	0.108	1.08%
Fe RADIAL†	591.9	5.120 mg/L	0.0638	5.120 mg/L	0.0638	1.25%
Ca RADIAL†	66323.6	25.60 mg/L	0.361	25.60 mg/L	0.361	1.41%
K RADIAL†	7967.9	4.972 mg/L	0.1036	4.972 mg/L	0.1036	2.08%
Mg RADIAL†	3489.3	25.75 mg/L	0.226	25.75 mg/L	0.226	0.88%
Na RADIAL†	459954.2	25.68 mg/L	0.090	25.68 mg/L	0.090	0.35%

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Sequence No.: 49
Sample ID: SEQ-CCB4
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 4

Date Collected: 10/30/2013 1:53:05 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB4

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	20681320.0	4.947 mg/L	0.0598			1.21%
Y RADIAL	264010.7	4.880 mg/L	0.0042			0.09%
As 188.979†	-6.1	-0.0016 mg/L	0.00165	-0.0016 mg/L	0.00165	101.52%
Tl 190.801†	-3.3	-0.0006 mg/L	0.00043	-0.0006 mg/L	0.00043	70.83%
Se 196.026†	-2.5	-0.0014 mg/L	0.00152	-0.0014 mg/L	0.00152	109.27%
Zn 206.200†	33.9	0.0004 mg/L	0.00026	0.0004 mg/L	0.00026	62.92%
Sb 206.836†	17.3	0.0031 mg/L	0.00048	0.0031 mg/L	0.00048	15.46%
Pb 220.353†	12.1	0.0011 mg/L	0.00041	0.0011 mg/L	0.00041	38.19%
Cd 226.502†	8.0	0.0000 mg/L	0.00010	0.0000 mg/L	0.00010	238.03%
Co 228.616†	1.5	0.0000 mg/L	0.00023	0.0000 mg/L	0.00023	671.17%
Ni 232.003†	-31.6	-0.0012 mg/L	0.00103	-0.0012 mg/L	0.00103	86.15%
Ba 233.527†	14.3	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	7.73%
Mn 257.610†	91.3	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	18.08%
Cr 267.716†	13.2	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	30.00%
Fe 273.955†	24.0	0.0010 mg/L	0.00029	0.0010 mg/L	0.00029	30.19%
Mg 279.077†	-18.4	-0.0009 mg/L	0.00109	-0.0009 mg/L	0.00109	119.93%
V 292.402†	42.5	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	64.57%
Al 308.215†	71.1	0.0017 mg/L	0.00190	0.0017 mg/L	0.00190	111.53%
Be 313.107†	254.7	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	57.20%
Cu 324.752†	-103.4	-0.0003 mg/L	0.00017	-0.0003 mg/L	0.00017	67.60%
Ag 338.289†	-24.2	-0.0001 mg/L	0.00055	-0.0001 mg/L	0.00055	535.59%
Na 330.237†	59.7	0.0362 mg/L	0.03508	0.0362 mg/L	0.03508	96.92%
Ca 227.546†	5.9	0.0085 mg/L	0.00410	0.0085 mg/L	0.00410	48.05%
Al RADIAL†	0.7	0.0003 mg/L	0.00547	0.0003 mg/L	0.00547	>999.9%

Fe RADIAL†	2.2	0.0190 mg/L	0.01129	0.0190 mg/L	0.01129	59.41%
Ca RADIAL†	-3.0	-0.0011 mg/L	0.00296	-0.0011 mg/L	0.00296	258.35%
K RADIAL†	-135.9	-0.0848 mg/L	0.03756	-0.0848 mg/L	0.03756	44.29%
Mg RADIAL†	-1.3	-0.0099 mg/L	0.02107	-0.0099 mg/L	0.02107	211.89%
Na RADIAL†	-22124.8	-1.235 mg/L	0.0322	-1.235 mg/L	0.0322	2.60%

Sequence No.: 50

Sample ID: 13J1051-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 39

Date Collected: 10/30/2013 1:58:07 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 13J1051-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	20602882.4	4.928 mg/L		0.0492			1.00%
Y RADIAL	267976.1	4.953 mg/L		0.0348			0.70%
As 188.979†	5.6	0.0015 mg/L		0.00146	0.0015 mg/L	0.00146	97.58%
Tl 190.801†	-10.0	-0.0018 mg/L		0.00015	-0.0018 mg/L	0.00015	8.34%
Se 196.026†	1.6	0.0009 mg/L		0.00137	0.0009 mg/L	0.00137	146.59%
Zn 206.200†	10283.5	0.1265 mg/L		0.00198	0.1265 mg/L	0.00198	1.56%
Sb 206.836†	-4.6	-0.0008 mg/L		0.00077	-0.0008 mg/L	0.00077	93.39%
Pb 220.353†	-7.5	-0.0004 mg/L		0.00080	-0.0004 mg/L	0.00080	221.05%
Cd 226.502†	72.9	0.0004 mg/L		0.00004	0.0004 mg/L	0.00004	12.16%
Co 228.616†	2.7	0.0001 mg/L		0.00013	0.0001 mg/L	0.00013	207.31%
Ni 232.003†	49.6	0.0019 mg/L		0.00056	0.0019 mg/L	0.00056	29.69%
Ba 233.527†	542.7	0.0032 mg/L		0.00005	0.0032 mg/L	0.00005	1.64%
Mn 257.610†	3958.8	0.0042 mg/L		0.00004	0.0042 mg/L	0.00004	0.90%
Cr 267.716†	65.4	0.0004 mg/L		0.00009	0.0004 mg/L	0.00009	22.23%
Fe 273.955†	1253.5	0.0498 mg/L		0.00039	0.0498 mg/L	0.00039	0.78%
Mg 279.077†	119755.1	5.901 mg/L		0.0577	5.901 mg/L	0.0577	0.98%
V 292.402†	-1063.8	-0.0025 mg/L		0.00004	-0.0025 mg/L	0.00004	1.58%
Al 308.215†	520.9	0.0120 mg/L		0.00039	0.0120 mg/L	0.00039	3.23%
Be 313.107†	36.2	0.0000 mg/L		0.00001	0.0000 mg/L	0.00001	156.20%
Cu 324.752†	5662.0	0.0131 mg/L		0.00026	0.0131 mg/L	0.00026	1.96%
Ag 338.289†	16.3	-0.0002 mg/L		0.00008	-0.0002 mg/L	0.00008	38.52%
Na 330.237†	75072.6	45.51 mg/L		0.217	45.51 mg/L	0.217	0.48%
Ca 227.546†	18296.0	26.28 mg/L		0.236	26.28 mg/L	0.236	0.90%
Al RADIAL†	17.9	0.0083 mg/L		0.00187	0.0083 mg/L	0.00187	22.48%
Fe RADIAL†	8.3	0.0720 mg/L		0.01488	0.0720 mg/L	0.01488	20.66%
Ca RADIAL†	77471.4	29.90 mg/L		0.198	29.90 mg/L	0.198	0.66%
K RADIAL†	32036.2	19.99 mg/L		0.239	19.99 mg/L	0.239	1.19%
Mg RADIAL†	789.9	5.829 mg/L		0.0714	5.829 mg/L	0.0714	1.23%
Na RADIAL†	1009113.2	56.35 mg/L		0.308	56.35 mg/L	0.308	0.55%

Sequence No.: 51

Sample ID: SEQ-SRD2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 40

Date Collected: 10/30/2013 2:03:15 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-SRD2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	20567859.3	4.920 mg/L		0.0426			0.87%
Y RADIAL	266882.7	4.933 mg/L		0.0125			0.25%
As 188.979†	10.1	0.0082 mg/L		0.00160	0.0082 mg/L	0.00160	19.51%
Tl 190.801†	-27.1	-0.0018 mg/L		0.00029	-0.0018 mg/L	0.00029	16.52%
Se 196.026†	-37.9	0.0055 mg/L		0.00184	0.0055 mg/L	0.00184	33.61%
Zn 206.200†	15846.3	0.1928 mg/L		0.00292	0.1928 mg/L	0.00292	1.51%
Sb 206.836†	-2.7	-0.0007 mg/L		0.00045	-0.0007 mg/L	0.00045	64.95%
Pb 220.353†	675.0	0.0573 mg/L		0.00146	0.0573 mg/L	0.00146	2.55%
Cd 226.502†	2513.9	0.0056 mg/L		0.00008	0.0056 mg/L	0.00008	1.51%
Co 228.616†	1098.1	0.0247 mg/L		0.00026	0.0247 mg/L	0.00026	1.04%
Ni 232.003†	1753.3	0.0721 mg/L		0.00053	0.0721 mg/L	0.00053	0.74%
Ba 233.527†	29011.1	0.1724 mg/L		0.00163	0.1724 mg/L	0.00163	0.94%
Mn 257.610†	2515207.8	2.759 mg/L		0.0233	2.759 mg/L	0.0233	0.84%
Cr 267.716†	5668.4	0.0344 mg/L		0.00050	0.0344 mg/L	0.00050	1.45%

Fe 273.955+	946942.2	37.65 mg/L	0.301	37.65 mg/L	0.301	0.80%
Mg 279.077+	279428.5	13.77 mg/L	0.105	13.77 mg/L	0.105	0.76%
V 292.402+	11083.0	0.0227 mg/L	0.00016	0.0227 mg/L	0.00016	0.70%
Al 308.215+	604990.0	14.46 mg/L	0.147	14.46 mg/L	0.147	1.02%
Be 313.107+	6127.8	0.0011 mg/L	0.00003	0.0011 mg/L	0.00003	3.12%
Cu 324.752+	33334.6	0.0811 mg/L	0.00018	0.0811 mg/L	0.00018	0.23%
Ag 338.289+	-9.1	-0.0007 mg/L	0.00022	-0.0007 mg/L	0.00022	33.16%
Na 330.237+	104449.7	63.55 mg/L	0.240	63.55 mg/L	0.240	0.38%
Ca 227.546+	41371.3	59.61 mg/L	0.601	59.61 mg/L	0.601	1.01%
Al RADIAL+	32606.8	15.16 mg/L	0.025	15.16 mg/L	0.025	0.16%
Fe RADIAL+	4499.3	38.92 mg/L	0.159	38.92 mg/L	0.159	0.41%
Ca RADIAL+	170383.5	65.76 mg/L	0.035	65.76 mg/L	0.035	0.05%
K RADIAL+	4415.0	2.755 mg/L	0.0163	2.755 mg/L	0.0163	0.59%
Mg RADIAL+	1842.6	13.60 mg/L	0.014	13.60 mg/L	0.014	0.11%
Na RADIAL+	1373082.8	76.67 mg/L	0.473	76.67 mg/L	0.473	0.62%

Sequence No.: 52

Sample ID: SEQ-CRL2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 10/30/2013 2:08:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CRL2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	20974399.3	5.017	mg/L	0.0366				0.73%
Y RADIAL	261007.6	4.824	mg/L	0.0625				1.30%
As 188.979+	31.4	0.0083	mg/L	0.00091	0.0083	mg/L	0.00091	10.87%
Tl 190.801+	52.9	0.0096	mg/L	0.00136	0.0096	mg/L	0.00136	14.14%
Se 196.026+	14.5	0.0081	mg/L	0.00063	0.0081	mg/L	0.00063	7.76%
Zn 206.200+	525.2	0.0065	mg/L	0.00007	0.0065	mg/L	0.00007	1.07%
Sb 206.836+	58.7	0.0106	mg/L	0.00091	0.0106	mg/L	0.00091	8.63%
Pb 220.353+	69.7	0.0062	mg/L	0.00079	0.0062	mg/L	0.00079	12.66%
Cd 226.502+	1072.3	0.0054	mg/L	0.00006	0.0054	mg/L	0.00006	1.07%
Co 228.616+	225.6	0.0051	mg/L	0.00013	0.0051	mg/L	0.00013	2.65%
Ni 232.003+	101.0	0.0038	mg/L	0.00045	0.0038	mg/L	0.00045	11.86%
Ba 233.527+	1906.2	0.0113	mg/L	0.00012	0.0113	mg/L	0.00012	1.02%
Mn 257.610+	5118.6	0.0056	mg/L	0.00007	0.0056	mg/L	0.00007	1.24%
Cr 267.716+	906.7	0.0055	mg/L	0.00012	0.0055	mg/L	0.00012	2.14%
Fe 273.955+	255.4	0.0102	mg/L	0.00055	0.0102	mg/L	0.00055	5.43%
Mg 279.077+	5.1	0.0003	mg/L	0.00048	0.0003	mg/L	0.00048	189.60%
V 292.402+	2206.5	0.0051	mg/L	0.00005	0.0051	mg/L	0.00005	0.88%
Al 308.215+	198.1	0.0047	mg/L	0.00333	0.0047	mg/L	0.00333	70.24%
Be 313.107+	29513.7	0.0052	mg/L	0.00003	0.0052	mg/L	0.00003	0.57%
Cu 324.752+	1698.6	0.0041	mg/L	0.00013	0.0041	mg/L	0.00013	3.06%
Ag 338.289+	1116.7	0.0048	mg/L	0.00032	0.0048	mg/L	0.00032	6.67%
Na 330.237+	107.5	0.0651	mg/L	0.03598	0.0651	mg/L	0.03598	55.24%
Ca 227.546+	-15.7	-0.0225	mg/L	0.01011	-0.0225	mg/L	0.01011	45.02%
Al RADIAL+	28.6	0.0133	mg/L	0.00293	0.0133	mg/L	0.00293	22.04%
Fe RADIAL+	4.3	0.0368	mg/L	0.02758	0.0368	mg/L	0.02758	74.93%
Ca RADIAL+	24.7	0.0095	mg/L	0.00484	0.0095	mg/L	0.00484	50.71%
K RADIAL+	-77.9	-0.0486	mg/L	0.01235	-0.0486	mg/L	0.01235	25.42%
Mg RADIAL+	0.2	0.0014	mg/L	0.01193	0.0014	mg/L	0.01193	836.41%
Na RADIAL+	-24155.7	-1.349	mg/L	0.0301	-1.349	mg/L	0.0301	2.23%

Sequence No.: 53

Sample ID: SEQ-IFA2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 10/30/2013 2:13:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	17598094.6	4.209	mg/L	0.0368				0.87%
Y RADIAL	238550.0	4.409	mg/L	0.0257				0.58%
As 188.979+	-94.3	0.0017	mg/L	0.00569	0.0017	mg/L	0.00569	339.35%
Tl 190.801+	-103.2	0.0013	mg/L	0.00148	0.0013	mg/L	0.00148	111.54%

Se 196.026†	-249.7	-0.0109 mg/L	0.00656	-0.0109 mg/L	0.00656	60.18%
Zn 206.200†	1428.3	-0.0011 mg/L	0.00040	-0.0011 mg/L	0.00040	36.91%
Sb 206.836†	34.6	-0.0013 mg/L	0.00081	-0.0013 mg/L	0.00081	63.26%
Pb 220.353†	-521.4	-0.0166 mg/L	0.00165	-0.0166 mg/L	0.00165	9.97%
Cd 226.502†	5812.7	-0.0049 mg/L	0.00012	-0.0049 mg/L	0.00012	2.44%
Co 228.616†	-74.7	-0.0017 mg/L	0.00028	-0.0017 mg/L	0.00028	16.41%
Ni 232.003†	-399.3	0.0146 mg/L	0.00679	0.0146 mg/L	0.00679	46.49%
Ba 233.527†	272.8	0.0016 mg/L	0.00019	0.0016 mg/L	0.00019	11.91%
Mn 257.610†	-21665.0	-0.0232 mg/L	0.00029	-0.0232 mg/L	0.00029	1.24%
Cr 267.716†	-1348.0	-0.0082 mg/L	0.00006	-0.0082 mg/L	0.00006	0.75%
Fe 273.955†	4561450.2	181.3 mg/L	1.49	181.3 mg/L	1.49	0.82%
Mg 279.077†	10181792.6	501.7 mg/L	4.11	501.7 mg/L	4.11	0.82%
V 292.402†	5365.7	-0.0022 mg/L	0.00085	-0.0022 mg/L	0.00085	38.33%
Al 308.215†	21087758.7	503.8 mg/L	0.48	503.8 mg/L	0.48	0.10%
Be 313.107†	-157.7	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	118.85%
Cu 324.752†	-3425.1	-0.0219 mg/L	0.00020	-0.0219 mg/L	0.00020	0.92%
Ag 338.289†	1147.6	-0.0005 mg/L	0.00009	-0.0005 mg/L	0.00009	19.73%
Na 330.237†	-2184.8	0.4886 mg/L	0.01689	0.4886 mg/L	0.01689	3.46%
Ca 227.546†	354471.4	510.3 mg/L	8.89	510.3 mg/L	8.89	1.74%
Al RADIAL†	1118941.5	520.3 mg/L	1.22	520.3 mg/L	1.22	0.24%
Fe RADIAL†	22619.2	195.6 mg/L	2.48	195.6 mg/L	2.48	1.27%
Ca RADIAL†	1296103.4	500.3 mg/L	1.26	500.3 mg/L	1.26	0.25%
K RADIAL†	95.2	0.0594 mg/L	0.02599	0.0594 mg/L	0.02599	43.73%
Mg RADIAL†	68720.1	507.2 mg/L	4.88	507.2 mg/L	4.88	0.96%
Na RADIAL†	16175.7	0.9033 mg/L	0.00498	0.9033 mg/L	0.00498	0.55%

Sequence No.: 54

Sample ID: SEQ-IFB2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 10/30/2013 2:20:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	17771971.5	4.251	mg/L	0.0017				0.04%
Y RADIAL	241609.1	4.466	mg/L	0.0528				1.18%
As 188.979†	1806.3	0.5054	mg/L	0.00435	0.5054	mg/L	0.00435	0.86%
Tl 190.801†	2374.6	0.4510	mg/L	0.00947	0.4510	mg/L	0.00947	2.10%
Se 196.026†	661.5	0.4934	mg/L	0.00774	0.4934	mg/L	0.00774	1.57%
Zn 206.200†	76773.8	0.9255	mg/L	0.00083	0.9255	mg/L	0.00083	0.09%
Sb 206.836†	2734.7	0.4855	mg/L	0.00227	0.4855	mg/L	0.00227	0.47%
Pb 220.353†	9378.6	0.8661	mg/L	0.00026	0.8661	mg/L	0.00026	0.03%
Cd 226.502†	184023.6	0.8933	mg/L	0.00627	0.8933	mg/L	0.00627	0.70%
Co 228.616†	19815.1	0.4457	mg/L	0.00074	0.4457	mg/L	0.00074	0.17%
Ni 232.003†	25982.5	1.007	mg/L	0.0046	1.007	mg/L	0.0046	0.46%
Ba 233.527†	86933.8	0.5167	mg/L	0.00139	0.5167	mg/L	0.00139	0.27%
Mn 257.610†	407499.1	0.4473	mg/L	0.00365	0.4473	mg/L	0.00365	0.82%
Cr 267.716†	74776.1	0.4540	mg/L	0.00332	0.4540	mg/L	0.00332	0.73%
Fe 273.955†	4540898.8	180.5	mg/L	1.36	180.5	mg/L	1.36	0.75%
Mg 279.077†	10105569.2	498.0	mg/L	3.71	498.0	mg/L	3.71	0.75%
V 292.402†	204583.6	0.4606	mg/L	0.00361	0.4606	mg/L	0.00361	0.78%
Al 308.215†	21256474.2	507.9	mg/L	1.80	507.9	mg/L	1.80	0.35%
Be 313.107†	2717667.3	0.4763	mg/L	0.00352	0.4763	mg/L	0.00352	0.74%
Cu 324.752†	202897.7	0.4781	mg/L	0.00451	0.4781	mg/L	0.00451	0.94%
Ag 338.289†	238689.2	1.016	mg/L	0.0077	1.016	mg/L	0.0077	0.76%
Na 330.237†	-130.4	1.722	mg/L	0.0908	1.722	mg/L	0.0908	5.27%
Ca 227.546†	351746.1	506.4	mg/L	4.48	506.4	mg/L	4.48	0.88%
Al RADIAL†	1124423.2	522.8	mg/L	3.33	522.8	mg/L	3.33	0.64%
Fe RADIAL†	22524.0	194.8	mg/L	4.68	194.8	mg/L	4.68	2.40%
Ca RADIAL†	1291662.1	498.5	mg/L	0.93	498.5	mg/L	0.93	0.19%
K RADIAL†	44.5	0.0278	mg/L	0.02439	0.0278	mg/L	0.02439	87.75%
Mg RADIAL†	68852.2	508.1	mg/L	12.12	508.1	mg/L	12.12	2.39%
Na RADIAL†	14086.5	0.7866	mg/L	0.01300	0.7866	mg/L	0.01300	1.65%

Sequence No.: 55

Sample ID: SEQ-CCV5

Analyst: MW

Initial Sample Wt:

Autosampler Location: 8

Date Collected: 10/30/2013 2:27:32 PM

Data Type: Original

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: SEQ-CCV5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20725272.4	4.957	mg/L	0.0291				0.59%
Y RADIAL	263727.8	4.874	mg/L	0.0547				1.12%
As 188.979†	933.9	0.2483	mg/L	0.00202	0.2483	mg/L	0.00202	0.81%
Tl 190.801†	1368.2	0.2488	mg/L	0.00203	0.2488	mg/L	0.00203	0.82%
Se 196.026†	445.3	0.2503	mg/L	0.00165	0.2503	mg/L	0.00165	0.66%
Zn 206.200†	216838.5	2.666	mg/L	0.0411	2.666	mg/L	0.0411	1.54%
Sb 206.836†	1389.6	0.2504	mg/L	0.00241	0.2504	mg/L	0.00241	0.96%
Pb 220.353†	2893.0	0.2583	mg/L	0.00348	0.2583	mg/L	0.00348	1.35%
Cd 226.502†	25761.3	0.1289	mg/L	0.00156	0.1289	mg/L	0.00156	1.21%
Co 228.616†	113017.6	2.542	mg/L	0.0332	2.542	mg/L	0.0332	1.31%
Ni 232.003†	65494.4	2.464	mg/L	0.0325	2.464	mg/L	0.0325	1.32%
Ba 233.527†	1763460.9	10.48	mg/L	0.044	10.48	mg/L	0.044	0.42%
Mn 257.610†	2341162.6	2.566	mg/L	0.0114	2.566	mg/L	0.0114	0.45%
Cr 267.716†	169785.8	1.031	mg/L	0.0144	1.031	mg/L	0.0144	1.40%
Fe 273.955†	128679.9	5.116	mg/L	0.0634	5.116	mg/L	0.0634	1.24%
Mg 279.077†	505828.3	24.93	mg/L	0.147	24.93	mg/L	0.147	0.59%
V 292.402†	1084094.5	2.518	mg/L	0.0120	2.518	mg/L	0.0120	0.47%
Al 308.215†	390804.4	9.337	mg/L	0.0650	9.337	mg/L	0.0650	0.70%
Be 313.107†	1453554.8	0.2548	mg/L	0.00073	0.2548	mg/L	0.00073	0.28%
Cu 324.752†	489742.0	1.186	mg/L	0.0088	1.186	mg/L	0.0088	0.74%
Ag 338.289†	285349.6	1.221	mg/L	0.0140	1.221	mg/L	0.0140	1.15%
Na 330.237†	36570.6	22.22	mg/L	0.276	22.22	mg/L	0.276	1.24%
Ca 227.546†	15988.1	23.00	mg/L	0.233	23.00	mg/L	0.233	1.01%
Al RADIAL†	22142.1	10.30	mg/L	0.100	10.30	mg/L	0.100	0.97%
Fe RADIAL†	609.0	5.267	mg/L	0.1041	5.267	mg/L	0.1041	1.98%
Ca RADIAL†	69120.1	26.68	mg/L	0.250	26.68	mg/L	0.250	0.94%
K RADIAL†	8164.4	5.095	mg/L	0.0529	5.095	mg/L	0.0529	1.04%
Mg RADIAL†	3550.8	26.20	mg/L	0.286	26.20	mg/L	0.286	1.09%
Na RADIAL†	452589.1	25.27	mg/L	0.134	25.27	mg/L	0.134	0.53%

Sequence No.: 56

Sample ID: SEQ-CCB5

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 10/30/2013 2:35:18 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	20931288.6	5.007	mg/L	0.0401				0.80%
Y RADIAL	259533.0	4.797	mg/L	0.0192				0.40%
As 188.979†	1.3	0.0003	mg/L	0.00282	0.0003	mg/L	0.00282	813.53%
Tl 190.801†	-7.0	-0.0013	mg/L	0.00081	-0.0013	mg/L	0.00081	63.60%
Se 196.026†	-5.7	-0.0032	mg/L	0.00163	-0.0032	mg/L	0.00163	51.28%
Zn 206.200†	22.9	0.0003	mg/L	0.00015	0.0003	mg/L	0.00015	51.62%
Sb 206.836†	17.5	0.0032	mg/L	0.00037	0.0032	mg/L	0.00037	11.78%
Pb 220.353†	0.3	0.0000	mg/L	0.00058	0.0000	mg/L	0.00058	>999.9%
Cd 226.502†	2.8	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	160.82%
Co 228.616†	0.0	0.0000	mg/L	0.00022	0.0000	mg/L	0.00022	>999.9%
Ni 232.003†	-29.9	-0.0011	mg/L	0.00039	-0.0011	mg/L	0.00039	34.41%
Ba 233.527†	8.9	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	53.01%
Mn 257.610†	18.4	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	106.27%
Cr 267.716†	6.4	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	89.11%
Fe 273.955†	44.2	0.0018	mg/L	0.00018	0.0018	mg/L	0.00018	10.09%
Mg 279.077†	-1.6	-0.0001	mg/L	0.00068	-0.0001	mg/L	0.00068	869.60%
V 292.402†	115.5	0.0003	mg/L	0.00007	0.0003	mg/L	0.00007	26.32%
Al 308.215†	19.7	0.0005	mg/L	0.00235	0.0005	mg/L	0.00235	499.10%
Be 313.107†	402.8	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	33.30%
Cu 324.752†	-111.7	-0.0003	mg/L	0.00008	-0.0003	mg/L	0.00008	30.20%
Ag 338.289†	-27.0	-0.0001	mg/L	0.00036	-0.0001	mg/L	0.00036	306.34%
Na 330.237†	51.5	0.0312	mg/L	0.01408	0.0312	mg/L	0.01408	45.09%
Ca 227.546†	18.4	0.0264	mg/L	0.02817	0.0264	mg/L	0.02817	106.70%
Al RADIAL†	5.0	0.0023	mg/L	0.00588	0.0023	mg/L	0.00588	253.87%
Fe RADIAL†	1.7	0.0145	mg/L	0.00126	0.0145	mg/L	0.00126	8.73%

Ca RADIAL†	12.2	0.0047 mg/L	0.00215	0.0047 mg/L	0.00215	45.48%
K RADIAL†	-96.9	-0.0605 mg/L	0.00935	-0.0605 mg/L	0.00935	15.46%
Mg RADIAL†	0.9	0.0067 mg/L	0.00722	0.0067 mg/L	0.00722	108.42%
Na RADIAL†	-27269.9	-1.523 mg/L	0.0081	-1.523 mg/L	0.0081	0.53%

York Analytical Laboratories, Inc.

SDG: 13J1044

CLASS: HG

METHOD: EPA 7473

DATA PACKAGE COVER PAGE

EPA 7473

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Client Sample Id:

KC-MW-01 1013

KC-MW-02 1013

KC-MW-05 1013

KC-FD-01 1013

Lab Sample Id:

13J1044-01

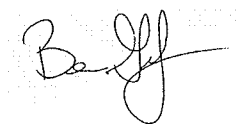
13J1044-02

13J1044-03

13J1044-04

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 in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:



Name:

Benjamin Gulizia

Date:

1/15/2014

Title:

Laboratory Director

FORM I

INORGANIC ANALYSIS DATA SHEET

EPA 7473

KC-MW-01 1013

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 13J1044-01

File ID:

Sampled: 10/25/13 17:00Prepared: 11/04/13 11:47Analyzed: 11/04/13 13:08Solids: 0.00Preparation: EPA 7473 waterInitial/Final: 0.1 mL / 0.1 mLBatch: BK30124

Sequence:

Calibration: 11/04/13 1Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I

INORGANIC ANALYSIS DATA SHEET

EPA 7473

KC-MW-02 1013

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 13J1044-02

File ID:

Sampled: 10/25/13 16:50Prepared: 11/04/13 11:47Analyzed: 11/04/13 13:08Solids: 0.00Preparation: EPA 7473 waterInitial/Final: 0.1 mL / 0.1 mLBatch: BK30124

Sequence:

Calibration: 11/04/13 1Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I

INORGANIC ANALYSIS DATA SHEET

EPA 7473

KC-MW-05 1013

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 13J1044-03

File ID:

Sampled: 10/25/13 16:40Prepared: 11/04/13 11:47Analyzed: 11/04/13 13:08Solids: 0.00Preparation: EPA 7473 waterInitial/Final: 0.1 mL / 0.1 mLBatch: BK30124

Sequence:

Calibration: 11/04/13 1Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I

INORGANIC ANALYSIS DATA SHEET

EPA 7473

KC-FD-01 1013

Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 13J1044-04

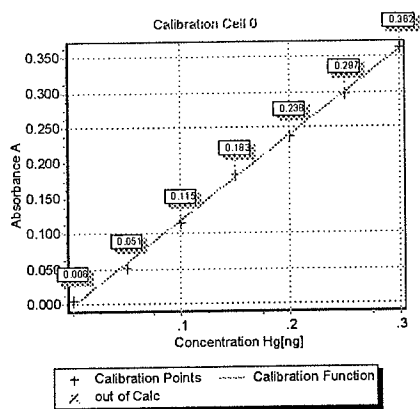
File ID:

Sampled: 10/25/13 15:00Prepared: 11/04/13 11:47Analyzed: 11/04/13 13:08Solids: 0.00Preparation: EPA 7473 waterInitial/Final: 0.1 mL / 0.1 mLBatch: BK30124

Sequence:

Calibration: 11/04/13 1Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

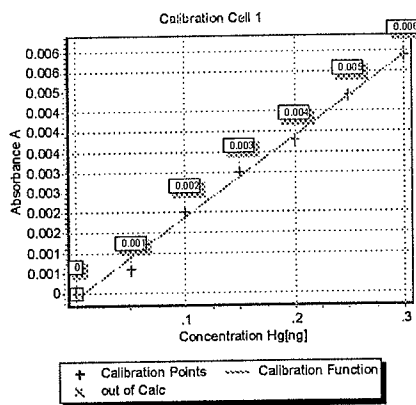


A= -0.00146128 R^2=0.9984

1.20311129 *Hg

0.00000000 *Hg^2

0.00000000 *Hg^3

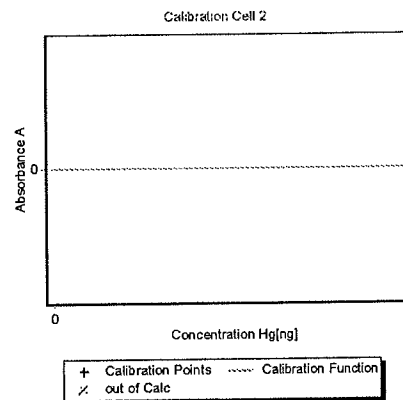


A= -0.00012553 R^2=0.9954

0.02007583 *Hg

0.00000000 *Hg^2

0.00000000 *Hg^3



A= 0.00000000 R^2=

0.00000000 *Hg

0.00000000 *Hg^2

0.00000000 *Hg^3

Initial Calibration ICAL103013A

No	Hg [ng]	Peak	Area	Cell	Date	Remark	Error [A]	Error [ng]
1	0	0.0061	0.008	0	10/30/2013 11:54 AM		0.0076	0.0063
3	0.0502	0.0511	0.0578	0	10/30/2013 11:57 AM		-0.0078	-0.0065
5	0.0998	0.1152	0.1315	0	10/30/2013 12:00 PM		-0.0034	-0.0029
7	0.15	0.1829	0.2069	0	10/30/2013 12:03 PM		0.0039	0.0032
9	0.2002	0.2382	0.2686	0	10/30/2013 12:10 PM		-0.0012	-0.001
11	0.2498	0.2971	0.3374	0	10/30/2013 12:18 PM		-0.002	-0.0017
13	0.3	0.3624	0.4086	0	10/30/2013 12:25 PM		0.003	0.0025
2	0	0	0	1	10/30/2013 11:54 AM		0.0001	0
4	0.0502	0.0006	0.0011	1	10/30/2013 11:57 AM		-0.0003	-0.014
6	0.0998	0.002	0.0042	1	10/30/2013 12:00 PM		0.0001	0.006
8	0.15	0.003	0.0067	1	10/30/2013 12:03 PM		0.0001	0.0057
10	0.2002	0.0038	0.0086	1	10/30/2013 12:10 PM		-0.0001	-0.0046
12	0.2498	0.0049	0.0109	1	10/30/2013 12:18 PM		0	0.0005
14	0.3	0.0059	0.0141	1	10/30/2013 12:25 PM		0	0.0002

Form 2A
CONTINUING CALIBRATION VERIFICATION (Hg)

Lab Name: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services
(Poughkeepsie)

Project: 41103.00 Kingston CVS

I Cal Source: Inorganic Ventures

Sequence: QBHg110513A

C Cal Source: Absolute Standards

Concentration units: mg/kg

Analyte	TRUE	CCV 1		TRUE	CCV 2		CCV 3	
		FOUND	%R(1)		FOUND	% R(1)	FOUND	% R(1)
Mercury	50.00	47.78	95.6	50.00	47.74	95.5	47.61	95.2

(1) Control Limits Hg 80-120 %

Form 2A
CONTINUING CALIBRATION VERIFICATION (Hg)

Lab Name: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services
(Poughkeepsie)

Project: 41103.00 Kingston CVS

I Cal Source: Inorganic Ventures

Sequence: QBHg110513A

C Cal Source: Absolute Standards

Concentration units: mg/kG

Analyte	TRUE	CCV 4						
		FOUND	%R(1)					
Mercury	50.00	52.30	104.6					

(1) Control Limits Hg 80-120 %

Form 3
BLANKS

Lab Name: York Analytical Laboratories, Inc

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Preparation Blank Matrix: Aqueous

Prep Blank ID: BK30124-BLK1

Prep. Blank Conc. Units: ug/l

Sequence ID: QBHg110513A

Analyte	Continuing Calibration Blanks (mg/kg)								Preparation Blank		M
	1	C	2	C	3	C	4	C	Result	C	
Mercury	0.05000	U	0.05000	U	0.05000	U	0.05000	U	0.05000	U	CV

STANDARD REFERENCE MATERIAL RECOVERY

EPA 7473

Laboratory: York Analytical Laboratories, Inc.

SDG: 13J1044

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Batch: BK30124

Laboratory ID: BK30124-SRM1

Preparation: EPA 7473 water

Initial/Final: 0.1 mL / 0.1 mL

ANALYTE	TRUE (mg/kg)	FOUND (mg/kg)	SRM % REC.	QC LIMITS REC.
Mercury	0.00000460	0.00000490	106	61.3 - 135

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 7473

KC-FD-01 1013

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water
 Batch: BK30124 Laboratory ID: BK30124-MS1
 Preparation: EPA 7473 water Initial/Final: 0.1 mL / 0.1 mL
 Source Sample Name: KC-FD-01 1013

COMPOUND	SPIKE ADDED (mg/kg)	SAMPLE CONCENTRATION (mg/kg)	MS CONCENTRATION (mg/kg)	MS % REC. #	QC LIMITS REC.
Mercury	0.0000500	ND	0.00006	111	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

DUPLICATES**KC-FD-01 1013****EPA 7473**Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: BK30124-DUP1Batch: BK30124Lab Source ID: 13J1044-04Preparation: EPA 7473 waterInitial/Final: 0.1 mL / 0.1 mLSource Sample Name: KC-FD-01 1013

% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Mercury	20	ND		ND				EPA 7473

* Values outside of QC limits

FORM IV

PREPARATION BATCH SUMMARY

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 13J1044
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Batch: BK30124 Batch Matrix: Water Preparation: EPA 7473 water

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1013	13J1044-01		11/04/13 11:47	
KC-MW-02 1013	13J1044-02		11/04/13 11:47	
KC-MW-05 1013	13J1044-03		11/04/13 11:47	
KC-FD-01 1013	13J1044-04		11/04/13 11:47	
Blank	BK30124-BLK1		11/04/13 11:47	
KC-FD-01 1013	BK30124-DUP1		11/04/13 11:47	
KC-FD-01 1013	BK30124-MS1		11/04/13 11:47	
Reference	BK30124-SRM1		11/04/13 11:47	

FORM V**ANALYSIS BATCH (SEQUENCE) SUMMARY****EPA 7473**Laboratory: York Analytical Laboratories, Inc.SDG: 13J1044Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVS

Sequence:

Instrument:

Matrix: WaterCalibration: 11/04/13 1

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Reference	BK30124-SRM1		11/04/13 13:08
KC-FD-01 1013	BK30124-MS1		11/04/13 13:08
KC-FD-01 1013	BK30124-DUP1		11/04/13 13:08
Blank	BK30124-BLK1		11/04/13 13:08

Mercury Data QBHg110513a

Pos	Name	Hg [ng]	R _u ug/L	R _u ng/L	Weight	Unit	Height Peak	Area Peak	Record Time [sec]	Calibration File	Calibration Date	Remark
1	IB	0.02011	0.0067	6.7	2.99987	[ml]	0.02274	0.0259	11/4/2013 12:52 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
1	IB	0.01692	0.00564	5.64	2.99987	[ml]	0.0189	0.021	11/4/2013 12:54 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
2	CCV_1	0.14335	0.04778	47.78	2.99987	[ml]	0.171	0.1923	11/4/2013 12:57 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
0	auto BV (1)	0.00936	0.00936	9.36	1	[ml]	0.0098	0.0122	11/4/2013 1:01 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
1	CCB_1	0.01908	0.00636	6.36	2.99987	[ml]	0.0215	0.0249	11/4/2013 1:05 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
1	BK30124-BLK1	0.01676	0.00559	5.59	2.99987	[ml]	0.0187	0.0207	11/4/2013 1:08 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
2	BK30124-SRM1	0.14692	0.04898	48.98	2.99987	[ml]	0.1753	0.195	11/4/2013 1:11 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
0	auto BV (1)	0.0077	0.0077	7.7	1	[ml]	0.0078	0.0087	11/4/2013 1:14 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
3	1311064-01	0.01705	0.00568	5.68	2.99987	[ml]	0.01905	0.0214	11/4/2013 1:18 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
4	1311064-02	0.01302	0.00434	4.34	2.99987	[ml]	0.0142	0.0159	11/4/2013 1:21 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
5	1311064-03	0.01119	0.00373	3.73	2.99987	[ml]	0.012	0.014	11/4/2013 1:24 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
6	1311064-04	0.01061	0.00354	3.54	2.99987	[ml]	0.0113	0.0122	11/4/2013 1:27 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
7	1311064-05	0.01077	0.00359	3.59	2.99987	[ml]	0.0115	0.0121	11/4/2013 1:31 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
8	1311064-06	0.01027	0.00342	3.42	2.99987	[ml]	0.0109	0.0116	11/4/2013 1:34 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
9	1311064-07	0.00986	0.00329	3.29	2.99987	[ml]	0.0104	0.0117	11/4/2013 1:37 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
10	1311064-08	0.01127	0.00376	3.76	2.99987	[ml]	0.0121	0.0133	11/4/2013 1:40 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
2	CCV_2	0.14321	0.04774	47.74	2.99987	[ml]	0.17083	0.191	11/4/2013 1:43 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
0	auto BV (1)	0.00454	0.00454	4.54	1	[ml]	0.004	0.0041	11/4/2013 1:47 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
1	CCB_2	0.01219	0.00406	4.06	2.99987	[ml]	0.0132	0.0154	11/4/2013 1:51 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
11	1311064-09	0.01169	0.0039	3.9	2.99987	[ml]	0.01261	0.0156	11/4/2013 1:54 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
12	1311064-10	0.01102	0.00367	3.67	2.99987	[ml]	0.0118	0.0138	11/4/2013 1:57 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
13	1311064-11	0.01011	0.00337	3.37	2.99987	[ml]	0.0107	0.0116	11/4/2013 2:00 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
14	1311064-12	0.00961	0.0032	3.2	2.99987	[ml]	0.0101	0.0109	11/4/2013 2:03 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
15	1311064-13	0.01052	0.00351	3.51	2.99987	[ml]	0.0112	0.0121	11/4/2013 2:06 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
16	1311064-14	0.01027	0.00342	3.42	2.99987	[ml]	0.0109	0.0129	11/4/2013 2:10 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
17	1311064-15	0.01003	0.00334	3.34	2.99987	[ml]	0.0106	0.0124	11/4/2013 2:13 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
18	1311064-16	0.01052	0.00351	3.51	2.99987	[ml]	0.0112	0.0138	11/4/2013 2:16 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
19	1311044-01	0.01077	0.00359	3.59	2.99987	[ml]	0.0115	0.0135	11/4/2013 2:19 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
20	1311044-02	0.01152	0.00384	3.84	2.99987	[ml]	0.0124	0.0143	11/4/2013 2:23 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
2	CCV_3	0.14281	0.04761	47.61	2.99987	[ml]	0.17036	0.1968	11/4/2013 3:00 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
0	auto BV (1)	0.0057	0.0057	5.7	1	[ml]	0.0054	0.006	11/4/2013 3:02 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
1	CCB_3	0.01285	0.00428	4.28	2.99987	[ml]	0.014	0.0149	11/4/2013 3:06 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
21	1311044-03	0.01875	0.00625	6.25	2.99987	[ml]	0.0211	0.025	11/4/2013 3:36 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
22	1311044-04	0.02462	0.00821	8.21	2.99987	[ml]	0.02815	0.0331	11/4/2013 3:38 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
23	BK30124-DUP1	0.02217	0.00739	7.39	2.99987	[ml]	0.02521	0.0292	11/4/2013 3:42 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
24	BK30124-MS1	0.16592	0.05531	55.31	2.99987	[ml]	0.19816	0.2253	11/4/2013 3:45 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
0	auto BV (1)	0.0057	0.0057	5.7	1	[ml]	0.0054	0.0049	11/4/2013 3:48 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
2	CCV_4	0.15689	0.0523	52.3	2.99987	[ml]	0.1873	0.2156	11/4/2013 3:53 PM	ICAL103013A.c80	10/30/2013 3:28 PM	

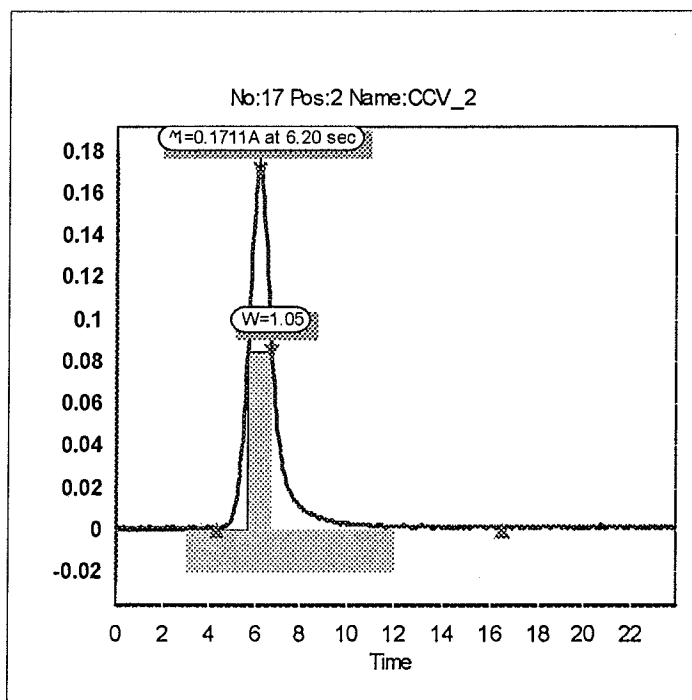
0	auto BV (1)	0.00562	0.00562	5.62	1	[ml]	0.0053	0.0055	11/4/2013 3:55 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
1	CCB_4	0.01393	0.00464	4.64	2.99987	[ml]	0.0153	0.0167	11/4/2013 3:59 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
1	BK30125-BLK1	0.01223	0.00408	4.08	2.99987	[ml]	0.01325	0.0158	11/4/2013 4:02 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
2	BK30125-SRM1	0.15822	0.05274	52.74	2.99987	[ml]	0.1889	0.2118	11/4/2013 4:06 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
0	auto BV (1)	0.00537	0.00537	5.37	1	[ml]	0.005	0.0049	11/4/2013 4:09 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
3	13J1098-01	0.01538	0.00513	5.13	2.99987	[ml]	0.01704	0.0203	11/4/2013 4:13 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
4	13J1098-02	0.01235	0.00412	4.12	2.99987	[ml]	0.0134	0.0145	11/4/2013 4:16 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
5	13J1098-03	0.01244	0.00415	4.15	2.99987	[ml]	0.0135	0.0167	11/4/2013 4:19 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
6	13J1098-01	0.01185	0.00395	3.95	2.99987	[ml]	0.0128	0.0142	11/4/2013 4:22 PM	ICAL103013A.c80	10/30/2013 3:28 PM	DISSOLVED
7	13J1098-02	0.0116	0.00387	3.87	2.99987	[ml]	0.0125	0.0139	11/4/2013 4:25 PM	ICAL103013A.c80	10/30/2013 3:28 PM	DISSOLVED
8	13J1098-03	0.01227	0.00409	4.09	2.99987	[ml]	0.0133	0.0159	11/4/2013 4:28 PM	ICAL103013A.c80	10/30/2013 3:28 PM	DISSOLVED
9	13J1057-03	0.01185	0.00395	3.95	2.99987	[ml]	0.0128	0.0148	11/4/2013 4:32 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
10	BK30125-DUP1	0.01077	0.00359	3.59	2.99987	[ml]	0.0115	0.012	11/4/2013 4:35 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
11	BK30125-MS1	0.13744	0.04582	45.82	2.99987	[ml]	0.1639	0.1856	11/4/2013 4:38 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
0	auto BV (1)	0.00545	0.00545	5.45	1	[ml]	0.0051	0.0054	11/4/2013 4:41 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
2	CCV_5	0.15906	0.05302	53.02	2.99987	[ml]	0.1899	0.2177	11/4/2013 4:45 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
0	auto BV (1)	0.00495	0.00495	4.95	1	[ml]	0.0045	0.0044	11/4/2013 4:48 PM	ICAL103013A.c80	10/30/2013 3:28 PM	
1	CCB_5	0.0155	0.00517	5.17	2.99987	[ml]	0.01719	0.0195	11/4/2013 4:52 PM	ICAL103013A.c80	10/30/2013 3:28 PM	



DMA Result Report

Created by: Administrator
11/5/2013 11:47:40 AM

Signal curve E:\Data\QBHgFMA80-110413A.d80



Parameters

Position 17

Remarks

Method File

standard.m80

26.02.2013

Temperature

Max. start T 0

Purge time 350

Amalgamator heating time 12

Signal recording time 12

Weight of sample 2.9999 ml

Calibration file ICAL103013A.c80 30.10.2013 15:28:42

Calibration factor 1.0000

Results

Status o.k.

Height 0.1708

Concentration 0.0477 [µg/kg]

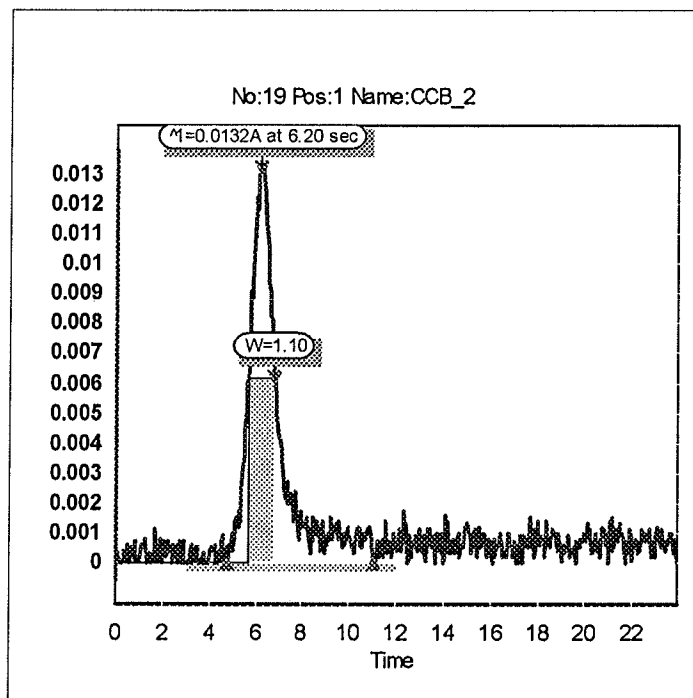
Absolute amount of Hg 0.1432 ng



DMA Result Report

Created by: Administrator
11/5/2013 11:49:14 AM

Signal curve E:\Data\QBHgFMA80-110413A.d80



Parameters

Position 19

Remarks

Method File standard m80 26.02.2013

Temperature

Max. start T 0

Purge time 350

Amalgamator heating time 12

Signal recording time 12

Weight of sample 2.9999 ml

Calibration file ICAL103013A.c80 30.10.2013 15:28:42

Calibration factor 1.0000

Results

Status o.k.

Height 0.0132

Concentration 0.0041 [µg/kg]

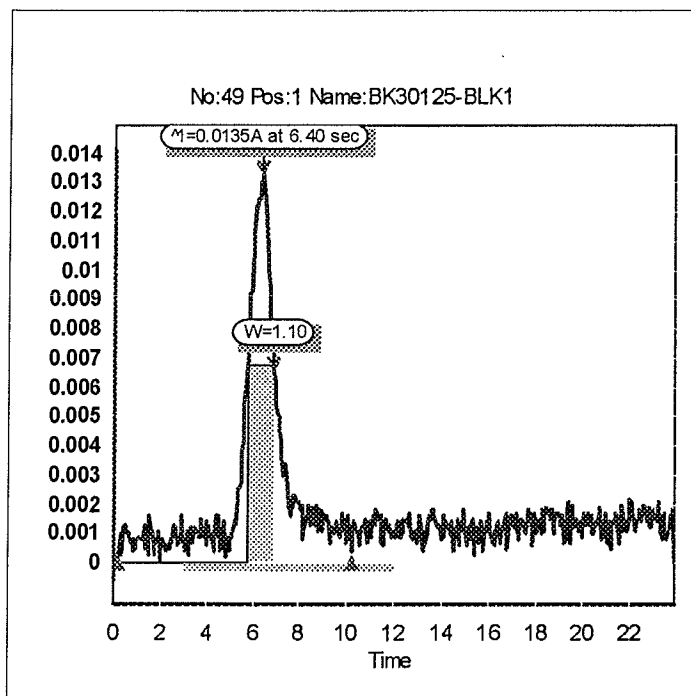
Absolute amount of Hg 0.0122 ng



DMA Result Report

Created by: Administrator
11/5/2013 12:12:14 PM

Signal curve E:\Data\QBHgFMA80-110413A.d80



Parameters

Position 49

Remarks

Method File standard.m80 26.02.2013

Temperature

Max. start T 0

Purge time 350

Amalgamator heating time 12

Signal recording time 12

Weight of sample 2.9999 ml

Calibration file ICAL103013A.c80 30.10.2013 15:28:42

Calibration factor 1.0000

Results

Status o.k

Height 0.0133

Concentration 0.0041 [µg/kg]

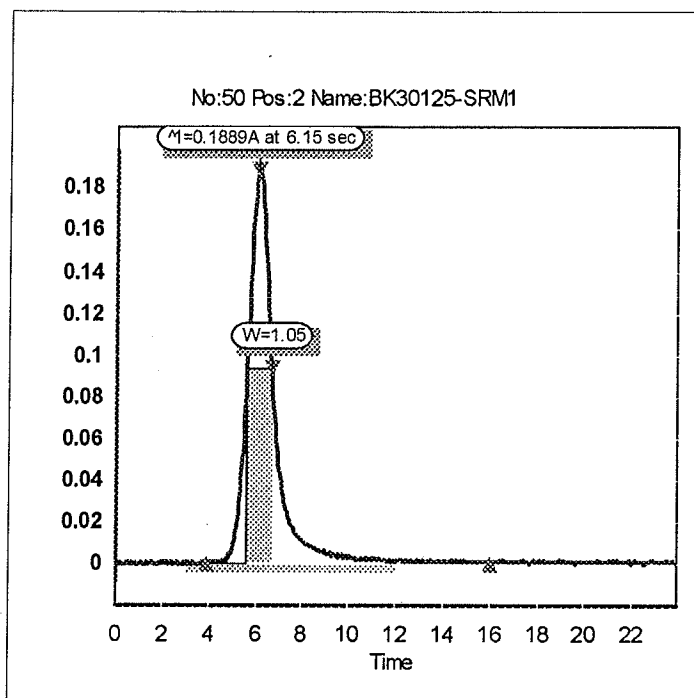
Absolute amount of Hg 0.0122 ng



DMA Result Report

Created by: Administrator
11/5/2013 12:12:28 PM

Signal curve E:\Data\QBHgFMA80-110413A.d80



Parameters

Position 50

Remarks

Method File standard.m80 26.02.2013

Temperature

Max. start T 0

Purge time 350

Amalgamator heating time 12

Signal recording time 12

Weight of sample 2.9999 ml

Calibration file ICAL103013A.c80 30.10.2013 15:28:42

Calibration factor 1.0000

Results

Status o.k.

Height 0.1889

Concentration 0.0527 [µg/kg]

Absolute amount of Hg 0.1582 ng

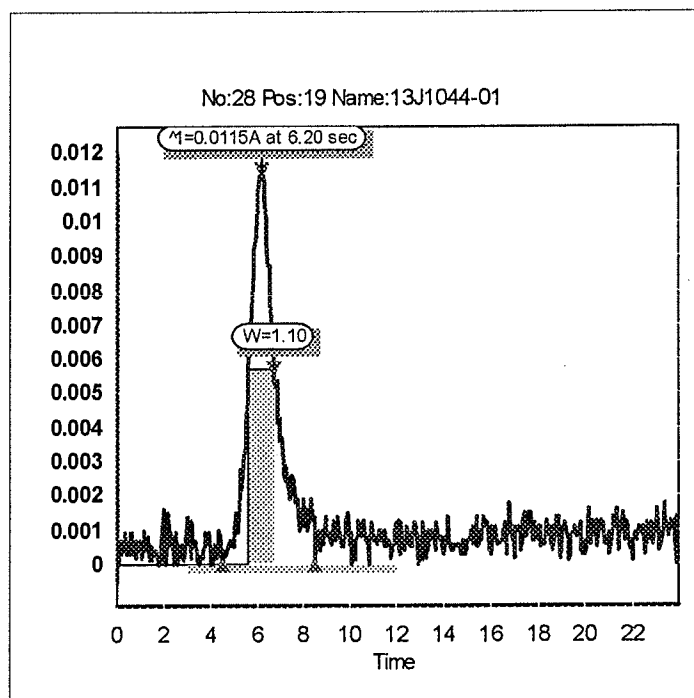
305 of 315
04.11.2013 15:53:16



DMA Result Report

Created by: Administrator
11/5/2013 11:49:35 AM

Signal curve E:\Data\QBHgFMA80-110413A.d80



Parameters

Position 28

Remarks

Method File standard.m80 26.02.2013

Temperature

Max. start T 0

Purge time 350

Amalgamator heating time 12

Signal recording time 12

Weight of sample 2.9999 ml

Calibration file ICAL103013A.c80 30.10.2013 15:28:42

Calibration factor 1.0000

Results

Status o.k.

Height 0.0115

Concentration 0.0036 $\mu\text{g/kg}$

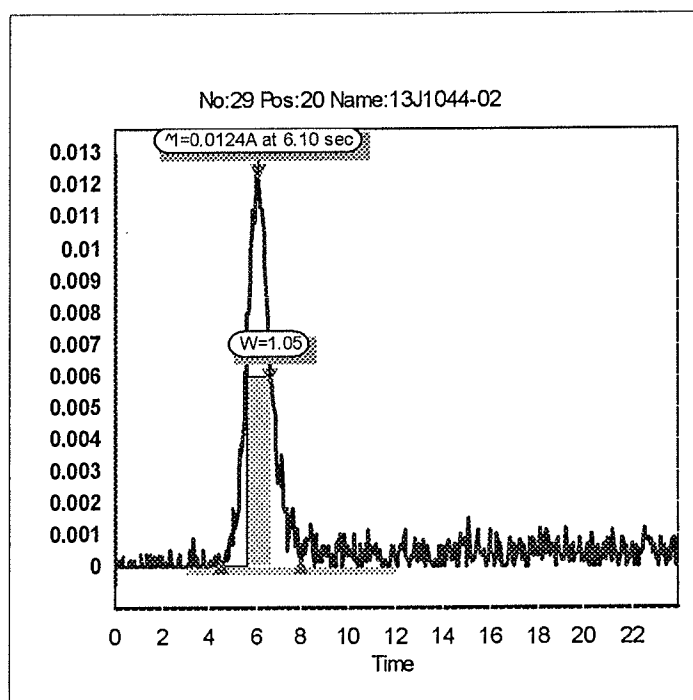
Absolute amount of Hg 0.0108 ng



DMA Result Report

Created by: Administrator
11/5/2013 11:49:48 AM

Signal curve E:\Data\QBHgFMA80-110413A.d80



Parameters

Position 29

Remarks

Method File standard.m80 26.02.2013

Temperature

Max. start T 0

Purge time 350

Amalgamator heating time 12

Signal recording time 12

Weight of sample 2.9999 ml

Calibration file ICAL103013A.c80 30.10.2013 15:28:42

Calibration factor 1.0000

Results

Status o.k

Height 0.0124

Concentration 0.0038 $\mu\text{g/kg}$

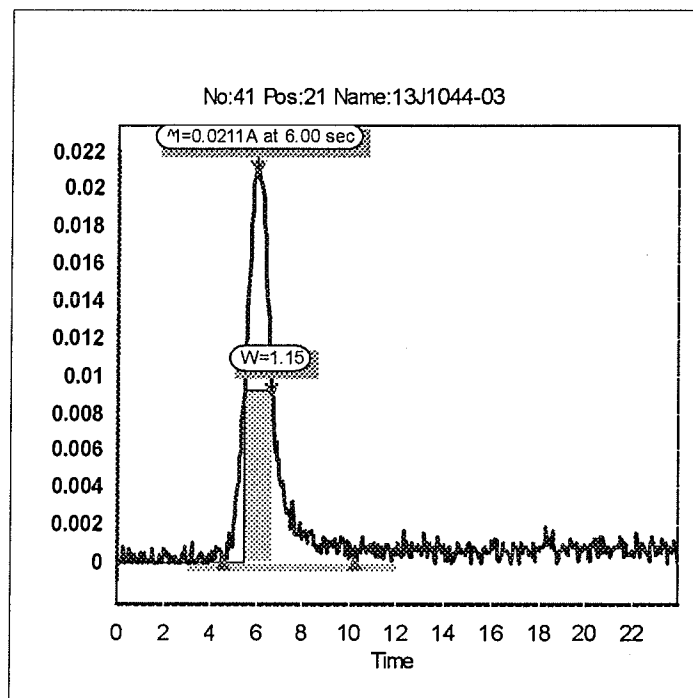
Absolute amount of Hg 0.0115 ng



DMA Result Report

Created by: Administrator
11/5/2013 12:10:21 PM

Signal curve E:\Data\QBHgFMA80-110413A.d80



Parameters

Position 41

Remarks

Method File

standard.m80

26.02.2013

Temperature

Max. start T

0

Purge time

350

Amalgamator heating time

12

Signal recording time

12

Weight of sample

2.9999 ml

Calibration file

ICAL103013A.c80

30.10.2013 15:28:42

Calibration factor

1.0000

Results

Status

o.k.

Height

0.0211

Concentration

0.0063 [µg/kg]

Absolute amount of Hg

0.0188 ng

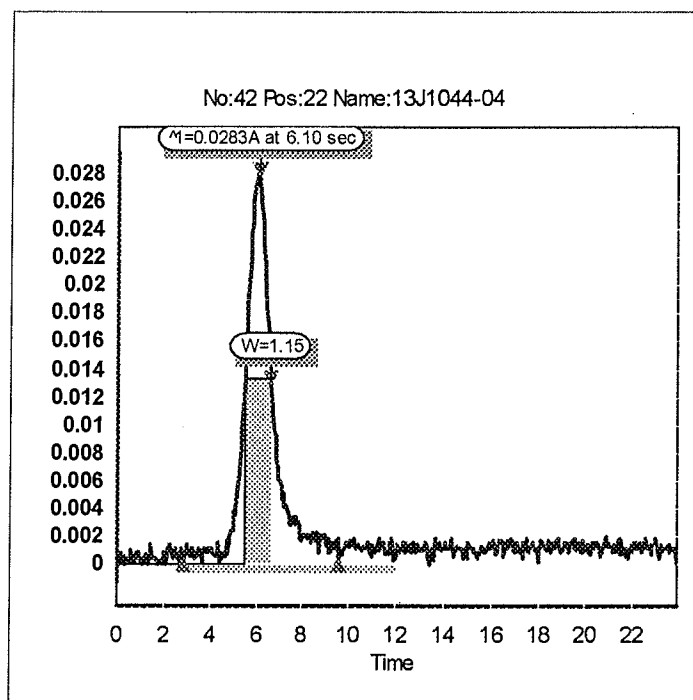
308 of 315
04.11.2013 15:35:53



DMA Result Report

Created by: Administrator
11/5/2013 12:10:35 PM

Signal curve E:\Data\QBHgFMA80-110413A.d80



Parameters

Position 42

Remarks

Method File standard.m80 26.02.2013

Temperature

Max. start T 0

Purge time 350

Amalgamator heating time 12

Signal recording time 12

Weight of sample 2.9999 ml

Calibration file ICAL103013A.c80 30.10.2013 15:28:42

Calibration factor 1.0000

Results

Status o.k.

Height 0.0282

Concentration 0.0082 [µg/kg]

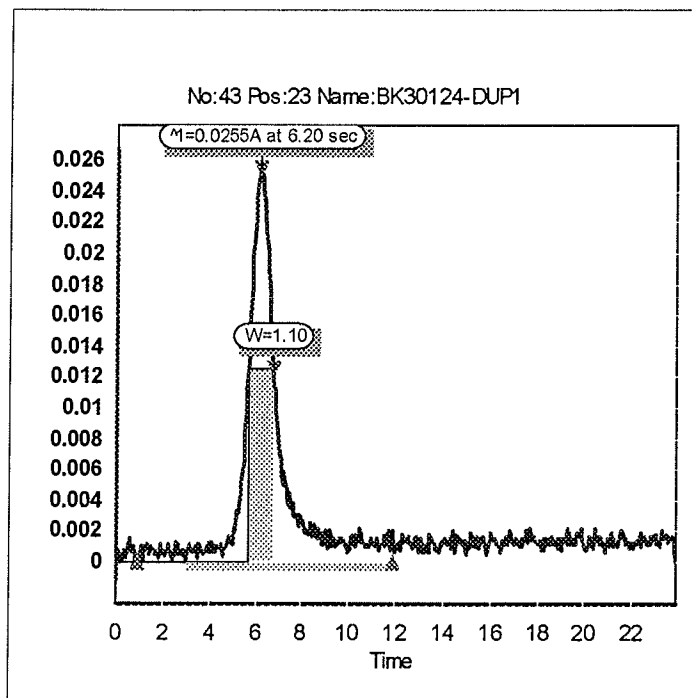
Absolute amount of Hg 0.0246 ng



DMA Result Report

Created by: Administrator
11/5/2013 12:10:48 PM

Signal curve E:\Data\QBHgFMA80-110413A.d80



Parameters

Position 43

Remarks

Method File standard.m80 26.02.2013

Temperature

Max. start T 0

Purge time 350

Amalgamator heating time 12

Signal recording time 12

Weight of sample 2.9999 ml

Calibration file ICAL103013A.c80 30.10.2013 15:28:42

Calibration factor 1.0000

Results

Status o.k.

Height 0.0252

Concentration 0.0074 [µg/kg]

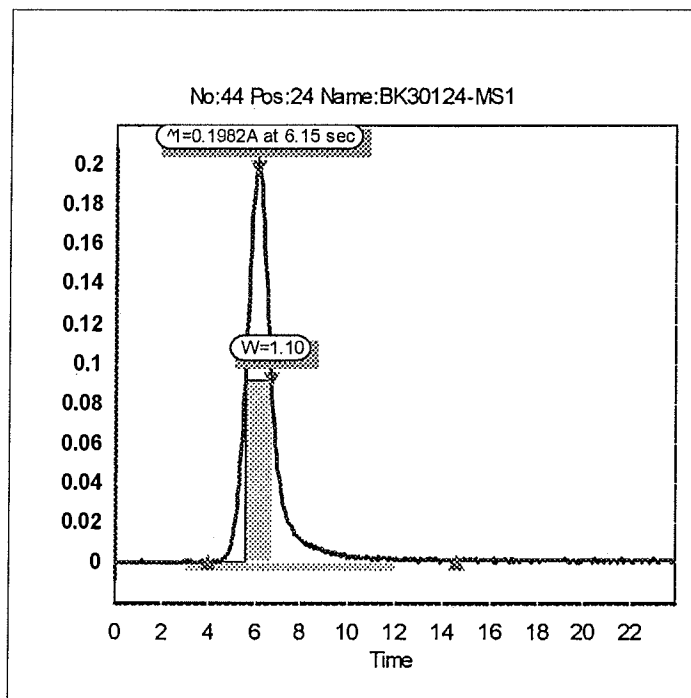
Absolute amount of Hg 0.0222 ng



DMA Result Report

Created by: Administrator
11/5/2013 12:11:02 PM

Signal curve E:\Data\QBHgFMA80-110413A.d80



Parameters

Position 44

Remarks

Method File standard.m80 26.02.2013

Temperature

Max. start T 0

Purge time 350

Amalgamator heating time 12

Signal recording time 12

Weight of sample 2.9999 ml

Calibration file ICAL103013A.c80 30.10.2013 15:28:42

Calibration factor 1.0000

Results

Status o.k

Height 0.1982

Concentration 0.0553 $[\mu\text{g}/\text{kg}]$

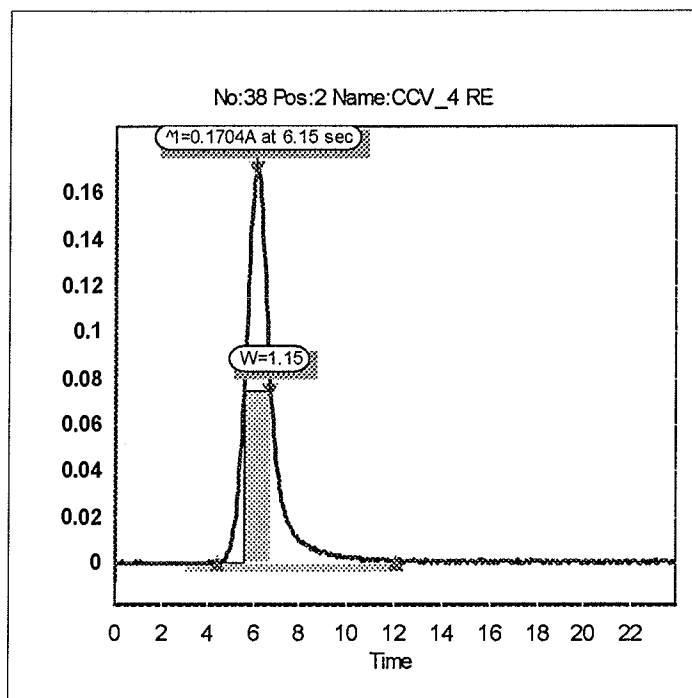
Absolute amount of Hg 0.1659 ng



DMA Result Report

Created by: Administrator
11/5/2013 11:51:29 AM

Signal curve E:\Data\QBHgFMA80-110413A.d80



Parameters

Position 38

Remarks

Method File standard.m80 26.02.2013

Temperature

Max. start T 0

Purge time 350

Amalgamator heating time 12

Signal recording time 12

Weight of sample 2.9999 ml

Calibration file ICAL103013A.c80 30.10.2013 15:28:42

Calibration factor 1.0000

Results

Status o.k.

Height 0.1704

Concentration 0.0476 [µg/kg]

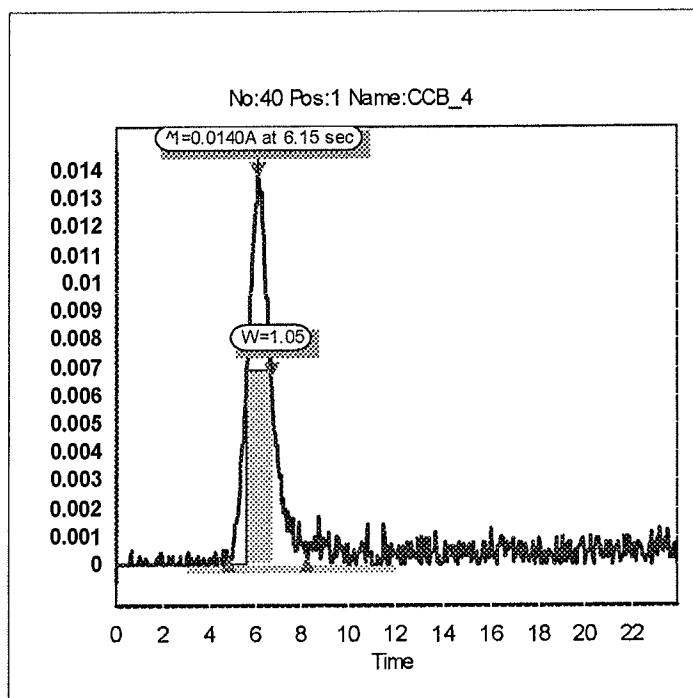
Absolute amount of Hg 0.1428 ng



DMA Result Report

Created by: Administrator
11/5/2013 11:51:39 AM

Signal curve E:\Data\QBHgFMA80-110413A.d80



Parameters

Position 40

Remarks

Method File

standard m80

26.02.2013

Temperature

Max. start T

0

Purge time

350

Amalgamator heating time

12

Signal recording time

12

Weight of sample

2.9999 ml

Calibration file

ICAL103013A.c80

30.10.2013 15:28:42

Calibration factor

1.0000

Results

Status

o.k

Height

0.0140

Concentration

0.0043 $\mu\text{g/kg}$

Absolute amount of Hg

0.0129 ng

PREPARATION BENCH SHEET

BK30124

York Analytical Laboratories, Inc.

Printed: 11/4/2013 11:49:15AM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
13J1044-01	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1044-02	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1044-03	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1044-04	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-01	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-02	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-03	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-04	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-05	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-06	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-07	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-08	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-09	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-10	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-11	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-12	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-13	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-14	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-15	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
13J1064-16	Mercury by 7473	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
BK30124-BLK1	QC	11/04/2013 11:4	ALD	0.1	0.1					EPA 7473 water	
BK30124-DUP1	QC	11/04/2013 11:4	ALD	0.1	0.1		13J1044-04			EPA 7473 water	
BK30124-MS1	QC	11/04/2013 11:4	ALD	0.1	0.1	Y13J042	13J1044-04	100		EPA 7473 water	

PREPARATION BENCH SHEET

BK30124

York Analytical Laboratories, Inc.

Printed: 11/4/2013 11:49:15AM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
BK30124-SRM1	QC	11/04/2013 11:4	ALD	0.1	0.1	Y13J041		100		EPA 7473 water	

Batch Comments:



Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)

21 Fox Street

Poughkeepsie NY, 12601

Attention: Eric Orlowski

Report Date: 05/12/2014

Client Project ID: 41103.00 Kingston CVS

York Project (SDG) No.: 14C0922

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

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York Project/SDG No. 14C0922

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METALS DATA	169 - 325

Report Date: 05/12/2014
Client Project ID: 41103.00 Kingston CVS
York Project (SDG) No.: 14C0922

Chazen Environmental Services (Poughkeepsie)

21 Fox Street
Poughkeepsie NY, 12601
Attention: Eric Orlowski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 27, 2014 and listed below. The project was identified as your project: **41103.00 Kingston CVS**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
14C0922-01	KC-MW-01 0314	Water	03/26/2014	03/27/2014
14C0922-02	KC-MW-02 0314	Water	03/26/2014	03/27/2014
14C0922-03	KC-MW-05 0314	Water	03/26/2014	03/27/2014
14C0922-04	KC-FD-01	Water	03/26/2014	03/27/2014
14C0922-05	Trip Blank 0314	Water	03/26/2014	03/27/2014

General Notes for York Project (SDG) No.: 14C0922

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 05/12/2014





Sample Information

Client Sample ID: KC-MW-01 0314

York Sample ID: 14C0922-01

York Project (SDG) No.

14C0922

Client Project ID

41103.00 Kingston CVS

Matrix

Water

Collection Date/Time

March 26, 2014 6:40 pm

Date Received

03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
75-34-3	1,1-Dichloroethane	1.4	J	ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
108-67-8	1,3,5-Trimethylbenzene	1.2	J	ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
78-93-3	2-Butanone	ND		ug/L	2.5	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
95-49-8	2-Chlorotoluene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
591-78-6	2-Hexanone	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
106-43-4	4-Chlorotoluene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
67-64-1	Acetone	ND		ug/L	5.0	10	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
71-43-2	Benzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
74-97-5	Bromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
75-27-4	Bromodichloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
75-25-2	Bromoform	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
74-83-9	Bromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
75-15-0	Carbon disulfide	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
56-23-5	Carbon tetrachloride	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
108-90-7	Chlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
75-00-3	Chloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS



Sample Information

Client Sample ID: KC-MW-01 0314

York Sample ID: 14C0922-01

York Project (SDG) No.
14C0922

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
March 26, 2014 6:40 pm

Date Received
03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
74-87-3	Chloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
156-59-2	cis-1,2-Dichloroethylene	550		ug/L	10	25	50	EPA 8260C	04/02/2014 08:46	04/02/2014 14:47	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
124-48-1	Dibromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
74-95-3	Dibromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
100-41-4	Ethyl Benzene	1.3	J	ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
98-82-8	Isopropylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
75-09-2	Methylene chloride	ND		ug/L	5.0	10	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
91-20-3	Naphthalene	6.0	J	ug/L	5.0	10	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
104-51-8	n-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
103-65-1	n-Propylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
95-47-6	o-Xylene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
179601-23-1	p- & m- Xylenes	3.2	J	ug/L	2.5	5.0	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
135-98-8	sec-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
100-42-5	Styrene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
127-18-4	Tetrachloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
108-88-3	Toluene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
156-60-5	trans-1,2-Dichloroethylene	18		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
79-01-6	Trichloroethylene	490		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
75-01-4	Vinyl Chloride	84	CCV-E	ug/L	2.5	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
1330-20-7	Xylenes, Total	3.2	J	ug/L	3.0	7.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 14:18	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %	81-123								
460-00-4	Surrogate: p-Bromofluorobenzene	104 %	70-128								
2037-26-5	Surrogate: Toluene-d8	100 %	88-114								



Sample Information

Client Sample ID: KC-MW-01 0314

York Sample ID: 14C0922-01

York Project (SDG) No.
14C0922

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
March 26, 2014 6:40 pm

Date Received
03/27/2014

Metals, Priority Pollutant

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:40	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:40	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:40	MW
7440-43-9	Cadmium	0.121		mg/L	0.003	0.003	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:40	MW
7440-47-3	Chromium	0.021		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:40	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:40	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:40	MW
7440-02-0	Nickel	0.307		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:40	MW
7782-49-2	Selenium	0.014		mg/L	0.010	0.010	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:40	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:40	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:40	MW
7440-66-6	Zinc	0.302		mg/L	0.010	0.010	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:40	MW

Mercury by 7473

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	04/01/2014 07:01	04/01/2014 12:47	ALD

Sample Information

Client Sample ID: KC-MW-02 0314

York Sample ID: 14C0922-02

York Project (SDG) No.
14C0922

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
March 26, 2014 6:20 pm

Date Received
03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
75-34-3	1,1-Dichloroethane	0.71		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS



Sample Information

Client Sample ID: KC-MW-02 0314

York Sample ID: 14C0922-02

York Project (SDG) No.

14C0922

Client Project ID

41103.00 Kingston CVS

Matrix

Water

Collection Date/Time

March 26, 2014 6:20 pm

Date Received

03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
78-93-3	2-Butanone	ND		ug/L	0.50	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
156-59-2	cis-1,2-Dichloroethylene	20		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS



Sample Information

Client Sample ID: KC-MW-02 0314

York Sample ID: 14C0922-02

York Project (SDG) No.
14C0922

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
March 26, 2014 6:20 pm

Date Received
03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
156-60-5	trans-1,2-Dichloroethylene	0.28	J	ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
79-01-6	Trichloroethylene	1.4		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
75-01-4	Vinyl Chloride	12	CCV-E	ug/L	0.50	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:17	SS
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %		81-123							
460-00-4	Surrogate: p-Bromofluorobenzene	98.9 %		70-128							
2037-26-5	Surrogate: Toluene-d8	100 %		88-114							

Metals, Priority Pollutant

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:58	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:58	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:58	MW
7440-43-9	Cadmium	0.004		mg/L	0.003	0.003	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:58	MW
7440-47-3	Chromium	0.006		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:58	MW
7440-50-8	Copper	0.006		mg/L	0.003	0.003	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:58	MW
7439-92-1	Lead	0.003		mg/L	0.003	0.003	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:58	MW
7440-02-0	Nickel	0.024		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:58	MW
7782-49-2	Selenium	0.014		mg/L	0.010	0.010	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:58	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:58	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:58	MW
7440-66-6	Zinc	0.029		mg/L	0.010	0.010	1	EPA 6010C	04/01/2014 14:12	04/01/2014 20:58	MW



Sample Information

Client Sample ID: KC-MW-02 0314

York Sample ID: 14C0922-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14C0922

41103.00 Kingston CVS

Water

March 26, 2014 6:20 pm

03/27/2014

Mercury by 7473

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	04/01/2014 07:01	04/01/2014 12:47	ALD

Sample Information

Client Sample ID: KC-MW-05 0314

York Sample ID: 14C0922-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14C0922

41103.00 Kingston CVS

Water

March 26, 2014 6:00 pm

03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
71-55-6	1,1,1-Trichloroethane	0.47	J	ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
75-34-3	1,1-Dichloroethane	0.85		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
75-35-4	1,1-Dichloroethylene	1.1		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
78-93-3	2-Butanone	ND		ug/L	0.50	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS



Sample Information

Client Sample ID: KC-MW-05 0314

York Sample ID: 14C0922-03

York Project (SDG) No.
14C0922

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
March 26, 2014 6:00 pm

Date Received
03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
156-59-2	cis-1,2-Dichloroethylene	37		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 16:15	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
156-60-5	trans-1,2-Dichloroethylene	0.58		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
79-01-6	Trichloroethylene	110		ug/L	1.0	2.5	5	EPA 8260C	04/02/2014 08:46	04/02/2014 16:15	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS



Sample Information

Client Sample ID: KC-MW-05 0314

York Sample ID: 14C0922-03

York Project (SDG) No.

14C0922

Client Project ID

41103.00 Kingston CVS

Matrix

Water

Collection Date/Time

March 26, 2014 6:00 pm

Date Received

03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/02/2014 08:46	04/02/2014 15:46	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %			81-123						
460-00-4	Surrogate: p-Bromofluorobenzene	96.8 %			70-128						
2037-26-5	Surrogate: Toluene-d8	97.2 %			88-114						

Metals, Priority Pollutant

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:03	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:03	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:03	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:03	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:03	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:03	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:03	MW
7440-02-0	Nickel	0.005		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:03	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:03	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:03	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:03	MW
7440-66-6	Zinc	0.022		mg/L	0.010	0.010	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:03	MW

Mercury by 7473

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	04/01/2014 07:01	04/01/2014 12:47	ALD

Sample Information

Client Sample ID: KC-FD-01

York Sample ID: 14C0922-04

York Project (SDG) No.

14C0922

Client Project ID

41103.00 Kingston CVS

Matrix

Water

Collection Date/Time

March 26, 2014 3:00 pm

Date Received

03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
71-55-6	1,1,1-Trichloroethane	1.4		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS



Sample Information

Client Sample ID: KC-FD-01

York Sample ID: 14C0922-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14C0922

41103.00 Kingston CVS

Water

March 26, 2014 3:00 pm

03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
75-34-3	1,1-Dichloroethane	1.4		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
75-35-4	1,1-Dichloroethylene	0.50	J	ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
78-93-3	2-Butanone	ND		ug/L	1.0	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
591-78-6	2-Hexanone	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
67-64-1	Acetone	ND		ug/L	2.0	4.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
71-43-2	Benzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
108-86-1	Bromobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
74-97-5	Bromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
75-25-2	Bromoform	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
74-83-9	Bromomethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
75-15-0	Carbon disulfide	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
108-90-7	Chlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
75-00-3	Chloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
67-66-3	Chloroform	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
74-87-3	Chloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
156-59-2	cis-1,2-Dichloroethylene	210		ug/L	2.0	5.0	10	EPA 8260C	04/02/2014 08:46	04/02/2014 17:14	SS



Sample Information

Client Sample ID: KC-FD-01

York Sample ID: 14C0922-04

York Project (SDG) No.
14C0922

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
March 26, 2014 3:00 pm

Date Received
03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
74-95-3	Dibromomethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	4.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
91-20-3	Naphthalene	ND		ug/L	2.0	4.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
95-47-6	o-Xylene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	2.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
100-42-5	Styrene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
108-88-3	Toluene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
156-60-5	trans-1,2-Dichloroethylene	6.6		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
79-01-6	Trichloroethylene	250		ug/L	2.0	5.0	10	EPA 8260C	04/02/2014 08:46	04/02/2014 17:14	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
75-01-4	Vinyl Chloride	30	CCV-E	ug/L	1.0	1.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
1330-20-7	Xylenes, Total	ND		ug/L	1.2	3.0	2	EPA 8260C	04/02/2014 08:46	04/02/2014 16:44	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %	81-123								
460-00-4	Surrogate: p-Bromofluorobenzene	98.9 %	70-128								
2037-26-5	Surrogate: Toluene-d8	97.7 %	88-114								



Sample Information

Client Sample ID: KC-FD-01

York Sample ID: 14C0922-04

York Project (SDG) No.
14C0922

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
March 26, 2014 3:00 pm

Date Received
03/27/2014

Metals, Priority Pollutant

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:08	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:08	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:08	MW
7440-43-9	Cadmium	0.103		mg/L	0.003	0.003	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:08	MW
7440-47-3	Chromium	0.015		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:08	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:08	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:08	MW
7440-02-0	Nickel	0.319		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:08	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:08	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:08	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:08	MW
7440-66-6	Zinc	0.285		mg/L	0.010	0.010	1	EPA 6010C	04/01/2014 14:12	04/01/2014 21:08	MW

Mercury by 7473

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	04/01/2014 07:01	04/01/2014 12:47	ALD

Sample Information

Client Sample ID: Trip Blank 0314

York Sample ID: 14C0922-05

York Project (SDG) No.
14C0922

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
March 26, 2014 9:00 am

Date Received
03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS



Sample Information

Client Sample ID: Trip Blank 0314

York Sample ID: 14C0922-05

York Project (SDG) No.

14C0922

Client Project ID

41103.00 Kingston CVS

Matrix

Water

Collection Date/Time

March 26, 2014 9:00 am

Date Received

03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
78-93-3	2-Butanone	ND		ug/L	0.50	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS



Sample Information

Client Sample ID: Trip Blank 0314

York Sample ID: 14C0922-05

York Project (SDG) No.
14C0922

Client Project ID
41103.00 Kingston CVS

Matrix
Water

Collection Date/Time
March 26, 2014 9:00 am

Date Received
03/27/2014

Volatile Organics, 8260 List - Low Level

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	0.50	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/02/2014 08:46	04/02/2014 17:43	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	110 %	81-123								
460-00-4	Surrogate: p-Bromofluorobenzene	99.4 %	70-128								
2037-26-5	Surrogate: Toluene-d8	101 %	88-114								



Case Narrative

Client: Chazen Environmental Services (Poughkeepsie)

Client Project ID: 41103.00 Kingston CVS

Prepared for: Eric Orlowski

Introduction

This Case Narrative applies only to the following samples submitted to our laboratory on **3/27/2014 3:40:00 PM** :

KC-FD-01	Water
KC-MW-01 0314	Water
KC-MW-02 0314	Water
KC-MW-05 0314	Water
Trip Blank 0314	Water

The 5 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature(s) was acceptable (2-6oC) and documented as:

Cooler 3.1 C

Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

All preparation and analyses were conducted according to the methods referenced in the body of the lab report.

Sample and Analysis Qualifiers

KC-FD-01 Qualifiers

Volatile Organics, 8260 List - Low Level	Vinyl Chloride	CCV-E - The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

KC-MW-01 0314 Qualifiers

Volatile Organics, 8260 List - Low Level	Vinyl Chloride	CCV-E - The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

KC-MW-02 0314 Qualifiers

Volatile Organics, 8260 List - Low Level	Vinyl Chloride	CCV-E - The value reported is ESTIMATED. The



value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

KC-MW-05 0314 No Qualifiers

Trip Blank 0314 No Qualifiers

Analysis Issues (Calibration, Others)

No problems were encountered during analysis of this SDG.

York Project/SDG no.: 14C0922 Statement

We certify that these data are in compliance with SOP requirements both technically and for completeness for other than the conditions stated above. Release of the data contained in the hard copy report and any electronic deliverables has been authorized by the Laboratory Manager as verified by the signature on this laboratory report.

Approved by: Ben Gulizia
Laboratory Director

York Analytical Laboratories, Inc.

Formulae Used for Sample Calculations

VOLATILE ORGANICS

1. Volatiles in Air-ppbv

Cx (ppbv) = Compound concentration, ppbv (parts per billion by volume)

$$Cx = \frac{(Ax)(Cis)(DF)}{(Ais)(RRF)}$$

2. Volatiles in Air-ug/m3

Cx (ug/m3) = Compound concentration in ug/m3

$$Cx \text{ (ug/m3)} = \frac{\text{ppbv} \times \text{Molecular wt.}}{(24.040)}$$

3. Volatile Organics (water and soil), ug/L or ug/kg



Soils/Waters

Medium Level Soils

$$C_x = \frac{(A_x)(IS)(DF)}{(A_{is})(RRF)(V)(\% \text{solids})}$$

$$C_x = \frac{(A_x)(IS)(VT)(1000)(DF)}{(A_{is})(RRF)(VA)(V)(\% \text{solids})}$$

4. Semi-Volatiles (waters and soils)

$$C_x = \frac{(A_x)(IS)(VE)(DF)}{(A_{is})(RRF)(\text{Volume injected, uL})(V)(\% \text{solids})}$$

5. Pesticides/PCB (waters and soils), DRO, CTETPH

$$C_x = \frac{(A_x)(VE)(DF)}{(CF)(\text{Volume injected, uL})(V)(\% \text{solids})}$$

WHERE:

C_x = concentration of analyte as ug/L or ug/kg

A_x = Area of the characteristic ion for the compound to be measured, counts.

A_{is} = Area of the characteristic ion for the specific internal standard, counts.

IS = Concentration of the internal standard spiking mixture, ng

RRF = Mean relative response factor from the initial calibration.

DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF = 1

V = Volume for liquids in ml, weight for soils/solids in grams.

VA = volume of MeOH aliquot for medium level soils

VE = final volume of concentrated extract

VT = volume of MeOH for volatiles medium level soils

CF = calibration factor for external calibration used in GC pest/pcb

C_{is} = Concentration of the internal standard spiking mixture, ppbv



Analytical Batch Summary

Batch ID: BD40004

Preparation Method: EPA 7473 water

Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
14C0922-01	KC-MW-01 0314	04/01/14
14C0922-02	KC-MW-02 0314	04/01/14
14C0922-03	KC-MW-05 0314	04/01/14
14C0922-04	KC-FD-01	04/01/14
BD40004-BLK1	Blank	04/01/14
BD40004-DUP1	Duplicate	04/01/14
BD40004-MS1	Matrix Spike	04/01/14
BD40004-SRM1	Reference	04/01/14

Batch ID: BD40038

Preparation Method: EPA 3010A

Prepared By: MW

YORK Sample ID	Client Sample ID	Preparation Date
14C0922-01	KC-MW-01 0314	04/01/14
14C0922-02	KC-MW-02 0314	04/01/14
14C0922-03	KC-MW-05 0314	04/01/14
14C0922-04	KC-FD-01	04/01/14
BD40038-BLK1	Blank	04/01/14
BD40038-SRM1	Reference	04/01/14

Batch ID: BD40104

Preparation Method: EPA 5030B

Prepared By: BGS

YORK Sample ID	Client Sample ID	Preparation Date
14C0922-01	KC-MW-01 0314	04/02/14
14C0922-01RE1	KC-MW-01 0314	04/02/14
14C0922-02	KC-MW-02 0314	04/02/14
14C0922-03	KC-MW-05 0314	04/02/14
14C0922-03RE1	KC-MW-05 0314	04/02/14
14C0922-04	KC-FD-01	04/02/14
14C0922-04RE1	KC-FD-01	04/02/14
14C0922-05	Trip Blank 0314	04/02/14
BD40104-BLK1	Blank	04/02/14
BD40104-BS1	LCS	04/02/14
BD40104-BSD1	LCS Dup	04/02/14



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BD40104 - EPA 5030B

Blank (BD40104-BLK1)

Prepared & Analyzed: 04/02/2014

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"
1,1-Dichloroethylene	ND	0.50	"
1,1-Dichloropropylene	ND	0.50	"
1,2,3-Trichlorobenzene	0.28	0.50	"
1,2,3-Trichloropropane	ND	0.50	"
1,2,4-Trichlorobenzene	0.20	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,2-Dibromo-3-chloropropane	ND	0.50	"
1,2-Dibromoethane	ND	0.50	"
1,2-Dichlorobenzene	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
1,2-Dichloropropane	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.50	"
1,3-Dichloropropane	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
2,2-Dichloropropane	ND	0.50	"
2-Butanone	ND	0.50	"
2-Chlorotoluene	ND	0.50	"
2-Hexanone	ND	0.50	"
4-Chlorotoluene	ND	0.50	"
4-Methyl-2-pentanone	ND	0.50	"
Acetone	ND	2.0	"
Benzene	ND	0.50	"
Bromobenzene	ND	0.50	"
Bromochloromethane	ND	0.50	"
Bromodichloromethane	ND	0.50	"
Bromoform	ND	0.50	"
Bromomethane	ND	0.50	"
Carbon disulfide	ND	0.50	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	0.50	"
Chloroethane	ND	0.50	"
Chloroform	ND	0.50	"
Chloromethane	ND	0.50	"
cis-1,2-Dichloroethylene	ND	0.50	"
cis-1,3-Dichloropropylene	ND	0.50	"
Dibromochloromethane	ND	0.50	"
Dibromomethane	ND	0.50	"
Dichlorodifluoromethane	ND	0.50	"
Ethyl Benzene	ND	0.50	"
Hexachlorobutadiene	ND	0.50	"
Isopropylbenzene	ND	0.50	"
Methyl tert-butyl ether (MTBE)	ND	0.50	"
Methylene chloride	ND	2.0	"
Naphthalene	ND	2.0	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BD40104 - EPA 5030B

Blank (BD40104-BLK1)

Prepared & Analyzed: 04/02/2014

n-Butylbenzene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	"
o-Xylene	ND	0.50	"
p- & m- Xylenes	ND	1.0	"
p-Isopropyltoluene	ND	0.50	"
sec-Butylbenzene	ND	0.50	"
Styrene	ND	0.50	"
tert-Butylbenzene	ND	0.50	"
Tetrachloroethylene	ND	0.50	"
Toluene	ND	0.50	"
trans-1,2-Dichloroethylene	ND	0.50	"
trans-1,3-Dichloropropylene	ND	0.50	"
Trichloroethylene	ND	0.50	"
Trichlorofluoromethane	ND	0.50	"
Vinyl Chloride	ND	0.50	"
Xylenes, Total	ND	1.5	"

Surrogate: 1,2-Dichloroethane-d4	10.8	"	10.0	108	81-123
Surrogate: p-Bromofluorobenzene	9.65	"	10.0	96.5	70-128
Surrogate: Toluene-d8	9.67	"	10.0	96.7	88-114

LCS (BD40104-BS1)

Prepared & Analyzed: 04/02/2014

1,1,1,2-Tetrachloroethane	9.53	ug/L	10.0	95.3	85-118
1,1,1-Trichloroethane	9.68	"	10.0	96.8	74-128
1,1,2,2-Tetrachloroethane	9.55	"	10.0	95.5	71-130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.34	"	10.0	93.4	51-157
1,1,2-Trichloroethane	9.43	"	10.0	94.3	80-122
1,1-Dichloroethane	9.84	"	10.0	98.4	70-131
1,1-Dichloroethylene	9.42	"	10.0	94.2	60-143
1,1-Dichloropropylene	9.33	"	10.0	93.3	78-122
1,2,3-Trichlorobenzene	9.70	"	10.0	97.0	68-140
1,2,3-Trichloropropane	9.13	"	10.0	91.3	77-125
1,2,4-Trichlorobenzene	9.56	"	10.0	95.6	65-143
1,2,4-Trimethylbenzene	9.45	"	10.0	94.5	83-121
1,2-Dibromo-3-chloropropane	8.34	"	10.0	83.4	60-146
1,2-Dibromoethane	9.78	"	10.0	97.8	82-122
1,2-Dichlorobenzene	8.92	"	10.0	89.2	85-115
1,2-Dichloroethane	9.95	"	10.0	99.5	72-126
1,2-Dichloropropane	9.78	"	10.0	97.8	78-119
1,3,5-Trimethylbenzene	9.48	"	10.0	94.8	84-118
1,3-Dichlorobenzene	9.30	"	10.0	93.0	83-117
1,3-Dichloropropane	9.84	"	10.0	98.4	79-121
1,4-Dichlorobenzene	9.21	"	10.0	92.1	83-118
2,2-Dichloropropane	9.75	"	10.0	97.5	60-135
2-Butanone	5.72	"	10.0	57.2	48-156
2-Chlorotoluene	9.51	"	10.0	95.1	81-118
2-Hexanone	4.31	"	10.0	43.1	50-151
4-Chlorotoluene	9.48	"	10.0	94.8	81-117
4-Methyl-2-pentanone	9.04	"	10.0	90.4	55-147
Acetone	6.76	"	10.0	67.6	21-172
Benzene	9.55	"	10.0	95.5	82-120
Bromobenzene	9.01	"	10.0	90.1	82-119
Bromochloromethane	9.78	"	10.0	97.8	69-125

Low Bias



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BD40104 - EPA 5030B

LCS (BD40104-BS1)

Prepared & Analyzed: 04/02/2014

Bromodichloromethane	10.3		ug/L	10.0		103	84-117				
Bromoform	10.1		"	10.0		101	77-130				
Bromomethane	10.8		"	10.0		108	16-162				
Carbon disulfide	9.43		"	20.0		47.2	21-78				
Carbon tetrachloride	9.63		"	10.0		96.3	72-132				
Chlorobenzene	9.76		"	10.0		97.6	88-112				
Chloroethane	10.4		"	10.0		104	29-172				
Chloroform	9.51		"	10.0		95.1	77-124				
Chloromethane	9.10		"	10.0		91.0	37-131				
cis-1,2-Dichloroethylene	9.80		"	10.0		98.0	77-124				
cis-1,3-Dichloropropylene	10.3		"	10.0		103	81-117				
Dibromochloromethane	9.96		"	10.0		99.6	72-131				
Dibromomethane	10.4		"	10.0		104	85-116				
Dichlorodifluoromethane	8.51		"	10.0		85.1	47-152				
Ethyl Benzene	9.58		"	10.0		95.8	86-114				
Hexachlorobutadiene	9.18		"	10.0		91.8	68-139				
Isopropylbenzene	9.53		"	10.0		95.3	84-118				
Methyl tert-butyl ether (MTBE)	10.0		"	10.0		100	49-156				
Methylene chloride	9.31		"	10.0		93.1	51-145				
Naphthalene	9.79		"	10.0		97.9	67-141				
n-Butylbenzene	9.33		"	10.0		93.3	76-125				
n-Propylbenzene	9.45		"	10.0		94.5	84-118				
o-Xylene	9.54		"	10.0		95.4	85-114				
p- & m- Xylenes	19.3		"	20.0		96.3	84-117				
p-Isopropyltoluene	9.40		"	10.0		94.0	84-121				
sec-Butylbenzene	9.34		"	10.0		93.4	85-119				
Styrene	9.54		"	10.0		95.4	77-126				
tert-Butylbenzene	9.48		"	10.0		94.8	83-119				
Tetrachloroethylene	9.30		"	10.0		93.0	75-129				
Toluene	9.22		"	10.0		92.2	86-113				
trans-1,2-Dichloroethylene	10.8		"	10.0		108	55-148				
trans-1,3-Dichloropropylene	9.90		"	10.0		99.0	77-120				
Trichloroethylene	9.58		"	10.0		95.8	85-115				
Trichlorofluoromethane	8.85		"	10.0		88.5	69-131				
Vinyl Chloride	9.14		"	10.0		91.4	44-152				
Surrogate: 1,2-Dichloroethane-d4	10.3		"	10.0		103	81-123				
Surrogate: p-Bromofluorobenzene	10.0		"	10.0		100	70-128				
Surrogate: Toluene-d8	9.98		"	10.0		99.8	88-114				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD40104 - EPA 5030B											
LCS Dup (BD40104-BSD1)						Prepared & Analyzed: 04/02/2014					
1,1,1,2-Tetrachloroethane	9.94		ug/L	10.0		99.4	85-118		4.21	30	
1,1,1-Trichloroethane	10.4		"	10.0		104	74-128		7.36	30	
1,1,2,2-Tetrachloroethane	9.97		"	10.0		99.7	71-130		4.30	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3		"	10.0		103	51-157		9.97	30	
1,1,2-Trichloroethane	9.95		"	10.0		99.5	80-122		5.37	30	
1,1-Dichloroethane	9.80		"	10.0		98.0	70-131		0.407	30	
1,1-Dichloroethylene	9.83		"	10.0		98.3	60-143		4.26	30	
1,1-Dichloropropylene	10.2		"	10.0		102	78-122		9.30	30	
1,2,3-Trichlorobenzene	9.94		"	10.0		99.4	68-140		2.44	30	
1,2,3-Trichloropropane	9.70		"	10.0		97.0	77-125		6.05	30	
1,2,4-Trichlorobenzene	9.95		"	10.0		99.5	65-143		4.00	30	
1,2,4-Trimethylbenzene	9.92		"	10.0		99.2	83-121		4.85	30	
1,2-Dibromo-3-chloropropane	8.08		"	10.0		80.8	60-146		3.17	30	
1,2-Dibromoethane	10.3		"	10.0		103	82-122		4.79	30	
1,2-Dichlorobenzene	10.7		"	10.0		107	85-115		18.4	30	
1,2-Dichloroethane	10.1		"	10.0		101	72-126		1.20	30	
1,2-Dichloropropane	10.5		"	10.0		105	78-119		6.81	30	
1,3,5-Trimethylbenzene	10.0		"	10.0		100	84-118		5.84	30	
1,3-Dichlorobenzene	9.68		"	10.0		96.8	83-117		4.00	30	
1,3-Dichloropropane	10.1		"	10.0		101	79-121		2.51	30	
1,4-Dichlorobenzene	9.52		"	10.0		95.2	83-118		3.31	30	
2,2-Dichloropropane	9.85		"	10.0		98.5	60-135		1.02	30	
2-Butanone	8.57		"	10.0		85.7	48-156		39.9	30	Non-dir.
2-Chlorotoluene	9.90		"	10.0		99.0	81-118		4.02	30	
2-Hexanone	9.94		"	10.0		99.4	50-151		79.0	30	Non-dir.
4-Chlorotoluene	9.95		"	10.0		99.5	81-117		4.84	30	
4-Methyl-2-pentanone	8.26		"	10.0		82.6	55-147		9.02	30	
Acetone	7.22		"	10.0		72.2	21-172		6.58	30	
Benzene	9.71		"	10.0		97.1	82-120		1.66	30	
Bromobenzene	10.2		"	10.0		102	82-119		12.0	30	
Bromochloromethane	9.81		"	10.0		98.1	69-125		0.306	30	
Bromodichloromethane	10.6		"	10.0		106	84-117		2.79	30	
Bromoform	10.2		"	10.0		102	77-130		0.493	30	
Bromomethane	10.9		"	10.0		109	16-162		0.830	30	
Carbon disulfide	9.74		"	20.0		48.7	21-78		3.23	30	
Carbon tetrachloride	10.3		"	10.0		103	72-132		6.63	30	
Chlorobenzene	10.1		"	10.0		101	88-112		3.72	30	
Chloroethane	10.8		"	10.0		108	29-172		3.21	30	
Chloroform	9.86		"	10.0		98.6	77-124		3.61	30	
Chloromethane	9.86		"	10.0		98.6	37-131		8.02	30	
cis-1,2-Dichloroethylene	9.95		"	10.0		99.5	77-124		1.52	30	
cis-1,3-Dichloropropylene	10.4		"	10.0		104	81-117		0.290	30	
Dibromochloromethane	10.4		"	10.0		104	72-131		4.32	30	
Dibromomethane	10.6		"	10.0		106	85-116		1.81	30	
Dichlorodifluoromethane	9.51		"	10.0		95.1	47-152		11.1	30	
Ethyl Benzene	10.1		"	10.0		101	86-114		5.38	30	
Hexachlorobutadiene	9.95		"	10.0		99.5	68-139		8.05	30	
Isopropylbenzene	10.1		"	10.0		101	84-118		5.61	30	
Methyl tert-butyl ether (MTBE)	10.4		"	10.0		104	49-156		3.53	30	
Methylene chloride	9.68		"	10.0		96.8	51-145		3.90	30	
Naphthalene	9.98		"	10.0		99.8	67-141		1.92	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BD40104 - EPA 5030B

LCS Dup (BD40104-BSD1)						Prepared & Analyzed: 04/02/2014					
n-Butylbenzene	10.0		ug/L	10.0		100	76-125		7.23	30	
n-Propylbenzene	9.96		"	10.0		99.6	84-118		5.26	30	
o-Xylene	10.1		"	10.0		101	85-114		5.50	30	
p- & m- Xylenes	20.0		"	20.0		100	84-117		3.82	30	
p-Isopropyltoluene	10.0		"	10.0		100	84-121		6.29	30	
sec-Butylbenzene	10.1		"	10.0		101	85-119		7.42	30	
Styrene	10.1		"	10.0		101	77-126		5.50	30	
tert-Butylbenzene	10.0		"	10.0		100	83-119		5.64	30	
Tetrachloroethylene	10.1		"	10.0		101	75-129		8.15	30	
Toluene	9.69		"	10.0		96.9	86-113		4.97	30	
trans-1,2-Dichloroethylene	10.8		"	10.0		108	55-148		0.647	30	
trans-1,3-Dichloropropylene	10.6		"	10.0		106	77-120		6.92	30	
Trichloroethylene	10.1		"	10.0		101	85-115		5.48	30	
Trichlorofluoromethane	10.1		"	10.0		101	69-131		13.2	30	
Vinyl Chloride	9.98		"	10.0		99.8	44-152		8.79	30	
Surrogate: 1,2-Dichloroethane-d4	10.2		"	10.0		102	81-123				
Surrogate: p-Bromofluorobenzene	10.0		"	10.0		100	70-128				
Surrogate: Toluene-d8	10.1		"	10.0		101	88-114				



Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BD40038 - EPA 3010A

Blank (BD40038-BLK1)

Prepared & Analyzed: 04/01/2014

Antimony	ND	0.005	mg/L
Arsenic	ND	0.004	"
Beryllium	ND	0.001	"
Cadmium	ND	0.003	"
Chromium	ND	0.005	"
Copper	ND	0.003	"
Lead	ND	0.003	"
Nickel	ND	0.005	"
Selenium	ND	0.010	"
Silver	ND	0.005	"
Thallium	ND	0.005	"
Zinc	ND	0.010	"

Reference (BD40038-SRM1)

Prepared & Analyzed: 04/01/2014

Antimony	0.437	0.005	mg/L	0.435	100	69.4-121
Arsenic	0.321	0.004	"	0.341	94.0	83.3-118
Beryllium	0.072	0.001	"	0.0749	95.5	83.3-113
Cadmium	0.083	0.003	"	0.0854	97.3	84.4-115
Chromium	0.653	0.005	"	0.644	101	87.1-113
Copper	0.505	0.003	"	0.521	96.9	90-110
Lead	0.523	0.003	"	0.517	101	87-113
Nickel	1.47	0.005	"	1.52	96.9	90.1-112
Selenium	0.346	0.010	"	0.362	95.5	78.7-116
Silver	0.199	0.005	"	0.210	94.9	85.7-115
Thallium	0.361	0.005	"	0.358	101	77.9-122
Zinc	1.70	0.010	"	1.69	101	85.8-114



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD40004 - EPA 7473 water											
Blank (BD40004-BLK1)								Prepared & Analyzed: 04/01/2014			
Mercury	ND	0.00020	mg/L								
Duplicate (BD40004-DUP1)								*Source sample: 14C0922-01 (KC-MW-01 0314) Prepared & Analyzed: 04/01/2014			
Mercury	ND	0.00020	mg/L		ND					20	
Matrix Spike (BD40004-MS1)								*Source sample: 14C0922-01 (KC-MW-01 0314) Prepared & Analyzed: 04/01/2014			
Mercury	0.00171		mg/kg	0.00200	ND	85.4	75-125				
Reference (BD40004-SRM1)								Prepared & Analyzed: 04/01/2014			
Mercury	0.00192		mg/kg	0.00230		83.6	61.3-135				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
14C0922-01	KC-MW-01 0314	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14C0922-02	KC-MW-02 0314	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14C0922-03	KC-MW-05 0314	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14C0922-04	KC-FD-01	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14C0922-05	Trip Blank 0314	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.



Laboratory Chain-of-Custody Record

York Project (SDG) No.: 14C0922

Samples Received: 03/27/2014 15:40 By: Paul Grace Logged In: 03/27/2014 11:49 By: Linda LeBlanc

Sample Conditions:

☒ Custody Seals	☒ Chain of Custody Form Received
☒ Containers Intact	☒ Appropriate Sample Volumes Received
☒ COC/Labels Agree	☒ Appropriate Sample Containers Submitted
☒ Preservation Confirmed	☒ Samples Submitted within Holding Times
☒ Cooler Temperature Confirmed	☐ Corrective Action Form Required
☐ COC Complete	

Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
14C0922-01	EPA 3010A	04/01/2014 14:12	04/01/2014 14:12	Mike Woodfield
14C0922-02	EPA 3010A	04/01/2014 14:12	04/01/2014 14:12	Mike Woodfield
14C0922-03	EPA 3010A	04/01/2014 14:12	04/01/2014 14:12	Mike Woodfield
14C0922-04	EPA 3010A	04/01/2014 14:12	04/01/2014 14:12	Mike Woodfield
14C0922-01	EPA 5030B	04/02/2014 8:46	04/02/2014 8:46	Bryan G. Slight
14C0922-02	EPA 5030B	04/02/2014 8:46	04/02/2014 8:46	Bryan G. Slight
14C0922-03	EPA 5030B	04/02/2014 8:46	04/02/2014 8:46	Bryan G. Slight
14C0922-04	EPA 5030B	04/02/2014 8:46	04/02/2014 8:46	Bryan G. Slight
14C0922-05	EPA 5030B	04/02/2014 8:46	04/02/2014 8:46	Bryan G. Slight
14C0922-01	EPA 7473 water	04/01/2014 7:01	04/01/2014 7:01	Amanda DeBiase
14C0922-02	EPA 7473 water	04/01/2014 7:01	04/01/2014 7:01	Amanda DeBiase
14C0922-03	EPA 7473 water	04/01/2014 7:01	04/01/2014 7:01	Amanda DeBiase
14C0922-04	EPA 7473 water	04/01/2014 7:01	04/01/2014 7:01	Amanda DeBiase

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
14C0922-01	Mercury by 7473	04/01/2014 7:01	04/01/2014 12:47	Amanda DeBiase
14C0922-02	Mercury by 7473	04/01/2014 7:01	04/01/2014 12:47	Amanda DeBiase
14C0922-03	Mercury by 7473	04/01/2014 7:01	04/01/2014 12:47	Amanda DeBiase
14C0922-04	Mercury by 7473	04/01/2014 7:01	04/01/2014 12:47	Amanda DeBiase
14C0922-01	Metals, Priority Pollutant	04/01/2014 14:12	04/01/2014 20:40	Mike Woodfield
14C0922-02	Metals, Priority Pollutant	04/01/2014 14:12	04/01/2014 20:58	Mike Woodfield
14C0922-03	Metals, Priority Pollutant	04/01/2014 14:12	04/01/2014 21:03	Mike Woodfield
14C0922-04	Metals, Priority Pollutant	04/01/2014 14:12	04/01/2014 21:08	Mike Woodfield



Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
14C0922-01	Volatile Organics, 8260 List - Low Le	04/02/2014 8:46	04/02/2014 14:47	Steve Swift
14C0922-02	Volatile Organics, 8260 List - Low Le	04/02/2014 8:46	04/02/2014 15:17	Steve Swift
14C0922-03	Volatile Organics, 8260 List - Low Le	04/02/2014 8:46	04/02/2014 16:15	Steve Swift
14C0922-04	Volatile Organics, 8260 List - Low Le	04/02/2014 8:46	04/02/2014 17:14	Steve Swift
14C0922-05	Volatile Organics, 8260 List - Low Le	04/02/2014 8:46	04/02/2014 17:43	Steve Swift

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested. Signature binds you to York's Std. Terms & Conditions.

York Project No. 1

YOUR Information Company: <u>CHARZEN</u> Address: _____ Phone No. _____ Contact Person: <u>ERIC ORLOWSKI</u> E-Mail Address: _____		Report To: Company: <u>CHARZEN</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: <u>CHARZEN</u> Address: _____ Phone No. _____ Attention: <u>ACCIS PAYABLE</u> E-Mail Address: _____		YOUR Project ID <u>41103.00</u> <u>Kingston CVS</u> <u>Purchase Order No.</u> <u>P15764</u>		Turn-Around Time RUSH - Same Day ☐ RUSH - Next Day ☐ RUSH - Two Day ☐ RUSH - Three Day ☐ RUSH - Four Day ☐ Standard (5-7 Days) ☒		Report Type Summary Report <u>✓</u> Summary w/ QA Summary _____ CT RCP Package _____ CTRCP DQ/DUE Pkg _____ NY ASP A Package _____ NY ASP B Package <u>✓</u> NIDEP Red. Deliv. _____ Electronic Data Deliverables (EDD) Simple Excel _____ NYSDEC EQuls _____ EQuls (std) _____ EZ-EDD (EQuls) _____ NIDEP SRP HazSite EDD _____ GIS/KEY (std) _____ Other _____ York Regulatory Comparison Excel Spreadsheet Compare to the following Regs. (please fill in): _____																																																																																																																																															
Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until all questions by York are resolved.																																																																																																																																																									
Matrix Codes S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		<table border="1"><thead><tr><th colspan="2">Volatiles</th><th colspan="2">Semi-Vols. Pest/PCB/Herb</th><th colspan="2">Metals</th><th colspan="2">Misc. Org.</th><th colspan="2">Full Lists</th><th colspan="2">Misc.</th></tr></thead><tbody><tr><td>\$260 full</td><td>TICs</td><td>8260</td><td>α 625</td><td>TPH GRO</td><td>RCRA8</td><td>Pri. Poll.</td><td>Corrosivity</td><td></td><td></td><td></td><td></td></tr><tr><td>624</td><td>Site Spec.</td><td>STARS list</td><td>8082PCB</td><td>TPH DRO</td><td>PP13 list</td><td>TCL Ograns</td><td>Reactivity</td><td></td><td></td><td></td><td></td></tr><tr><td>STARS list</td><td>Nassau Co.</td><td>IBN Only</td><td>8151Herb</td><td>CT ETPH</td><td>TAL</td><td>TAL MetCN</td><td>Ignitability</td><td></td><td></td><td></td><td></td></tr><tr><td>BTEX</td><td>Suffolk Co.</td><td>Acids Only</td><td>CT RCP</td><td>NY 310-13</td><td>CT15 list</td><td>Full TCLP</td><td>Flash Point</td><td></td><td></td><td></td><td></td></tr><tr><td>MTBE</td><td>Ketones</td><td>PAH list</td><td>App. IX</td><td>TPH 1664</td><td>TAGM list</td><td>Full App. IX</td><td>Sieve Anal.</td><td></td><td></td><td></td><td></td></tr><tr><td>TCL list</td><td>Oxygenates</td><td>TAGM list</td><td>Site Spec.</td><td>NIJDEP list</td><td>NIJDEP list</td><td>Part 360-Routine</td><td>Heterotrophs</td><td></td><td></td><td></td><td></td></tr><tr><td>TAGM list</td><td>TCLP list</td><td>CT RCP list</td><td>SPL or TCLP</td><td>Total</td><td>Air TO15</td><td>Part 360-Baseline</td><td>TOX</td><td></td><td></td><td></td><td></td></tr><tr><td>CT RCP list</td><td>524.2</td><td>TCLP list</td><td>TCLP Pest</td><td>Dissolved</td><td>Air STARS</td><td>Part 360-Special No. Inorganic</td><td>BTU/lb.</td><td></td><td></td><td></td><td></td></tr><tr><td>Arom. only</td><td>502.2</td><td>NIJDEP list</td><td>TCLP Herb</td><td>SPL or TCLP</td><td>Air VPH</td><td>Part 360-Special No. Organic</td><td>Aquatic Tox.</td><td></td><td></td><td></td><td></td></tr><tr><td>Halog. only</td><td>NIJDEP list</td><td>App. IX</td><td>Chlordane</td><td>Indic. Metals</td><td>Air TICs</td><td>NYCDEP Sewer</td><td>TOC</td><td></td><td></td><td></td><td></td></tr><tr><td>App. IX list</td><td>SPL or TCLP</td><td>TCLP BNA</td><td>608 Pest</td><td>LIST Below</td><td>Methane</td><td>NYSDJCSewer</td><td>Asbestos</td><td></td><td></td><td></td><td></td></tr></tbody></table>								Volatiles		Semi-Vols. Pest/PCB/Herb		Metals		Misc. Org.		Full Lists		Misc.		\$260 full	TICs	8260	α 625	TPH GRO	RCRA8	Pri. Poll.	Corrosivity					624	Site Spec.	STARS list	8082PCB	TPH DRO	PP13 list	TCL Ograns	Reactivity					STARS list	Nassau Co.	IBN Only	8151Herb	CT ETPH	TAL	TAL MetCN	Ignitability					BTEX	Suffolk Co.	Acids Only	CT RCP	NY 310-13	CT15 list	Full TCLP	Flash Point					MTBE	Ketones	PAH list	App. IX	TPH 1664	TAGM list	Full App. IX	Sieve Anal.					TCL list	Oxygenates	TAGM list	Site Spec.	NIJDEP list	NIJDEP list	Part 360-Routine	Heterotrophs					TAGM list	TCLP list	CT RCP list	SPL or TCLP	Total	Air TO15	Part 360-Baseline	TOX					CT RCP list	524.2	TCLP list	TCLP Pest	Dissolved	Air STARS	Part 360-Special No. Inorganic	BTU/lb.					Arom. only	502.2	NIJDEP list	TCLP Herb	SPL or TCLP	Air VPH	Part 360-Special No. Organic	Aquatic Tox.					Halog. only	NIJDEP list	App. IX	Chlordane	Indic. Metals	Air TICs	NYCDEP Sewer	TOC					App. IX list	SPL or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDJCSewer	Asbestos				
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Samples Collected/Authorized By (Signature) E. Ordowski
Name (printed) Eric Ordowski

[illegible]

York Analytical Laboratories, Inc.

SDG: 14C0922

CLASS: VOA

METHOD: EPA 8260C

DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Client Sample Id:

KC-MW-01 0314

KC-MW-01 0314

KC-MW-02 0314

KC-MW-05 0314

KC-MW-05 0314

KC-FD-01

KC-FD-01

Trip Blank 0314

Lab Sample Id:

14C0922-01

14C0922-01RE1

14C0922-02

14C0922-03

14C0922-03RE1

14C0922-04

14C0922-04RE1

14C0922-05

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 computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature:



Name:

Benjamin Gulizia

Date:

5/8/2014

Title:

Laboratory Director

FORM II

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVS

Sequence:

Instrument:

Matrix: Water

Calibration:

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BD40104-BS1) Lab File ID: V6000963.D Analyzed: 04/02/14 10:40								
1,2-Dichloroethane-d4	10.0	103	81 - 123	5.4				
p-Bromofluorobenzene	10.0	100	70 - 128	9.974				
Toluene-d8	10.0	99.8	88 - 114	7.239				
LCS Dup (BD40104-BS1) Lab File ID: V6000964.D Analyzed: 04/02/14 11:09								
1,2-Dichloroethane-d4	10.0	102	81 - 123	5.4				
p-Bromofluorobenzene	10.0	100	70 - 128	9.971				
Toluene-d8	10.0	101	88 - 114	7.236				
Blank (BD40104-BLK1) Lab File ID: V6000965.D Analyzed: 04/02/14 11:39								
1,2-Dichloroethane-d4	10.0	108	81 - 123	5.4				
p-Bromofluorobenzene	10.0	96.5	70 - 128	9.974				
Toluene-d8	10.0	96.7	88 - 114	7.239				
KC-MW-01 0314 (14C0922-01) Lab File ID: V6000970.D Analyzed: 04/02/14 14:18								
1,2-Dichloroethane-d4	10.0	104	81 - 123	5.4				
p-Bromofluorobenzene	10.0	104	70 - 128	9.974				
Toluene-d8	10.0	100	88 - 114	7.239				
KC-MW-02 0314 (14C0922-02) Lab File ID: V6000972.D Analyzed: 04/02/14 15:17								
1,2-Dichloroethane-d4	10.0	106	81 - 123	5.402				
p-Bromofluorobenzene	10.0	98.9	70 - 128	9.976				
Toluene-d8	10.0	100	88 - 114	7.239				
KC-MW-05 0314 (14C0922-03) Lab File ID: V6000973.D Analyzed: 04/02/14 15:46								
1,2-Dichloroethane-d4	10.0	104	81 - 123	5.394				
p-Bromofluorobenzene	10.0	96.8	70 - 128	9.971				
Toluene-d8	10.0	97.2	88 - 114	7.239				
KC-FD-01 (14C0922-04) Lab File ID: V6000975.D Analyzed: 04/02/14 16:44								
1,2-Dichloroethane-d4	10.0	108	81 - 123	5.397				
p-Bromofluorobenzene	10.0	98.9	70 - 128	9.977				
Toluene-d8	10.0	97.7	88 - 114	7.239				
Trip Blank 0314 (14C0922-05) Lab File ID: V6000977.D Analyzed: 04/02/14 17:43								
1,2-Dichloroethane-d4	10.0	110	81 - 123	5.397				
p-Bromofluorobenzene	10.0	99.4	70 - 128	9.974				
Toluene-d8	10.0	101	88 - 114	7.236				

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Batch: BD40104

Laboratory ID: BD40104-BS1

Preparation: EPA 5030B

Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.53	95.3	85 - 118
1,1,1-Trichloroethane	10.0	9.68	96.8	74 - 128
1,1,2,2-Tetrachloroethane	10.0	9.55	95.5	71 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.34	93.4	51 - 157
1,1,2-Trichloroethane	10.0	9.43	94.3	80 - 122
1,1-Dichloroethane	10.0	9.84	98.4	70 - 131
1,1-Dichloroethylene	10.0	9.42	94.2	60 - 143
1,1-Dichloropropylene	10.0	9.33	93.3	78 - 122
1,2,3-Trichlorobenzene	10.0	9.70	97.0	68 - 140
1,2,3-Trichloropropane	10.0	9.13	91.3	77 - 125
1,2,4-Trichlorobenzene	10.0	9.56	95.6	65 - 143
1,2,4-Trimethylbenzene	10.0	9.45	94.5	83 - 121
1,2-Dibromo-3-chloropropane	10.0	8.34	83.4	60 - 146
1,2-Dibromoethane	10.0	9.78	97.8	82 - 122
1,2-Dichlorobenzene	10.0	8.92	89.2	85 - 115
1,2-Dichloroethane	10.0	9.95	99.5	72 - 126
1,2-Dichloropropane	10.0	9.78	97.8	78 - 119
1,3,5-Trimethylbenzene	10.0	9.48	94.8	84 - 118
1,3-Dichlorobenzene	10.0	9.30	93.0	83 - 117
1,3-Dichloropropane	10.0	9.84	98.4	79 - 121
1,4-Dichlorobenzene	10.0	9.21	92.1	83 - 118
2,2-Dichloropropane	10.0	9.75	97.5	60 - 135
2-Butanone	10.0	5.72	57.2	48 - 156
2-Chlorotoluene	10.0	9.51	95.1	81 - 118
2-Hexanone	10.0	4.31	43.1 *	50 - 151
4-Chlorotoluene	10.0	9.48	94.8	81 - 117
4-Methyl-2-pentanone	10.0	9.04	90.4	55 - 147
Acetone	10.0	6.76	67.6	21 - 172
Benzene	10.0	9.55	95.5	82 - 120
Bromobenzene	10.0	9.01	90.1	82 - 119

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BD40104Laboratory ID: BD40104-BS1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Bromochloromethane	10.0	9.78	97.8	69 - 125
Bromodichloromethane	10.0	10.3	103	84 - 117
Bromoform	10.0	10.1	101	77 - 130
Bromomethane	10.0	10.8	108	16 - 162
Carbon disulfide	20.0	9.43	47.2	21 - 78
Carbon tetrachloride	10.0	9.63	96.3	72 - 132
Chlorobenzene	10.0	9.76	97.6	88 - 112
Chloroethane	10.0	10.4	104	29 - 172
Chloroform	10.0	9.51	95.1	77 - 124
Chloromethane	10.0	9.10	91.0	37 - 131
cis-1,2-Dichloroethylene	10.0	9.80	98.0	77 - 124
cis-1,3-Dichloropropylene	10.0	10.3	103	81 - 117
Dibromochloromethane	10.0	9.96	99.6	72 - 131
Dibromomethane	10.0	10.4	104	85 - 116
Dichlorodifluoromethane	10.0	8.51	85.1	47 - 152
Ethyl Benzene	10.0	9.58	95.8	86 - 114
Hexachlorobutadiene	10.0	9.18	91.8	68 - 139
Isopropylbenzene	10.0	9.53	95.3	84 - 118
Methyl tert-butyl ether (MTBE)	10.0	10.0	100	49 - 156
Methylene chloride	10.0	9.31	93.1	51 - 145
Naphthalene	10.0	9.79	97.9	67 - 141
n-Butylbenzene	10.0	9.33	93.3	76 - 125
n-Propylbenzene	10.0	9.45	94.5	84 - 118
o-Xylene	10.0	9.54	95.4	85 - 114
p- & m- Xylenes	20.0	19.3	96.3	84 - 117
p-Isopropyltoluene	10.0	9.40	94.0	84 - 121
sec-Butylbenzene	10.0	9.34	93.4	85 - 119
Styrene	10.0	9.54	95.4	77 - 126
tert-Butylbenzene	10.0	9.48	94.8	83 - 119
Tetrachloroethylene	10.0	9.30	93.0	75 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Matrix: Water
Batch: BD40104 Laboratory ID: BD40104-BS1
Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	9.22	92.2	86 - 113
trans-1,2-Dichloroethylene	10.0	10.8	108	55 - 148
trans-1,3-Dichloropropylene	10.0	9.90	99.0	77 - 120
Trichloroethylene	10.0	9.58	95.8	85 - 115
Trichlorofluoromethane	10.0	8.85	88.5	69 - 131
Vinyl Chloride	10.0	9.14	91.4	44 - 152

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BD40104Laboratory ID: BD40104-BSD1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	10.0	9.94	99.4	4.21	30	85 - 118
1,1,1-Trichloroethane	10.0	10.4	104	7.36	30	74 - 128
1,1,2,2-Tetrachloroethane	10.0	9.97	99.7	4.30	30	71 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.3	103	9.97	30	51 - 157
1,1,2-Trichloroethane	10.0	9.95	99.5	5.37	30	80 - 122
1,1-Dichloroethane	10.0	9.80	98.0	0.407	30	70 - 131
1,1-Dichloroethylene	10.0	9.83	98.3	4.26	30	60 - 143
1,1-Dichloropropylene	10.0	10.2	102	9.30	30	78 - 122
1,2,3-Trichlorobenzene	10.0	9.94	99.4	2.44	30	68 - 140
1,2,3-Trichloropropane	10.0	9.70	97.0	6.05	30	77 - 125
1,2,4-Trichlorobenzene	10.0	9.95	99.5	4.00	30	65 - 143
1,2,4-Trimethylbenzene	10.0	9.92	99.2	4.85	30	83 - 121
1,2-Dibromo-3-chloropropane	10.0	8.08	80.8	3.17	30	60 - 146
1,2-Dibromoethane	10.0	10.3	103	4.79	30	82 - 122
1,2-Dichlorobenzene	10.0	10.7	107	18.4	30	85 - 115
1,2-Dichloroethane	10.0	10.1	101	1.20	30	72 - 126
1,2-Dichloropropane	10.0	10.5	105	6.81	30	78 - 119
1,3,5-Trimethylbenzene	10.0	10.0	100	5.84	30	84 - 118
1,3-Dichlorobenzene	10.0	9.68	96.8	4.00	30	83 - 117
1,3-Dichloropropane	10.0	10.1	101	2.51	30	79 - 121
1,4-Dichlorobenzene	10.0	9.52	95.2	3.31	30	83 - 118
2,2-Dichloropropane	10.0	9.85	98.5	1.02	30	60 - 135
2-Butanone	10.0	8.57	85.7	39.9 *	30	48 - 156
2-Chlorotoluene	10.0	9.90	99.0	4.02	30	81 - 118
2-Hexanone	10.0	9.94	99.4	79.0 *	30	50 - 151
4-Chlorotoluene	10.0	9.95	99.5	4.84	30	81 - 117
4-Methyl-2-pentanone	10.0	8.26	82.6	9.02	30	55 - 147
Acetone	10.0	7.22	72.2	6.58	30	21 - 172
Benzene	10.0	9.71	97.1	1.66	30	82 - 120
Bromobenzene	10.0	10.2	102	12.0	30	82 - 119

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BD40104Laboratory ID: BD40104-BSD1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Bromochloromethane	10.0	9.81	98.1	0.306	30	69 - 125
Bromodichloromethane	10.0	10.6	106	2.79	30	84 - 117
Bromoform	10.0	10.2	102	0.493	30	77 - 130
Bromomethane	10.0	10.9	109	0.830	30	16 - 162
Carbon disulfide	20.0	9.74	48.7	3.23	30	21 - 78
Carbon tetrachloride	10.0	10.3	103	6.63	30	72 - 132
Chlorobenzene	10.0	10.1	101	3.72	30	88 - 112
Chloroethane	10.0	10.8	108	3.21	30	29 - 172
Chloroform	10.0	9.86	98.6	3.61	30	77 - 124
Chloromethane	10.0	9.86	98.6	8.02	30	37 - 131
cis-1,2-Dichloroethylene	10.0	9.95	99.5	1.52	30	77 - 124
cis-1,3-Dichloropropylene	10.0	10.4	104	0.290	30	81 - 117
Dibromochloromethane	10.0	10.4	104	4.32	30	72 - 131
Dibromomethane	10.0	10.6	106	1.81	30	85 - 116
Dichlorodifluoromethane	10.0	9.51	95.1	11.1	30	47 - 152
Ethyl Benzene	10.0	10.1	101	5.38	30	86 - 114
Hexachlorobutadiene	10.0	9.95	99.5	8.05	30	68 - 139
Isopropylbenzene	10.0	10.1	101	5.61	30	84 - 118
Methyl tert-butyl ether (MTBE)	10.0	10.4	104	3.53	30	49 - 156
Methylene chloride	10.0	9.68	96.8	3.90	30	51 - 145
Naphthalene	10.0	9.98	99.8	1.92	30	67 - 141
n-Butylbenzene	10.0	10.0	100	7.23	30	76 - 125
n-Propylbenzene	10.0	9.96	99.6	5.26	30	84 - 118
o-Xylene	10.0	10.1	101	5.50	30	85 - 114
p- & m- Xylenes	20.0	20.0	100	3.82	30	84 - 117
p-Isopropyltoluene	10.0	10.0	100	6.29	30	84 - 121
sec-Butylbenzene	10.0	10.1	101	7.42	30	85 - 119
Styrene	10.0	10.1	101	5.50	30	77 - 126
tert-Butylbenzene	10.0	10.0	100	5.64	30	83 - 119
Tetrachloroethylene	10.0	10.1	101	8.15	30	75 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BD40104Laboratory ID: BD40104-BSD1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Toluene	10.0	9.69	96.9	4.97	30	86 - 113
trans-1,2-Dichloroethylene	10.0	10.8	108	0.647	30	55 - 148
trans-1,3-Dichloropropylene	10.0	10.6	106	6.92	30	77 - 120
Trichloroethylene	10.0	10.1	101	5.48	30	85 - 115
Trichlorofluoromethane	10.0	10.1	101	13.2	30	69 - 131
Vinyl Chloride	10.0	9.98	99.8	8.79	30	44 - 152

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BD40104-BLK1 File ID: V6000965.D
 Prepared: 04/02/14 08:46 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Analyzed: 04/02/14 11:39 Instrument: MSVOA6
 Batch: BD40104 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
563-58-6	1,1-Dichloropropylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.28	J
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.20	J
95-63-6	1,2,4-Trimethylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
78-93-3	2-Butanone	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
591-78-6	2-Hexanone	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
71-43-2	Benzene	0.50	U
108-86-1	Bromobenzene	0.50	U

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BD40104-BLK1 File ID: V6000965.D
 Prepared: 04/02/14 08:46 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Analyzed: 04/02/14 11:39 Instrument: MSVOA6
 Batch: BD40104 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
124-48-1	Dibromochloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
75-09-2	Methylene chloride	2.0	U
91-20-3	Naphthalene	2.0	U
104-51-8	n-Butylbenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
99-87-6	p-Isopropyltoluene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
100-42-5	Styrene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U

FORM I

METHOD BLANK DATA SHEET EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BD40104-BLK1 File ID: V6000965.D
 Prepared: 04/02/14 08:46 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Analyzed: 04/02/14 11:39 Instrument: MSVOA6
 Batch: BD40104 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.8	108	81 - 123	
p-Bromofluorobenzene	10.0	9.65	96.5	70 - 128	
Toluene-d8	10.0	9.67	96.7	88 - 114	

FORM IV**PREPARATION BATCH SUMMARY****EPA 8260C**Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSBatch: BD40104Batch Matrix: WaterPreparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 0314	14C0922-01	V6000971.D	04/02/14 08:46	From BC41284 by BGS on 04/02/2014
KC-MW-01 0314	14C0922-01	V6000970.D	04/02/14 08:46	From BC41284 by BGS on 04/02/2014
KC-MW-02 0314	14C0922-02	V6000972.D	04/02/14 08:46	From BC41284 by BGS on 04/02/2014
KC-MW-05 0314	14C0922-03	V6000974.D	04/02/14 08:46	From BC41284 by BGS on 04/02/2014
KC-MW-05 0314	14C0922-03	V6000973.D	04/02/14 08:46	From BC41284 by BGS on 04/02/2014
KC-FD-01	14C0922-04	V6000976.D	04/02/14 08:46	From BC41284 by BGS on 04/02/2014
KC-FD-01	14C0922-04	V6000975.D	04/02/14 08:46	From BC41284 by BGS on 04/02/2014
Trip Blank 0314	14C0922-05	V6000977.D	04/02/14 08:46	From BC41284 by BGS on 04/02/2014
Blank	BD40104-BLK1	V6000965.D	04/02/14 08:46	
LCS	BD40104-BS1	V6000963.D	04/02/14 08:46	
LCS Dup	BD40104-BSD1	V6000964.D	04/02/14 08:46	

Form 5A
Volatile Organic Instrument Performance Check
Bromofluorobenzene (BFB)

Lab Name: York Analytical Laboratories, Inc.
 Client: Chazen Environmental Services (Poughkeepsie)
 Lab File ID: V6000926.D
 Instrument ID: VOA No. 6
 Calibration: V6LO0004

SDG: 14C0922
 Project: 41103.00 Kingston CVS
 BFB Injection Date: 04/01/14
 BFB InjectionTime: 12:00
 Sequence: QBV6040114A

m/e	Ion Abundance Criteria	% Relative Abundance	
50	15.0-40.0% of mass 95	17.0	
75	30.0-60.0% of mass 95	49.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0-9.0% of mass 95	5.8	
173	Less than 2.0% of mass 174	0.0	95.3 1
174	50.0-100.0% of mass 95	95.3	
175	5.0-9.0% of mass 174	6.7	95.3 1
176	95.0-101.0% of mass 174	95.6	95.3 1
177	5.0-9.0% of mass 176	6.0	95.6 2

1- Value is % mass 174

2-Value is % mass 176

This check applies to the following samples, MS, MSD, blanks and standards

	Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1		0.5 ppb VOA CALIBRATION STD	V6000927.D	04/01/14	12:33
2		2 ppb VOA CALIBRATION STD	V6000928.D	04/01/14	13:02
3		4 ppb VOA CALIBRATION STD	V6000929.D	04/01/14	13:31
4		10 ppb VOA CALIBRATION STD	V6000930.D	04/01/14	14:00
5		20 ppb VOA CALIBRATION STD	V6000931.D	04/01/14	14:30
6		40 ppb VOA CALIBRATION STD	V6000932.D	04/01/14	14:59
7		VOA ICV STD	V6000934.D	04/01/14	15:57
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5A
Volatile Organic Instrument Performance Check
Bromofluorobenzene (BFB)

Lab Name: York Analytical Laboratories, Inc.
 Client: Chazen Environmental Services (Poughkeepsie)
 Lab File ID: V6000962.D
 Instrument ID: VOA No. 6
 Calibration: V6LO0004

SDG: 14C0922
 Project: 41103.00 Kingston CVS
 BFB Injection Date: 04/02/14
 BFB InjectionTime: 9:58
 Sequence: QBV6040214B

m/e	Ion Abundance Criteria	% Relative Abundance	
50	15.0-40.0% of mass 95	17.4	
75	30.0-60.0% of mass 95	47.5	
95	Base peak, 100% relative abundance	100.0	
96	5.0-9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.0	91.7 1
174	50.0-100.0% of mass 95	91.7	
175	5.0-9.0% of mass 174	5.4	91.7 1
176	95.0-101.0% of mass 174	98.7	91.7 1
177	5.0-9.0% of mass 176	6.6	98.7 2

1- Value is % mass 174

2-Value is % mass 176

This check applies to the following samples, MS, MSD, blanks and standards

	Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1		BD40104-BS1	V6000963.D	04/02/14	10:40
2		BD40104-BSD1	V6000964.D	04/02/14	11:09
3		BD40104-BLK1	V6000965.D	04/02/14	11:39
4	KC-MW-01 0314 (5X)	14C0922-01 (5X)	V6001970.D	04/02/14	14:18
5	KC-MW-01 0314 (50X)	14C0922-01 (50X)	V6001971.D	04/02/14	14:47
6	KC-MW-02 0314	14C0922-02	V6001972.D	04/02/14	15:17
7	KC-MW-05-0314	14C0922-03	V6001973.D	04/02/14	15:46
8	KC-MW-05-0314 (5X)	14C0922-03 (5X)	V6001974.D	04/02/14	16:15
9	KC-FD-01 (2X)	14C0922-04 (2X)	V6001975.D	04/02/14	16:44
10	KC-FD-01 (10X)	14C0922-04 (10X)	V6001976.D	04/02/14	17:14
11	Trip Blank 0314	14C0922-05	V6001977.D	04/02/14	17:43
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 8A
Volatile Internal Standard Area and RT Summary

Lab Name: York Analytical Laboratories, Inc
 Client: Chazen Environmental Services (Poughkeepsie)
 Sequence: QBV6040214B
 Calibration: V6LO0004
 Lab File ID: V6000962.D

SDG: 14C0922
 Project: 41103.00 Kingston CVS
 Instrument ID: VOA No. 6
 BFB Injection Date: 04/02/14
 BFB InjectionTime: 9:58

	IS 1 (FBZ)		IS 2 (CBZ)		IS 3 (DCB)	
	Area	RT	Area	RT	Area	RT
12 Hour Std	64591	5.72	255158	8.71	123719	11.68
Upper Limit	129182	6.22	510316	9.21	247438	12.18
Lower Limit	32296	5.22	127579	8.21	61860	11.18
Client Sample ID						
BD40104-BS1	64564	5.71	255297	8.71	125050	11.69
BD40104-BSD1	66214	5.72	259021	8.72	127692	11.69
BD40104-BLK1	64109	5.71	264948	8.71	135414	11.68
KC-MW-01 0314 (5X)	63694	5.71	251209	8.72	120989	11.69
KC-MW-01 0314 (50X)	64259	5.72	255584	8.71	130450	11.68
KC-MW-02 0314	63485	5.71	254801	8.71	129419	11.69
KC-MW-05-0314	64161	5.71	260601	8.72	131429	11.69
KC-MW-05-0314 (5X)	64766	5.71	258207	8.71	130279	11.68
KC-FD-01 (2X)	63535	5.71	258507	8.71	128118	11.68
KC-FD-01 (10X)	64030	5.71	253282	8.71	126543	11.68
Trip Blank 0314	62047	5.71	253601	8.71	128785	11.68

IS 1 (FBZ) = Fluorobenzene
 IS 2 (CBZ) = Chlorobenzene-d5
 IS 3 (DCB) = 1,2-Dichlorobenzene-d4

Area Upper Limit +100% of internal standard area
 Area Lower Limit -50% of internal standard area
 RT Upper Limit +0.50 minutes of internal standard RT
 RT Lower Limit -0.50 minutes of internal standard RT

* = Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Instrument:

Analyte	LOD	LOQ	Units
1,1,1,2-Tetrachloroethane	0.20	0.50	ug/L
1,1,1-Trichloroethane	0.20	0.50	ug/L
1,1,2,2-Tetrachloroethane	0.20	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.20	0.50	ug/L
1,1,2-Trichloroethane	0.20	0.50	ug/L
1,1-Dichloroethane	0.20	0.50	ug/L
1,1-Dichloroethylene	0.20	0.50	ug/L
1,1-Dichloropropylene	0.20	0.50	ug/L
1,2,3-Trichlorobenzene	0.20	0.50	ug/L
1,2,3-Trichloropropane	0.20	0.50	ug/L
1,2,4-Trichlorobenzene	0.20	0.50	ug/L
1,2,4-Trimethylbenzene	0.20	0.50	ug/L
1,2-Dibromo-3-chloropropane	0.20	0.50	ug/L
1,2-Dibromoethane	0.20	0.50	ug/L
1,2-Dichlorobenzene	0.20	0.50	ug/L
1,2-Dichloroethane	0.20	0.50	ug/L
1,2-Dichloropropane	0.20	0.50	ug/L
1,3,5-Trimethylbenzene	0.20	0.50	ug/L
1,3-Dichlorobenzene	0.20	0.50	ug/L
1,3-Dichloropropane	0.20	0.50	ug/L
1,4-Dichlorobenzene	0.20	0.50	ug/L
2,2-Dichloropropane	0.20	0.50	ug/L
2-Butanone	0.50	0.50	ug/L
2-Chlorotoluene	0.20	0.50	ug/L
2-Hexanone	0.20	0.50	ug/L
4-Chlorotoluene	0.20	0.50	ug/L
4-Methyl-2-pentanone	0.20	0.50	ug/L
Acetone	1.0	2.0	ug/L
Benzene	0.20	0.50	ug/L
Bromobenzene	0.20	0.50	ug/L
Bromochloromethane	0.20	0.50	ug/L
Bromodichloromethane	0.20	0.50	ug/L
Bromoform	0.20	0.50	ug/L
Bromomethane	0.20	0.50	ug/L
Carbon disulfide	0.20	0.50	ug/L
Carbon tetrachloride	0.20	0.50	ug/L
Chlorobenzene	0.20	0.50	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Instrument:

Analyte	LOD	LOQ	Units
Chloroethane	0.20	0.50	ug/L
Chloroform	0.20	0.50	ug/L
Chloromethane	0.20	0.50	ug/L
cis-1,2-Dichloroethylene	0.20	0.50	ug/L
cis-1,3-Dichloropropylene	0.20	0.50	ug/L
Dibromochloromethane	0.20	0.50	ug/L
Dibromomethane	0.20	0.50	ug/L
Dichlorodifluoromethane	0.20	0.50	ug/L
Ethyl Benzene	0.20	0.50	ug/L
Hexachlorobutadiene	0.20	0.50	ug/L
Isopropylbenzene	0.20	0.50	ug/L
Methyl tert-butyl ether (MTBE)	0.20	0.50	ug/L
Methylene chloride	1.0	2.0	ug/L
Naphthalene	1.0	2.0	ug/L
n-Butylbenzene	0.20	0.50	ug/L
n-Propylbenzene	0.20	0.50	ug/L
o-Xylene	0.20	0.50	ug/L
p- & m- Xylenes	0.50	1.0	ug/L
p-Isopropyltoluene	0.20	0.50	ug/L
sec-Butylbenzene	0.20	0.50	ug/L
Styrene	0.20	0.50	ug/L
tert-Butylbenzene	0.20	0.50	ug/L
Tetrachloroethylene	0.20	0.50	ug/L
Toluene	0.20	0.50	ug/L
trans-1,2-Dichloroethylene	0.20	0.50	ug/L
trans-1,3-Dichloropropylene	0.20	0.50	ug/L
Trichloroethylene	0.20	0.50	ug/L
Trichlorofluoromethane	0.20	0.50	ug/L
Vinyl Chloride	0.50	0.50	ug/L
Xylenes, Total	0.60	1.5	ug/L

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KC-MW-01 0314	03/26/14 18:40	03/27/14 15:40	04/02/14 08:46	6.59	14.00	04/02/14 14:18	6.82	14.00	
KC-MW-02 0314	03/26/14 18:20	03/27/14 15:40	04/02/14 08:46	6.60	14.00	04/02/14 15:17	6.87	14.00	
KC-MW-05 0314	03/26/14 18:00	03/27/14 15:40	04/02/14 08:46	6.62	14.00	04/02/14 15:46	6.91	14.00	
KC-FD-01	03/26/14 15:00	03/27/14 15:40	04/02/14 08:46	6.74	14.00	04/02/14 16:44	7.07	14.00	
Trip Blank 0314	03/26/14 09:00	03/27/14 15:40	04/02/14 08:46	6.99	14.00	04/02/14 17:43	7.36	14.00	

FORM I

ORGANIC ANALYSIS DATA SHEET

KC-MW-01 0314

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 14C0922-01 File ID: V6000970.D
 Sampled: 03/26/14 18:40 Prepared: 04/02/14 08:46 Analyzed: 04/02/14 14:18
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD40104 Sequence: Calibration: Instrument: MSVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	5	2.5	U
71-55-6	1,1,1-Trichloroethane	5	2.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	2.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	2.5	U
79-00-5	1,1,2-Trichloroethane	5	2.5	U
75-34-3	1,1-Dichloroethane	5	1.4	JD
75-35-4	1,1-Dichloroethylene	5	2.5	U
563-58-6	1,1-Dichloropropylene	5	2.5	U
87-61-6	1,2,3-Trichlorobenzene	5	2.5	U
96-18-4	1,2,3-Trichloropropane	5	2.5	U
120-82-1	1,2,4-Trichlorobenzene	5	2.5	U
95-63-6	1,2,4-Trimethylbenzene	5	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	2.5	U
106-93-4	1,2-Dibromoethane	5	2.5	U
95-50-1	1,2-Dichlorobenzene	5	2.5	U
107-06-2	1,2-Dichloroethane	5	2.5	U
78-87-5	1,2-Dichloropropane	5	2.5	U
108-67-8	1,3,5-Trimethylbenzene	5	1.2	JD
541-73-1	1,3-Dichlorobenzene	5	2.5	U
142-28-9	1,3-Dichloropropane	5	2.5	U
106-46-7	1,4-Dichlorobenzene	5	2.5	U
594-20-7	2,2-Dichloropropane	5	2.5	U
78-93-3	2-Butanone	5	2.5	U
95-49-8	2-Chlorotoluene	5	2.5	U
591-78-6	2-Hexanone	5	2.5	U
106-43-4	4-Chlorotoluene	5	2.5	U
108-10-1	4-Methyl-2-pentanone	5	2.5	U
67-64-1	Acetone	5	10	U
71-43-2	Benzene	5	2.5	U
108-86-1	Bromobenzene	5	2.5	U
74-97-5	Bromochloromethane	5	2.5	U
75-27-4	Bromodichloromethane	5	2.5	U
75-25-2	Bromoform	5	2.5	U
74-83-9	Bromomethane	5	2.5	U
75-15-0	Carbon disulfide	5	2.5	U
56-23-5	Carbon tetrachloride	5	2.5	U
108-90-7	Chlorobenzene	5	2.5	U
75-00-3	Chloroethane	5	2.5	U
67-66-3	Chloroform	5	2.5	U
74-87-3	Chloromethane	5	2.5	U

FORM I

ORGANIC ANALYSIS DATA SHEET

KC-MW-01 0314

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 14C0922-01 File ID: V6000971.D
 Sampled: 03/26/14 18:40 Prepared: 04/02/14 08:46 Analyzed: 04/02/14 14:18
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD40104 Sequence: Calibration: Instrument: MSVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	50	550	D
10061-01-5	cis-1,3-Dichloropropylene	5	2.5	U
124-48-1	Dibromochloromethane	5	2.5	U
74-95-3	Dibromomethane	5	2.5	U
75-71-8	Dichlorodifluoromethane	5	2.5	U
100-41-4	Ethyl Benzene	5	1.3	JD
87-68-3	Hexachlorobutadiene	5	2.5	U
98-82-8	Isopropylbenzene	5	2.5	U
1634-04-4	Methyl tert-butyl ether (MTBE)	5	2.5	U
75-09-2	Methylene chloride	5	10	U
91-20-3	Naphthalene	5	6.0	JD
104-51-8	n-Butylbenzene	5	2.5	U
103-65-1	n-Propylbenzene	5	2.5	U
95-47-6	o-Xylene	5	2.5	U
179601-23-1	p- & m- Xylenes	5	3.2	JD
99-87-6	p-Isopropyltoluene	5	2.5	U
135-98-8	sec-Butylbenzene	5	2.5	U
100-42-5	Styrene	5	2.5	U
98-06-6	tert-Butylbenzene	5	2.5	U
127-18-4	Tetrachloroethylene	5	2.5	U
108-88-3	Toluene	5	2.5	U
156-60-5	trans-1,2-Dichloroethylene	5	18	D
10061-02-6	trans-1,3-Dichloropropylene	5	2.5	U
79-01-6	Trichloroethylene	5	490	D
75-69-4	Trichlorofluoromethane	5	2.5	U
75-01-4	Vinyl Chloride	5	84	D
1330-20-7	Xylenes, Total	5	3.2	JD

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.4	104	81 - 123	
p-Bromofluorobenzene	10.0	10.4	104	70 - 128	
Toluene-d8	10.0	10.0	100	88 - 114	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000970.D
 Acq On : 2 Apr 2014 2:18 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 14C0922-01
 Misc : QBV6040214A 8260 RE 10ML/50ML
 ALS Vial : 11 Sample Multiplier: 5

Quant Time: Apr 03 10:56:05 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:56:33 2014
 Response via : Initial Calibration

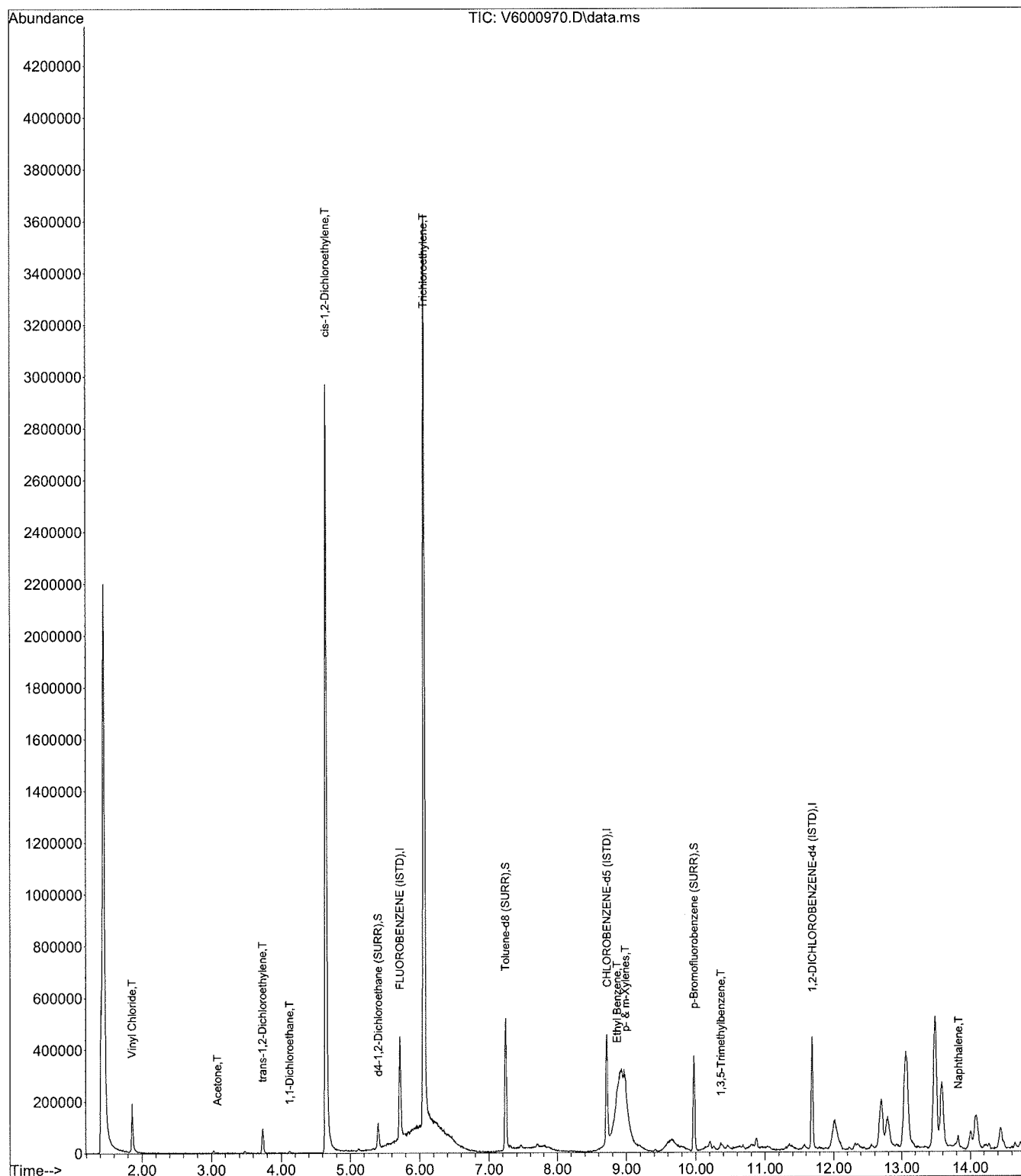
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

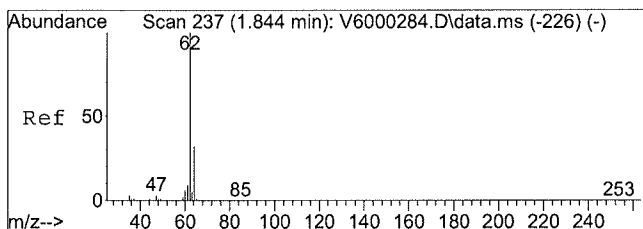
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.714	70	63694	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	8.716	117	251209	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.687	152	120989	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.400	65	61562	10.35	ppb	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	103.50%	
51) Toluene-d8 (SURR)	7.239	98	338242	10.00	ppb	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	100.00%	
70) p-Bromofluorobenzene (...)	9.974	95	123667	10.40	ppb	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	104.00%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.858	62	157541	16.74	ppb	# 86
12) Acetone	3.085	43	1534	0.79	ppb	96
19) trans-1,2-Dichloroethy...	3.733	61	43345	3.50	ppb	99
21) 1,1-Dichloroethane	4.117	63	4814	0.29	ppb	# 92
25) cis-1,2-Dichloroethylene	4.648	61	1537336	102.48	ppb	93
41) Trichloroethylene	6.062	95	1075364	97.50	ppb	94
62) Ethyl Benzene	8.861	91	14423m	0.26	ppb	
63) p- & m-Xylenes	8.983	91	28279	0.65	ppb	89
78) 1,3,5-Trimethylbenzene	10.360	105	13191	0.23	ppb	95
92) Naphthalene	13.821	128	32987	1.20	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\040214\
Data File : V6000970.D
Acq On : 2 Apr 2014 2:18 pm
InstName : MSVOA6
Operator : SS
Sample : 14C0922-01
Misc : QBV6040214A 8260 RE 10ML/50ML
ALS Vial : 11 Sample Multiplier: 5

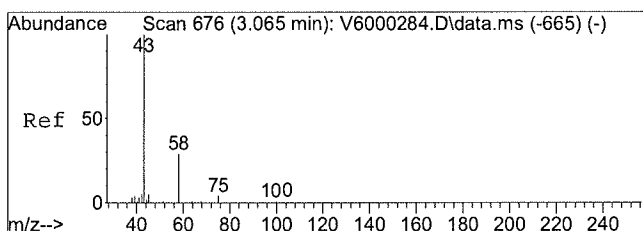
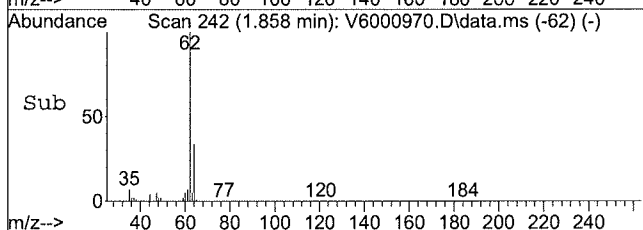
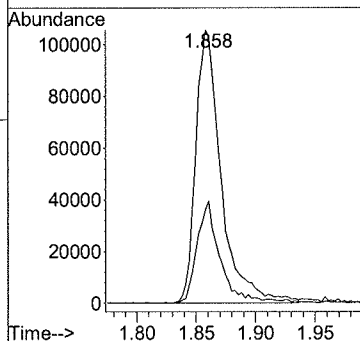
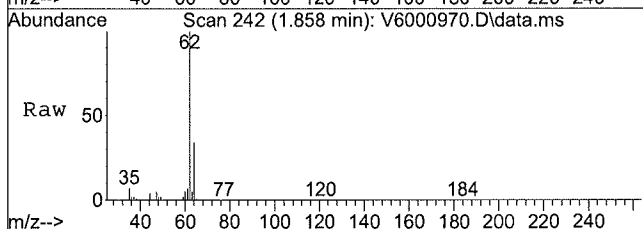
Quant Time: Apr 03 10:56:05 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:56:33 2014
Response via : Initial Calibration





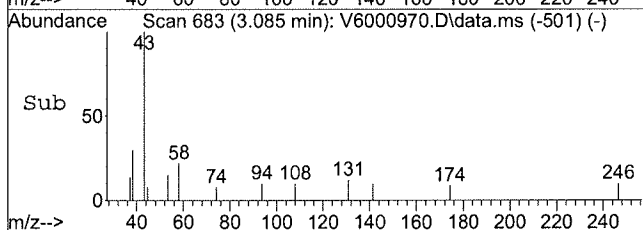
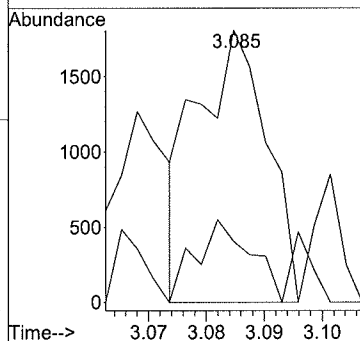
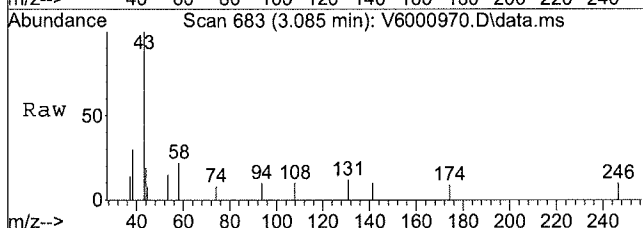
#4
 Vinyl Chloride
 Concen: 16.74 ppb
 RT: 1.858 min Scan# 242
 Delta R.T. -0.000 min
 Lab File: V6000970.D
 Acq: 2 Apr 2014 2:18 pm

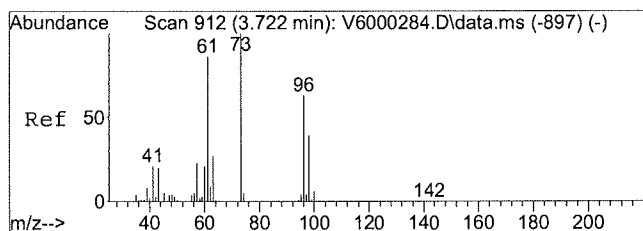
Tgt Ion: 62 Resp: 157541
 Ion Ratio Lower Upper
 62 100
 62 100.0 65.0 135.0
 64 0.0 20.9 43.3#



#12
 Acetone
 Concen: 0.79 ppb
 RT: 3.085 min Scan# 683
 Delta R.T. 0.006 min
 Lab File: V6000970.D
 Acq: 2 Apr 2014 2:18 pm

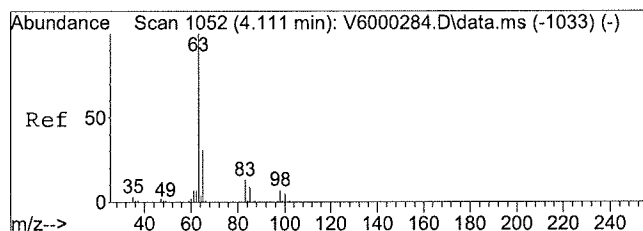
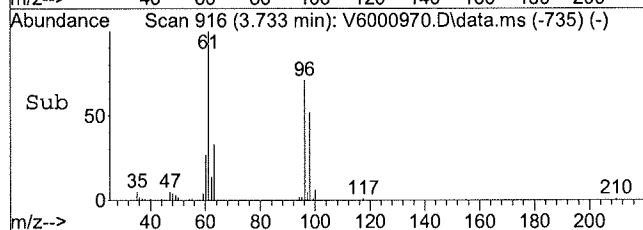
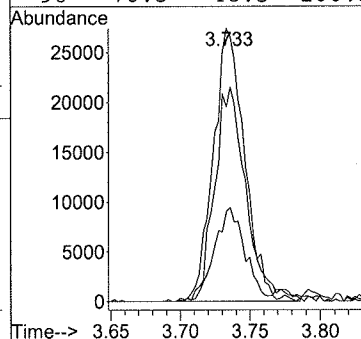
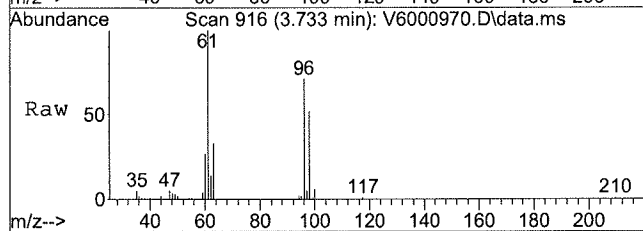
Tgt Ion: 43 Resp: 1534
 Ion Ratio Lower Upper
 43 100
 43 100.0 80.0 120.0
 58 23.9 16.7 50.0





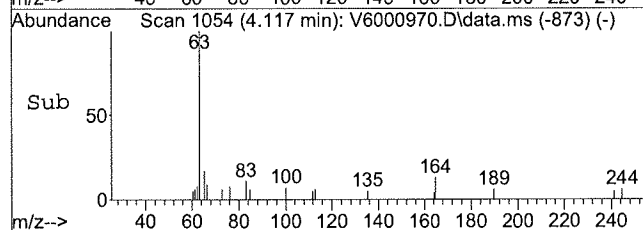
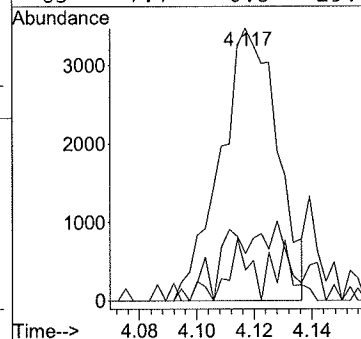
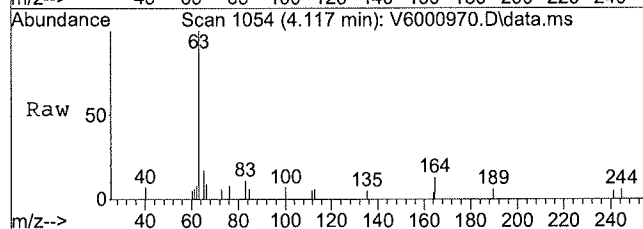
#19
trans-1,2-Dichloroethylene
Concen: 3.50 ppb
RT: 3.733 min Scan# 916
Delta R.T. 0.003 min
Lab File: V6000970.D
Acq: 2 Apr 2014 2:18 pm

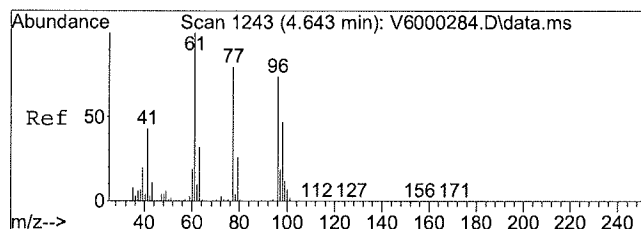
Tgt Ion: 61 Resp: 43345
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
63 33.5 21.4 44.4
96 76.3 48.3 100.3



#21
1,1-Dichloroethane
Concen: 0.29 ppb
RT: 4.117 min Scan# 1054
Delta R.T. 0.003 min
Lab File: V6000970.D
Acq: 2 Apr 2014 2:18 pm

Tgt Ion: 63 Resp: 4814
Ion Ratio Lower Upper
63 100
63 100.0 65.0 135.0
65 13.7 20.7 43.1#
83 7.7 6.3 19.1

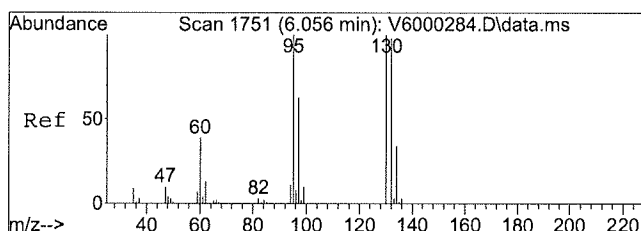
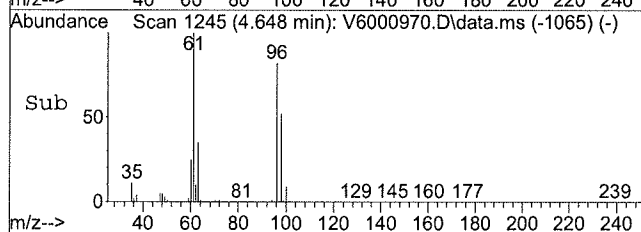
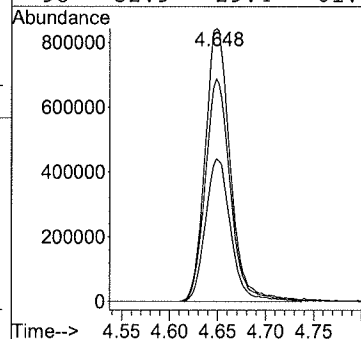
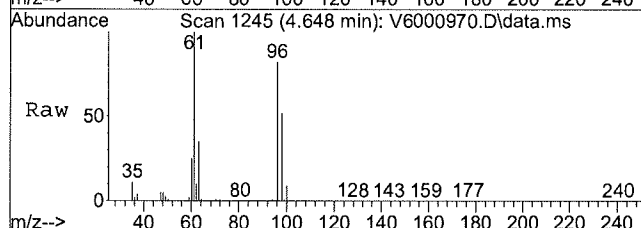




#25
 cis-1,2-Dichloroethylene
 Concen: 102.48 ppb
 RT: 4.648 min Scan# 1245
 Delta R.T. -0.000 min
 Lab File: V6000970.D
 Acq: 2 Apr 2014 2:18 pm

Tgt Ion: 61 Resp: 1537336

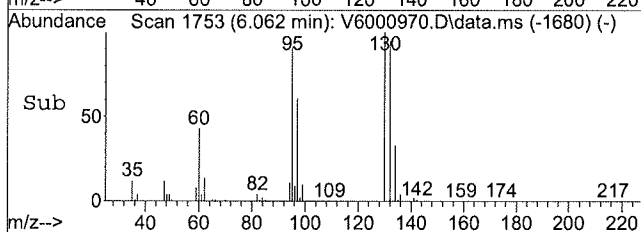
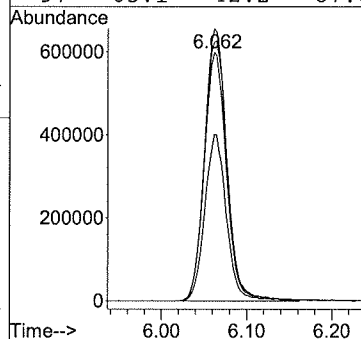
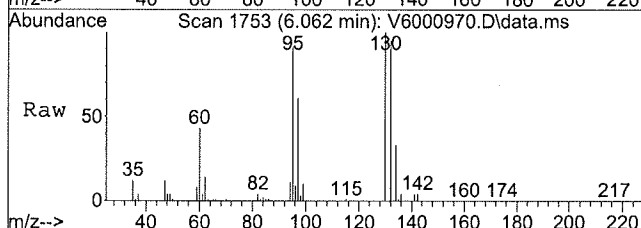
Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	81.3	45.9	95.3
98	52.9	29.4	61.2

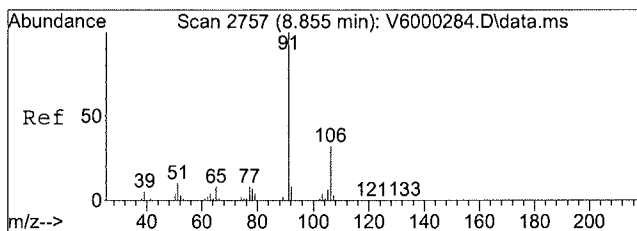


#41
 Trichloroethylene
 Concen: 97.50 ppb
 RT: 6.062 min Scan# 1753
 Delta R.T. 0.003 min
 Lab File: V6000970.D
 Acq: 2 Apr 2014 2:18 pm

Tgt Ion: 95 Resp: 1075364

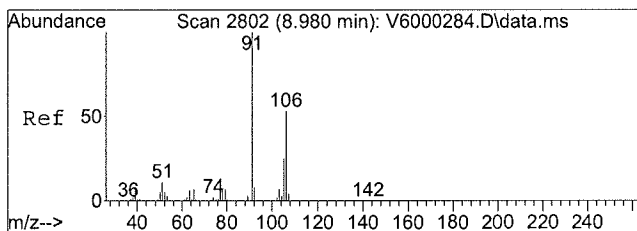
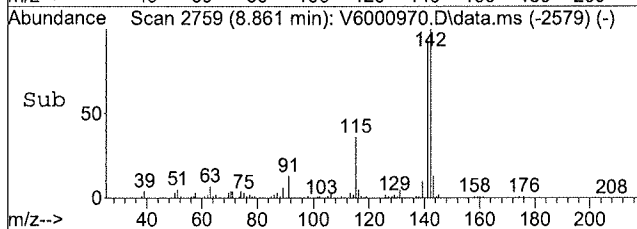
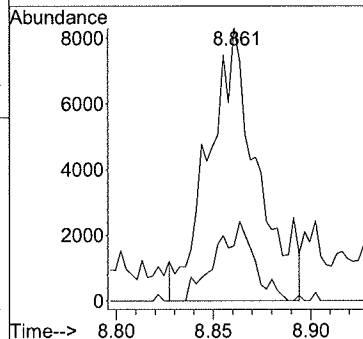
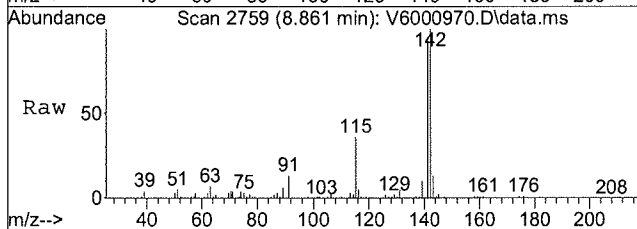
Ion	Ratio	Lower	Upper
95	100		
130	111.6	67.4	140.0
132	107.4	64.9	134.9
97	65.1	42.2	87.6





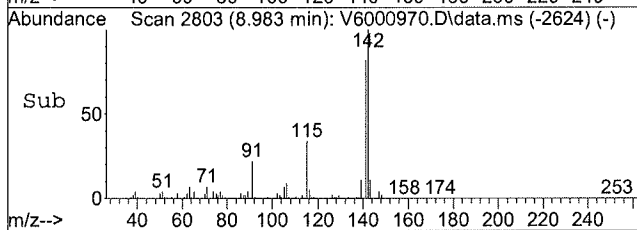
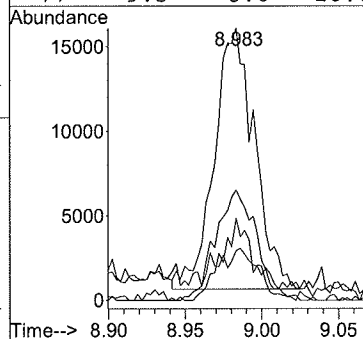
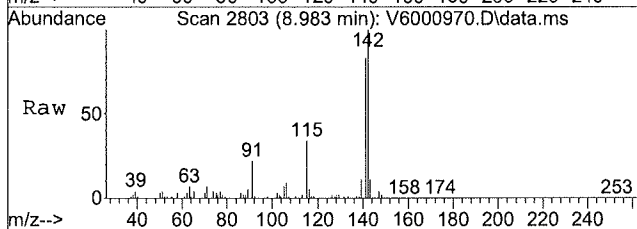
#62
Ethyl Benzene
Concen: 0.26 ppb m
RT: 8.861 min Scan# 2759
Delta R.T. -0.000 min
Lab File: V6000970.D
Acq: 2 Apr 2014 2:18 pm

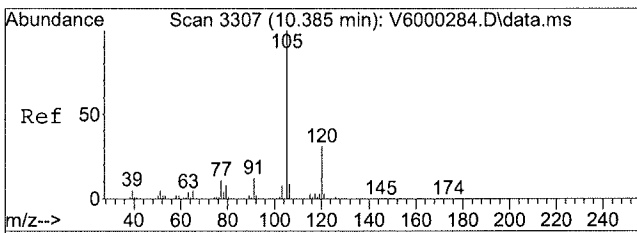
Tgt Ion: 91 Resp: 14423
Ion Ratio Lower Upper
91 100
106 83.0 20.9 43.5#



#63
p- & m-Xylenes
Concen: 0.65 ppb
RT: 8.983 min Scan# 2803
Delta R.T. -0.003 min
Lab File: V6000970.D
Acq: 2 Apr 2014 2:18 pm

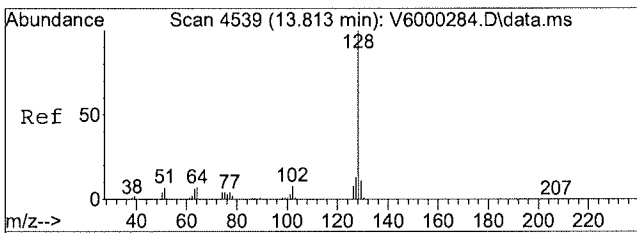
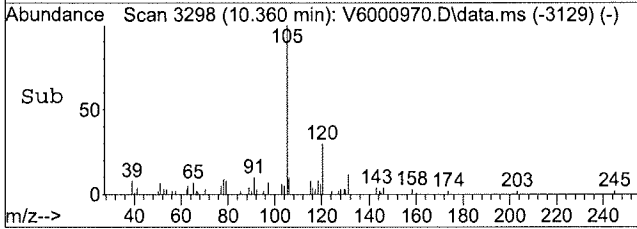
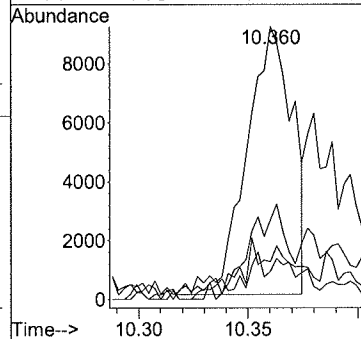
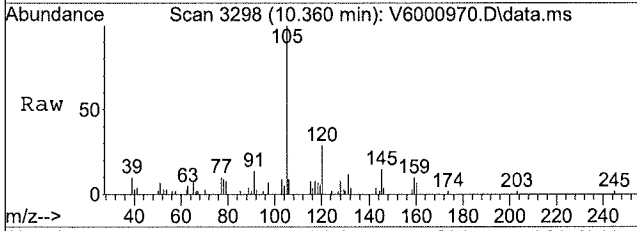
Tgt Ion: 91 Resp: 28279
Ion Ratio Lower Upper
91 100
106 42.3 34.5 71.7
105 24.7 16.6 34.4
77 9.5 8.6 18.0





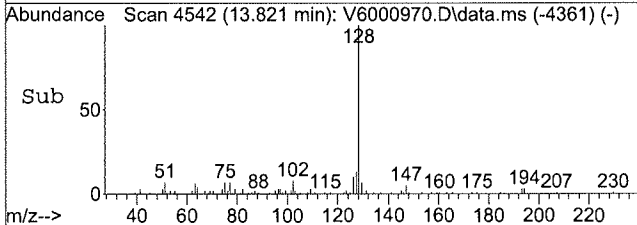
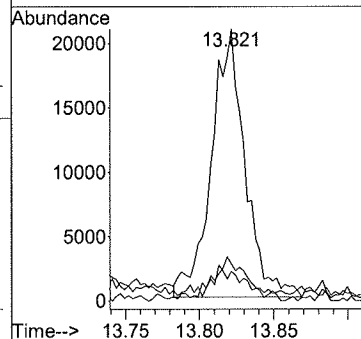
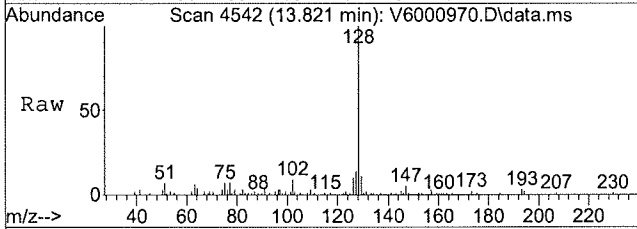
#78
1,3,5-Trimethylbenzene
Concen: 0.23 ppb
RT: 10.360 min Scan# 3298
Delta R.T. -0.031 min
Lab File: V6000970.D
Acq: 2 Apr 2014 2:18 pm

Tgt Ion:105 Resp: 13191
Ion Ratio Lower Upper
105 100
91 10.7 7.5 15.7
120 28.6 20.2 42.0
77 7.3 7.1 14.7



#92
Naphthalene
Concen: 1.20 ppb
RT: 13.821 min Scan# 4542
Delta R.T. 0.003 min
Lab File: V6000970.D
Acq: 2 Apr 2014 2:18 pm

Tgt Ion:128 Resp: 32987
Ion Ratio Lower Upper
128 100
127 12.9 8.5 17.7
129 9.5 7.2 14.9



Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000971.D
 Acq On : 2 Apr 2014 2:47 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 14C0922-01RE1
 Misc : QBV6040214A 8260 1ML/50ML
 ALS Vial : 12 Sample Multiplier: 50

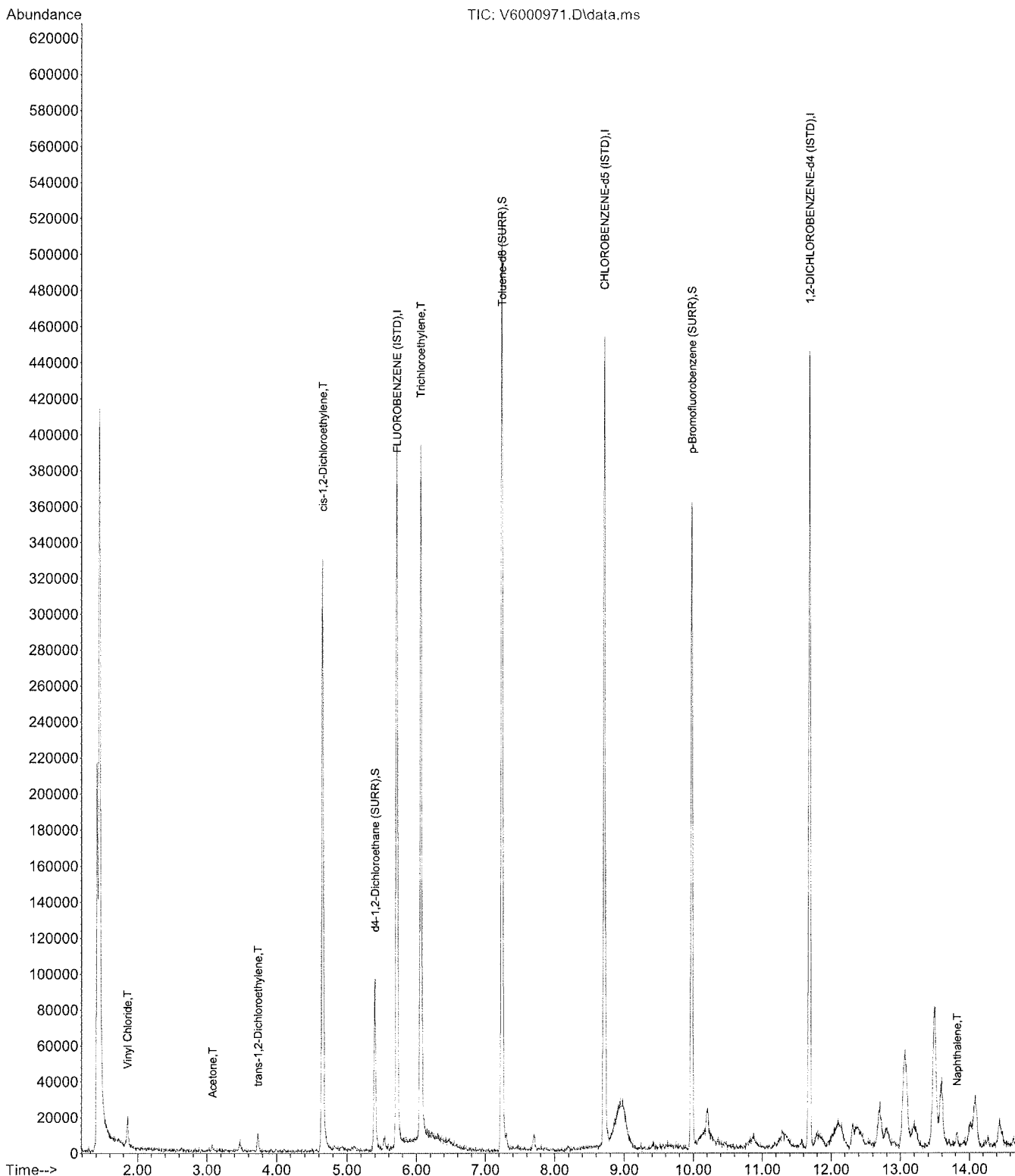
Quant Time: Apr 03 10:56:25 2014
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 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:56:33 2014
 Response via : Initial Calibration

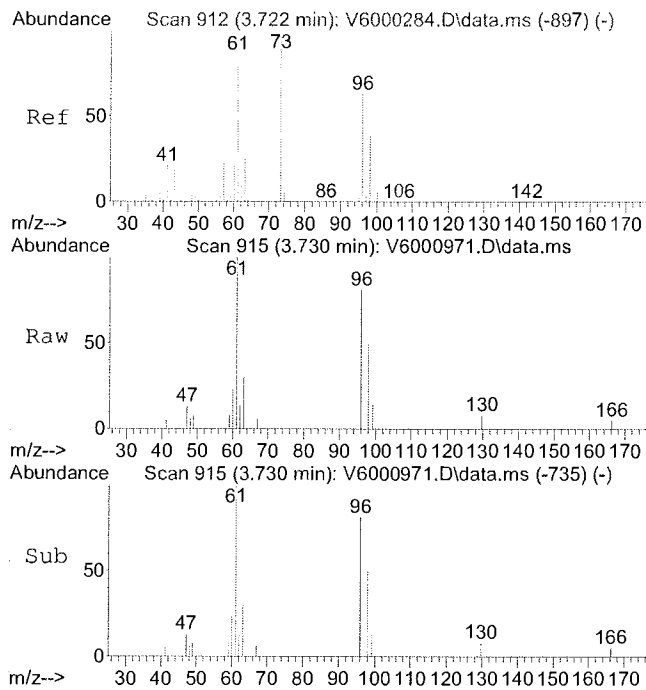
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.720	70	64259	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.713	117	255584	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.685	152	130450	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.400	65	63360	10.55	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.50%		
51) Toluene-d8 (SURR)	7.236	98	341856	9.93	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.30%		
70) p-Bromofluorobenzene (...)	9.974	95	123740	9.65	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.50%		
Target Compounds						
4) Vinyl Chloride	1.858	62	14302	1.51	ppb	Qvalue # 86
12) Acetone	3.076	43	3432m	1.74	ppb	
19) trans-1,2-Dichloroethy...	3.730	61	4357	0.35	ppb	97
25) cis-1,2-Dichloroethylene	4.648	61	165433	10.93	ppb	# 81
41) Trichloroethylene	6.059	95	110734	9.87	ppb	91
92) Naphthalene	13.819	128	7306	0.25	ppb	# 82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\040214\
Data File : V6000971.D
Acq On : 2 Apr 2014 2:47 pm
InstName : MSVOA6
Operator : SS
Sample : 14C0922-01RE1
Misc : QBV6040214A 8260 1ML/50ML
ALS Vial : 12 Sample Multiplier: 50

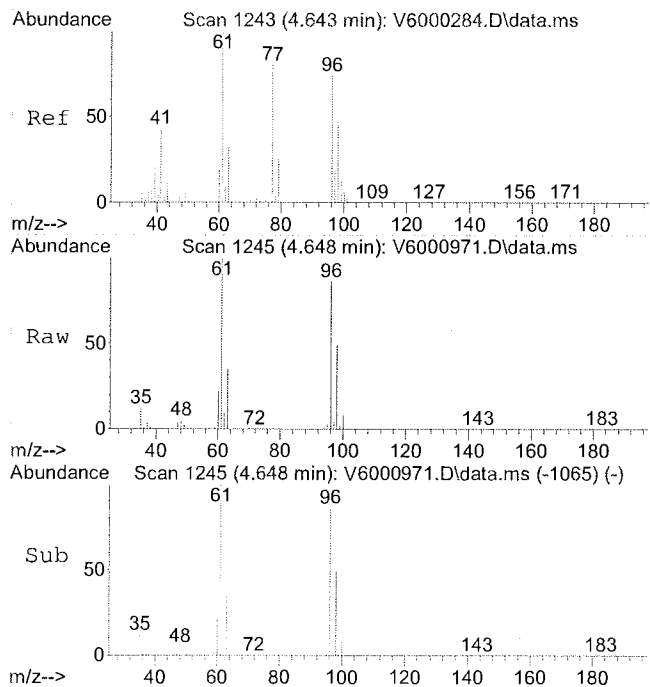
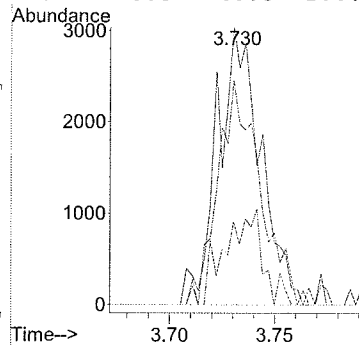
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Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:56:33 2014
Response via : Initial Calibration





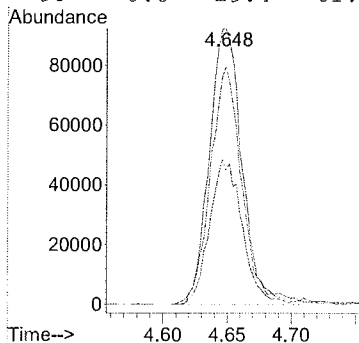
#19
trans-1,2-Dichloroethylene
Concen: 0.35 ppb
RT: 3.730 min Scan# 915
Delta R.T. 0.000 min
Lab File: V6000971.D
Acq: 2 Apr 2014 2:47 pm

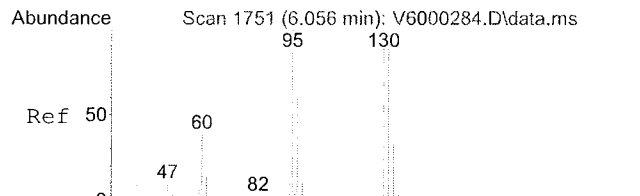
Tgt Ion:	61	Resp:	4357
Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	29.0	21.4	44.4
96	78.5	48.3	100.3



#25
cis-1,2-Dichloroethylene
Concen: 10.93 ppb
RT: 4.648 min Scan# 1245
Delta R.T. 0.000 min
Lab File: V6000971.D
Acq: 2 Apr 2014 2:47 pm

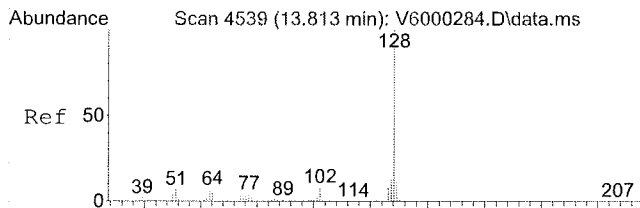
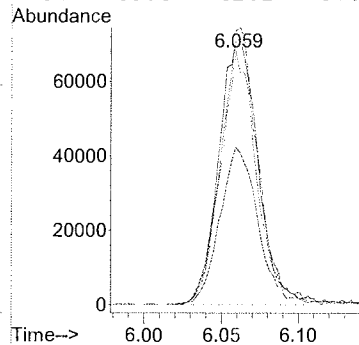
Tgt Ion:	61	Resp:	165433
Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	81.5	45.9	95.3
98	0.0	29.4	61.2#





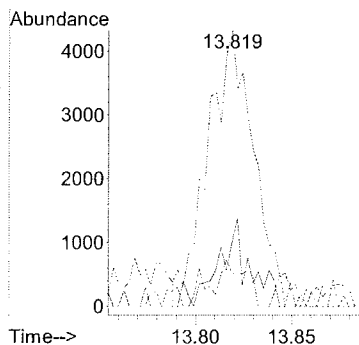
#41
Trichloroethylene
Concen: 9.87 ppb
RT: 6.059 min Scan# 1752
Delta R.T. 0.000 min
Lab File: V6000971.D
Acq: 2 Apr 2014 2:47 pm

Tgt Ion:	95	Resp:	110734
Ion	Ratio	Lower	Upper
95	100		
130	115.0	67.4	140.0
132	111.4	64.9	134.9
97	65.8	42.2	87.6



#92
Naphthalene
Concen: 0.25 ppb
RT: 13.819 min Scan# 4541
Delta R.T. 0.000 min
Lab File: V6000971.D
Acq: 2 Apr 2014 2:47 pm

Tgt Ion:	128	Resp:	7306
Ion	Ratio	Lower	Upper
128	100		
127	20.2	8.5	17.7#
129	4.2	7.2	14.9#



FORM I

ORGANIC ANALYSIS DATA SHEET

KC-MW-02 0314

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 14C0922-02 File ID: V6000972.D
 Sampled: 03/26/14 18:20 Prepared: 04/02/14 08:46 Analyzed: 04/02/14 15:17
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD40104 Sequence: Calibration: Instrument: MSVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.71	
75-35-4	1,1-Dichloroethylene	1	0.50	U
563-58-6	1,1-Dichloropropylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
142-28-9	1,3-Dichloropropane	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
594-20-7	2,2-Dichloropropane	1	0.50	U
78-93-3	2-Butanone	1	0.50	U
95-49-8	2-Chlorotoluene	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
106-43-4	4-Chlorotoluene	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
71-43-2	Benzene	1	0.50	U
108-86-1	Bromobenzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

KC-MW-02 0314

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 14C0922-02 File ID: V6000972.D
 Sampled: 03/26/14 18:20 Prepared: 04/02/14 08:46 Analyzed: 04/02/14 15:17
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD40104 Sequence: Calibration: Instrument: MSVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	1	20	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
91-20-3	Naphthalene	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.28	J
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	1.4	
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	12	
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.6	106	81 - 123	
p-Bromofluorobenzene	10.0	9.89	98.9	70 - 128	
Toluene-d8	10.0	10.0	100	88 - 114	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000972.D
 Acq On : 2 Apr 2014 3:17 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 14C0922-02
 Misc : QBV6040214A 8260 RE
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 03 10:57:24 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:56:33 2014
 Response via : Initial Calibration

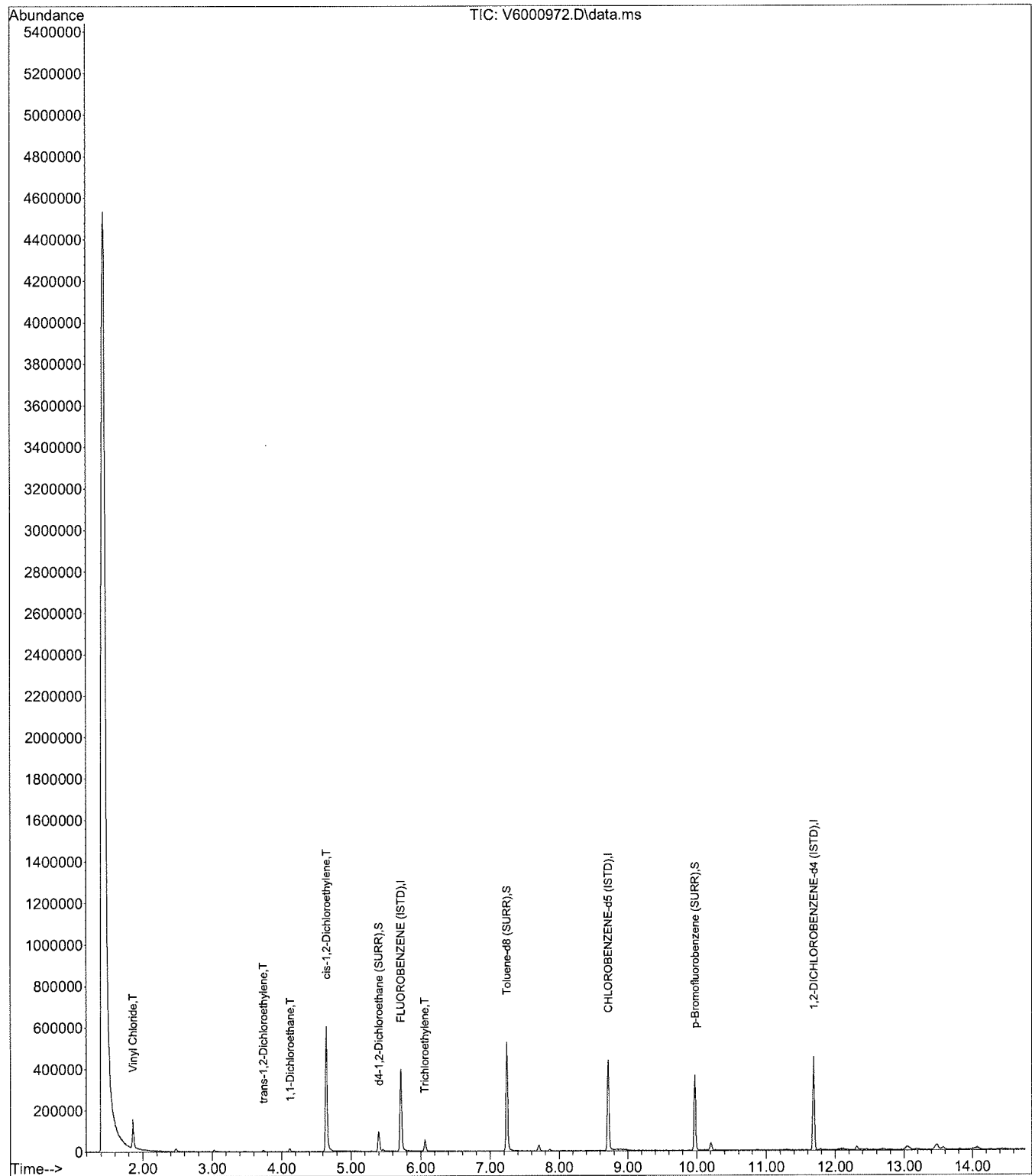
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

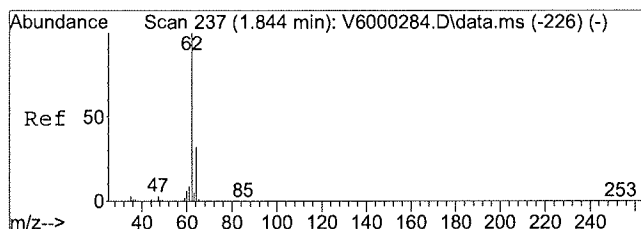
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.714	70	63485	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	8.713	117	254801	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.687	152	129419	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.402	65	62612	10.56	ppb	0.00
Spiked Amount 10.000	Range	70 - 130	Recovery	=	105.60%	
51) Toluene-d8 (SURR)	7.239	98	343725	10.01	ppb	0.00
Spiked Amount 10.000	Range	70 - 130	Recovery	=	100.10%	
70) p-Bromofluorobenzene (...)	9.976	95	125867	9.89	ppb	0.00
Spiked Amount 10.000	Range	70 - 130	Recovery	=	98.90%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.855	62	110068	11.74	ppb	100
19) trans-1,2-Dichloroethy...	3.736	61	3432	0.28	ppb	96
21) 1,1-Dichloroethane	4.123	63	11713	0.71	ppb	# 96
25) cis-1,2-Dichloroethylene	4.648	61	301907	20.19	ppb	93
41) Trichloroethylene	6.056	95	15144	1.35	ppb	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\040214\
Data File : V6000972.D
Acq On : 2 Apr 2014 3:17 pm
InstName : MSVOA6
Operator : SS
Sample : 14C0922-02
Misc : QBV6040214A 8260 RE
ALS Vial : 13 Sample Multiplier: 1

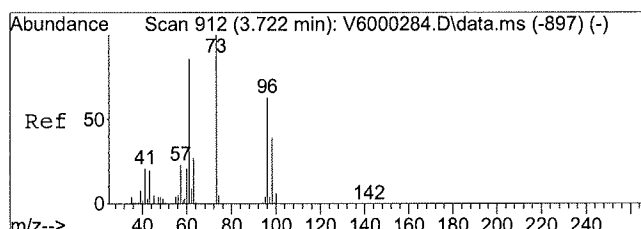
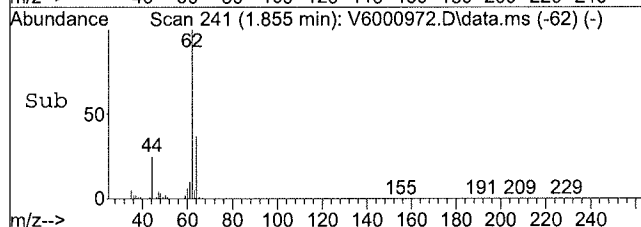
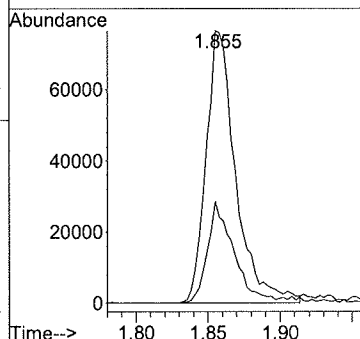
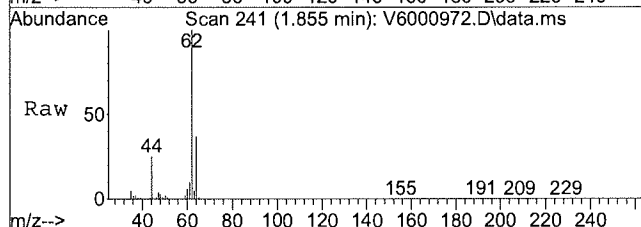
Quant Time: Apr 03 10:57:24 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:56:33 2014
Response via : Initial Calibration





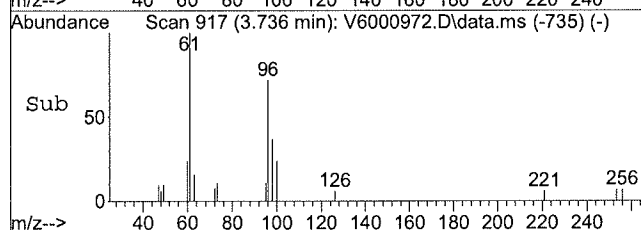
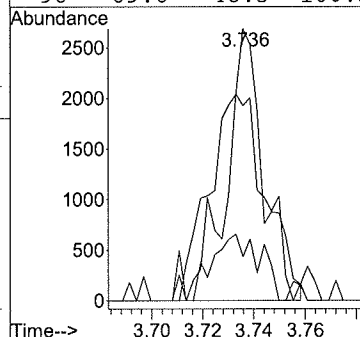
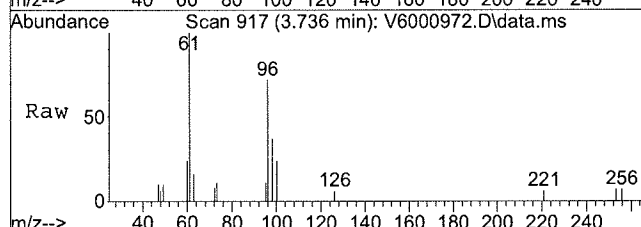
#4
 Vinyl Chloride
 Concen: 11.74 ppb
 RT: 1.855 min Scan# 241
 Delta R.T. -0.003 min
 Lab File: V6000972.D
 Acq: 2 Apr 2014 3:17 pm

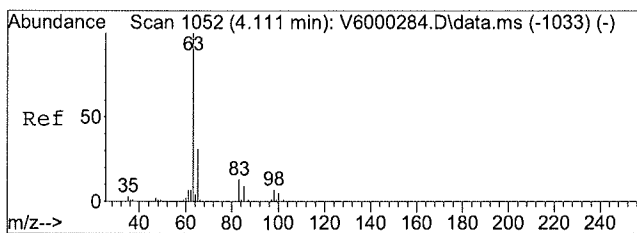
Tgt Ion: 62 Resp: 110068
 Ion Ratio Lower Upper
 62 100
 62 100.0 65.0 135.0
 64 33.2 20.9 43.3



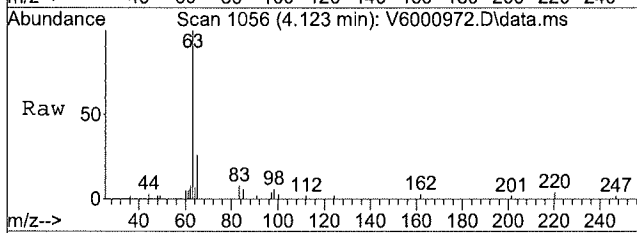
#19
 trans-1,2-Dichloroethylene
 Concen: 0.28 ppb
 RT: 3.736 min Scan# 917
 Delta R.T. 0.006 min
 Lab File: V6000972.D
 Acq: 2 Apr 2014 3:17 pm

Tgt Ion: 61 Resp: 3432
 Ion Ratio Lower Upper
 61 100
 61 100.0 65.0 135.0
 63 24.6 21.4 44.4
 96 69.6 48.3 100.3

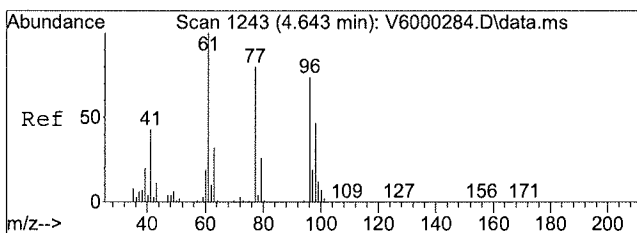
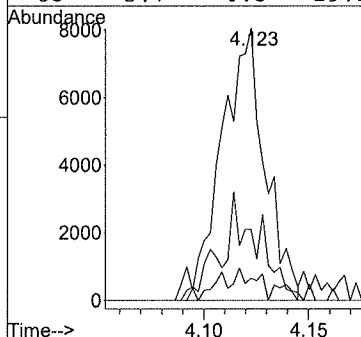
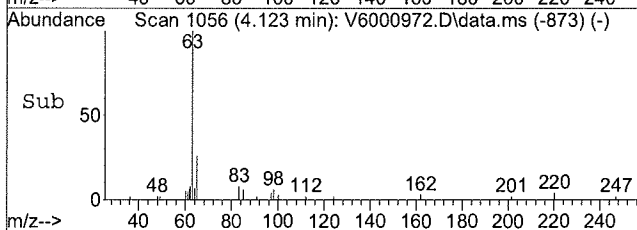




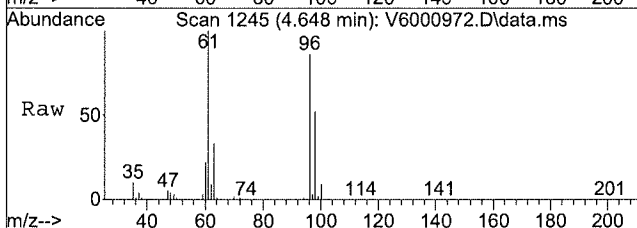
#21
1,1-Dichloroethane
Concen: 0.71 ppb
RT: 4.123 min Scan# 1056
Delta R.T. 0.008 min
Lab File: V6000972.D
Acq: 2 Apr 2014 3:17 pm



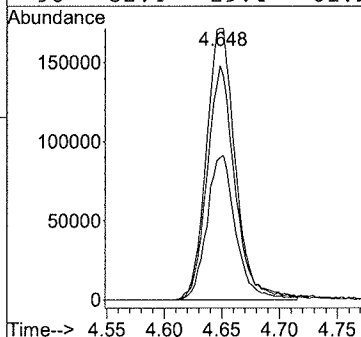
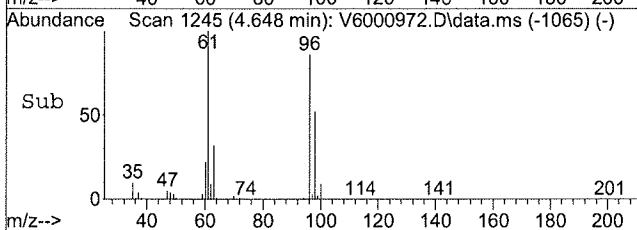
Tgt Ion: 63 Resp: 11713
Ion Ratio Lower Upper
63 100
63 100.0 65.0 135.0
65 24.9 20.7 43.1
83 5.7 6.3 19.1#

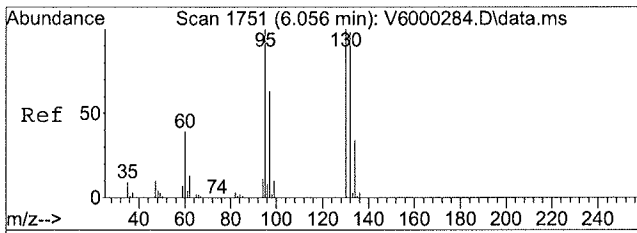


#25
cis-1,2-Dichloroethylene
Concen: 20.19 ppb
RT: 4.648 min Scan# 1245
Delta R.T. 0.000 min
Lab File: V6000972.D
Acq: 2 Apr 2014 3:17 pm

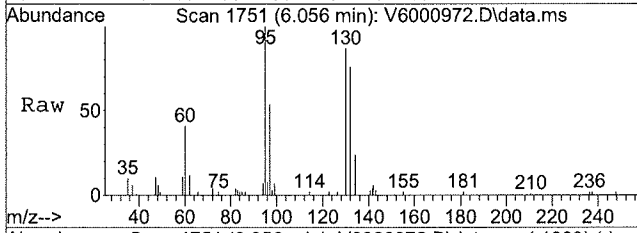


Tgt Ion: 61 Resp: 301907
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
96 82.6 45.9 95.3
98 52.4 29.4 61.2

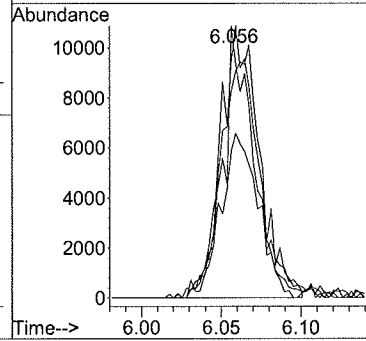
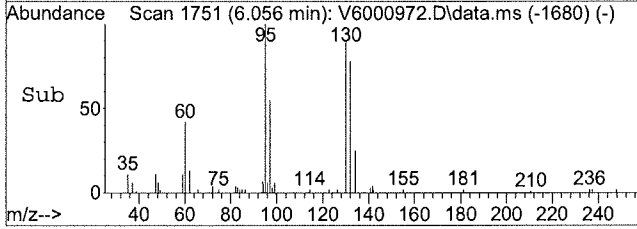




#41
 Trichloroethylene
 Concen: 1.35 ppb
 RT: 6.056 min Scan# 1751
 Delta R.T. -0.003 min
 Lab File: V6000972.D
 Acq: 2 Apr 2014 3:17 pm



Tgt Ion:	95	Resp:	15144
Ion	Ratio	Lower	Upper
95	100		
130	113.7	67.4	140.0
132	114.3	64.9	134.9
97	71.4	42.2	87.6



FORM I

ORGANIC ANALYSIS DATA SHEET

KC-MW-05 0314

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 14C0922-03 File ID: V6000973.D
 Sampled: 03/26/14 18:00 Prepared: 04/02/14 08:46 Analyzed: 04/02/14 15:46
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD40104 Sequence: Calibration: Instrument: MSVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.47	J
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.85	
75-35-4	1,1-Dichloroethylene	1	1.1	
563-58-6	1,1-Dichloropropylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
142-28-9	1,3-Dichloropropane	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
594-20-7	2,2-Dichloropropane	1	0.50	U
78-93-3	2-Butanone	1	0.50	U
95-49-8	2-Chlorotoluene	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
106-43-4	4-Chlorotoluene	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
71-43-2	Benzene	1	0.50	U
108-86-1	Bromobenzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

KC-MW-05 0314

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 14C0922-03 File ID: V6000974.D
 Sampled: 03/26/14 18:00 Prepared: 04/02/14 08:46 Analyzed: 04/02/14 15:46
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD40104 Sequence: Calibration: Instrument: MSVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	5	37	D
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
91-20-3	Naphthalene	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.58	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	5	110	D
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.4	104	81 - 123	
p-Bromofluorobenzene	10.0	9.68	96.8	70 - 128	
Toluene-d8	10.0	9.72	97.2	88 - 114	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000973.D
 Acq On : 2 Apr 2014 3:46 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 14C0922-03
 Misc : QBV6040214A 8260 RE
 ALS Vial : 14 Sample Multiplier: 1

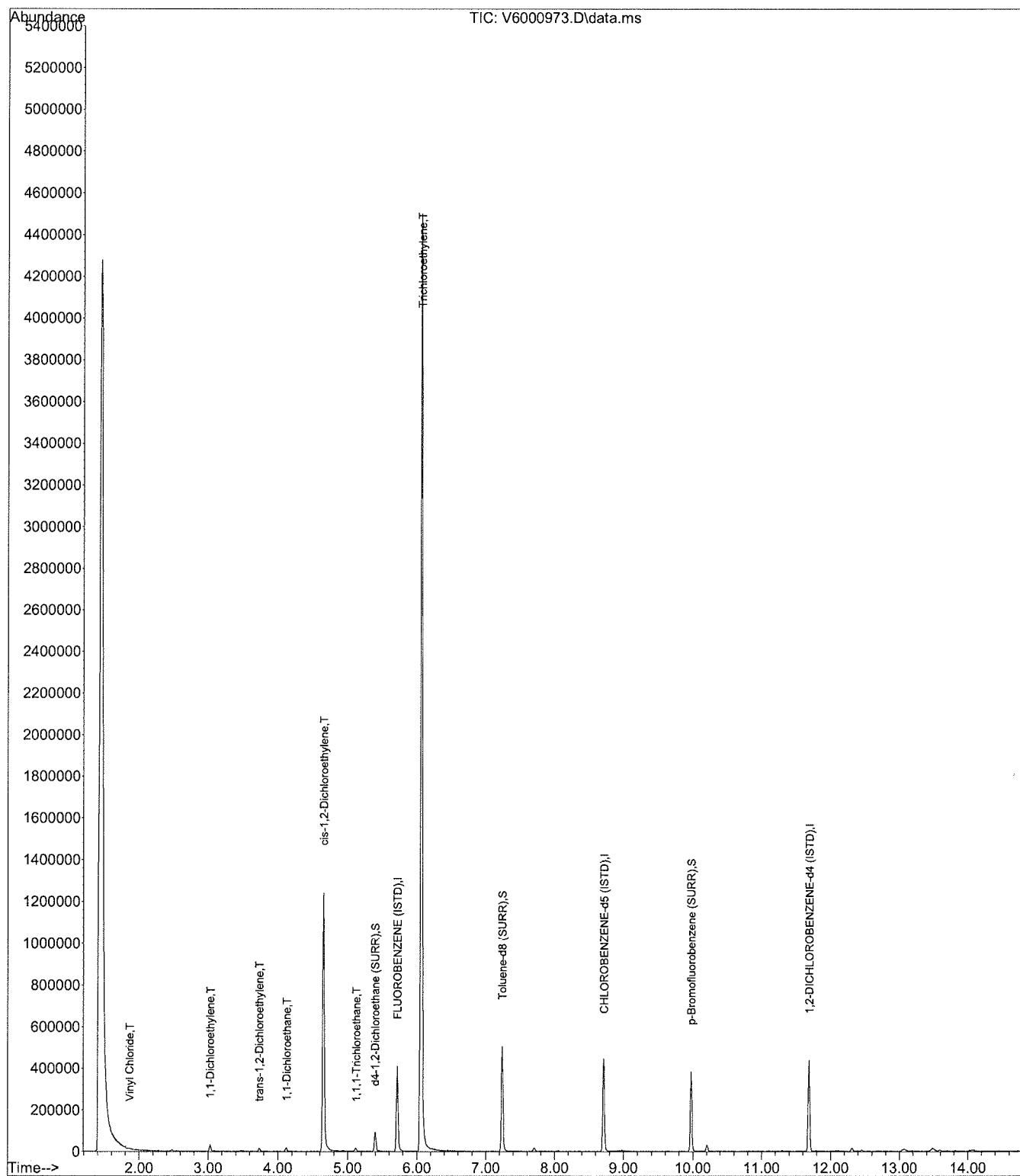
Quant Time: Apr 03 10:57:46 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:56:33 2014
 Response via : Initial Calibration

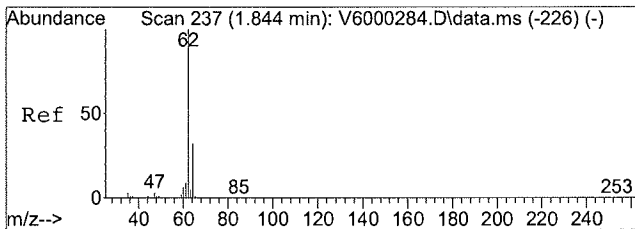
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.714	70	64161	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	8.716	117	260601	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.688	152	131429	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.394	65	62180	10.37	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.70%		
51) Toluene-d8 (SURR)	7.239	98	341053	9.72	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.20%		
70) p-Bromofluorobenzene (...)	9.971	95	125087	9.68	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.80%		
Target Compounds						
4) Vinyl Chloride	1.861	62	2102	0.22	ppb	Qvalue 100
10) 1,1-Dichloroethylene	3.027	61	16360	1.14	ppb	# 64
19) trans-1,2-Dichloroethy...	3.730	61	7201	0.58	ppb	# 59
21) 1,1-Dichloroethane	4.123	63	14136	0.85	ppb	# 86
25) cis-1,2-Dichloroethylene	4.649	61	628844	41.61	ppb	# 81
31) 1,1,1-Trichloroethane	5.122	97	7977	0.47	ppb	# 80
41) Trichloroethylene	6.065	95	1358788	118.75	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\040214\
Data File : V6000973.D
Acq On : 2 Apr 2014 3:46 pm
InstName : MSVOA6
Operator : SS
Sample : 14C0922-03
Misc : QBV6040214A 8260 RE
ALS Vial : 14 Sample Multiplier: 1

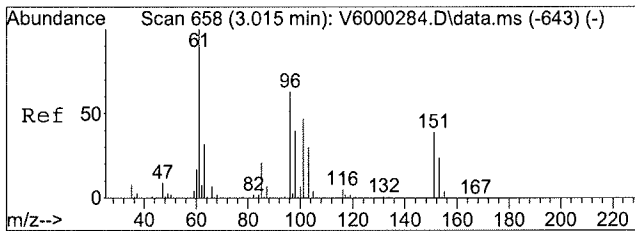
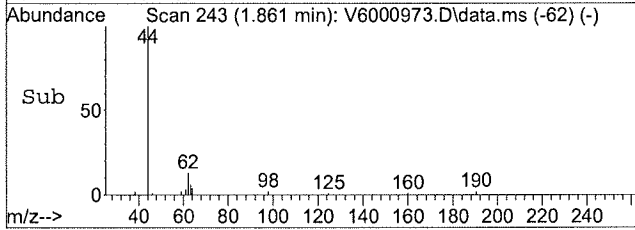
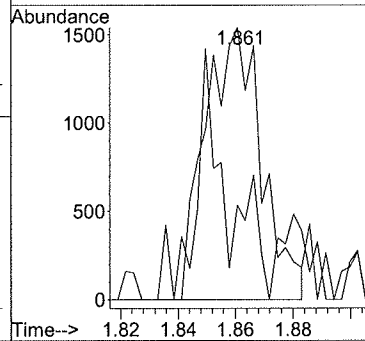
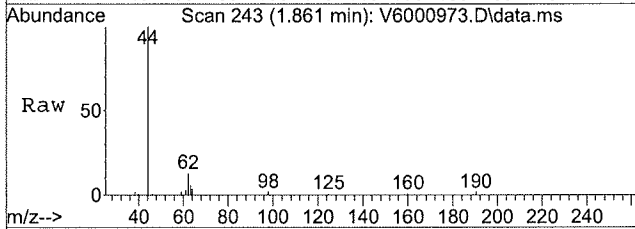
Quant Time: Apr 03 10:57:46 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:56:33 2014
Response via : Initial Calibration





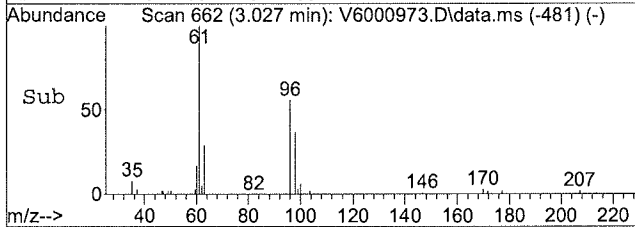
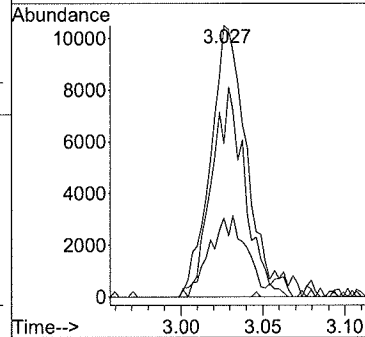
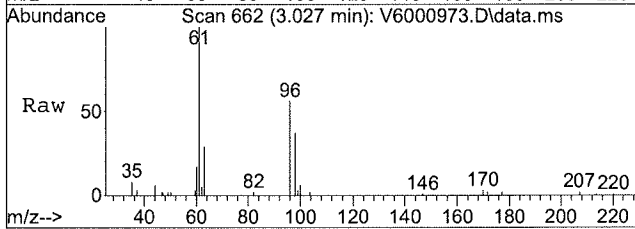
#4
 Vinyl Chloride
 Concen: 0.22 ppb
 RT: 1.861 min Scan# 243
 Delta R.T. 0.003 min
 Lab File: V6000973.D
 Acq: 2 Apr 2014 3:46 pm

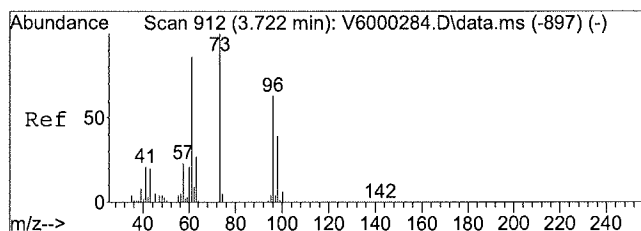
Tgt Ion: 62 Resp: 2102
 Ion Ratio Lower Upper
 62 100
 62 100.0 65.0 135.0
 64 33.2 20.9 43.3



#10
 1,1-Dichloroethylene
 Concen: 1.14 ppb
 RT: 3.027 min Scan# 662
 Delta R.T. 0.003 min
 Lab File: V6000973.D
 Acq: 2 Apr 2014 3:46 pm

Tgt Ion: 61 Resp: 16360
 Ion Ratio Lower Upper
 61 100
 96 69.0 40.4 84.0
 101 0.2 39.6 82.3#
 63 29.4 20.7 43.1

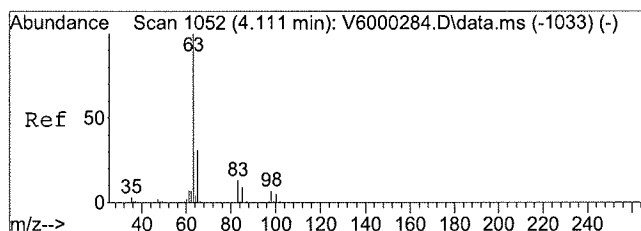
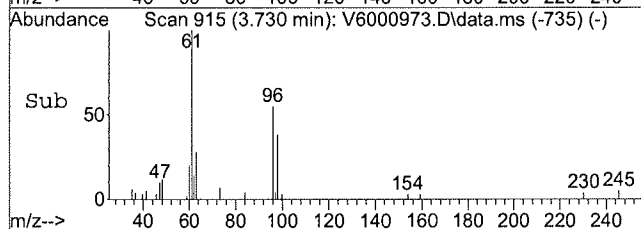
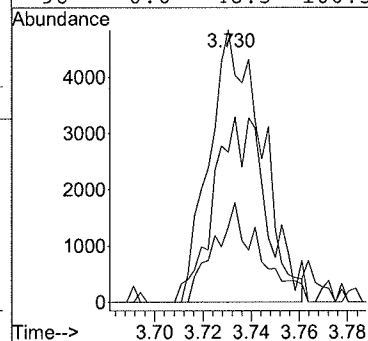
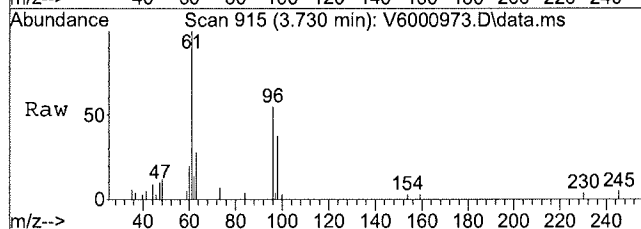




#19
trans-1,2-Dichloroethylene
Concen: 0.58 ppb
RT: 3.730 min Scan# 915
Delta R.T. 0.000 min
Lab File: V6000973.D
Acq: 2 Apr 2014 3:46 pm

Tgt Ion: 61 Resp: 7201

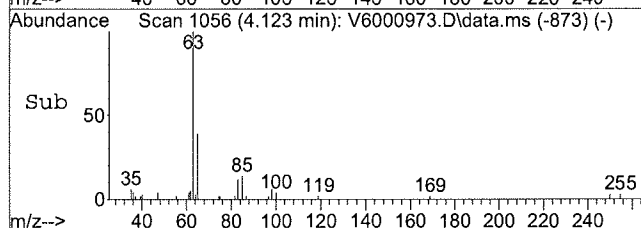
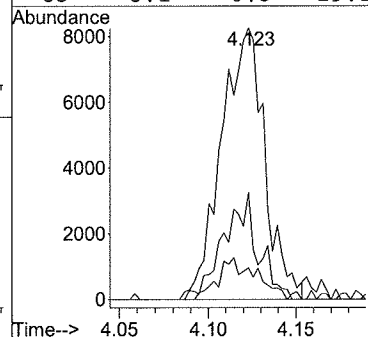
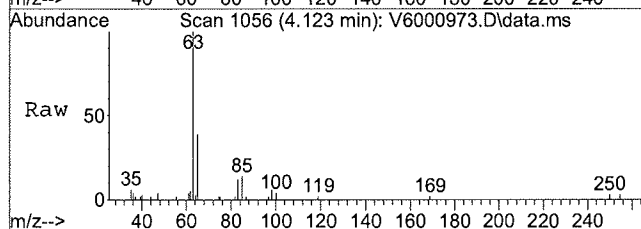
Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	0.0	21.4	44.4#
96	0.0	48.3	100.3#

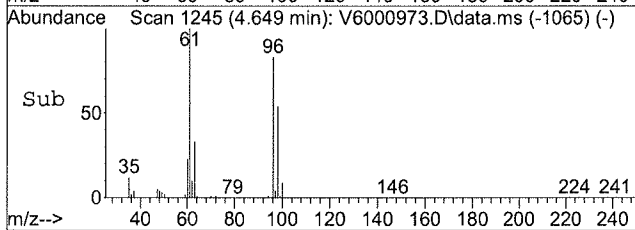
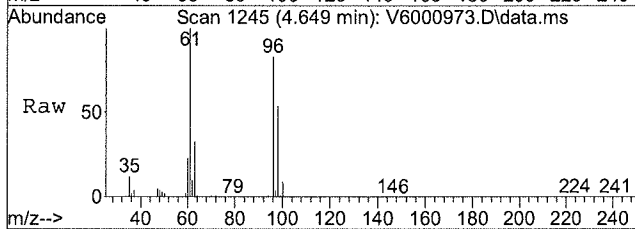
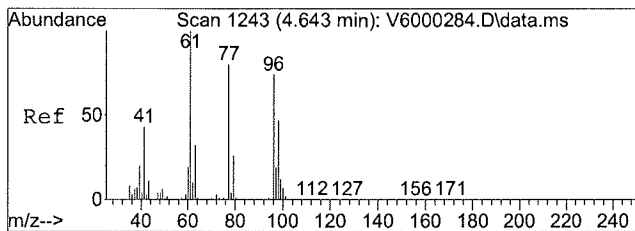


#21
1,1-Dichloroethane
Concen: 0.85 ppb
RT: 4.123 min Scan# 1056
Delta R.T. 0.009 min
Lab File: V6000973.D
Acq: 2 Apr 2014 3:46 pm

Tgt Ion: 63 Resp: 14136

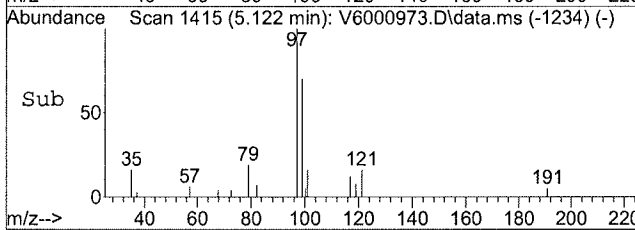
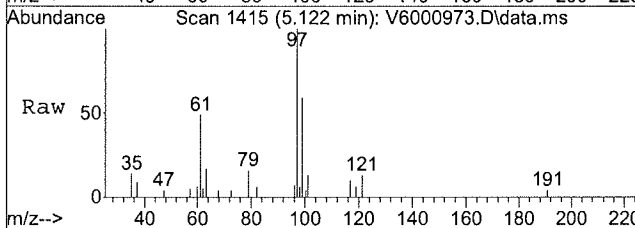
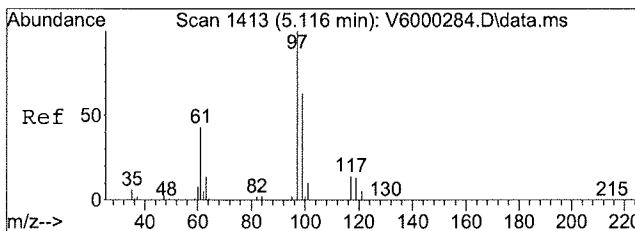
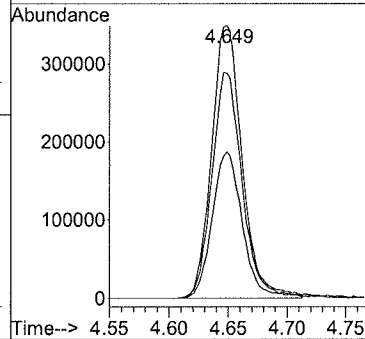
Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	0.0	20.7	43.1#
83	8.1	6.3	19.1





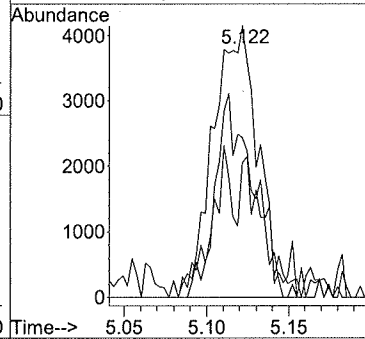
#25
cis-1,2-Dichloroethylene
Concen: 41.61 ppb
RT: 4.649 min Scan# 1245
Delta R.T. 0.000 min
Lab File: V6000973.D
Acq: 2 Apr 2014 3:46 pm

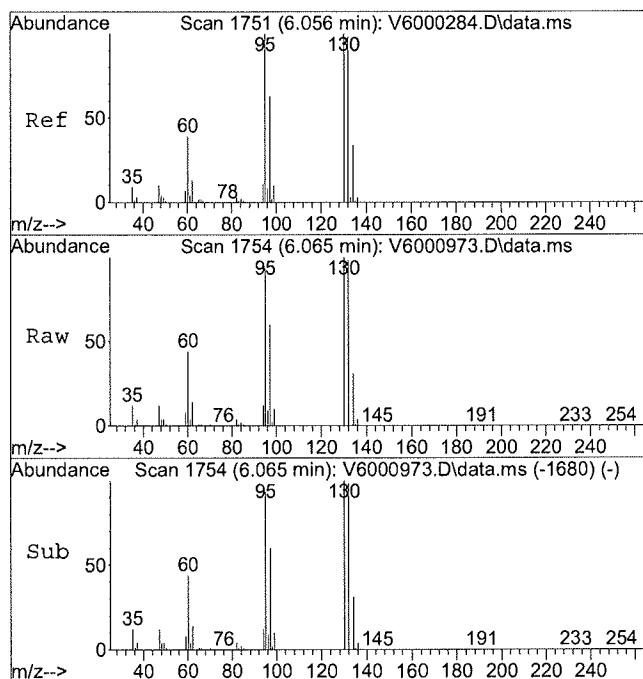
Tgt Ion: 61 Resp: 628844
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
96 81.5 45.9 95.3
98 0.0 29.4 61.2#



#31
1,1,1-Trichloroethane
Concen: 0.47 ppb
RT: 5.122 min Scan# 1415
Delta R.T. 0.003 min
Lab File: V6000973.D
Acq: 2 Apr 2014 3:46 pm

Tgt Ion: 97 Resp: 7977
Ion Ratio Lower Upper
97 100
97 100.0 65.0 135.0
99 60.5 0.0 0.0#
61 0.0 27.6 57.4#

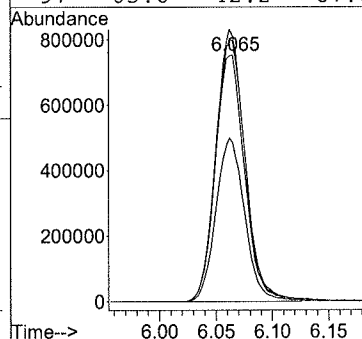




#41
 Trichloroethylene
 Concen: 118.75 ppb
 RT: 6.065 min Scan# 1754
 Delta R.T. 0.006 min
 Lab File: V6000973.D
 Acq: 2 Apr 2014 3:46 pm

Tgt Ion: 95 Resp: 1358788

Ion	Ratio	Lower	Upper
95	100		
130	111.1	67.4	140.0
132	107.2	64.9	134.9
97	65.6	42.2	87.6



Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000974.D
 Acq On : 2 Apr 2014 4:15 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 14C0922-03RE1
 Misc : QBV6040214A 8260 10ML/50ML
 ALS Vial : 15 Sample Multiplier: 5

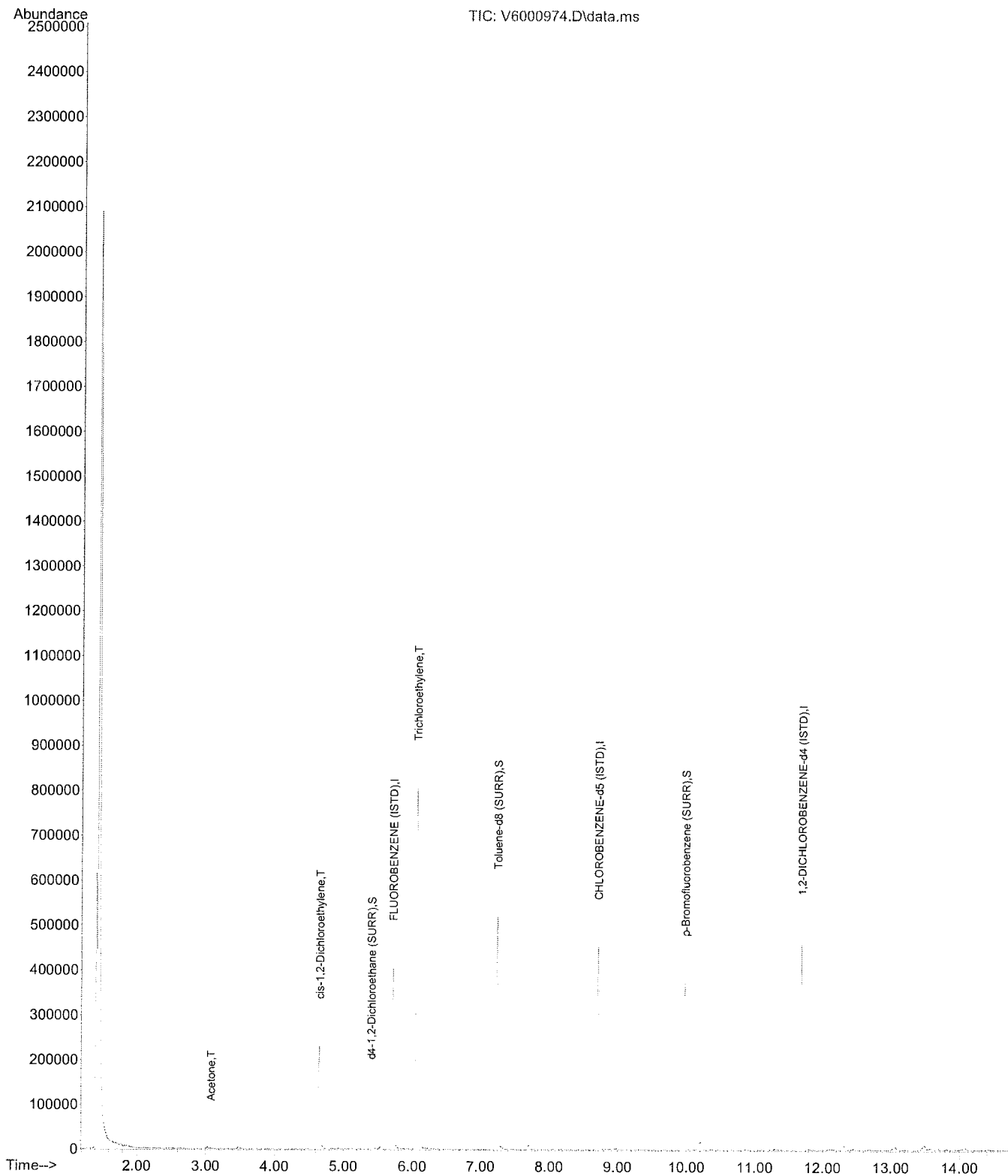
Quant Time: Apr 03 10:55:41 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:56:33 2014
 Response via : Initial Calibration

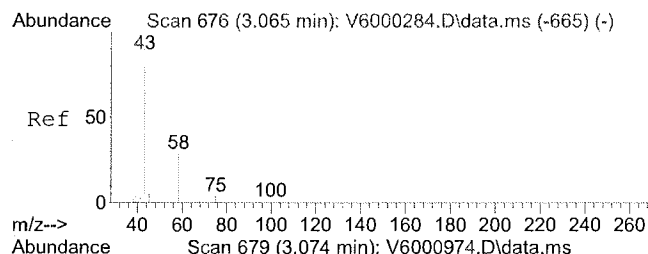
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.714	70	64766	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	8.713	117	258207	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.685	152	130279	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.400	65	63009	10.41	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	104.10%	
51) Toluene-d8 (SURR)	7.236	98	346044	9.95	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.50%	
70) p-Bromofluorobenzene (...)	9.974	95	125726	9.82	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.20%	
Target Compounds						Qvalue
12) Acetone	3.074	43	1477	0.74	ppb	97
25) cis-1,2-Dichloroethylene	4.648	61	112861	7.40	ppb	94
41) Trichloroethylene	6.062	95	240597	21.22	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\040214\
Data File : V6000974.D
Acq On : 2 Apr 2014 4:15 pm
InstName : MSVOA6
Operator : SS
Sample : 14C0922-03RE1
Misc : QBV6040214A 8260 10ML/50ML
ALS Vial : 15 Sample Multiplier: 5

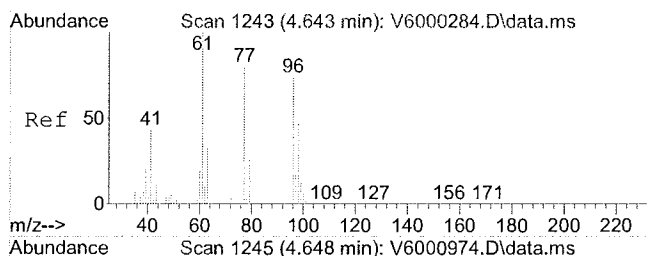
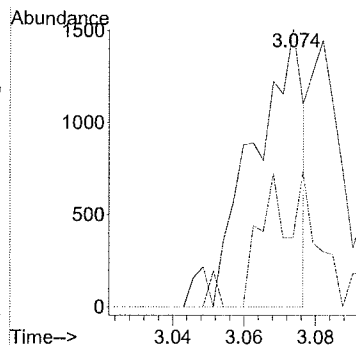
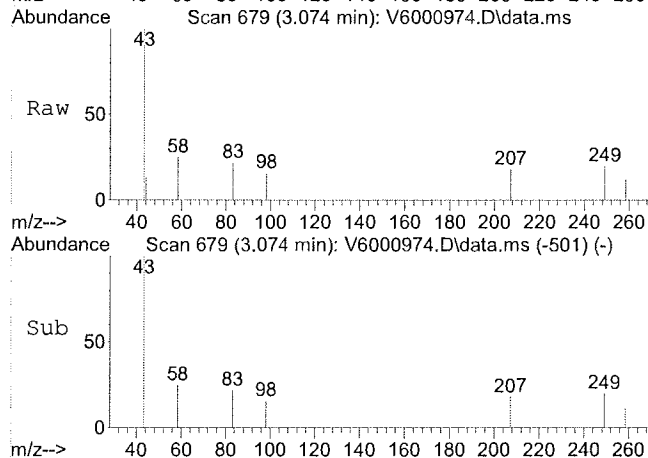
Quant Time: Apr 03 10:55:41 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:56:33 2014
Response via : Initial Calibration





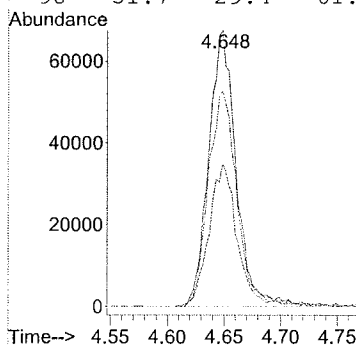
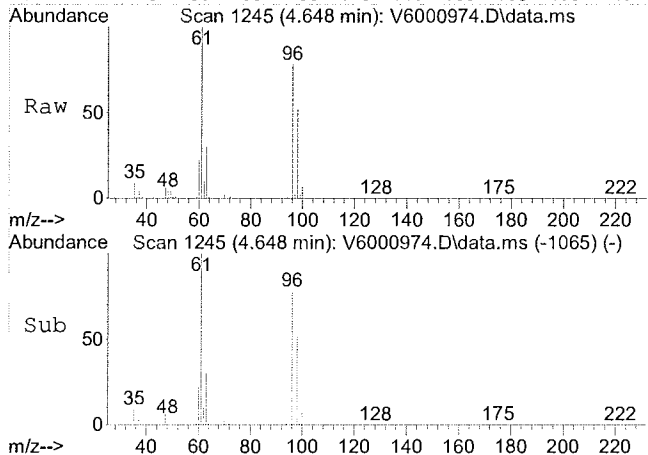
#12
Acetone
Concen: 0.74 ppb
RT: 3.074 min Scan# 679
Delta R.T. -0.005 min
Lab File: V6000974.D
Acq: 2 Apr 2014 4:15 pm

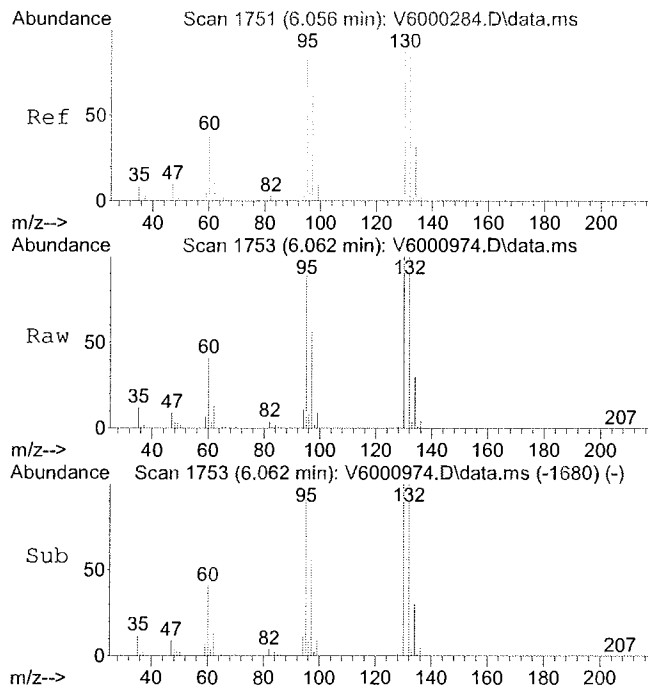
Tgt Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	26.1	16.7	50.0



#25
cis-1,2-Dichloroethylene
Concen: 7.40 ppb
RT: 4.648 min Scan# 1245
Delta R.T. 0.000 min
Lab File: V6000974.D
Acq: 2 Apr 2014 4:15 pm

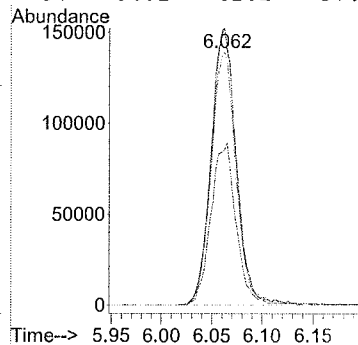
Tgt Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	81.4	45.9	95.3
98	51.7	29.4	61.2





#41
 Trichloroethylene
 Concen: 21.22 ppb
 RT: 6.062 min Scan# 1753
 Delta R.T. 0.003 min
 Lab File: V6000974.D
 Acq: 2 Apr 2014 4:15 pm

Tgt Ion	95	130	132	97
Resp:	240597			
Ion Ratio	100	110.8	106.4	64.1
Lower		67.4	64.9	42.2
Upper		140.0	134.9	87.6



FORM I

ORGANIC ANALYSIS DATA SHEET

KC-FD-01

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 14C0922-04 File ID: V6000975.D
 Sampled: 03/26/14 15:00 Prepared: 04/02/14 08:46 Analyzed: 04/02/14 16:44
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD40104 Sequence: Calibration: Instrument: MSVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	2	1.0	U
71-55-6	1,1,1-Trichloroethane	2	1.4	D
79-34-5	1,1,2,2-Tetrachloroethane	2	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	2	1.0	U
79-00-5	1,1,2-Trichloroethane	2	1.0	U
75-34-3	1,1-Dichloroethane	2	1.4	D
75-35-4	1,1-Dichloroethylene	2	0.50	JD
563-58-6	1,1-Dichloropropylene	2	1.0	U
87-61-6	1,2,3-Trichlorobenzene	2	1.0	U
96-18-4	1,2,3-Trichloropropane	2	1.0	U
120-82-1	1,2,4-Trichlorobenzene	2	1.0	U
95-63-6	1,2,4-Trimethylbenzene	2	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2	1.0	U
106-93-4	1,2-Dibromoethane	2	1.0	U
95-50-1	1,2-Dichlorobenzene	2	1.0	U
107-06-2	1,2-Dichloroethane	2	1.0	U
78-87-5	1,2-Dichloropropane	2	1.0	U
108-67-8	1,3,5-Trimethylbenzene	2	1.0	U
541-73-1	1,3-Dichlorobenzene	2	1.0	U
142-28-9	1,3-Dichloropropane	2	1.0	U
106-46-7	1,4-Dichlorobenzene	2	1.0	U
594-20-7	2,2-Dichloropropane	2	1.0	U
78-93-3	2-Butanone	2	1.0	U
95-49-8	2-Chlorotoluene	2	1.0	U
591-78-6	2-Hexanone	2	1.0	U
106-43-4	4-Chlorotoluene	2	1.0	U
108-10-1	4-Methyl-2-pentanone	2	1.0	U
67-64-1	Acetone	2	4.0	U
71-43-2	Benzene	2	1.0	U
108-86-1	Bromobenzene	2	1.0	U
74-97-5	Bromochloromethane	2	1.0	U
75-27-4	Bromodichloromethane	2	1.0	U
75-25-2	Bromoform	2	1.0	U
74-83-9	Bromomethane	2	1.0	U
75-15-0	Carbon disulfide	2	1.0	U
56-23-5	Carbon tetrachloride	2	1.0	U
108-90-7	Chlorobenzene	2	1.0	U
75-00-3	Chloroethane	2	1.0	U
67-66-3	Chloroform	2	1.0	U
74-87-3	Chloromethane	2	1.0	U

FORM I

ORGANIC ANALYSIS DATA SHEET

KC-FD-01

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 14C0922-04 File ID: V6000976.D
 Sampled: 03/26/14 15:00 Prepared: 04/02/14 08:46 Analyzed: 04/02/14 16:44
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD40104 Sequence: Calibration: Instrument: MSVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	10	210	D
10061-01-5	cis-1,3-Dichloropropylene	2	1.0	U
124-48-1	Dibromochloromethane	2	1.0	U
74-95-3	Dibromomethane	2	1.0	U
75-71-8	Dichlorodifluoromethane	2	1.0	U
100-41-4	Ethyl Benzene	2	1.0	U
87-68-3	Hexachlorobutadiene	2	1.0	U
98-82-8	Isopropylbenzene	2	1.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	2	1.0	U
75-09-2	Methylene chloride	2	4.0	U
91-20-3	Naphthalene	2	4.0	U
104-51-8	n-Butylbenzene	2	1.0	U
103-65-1	n-Propylbenzene	2	1.0	U
95-47-6	o-Xylene	2	1.0	U
179601-23-1	p- & m- Xylenes	2	2.0	U
99-87-6	p-Isopropyltoluene	2	1.0	U
135-98-8	sec-Butylbenzene	2	1.0	U
100-42-5	Styrene	2	1.0	U
98-06-6	tert-Butylbenzene	2	1.0	U
127-18-4	Tetrachloroethylene	2	1.0	U
108-88-3	Toluene	2	1.0	U
156-60-5	trans-1,2-Dichloroethylene	2	6.6	D
10061-02-6	trans-1,3-Dichloropropylene	2	1.0	U
79-01-6	Trichloroethylene	10	250	D
75-69-4	Trichlorofluoromethane	2	1.0	U
75-01-4	Vinyl Chloride	2	30	D
1330-20-7	Xylenes, Total	2	3.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.8	108	81 - 123	
p-Bromofluorobenzene	10.0	9.89	98.9	70 - 128	
Toluene-d8	10.0	9.77	97.7	88 - 114	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000975.D
 Acq On : 2 Apr 2014 4:44 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 14C0922-04
 Misc : QBV6040214A 8260 RE 25ML/50ML
 ALS Vial : 16 Sample Multiplier: 2

Quant Time: Apr 03 10:59:40 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:56:33 2014
 Response via : Initial Calibration

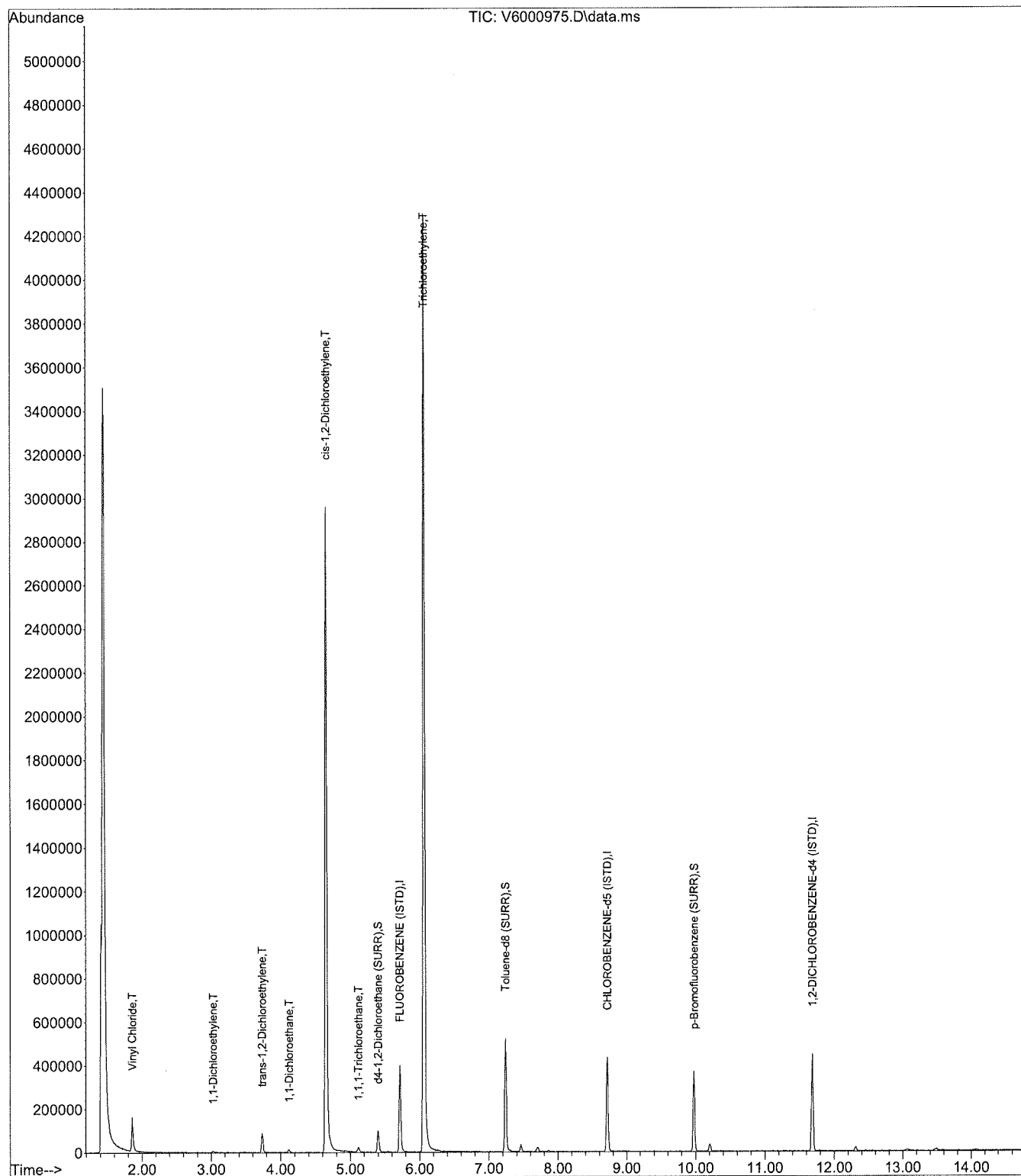
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

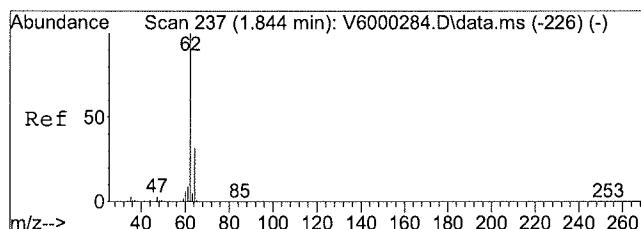
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.711	70	63535	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.713	117	258507	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.685	152	128118	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.397	65	64205	10.82	ppb	0.00
Spiked Amount 10.000	Range	70 - 130	Recovery	=	108.20%	
51) Toluene-d8 (SURR)	7.239	98	340257	9.77	ppb	0.00
Spiked Amount 10.000	Range	70 - 130	Recovery	=	97.70%	
70) p-Bromofluorobenzene (...)	9.977	95	124560	9.89	ppb	0.00
Spiked Amount 10.000	Range	70 - 130	Recovery	=	98.90%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.855	62	138947	14.80	ppb	100
10) 1,1-Dichloroethylene	3.027	61	3596	0.25	ppb	# 61
19) trans-1,2-Dichloroethy...	3.733	61	40783	3.30	ppb	98
21) 1,1-Dichloroethane	4.120	63	11456	0.69	ppb	# 97
25) cis-1,2-Dichloroethylene	4.649	61	1531130	102.32	ppb	94
31) 1,1,1-Trichloroethane	5.116	97	11693	0.69	ppb	# 80
41) Trichloroethylene	6.062	95	1307785	115.22	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\040214\
Data File : V6000975.D
Acq On : 2 Apr 2014 4:44 pm
InstName : MSVOA6
Operator : SS
Sample : 14C0922-04
Misc : QBV6040214A 8260 RE 25ML/50ML
ALS Vial : 16 Sample Multiplier: 2

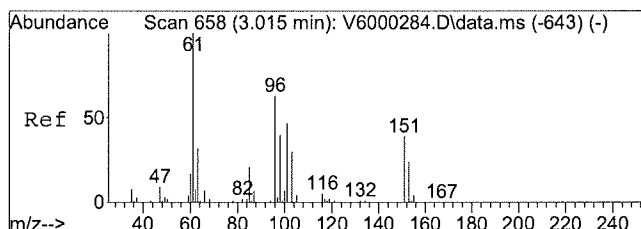
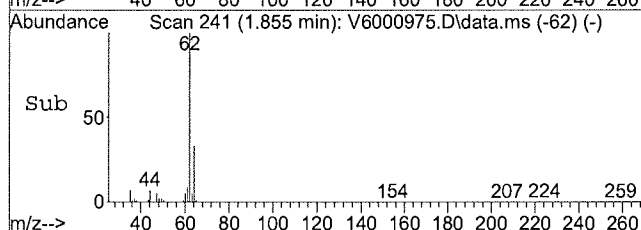
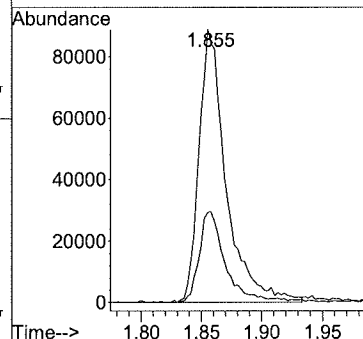
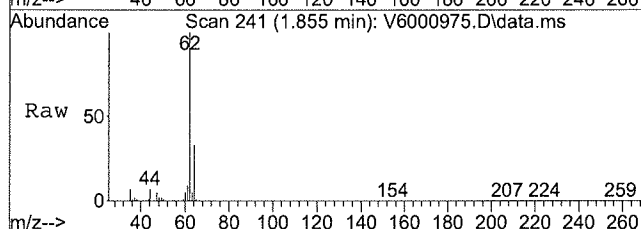
Quant Time: Apr 03 10:59:40 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:56:33 2014
Response via : Initial Calibration





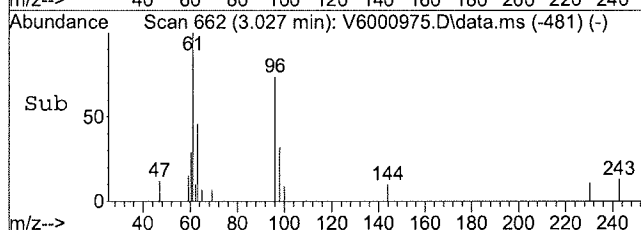
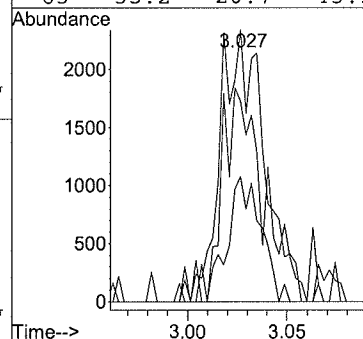
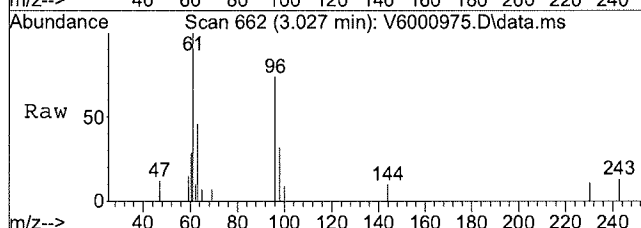
#4
 Vinyl Chloride
 Concen: 14.80 ppb
 RT: 1.855 min Scan# 241
 Delta R.T. -0.003 min
 Lab File: V6000975.D
 Acq: 2 Apr 2014 4:44 pm

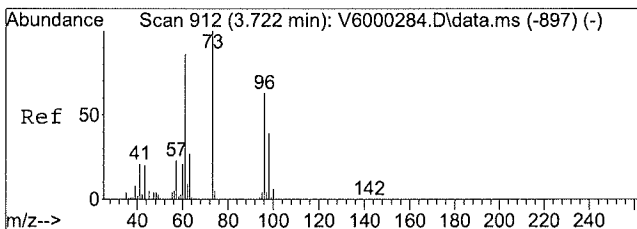
Tgt Ion: 62 Resp: 138947
 Ion Ratio Lower Upper
 62 100
 62 100.0 65.0 135.0
 64 31.3 20.9 43.3



#10
 1,1-Dichloroethylene
 Concen: 0.25 ppb
 RT: 3.027 min Scan# 662
 Delta R.T. 0.003 min
 Lab File: V6000975.D
 Acq: 2 Apr 2014 4:44 pm

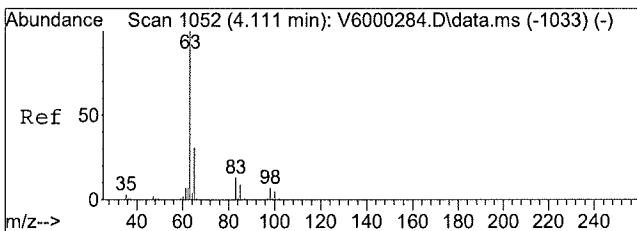
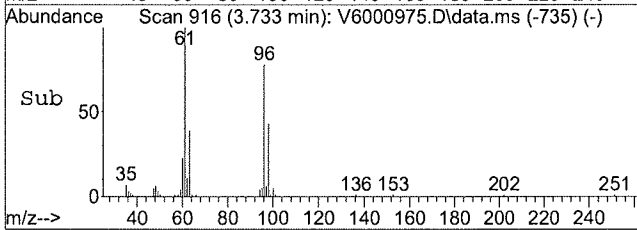
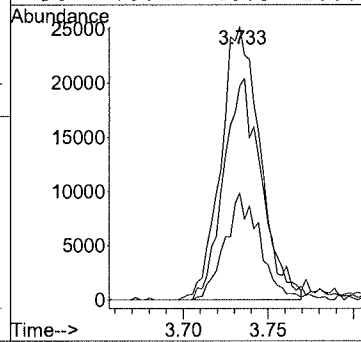
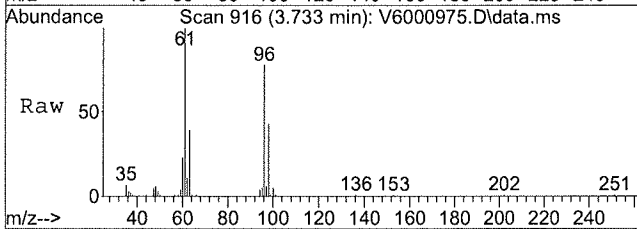
Tgt Ion: 61 Resp: 3596
 Ion Ratio Lower Upper
 61 100
 96 74.5 40.4 84.0
 101 0.0 39.6 82.3#
 63 35.2 20.7 43.1





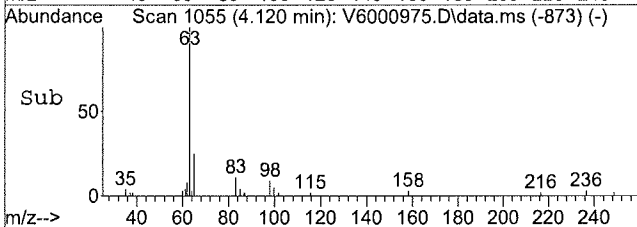
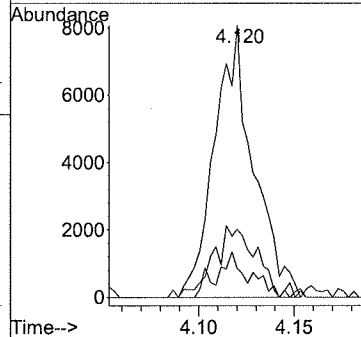
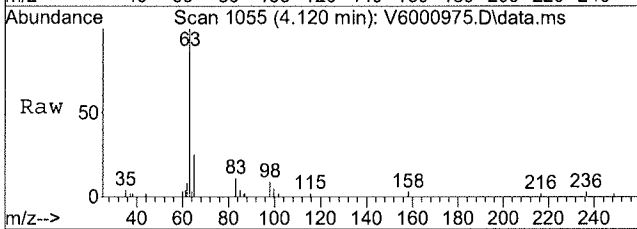
#19
trans-1,2-Dichloroethylene
Concen: 3.30 ppb
RT: 3.733 min Scan# 916
Delta R.T. 0.003 min
Lab File: V6000975.D
Acq: 2 Apr 2014 4:44 pm

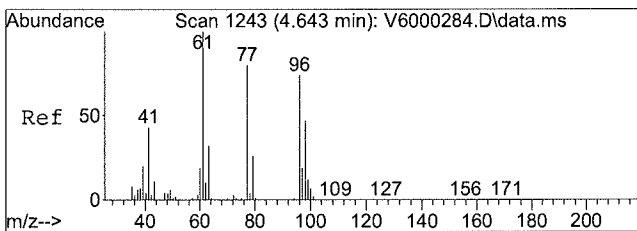
Tgt Ion: 61 Resp: 40783
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
63 34.7 21.4 44.4
96 78.7 48.3 100.3



#21
1,1-Dichloroethane
Concen: 0.69 ppb
RT: 4.120 min Scan# 1055
Delta R.T. 0.006 min
Lab File: V6000975.D
Acq: 2 Apr 2014 4:44 pm

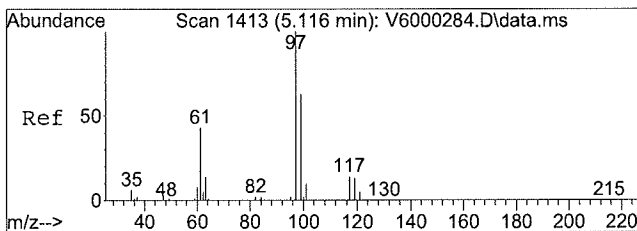
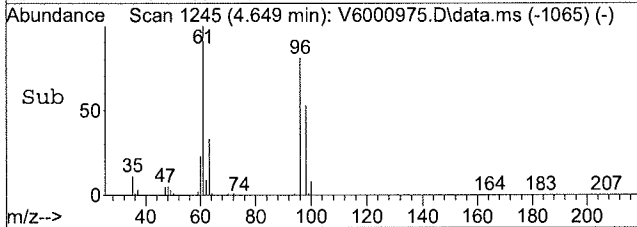
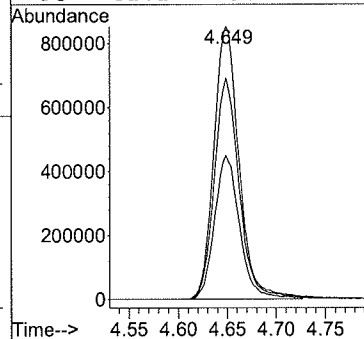
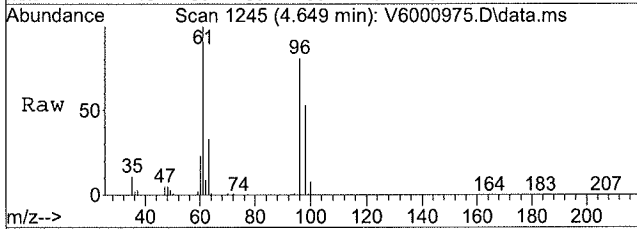
Tgt Ion: 63 Resp: 11456
Ion Ratio Lower Upper
63 100
63 100.0 65.0 135.0
65 28.0 20.7 43.1
83 4.9 6.3 19.1#





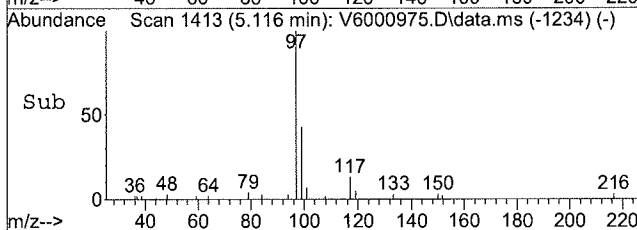
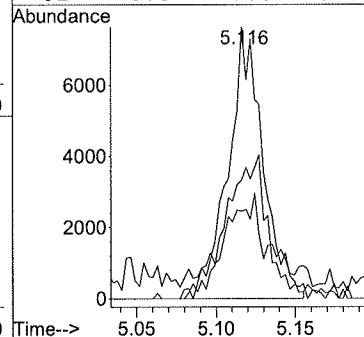
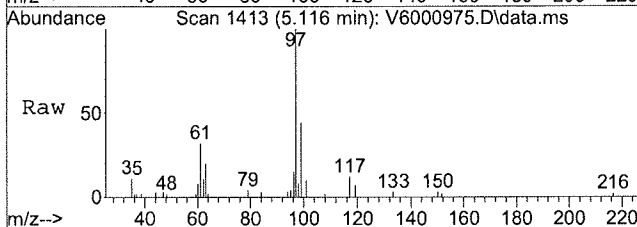
#25
 cis-1,2-Dichloroethylene
 Concen: 102.32 ppb
 RT: 4.649 min Scan# 1245
 Delta R.T. 0.000 min
 Lab File: V6000975.D
 Acq: 2 Apr 2014 4:44 pm

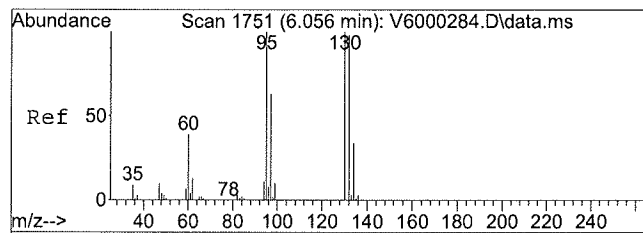
Tgt Ion: 61 Resp: 1531130
 Ion Ratio Lower Upper
 61 100
 61 100.0 65.0 135.0
 96 80.3 45.9 95.3
 98 52.2 29.4 61.2



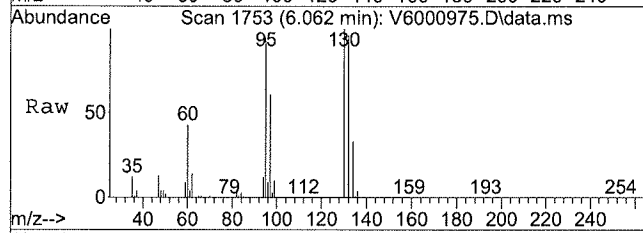
#31
 1,1,1-Trichloroethane
 Concen: 0.69 ppb
 RT: 5.116 min Scan# 1413
 Delta R.T. -0.003 min
 Lab File: V6000975.D
 Acq: 2 Apr 2014 4:44 pm

Tgt Ion: 97 Resp: 11693
 Ion Ratio Lower Upper
 97 100
 97 100.0 65.0 135.0
 99 0.0 0.0 0.0
 61 0.0 27.6 57.4#



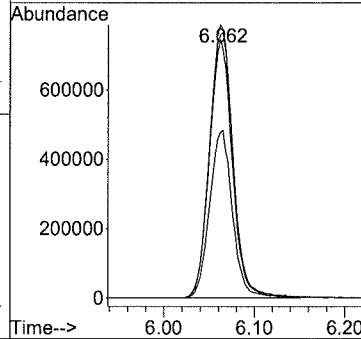
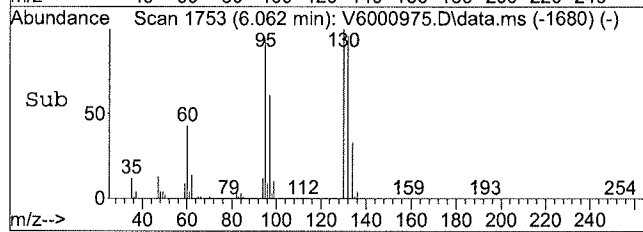


#41
 Trichloroethylene
 Concen: 115.22 ppb
 RT: 6.062 min Scan# 1753
 Delta R.T. 0.003 min
 Lab File: V6000975.D
 Acq: 2 Apr 2014 4:44 pm



Tgt Ion: 95 Resp: 1307785

Ion	Ratio	Lower	Upper
95	100		
130	109.4	67.4	140.0
132	106.1	64.9	134.9
97	65.3	42.2	87.6



Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000976.D
 Acq On : 2 Apr 2014 5:14 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 14C0922-04RE1
 Misc : QBV6040214A 8260 RE 5ML/50ML
 ALS Vial : 17 Sample Multiplier: 10

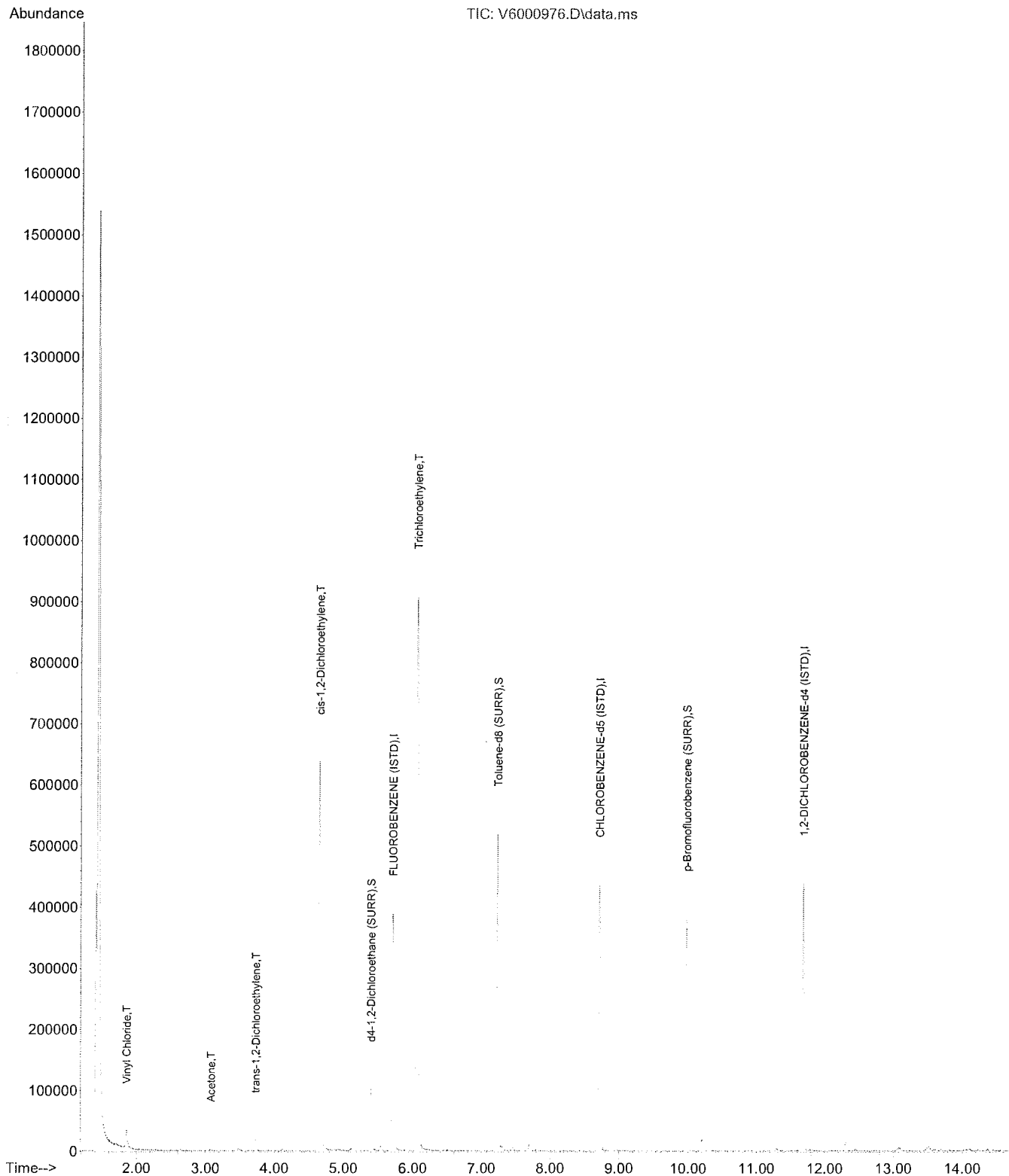
Quant Time: Apr 03 11:00:49 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:56:33 2014
 Response via : Initial Calibration

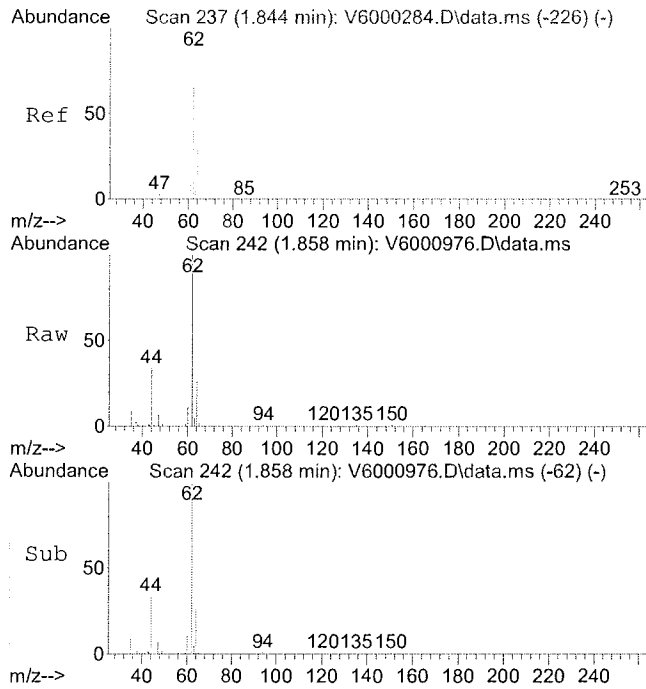
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.714	70	64030	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.713	117	253282	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.685	152	126543	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.397	65	62224	10.40	ppb	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	104.00%	
51) Toluene-d8 (SURR)	7.236	98	344305	10.09	ppb	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	100.90%	
70) p-Bromofluorobenzene (...)	9.974	95	123338	9.91	ppb	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.10%	
Target Compounds						
4) Vinyl Chloride	1.858	62	25196	2.66	ppb	Qvalue # 86
12) Acetone	3.079	43	1771	0.90	ppb	97
19) trans-1,2-Dichloroethy...	3.730	61	8465	0.68	ppb	93
25) cis-1,2-Dichloroethylene	4.649	61	322341	21.37	ppb	93
28) Tetrahydrofuran	4.927	71	34	Below	Cal	# 1
41) Trichloroethylene	6.062	95	275141	24.74	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\040214\
Data File : V6000976.D
Acq On : 2 Apr 2014 5:14 pm
InstName : MSVOA6
Operator : SS
Sample : 14C0922-04RE1
Misc : QBV6040214A 8260 RE 5ML/50ML
ALS Vial : 17 Sample Multiplier: 10

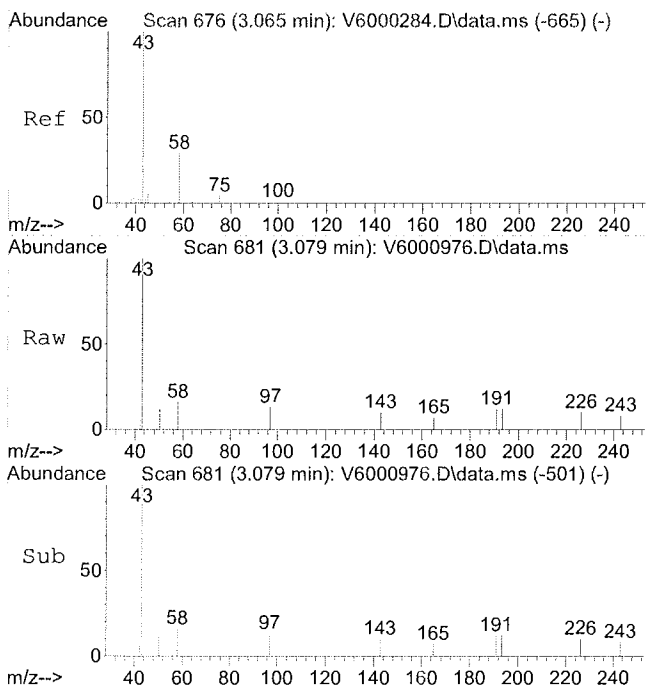
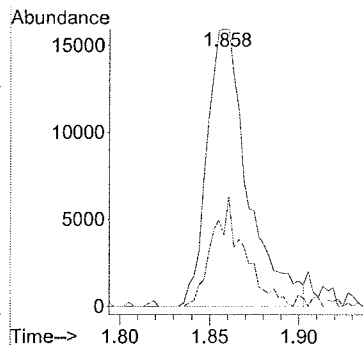
Quant Time: Apr 03 11:00:49 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:56:33 2014
Response via : Initial Calibration





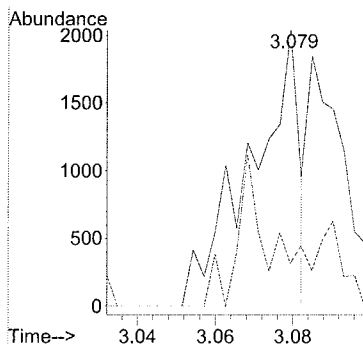
#4
Vinyl Chloride
Concen: 2.66 ppb
RT: 1.858 min Scan# 242
Delta R.T. 0.000 min
Lab File: V6000976.D
Acq: 2 Apr 2014 5:14 pm

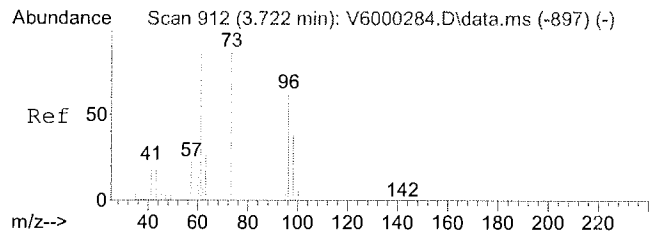
Tgt Ion	Ratio	Lower	Upper
62	100		
62	100.0	65.0	135.0
64	0.0	20.9	43.3#



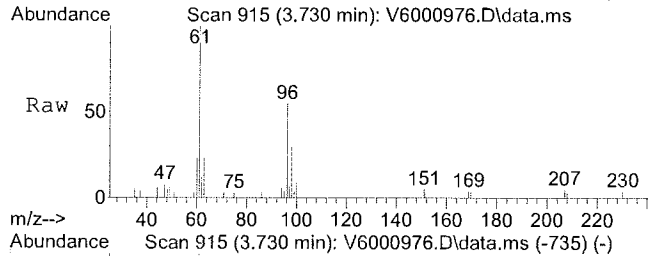
#12
Acetone
Concen: 0.90 ppb
RT: 3.079 min Scan# 681
Delta R.T. 0.000 min
Lab File: V6000976.D
Acq: 2 Apr 2014 5:14 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	25.7	16.7	50.0

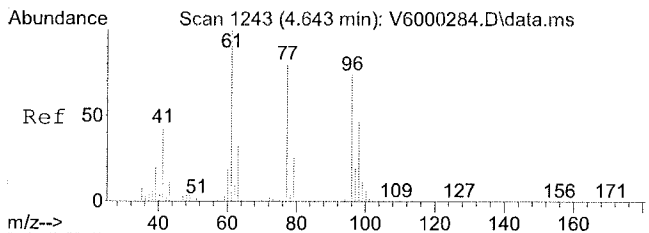
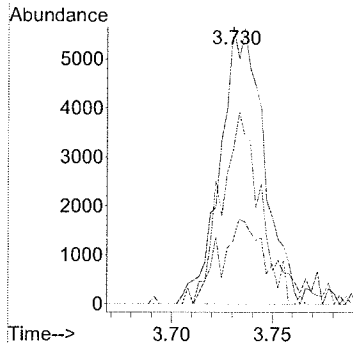
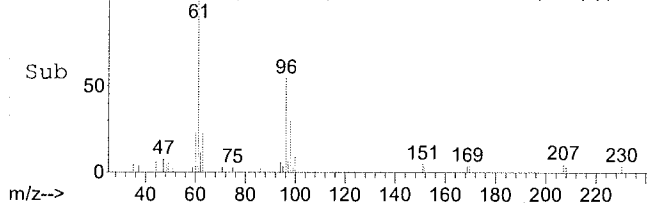




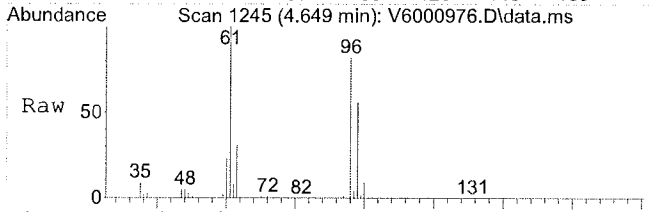
#19
trans-1,2-Dichloroethylene
Concen: 0.68 ppb
RT: 3.730 min Scan# 915
Delta R.T. 0.000 min
Lab File: V6000976.D
Acq: 2 Apr 2014 5:14 pm



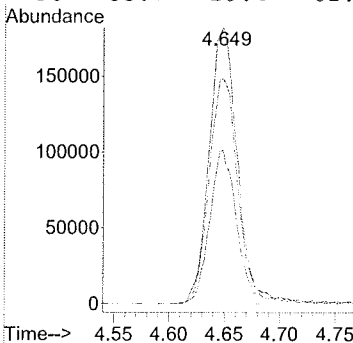
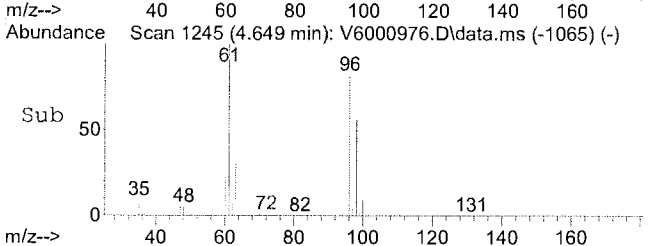
Tgt Ion: 61 Resp: 8465
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
63 24.9 21.4 44.4
96 64.2 48.3 100.3



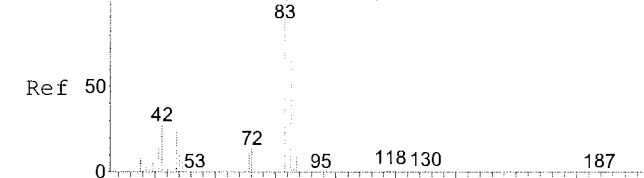
#25
cis-1,2-Dichloroethylene
Concen: 21.37 ppb
RT: 4.649 min Scan# 1245
Delta R.T. 0.000 min
Lab File: V6000976.D
Acq: 2 Apr 2014 5:14 pm



Tgt Ion: 61 Resp: 322341
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
96 82.5 45.9 95.3
98 53.7 29.4 61.2



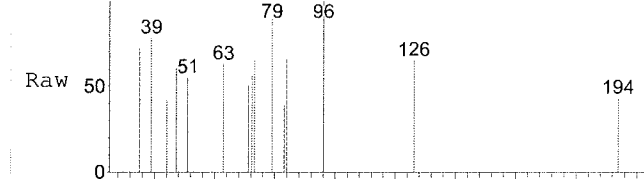
Abundance Scan 1342 (4.918 min): V6000284.D\data.ms



#28

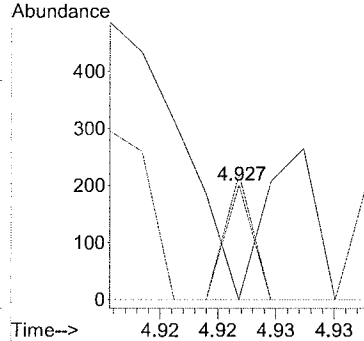
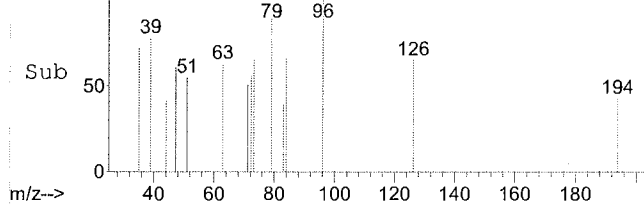
Tetrahydrofuran
Concen: Below Cal
RT: 4.927 min Scan# 1345
Delta R.T. 0.006 min
Lab File: V6000976.D
Acq: 2 Apr 2014 5:14 pm

Ref 50
m/z--> Scan 1345 (4.927 min): V6000976.D\data.ms

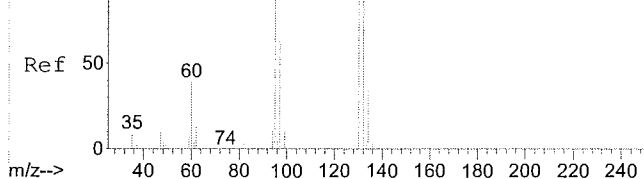


Tgt Ion: 71 Resp: 34
Ion Ratio Lower Upper
71 100
42 1029.4 200.8 301.2#
71 100.0 50.0 150.0
72 270.6 0.0 0.0#

Raw 50
m/z--> Scan 1345 (4.927 min): V6000976.D\data.ms (-1163) (-)



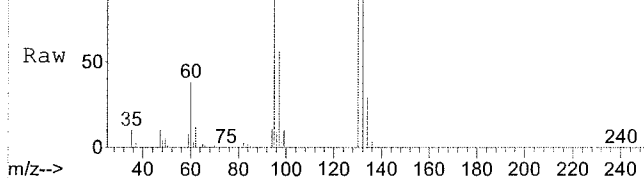
Abundance Scan 1751 (6.056 min): V6000284.D\data.ms



#41

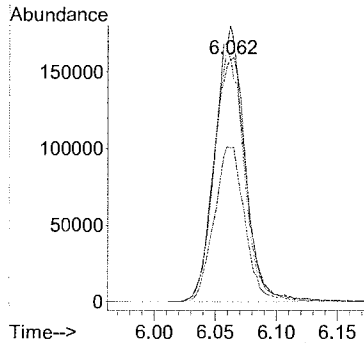
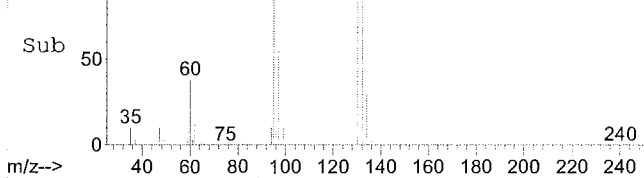
Trichloroethylene
Concen: 24.74 ppb
RT: 6.062 min Scan# 1753
Delta R.T. 0.003 min
Lab File: V6000976.D
Acq: 2 Apr 2014 5:14 pm

Ref 50
m/z--> Scan 1753 (6.062 min): V6000976.D\data.ms



Tgt Ion: 95 Resp: 275141
Ion Ratio Lower Upper
95 100
130 111.8 67.4 140.0
132 106.4 64.9 134.9
97 64.6 42.2 87.6

Raw 50
m/z--> Scan 1753 (6.062 min): V6000976.D\data.ms (-1680) (-)



FORM I

ORGANIC ANALYSIS DATA SHEET

Trip Blank 0314

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 14C0922-05 File ID: V6000977.D
 Sampled: 03/26/14 09:00 Prepared: 04/02/14 08:46 Analyzed: 04/02/14 17:43
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD40104 Sequence: Calibration: Instrument: MSVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
563-58-6	1,1-Dichloropropylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
142-28-9	1,3-Dichloropropane	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
594-20-7	2,2-Dichloropropane	1	0.50	U
78-93-3	2-Butanone	1	0.50	U
95-49-8	2-Chlorotoluene	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
106-43-4	4-Chlorotoluene	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
71-43-2	Benzene	1	0.50	U
108-86-1	Bromobenzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

Trip Blank 0314

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: 14C0922-05 File ID: V6000977.D
 Sampled: 03/26/14 09:00 Prepared: 04/02/14 08:46 Analyzed: 04/02/14 17:43
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BD40104 Sequence: Calibration: Instrument: MSVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
91-20-3	Naphthalene	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	11.0	110	81 - 123	
p-Bromofluorobenzene	10.0	9.94	99.4	70 - 128	
Toluene-d8	10.0	10.1	101	88 - 114	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000977.D
 Acq On : 2 Apr 2014 5:43 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 14C0922-05
 Misc : QBV6040214A 8260 RE
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 03 11:01:33 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:56:33 2014
 Response via : Initial Calibration

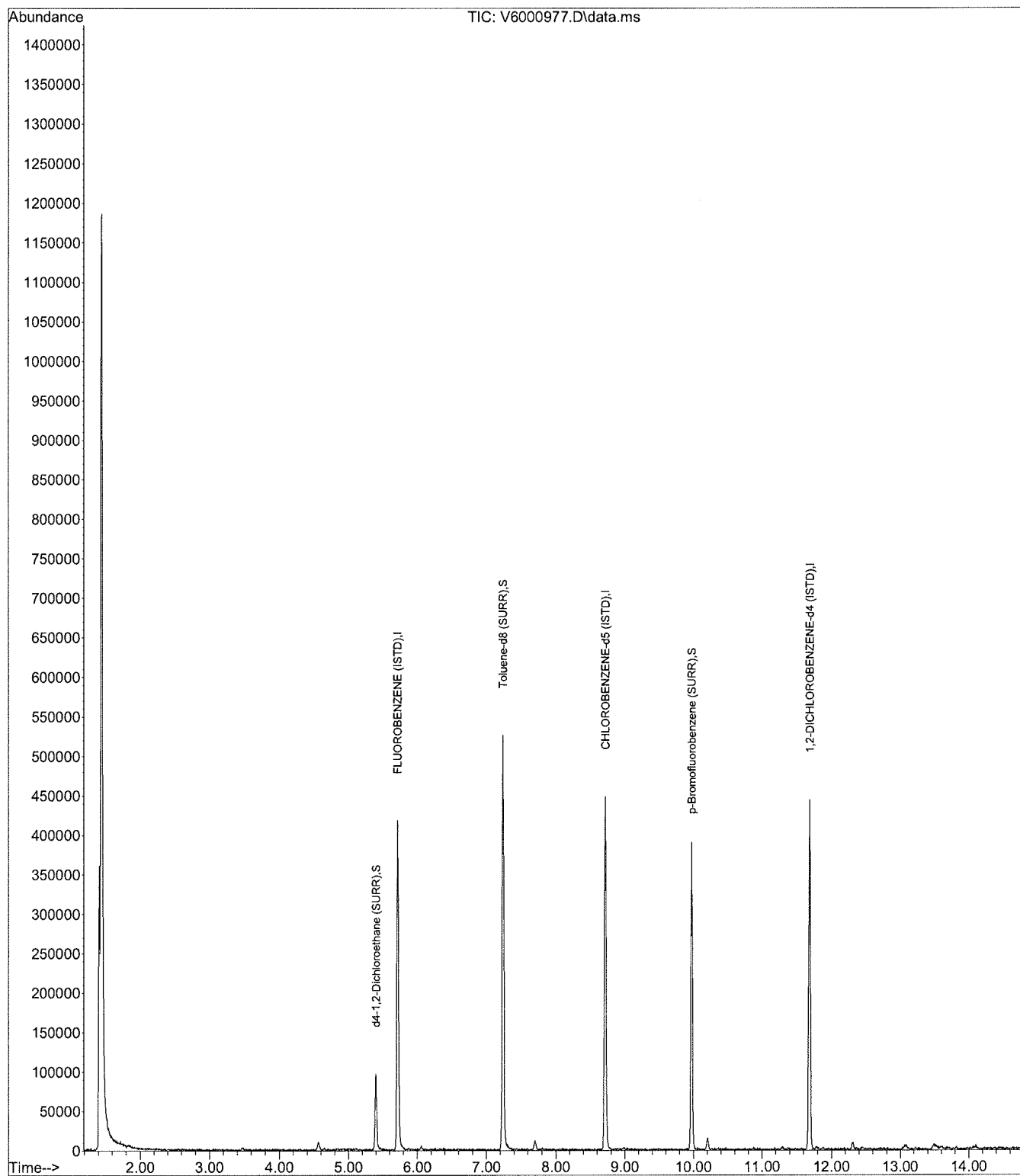
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.711	70	62047	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.713	117	253601	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.682	152	128785	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.397	65	63724	10.99	ppb	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	109.90%	
51) Toluene-d8 (SURR)	7.236	98	346076	10.13	ppb	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	101.30%	
70) p-Bromofluorobenzene (...)	9.974	95	125895	9.94	ppb	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.40%	

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\040214\
Data File : V6000977.D
Acq On : 2 Apr 2014 5:43 pm
InstName : MSVOA6
Operator : SS
Sample : 14C0922-05
Misc : QBV6040214A 8260 RE
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 03 11:01:33 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:56:33 2014
Response via : Initial Calibration



Method Path : C:\msdchem\1\METHODS\
 Method File : V6L00004.M
 Title : Volatile Organics EPA 8260C
 Last Update : Wed Apr 02 09:56:33 2014
 Response Via : Initial Calibration

Calibration Files

0.5 =V6000927.D 2.0 =V6000928.D 4.0 =V6000929.D 10.0=V6000930.D
 20.0=V6000931.D 40.0=V6000932.D

SD	Compound	0.5	2.0	4.0	10.0	20.0	40.0	Avg	%R

Method Path : C:\msdchem\1									
Method File : V6L00004.M									
Title : Volatile Organics EPA 8260C									
Last Update : Wed Apr 02 09:56:33 2014									
Response Via : Initial Calibration									

1)	FLUOROBENZENE (ISTD)	-----ISTD-----							
2)	Dichlorodifluo...	1.531	1.456	1.436	1.485	1.426	1.493	1.471	2.68
3)	Chloromethane	1.579	1.615	1.434	1.467	1.486	1.411	1.499	5.42
4)	Vinyl Chloride	1.490	1.527	1.462	1.477	1.472	1.437	1.477	2.04
5)	Bromomethane	0.955	0.718	0.669	0.734	0.746	0.578	0.733	17.01
6)	Chloroethane	0.775	0.844	0.895	0.857	0.822	0.755	0.825	6.34
7)	Trichlorofluor...	2.634	2.391	2.209	2.266	2.216	2.212	2.321	7.23
8)	Ethyl Ether	0.461	0.820	0.771	0.762	0.783	0.713	0.718	18.19
9)	Freon-113	1.476	1.402	1.392	1.371	1.340	1.383	1.394	3.27
10)	1,1-Dichloroet...	2.485	2.300	2.244	2.081	2.178	2.111	2.233	6.61
11)	Acrolein	0.062	0.050	0.063	0.047	0.056	0.058	0.056	11.52
12)	Acetone	0.556	0.365	0.229	0.205	0.177	0.307	0.307	51.21
13)	Iodomethane	1.089	1.342	1.552	1.682	1.831	1.742	1.540	18.10
14)	Methyl Acetate	0.342	0.322	0.326	0.315	0.314	0.324	0.324	3.50
15)	Carbon disulfide	4.927	4.664	4.344	4.210	4.350	4.346	4.473	5.99
16)	tert-Butyl Alc...	0.086	0.104	0.087	0.079	0.080	0.087	0.087	11.60
17)	Methylenedichlo...	1.849	1.601	1.621	1.468	1.475	1.394	1.568	10.36
18)	Acrylonitrile	0.155	0.171	0.171	0.192	0.149	0.168	0.168	10.04
19)	trans-1,2-Dich...	1.273	2.214	2.049	2.014	2.089	2.025	1.944	17.32
20)	tert-Butyl Met...	2.693	2.895	2.877	2.716	2.805	2.638	2.771	3.77
21)	1,1-Dichloroet...	2.615	2.722	2.583	2.608	2.625	2.447	2.600	3.42
22)	Vinyl Acetate	3.969	2.158	2.528	2.297	2.308	2.495	2.626	25.60
23)	Diisopropyl et...	4.027	3.118	3.504	3.663	3.621	3.440	3.562	8.38
24)	Ethyl-tert-But...	3.768	3.152	3.277	3.623	3.540	3.381	3.457	6.63
25)	cis-1,2-Dichlo...	2.489	2.534	2.385	2.237	2.320	2.167	2.355	6.05
26)	2-Butanone	0.074	0.125	0.094	0.075	0.075	0.075	0.086	23.75
27)	2,2-Dichloropr...	2.937	2.583	2.484	2.308	2.348	2.273	2.489	9.98
28)	Tetrahydrofuran	0.095	0.113	0.079	0.065	0.074	0.060	0.081	24.17
29)	Bromochloromet...	0.899	0.868	0.829	0.793	0.818	0.762	0.828	5.98
30)	Chloroform	2.996	2.800	2.639	2.597	2.652	2.471	2.693	6.78
31)	1,1,1-Trichlor...	2.633	2.732	2.648	2.691	2.703	2.623	2.672	1.63
32)	Cyclohexane	2.544	2.215	2.135	2.153	2.124	2.359	2.255	7.37
33)	1,1-Dichloropr...	2.442	2.249	2.256	2.158	2.152	2.118	2.229	5.30
34)	cis-1,2-Dichlor...	0.918	0.928	0.941	0.956	0.956	0.907	0.934	2.14
35)	Carbon Tetrach...	2.488	2.603	2.393	2.427	2.411	2.432	2.459	3.15
36)	tert-Amyl alco...	0.045	0.048	0.049	0.052	0.053	0.053	0.050	6.50
37)	1,2-Dichloroet...	1.516	1.582	1.507	1.456	1.473	1.405	1.490	4.05
38)	Benzene	6.988	6.602	6.291	5.974	6.159	5.739	6.292	7.13
39)	tert-Amyl meth...	3.156	2.607	3.002	3.114	2.996	2.929	2.968	6.58

40)	CHLOROBENZENE-d5 (ISTD)	-----ISTD-----							
41)	Trichloroethylene	0.474	0.471	0.429	0.407	0.426	0.427	0.439	6.23
42)	Methyl Cyclohe...	0.765	0.683	0.688	0.674	0.672	0.733	0.703	5.38

Response Factor Report MSVOA6

Method Path : C:\msdchem\1\METHODS\

Method File : V6L00004.M

Title : Volatile Organics EPA 8260C

43)	T	Methyl Methacr...	0.130	0.125	0.120	0.125	0.126	0.124	0.125	2.65
44)	T	Dibromomethane	0.133	0.125	0.120	0.125	0.126	0.124	0.125	3.32
45)	T	Bromodichlorom...	0.420	0.464	0.445	0.429	0.441	0.448	0.441	3.43
46)	T	1,2-Dichloropr...	0.346	0.327	0.346	0.312	0.318	0.321	0.328	4.37
47)	T	1,4-Dioxane							0.000	-1.00
48)	T	2-Chloroethyl ...							0.000	-1.00
49)	T	cis-1,3-Dichlo...	0.490	0.514	0.503	0.484	0.494	0.500	0.497	2.12
50)	T	4-Methyl-2-Pen...	0.202	0.135	0.141	0.181	0.139	0.196	0.166	18.45
51)	S	Toluene-d8 (SURR)	1.374	1.335	1.357	1.327	1.330	1.360	1.347	1.43
52)	T	Toluene	2.444	1.994	1.938	1.772	1.770	1.752	1.945	13.59
53)	T	trans-1,3-Dich...	0.454	0.404	0.392	0.377	0.401	0.402	0.405	6.41
54)	T	1,1,2-Trichlor...	0.254	0.235	0.233	0.206	0.207	0.213	0.225	8.42
55)	T	1,3-Dichloropr...	0.418	0.396	0.389	0.345	0.354	0.362	0.377	7.51
56)	T	Tetrachloroeth...	0.618	0.565	0.542	0.524	0.523	0.539	0.552	6.49
57)	T	Hexanone	0.149	0.110	0.099	0.091	0.096	0.100	0.108	19.65
58)	T	Dibromochlorom...	0.296	0.313	0.297	0.293	0.293	0.307	0.300	2.83
59)	T	1,2-Dibromoethane	0.250	0.205	0.203	0.198	0.195	0.203	0.209	9.80
60)	T	Chlorobenzene	1.353	1.243	1.217	1.155	1.186	1.176	1.222	5.86
61)	T	1,1,1,2-tetrac...	0.507	0.410	0.418	0.403	0.411	0.423	0.429	9.14
62)	T	Ethyl Benzene	2.488	2.238	2.162	2.086	2.097	2.104	2.196	7.02
63)	T	p- & m-Xylenes	2.033	1.791	1.758	1.614	1.623	1.573	1.732	9.85
64)	T	o-Xylene	1.997	1.788	1.788	1.661	1.673	1.669	1.763	7.31
65)	T	o-Xylene	1.997	1.788	1.788	1.661	1.673	1.669	1.763	7.31
66)	T	Bromofrom	0.185	0.174	0.181	0.167	0.176	0.182	0.178	3.69
67)	T	1,2-DICHLOROBENZEN								
68)	T	p-Ethyltoluene	4.291	4.791	4.659	4.631	4.719	4.726	4.803	5.12
69)	T	Isopropylbenzene	4.478	4.903	4.946	4.527	4.659	4.654	4.861	7.03
70)	S	p-Bromofluorob...	0.997	0.975	0.979	0.962	0.983	1.003	0.983	1.53
71)	T	1,2,2-Tetrac...	0.597	0.449	0.451	0.428	0.439	0.455	0.470	13.42
72)	T	Bromobenzene	1.764	1.609	1.644	1.411	1.566	1.603	1.600	7.17
73)	T	trans-1,4-Dich...	0.654	0.511	0.544	0.487	0.511	0.511	0.536	11.29
74)	T	1,2,3-Trichlor...	0.191	0.156	0.159	0.149	0.148	0.152	0.159	9.99
75)	T	n-Propylbenzene	6.656	5.808	5.651	5.288	5.449	5.415	5.711	8.73
76)	T	N-Chlorotoluene	4.373	3.805	3.726	3.553	3.649	3.650	3.793	7.82
77)	T	Chlorotoluene	4.373	3.972	3.852	3.611	3.749	3.695	3.875	7.07
78)	T	1,3,5-Trimethy...	5.291	4.791	4.659	4.631	4.719	4.726	4.803	5.12
79)	T	tert-Butylbenzene	4.990	4.181	4.220	4.046	4.130	4.167	4.289	8.13
80)	T	1,2,4-Trimethy...	5.191	4.418	4.397	4.167	4.316	4.246	4.456	8.35
81)	T	sec-Butylbenzene	5.283	5.316	5.439	5.088	5.274	5.320	5.453	7.74
82)	T	1,3-Dichlorobe...	2.057	2.437	2.305	2.245	2.360	2.358	2.460	12.16
83)	T	p-Isopropyltol...	5.738	5.058	5.113	4.759	4.910	4.900	5.082	6.79
84)	T	1,4-Dichlorobe...	3.057	2.398	2.380	2.205	2.301	2.315	2.443	12.64
85)	T	p-Diethylbenzene	3.207	2.794	2.815	2.748	2.834	2.843	2.873	5.81
86)	T	1,2-Dichlorobe...	2.503	2.078	2.380	2.205	1.933	1.905	2.168	11.13
87)	T	n-Butylbenzene	6.439	5.487	5.416	5.127	5.251	5.250	5.495	8.73
88)	T	1,2-Dibromo-3-...	0.101	0.116	0.131	0.125	0.110	0.100	0.114	10.87
89)	T	1,2,4,5-Tetram...	5.519	4.744	4.714	4.731	4.737	4.642	4.848	6.83
90)	T	1,2,4-Trichlor...	2.111	1.844	1.813	1.677	1.686	1.675	1.801	9.37
91)	T	Hexachloro-1,3...	1.487	1.200	1.232	1.126	1.159	1.210	1.236	10.43
92)	T	Naphthalene	3.095	2.182	2.193	2.009	2.052	2.127	2.276	17.89
93)	T	1,2,3-Trichlor...	1.818	1.423	1.481	1.336	1.353	1.367	1.463	12.44

= Out of Range

Method Path : C:\msdchem\1\METHODS\
 Method File : V6L00004.M
 Title : Volatile Organics EPA 8260C
 Last Update : Wed Apr 02 09:56:33 2014
 Response Via : Initial Calibration

Total Cpnds : 93

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I FLUOROBENZENE (ISTD)	70	5.717	1.000	A	3	A	B
2	T Dichlorodifluoromethane	85	1.574	0.275	A	2	A	R
3	T Chloromethane	50	1.749	0.306	A	2	A	B
4	T Vinyl Chloride	62	1.858	0.325	A	2	A	R
5	T Bromomethane	94	2.169	0.379	A	2	A	B
6	T Chloroethane	64	2.270	0.397	A	2	A	B
7	T Trichlorofluoromethane	101	2.526	0.442	A	2	A	B
8	T Ethyl Ether	59	2.809	0.491	A	3	A	B
9	T Freon-113	101	3.029	0.530	A	3	A	B
10	T 1,1-Dichloroethylene	61	3.024	0.529	A	3	A	B
11	T Acrolein	56	2.926	0.512	A	2	A	B
12	T Acetone	43	3.079	0.539	A	2	A	B
13	T Iodomethane	142	3.163	0.553	A	2	A	B
14	T Methyl Acetate	43	3.385	0.592	A	2	A	B
15	T Carbon disulfide	76	3.232	0.565	A	2	A	B
16	T tert-Butyl Alcohol (TBA)	59	3.730	0.652	A	2	A	B
17	T Methylene Chloride	49	3.474	0.608	A	3	A	B
18	T Acrylonitrile	53	3.697	0.647	A	3	A	B
19	T trans-1,2-Dichloroethylene	61	3.730	0.652	A	3	A	B
20	T tert-Butyl Methyl Ether (MTBE)	73	3.739	0.654	A	3	A	B
21	T 1,1-Dichloroethane	63	4.114	0.720	A	3	A	B
22	T Vinyl Acetate	43	4.181	0.731	Q	2	A	B
23	T Diisopropyl ether (DIPE)	45	4.187	0.732	A	3	A	B
24	T Ethyl-tert-Butyl ether (ETBE)	59	4.515	0.790	A	3	A	B
25	T cis-1,2-Dichloroethylene	61	4.648	0.813	A	3	A	B
26	T 2-Butanone	72	4.654	0.814	Q	2	A	B
27	T 2,2-Dichloropropane	77	4.651	0.814	A	3	A	B
28	T Tetrahydrofuran	71	4.921	0.861	Q	3	A	B
29	T Bromochloromethane	49	4.868	0.852	A	3	A	B
30	T Chloroform	83	4.935	0.863	A	3	A	B
31	T 1,1,1-Trichloroethane	97	5.119	0.895	A	3	A	B
32	T Cyclohexane	56	5.177	0.906	A	3	A	B
33	T 1,1-Dichloropropylene	75	5.272	0.922	A	3	A	B
34	S d4-1,2-Dichloroethane (SURR)	65	5.402	0.945	A	3	A	B
35	T Carbon Tetrachloride	117	5.274	0.923	A	3	A	B
36	T tert-Amyl alcohol (TAA)	59	5.444	0.952	A	3	A	B
37	T 1,2-Dichloroethane	62	5.469	0.957	A	3	A	B
38	T Benzene	78	5.464	0.956	A	3	A	B
39	T tert-Amyl methyl ether (TAME)	73	5.558	0.972	A	3	A	B
40	I CHLOROBENZENE-d5 (ISTD)	117	8.713	1.000	A	3	A	B
41	T Trichloroethylene	95	6.059	0.695	A	3	A	B
42	T Methyl Cyclohexane	83	6.254	0.718	A	3	A	B
43	T Methyl Methacrylate	69	6.373	0.731	A	3	A	B
44	T Dibromomethane	69	6.373	0.731	A	3	A	B
45	T Bromodichloromethane	83	6.526	0.749	A	3	A	B
46	T 1,2-Dichloropropane	63	6.270	0.720	A	3	A	B
47	T 1,4-Dioxane	88	6.404	0.735	A	2	A	B
48	T 2-Chloroethyl vinyl ether	63	7.233	0.830	A	2	A	B
49	T cis-1,3-Dichloropropene	75	6.963	0.799	A	3	A	B
50	T 4-Methyl-2-Pentanone	43	7.113	0.816	A	3	A	B
51	S Toluene-d8 (SURR)	98	7.239	0.831	A	2	A	B
52	T Toluene	91	7.305	0.838	A	2	A	B
53	T trans-1,3-Dichloropropene	75	7.509	0.862	A	3	A	B
54	T 1,1,2-Trichloroethane	97	7.698	0.883	A	3	A	B

55	T	1,3-Dichloropropane	76	7.873	0.904	A	3	A	B
56	T	Tetrachloroethylene	166	7.862	0.902	A	3	A	B
57	T	2-Hexanone	43	7.948	0.912	A	3	A	B
58	T	Dibromochloromethane	129	8.104	0.930	A	3	A	B
59	T	1,2-Dibromoethane	107	8.229	0.944	A	1	A	B
60	T	Chlorobenzene	112	8.744	1.004	A	3	A	B
61	T	1,1,1,2-tetrachloroethane	131	8.825	1.013	A	3	A	B
62	T	Ethyl Benzene	91	8.861	1.017	A	1	A	B
63	T	p- & m-Xylenes	91	8.986	1.031	A	3	A	B
64	T	o-Xylene	91	9.412	1.080	A	2	A	B
65	T	Styrene	91	9.412	1.080	A	3	A	B
66	T	Bromofrom	173	9.615	1.103	A	3	A	B
67	I	1,2-DICHLOROBENZENE-d4 (ISTD)	152	11.687	1.000	A	2	A	B
68	T	p-Ethyltoluene	105	10.391	0.889	A	3	A	B
69	T	Isopropylbenzene	105	9.812	0.840	A	3	A	B
70	S	p-Bromofluorobenzene (SURRE)	95	9.974	0.853	A	3	A	B
71	T	1,1,2,2-Tetrachloroethane	83	10.124	0.866	A	3	A	B
72	T	Bromobenzene	77	10.143	0.868	A	3	A	B
73	T	trans-1,4-Dichloro-2-butene	75	10.179	0.871	A	3	A	B
74	T	1,2,3-Trichloropropane	110	10.171	0.870	A	2	A	B
75	T	n-Propylbenzene	91	10.263	0.878	A	3	A	B
76	T	2-Chlorotoluene	91	10.360	0.886	A	2	A	B
77	T	4-Chlorotoluene	91	10.480	0.897	A	2	A	B
78	T	1,3,5-Trimethylbenzene	105	10.391	0.889	A	3	A	B
79	T	tert-Butylbenzene	119	10.825	0.926	A	3	A	B
80	T	1,2,4-Trimethylbenzene	105	10.878	0.931	A	3	A	B
81	T	sec-Butylbenzene	105	11.073	0.947	A	3	A	B
82	T	1,3-Dichlorobenzene	146	11.192	0.958	A	3	A	B
83	T	p-Isopropyltoluene	119	11.234	0.961	A	3	A	B
84	T	1,4-Dichlorobenzene	146	11.290	0.966	A	3	A	B
85	S	p-Diethylbenzene (SU)	105	11.671	0.999	A	3	A	B
86	T	1,2-Dichlorobenzene	146	11.707	1.002	A	3	A	B
87	T	n-Butylbenzene	91	11.699	1.001	A	2	A	B
88	T	1,2-Dibromo-3-chloropropane	75	12.581	1.076	A	3	A	B
89	T	1,2,4,5-Tetramethylbenzene	119	12.556	1.074	A	3	A	B
90	T	1,2,4-Trichlorobenzene	180	13.540	1.159	A	3	A	B
91	T	Hexachloro-1,3-Butadiene	225	13.744	1.176	A	3	A	B
92	T	Naphthalene	128	13.819	1.182	A	2	A	B
93	T	1,2,3-Trichlorobenzene	180	14.100	1.206	A	3	A	B

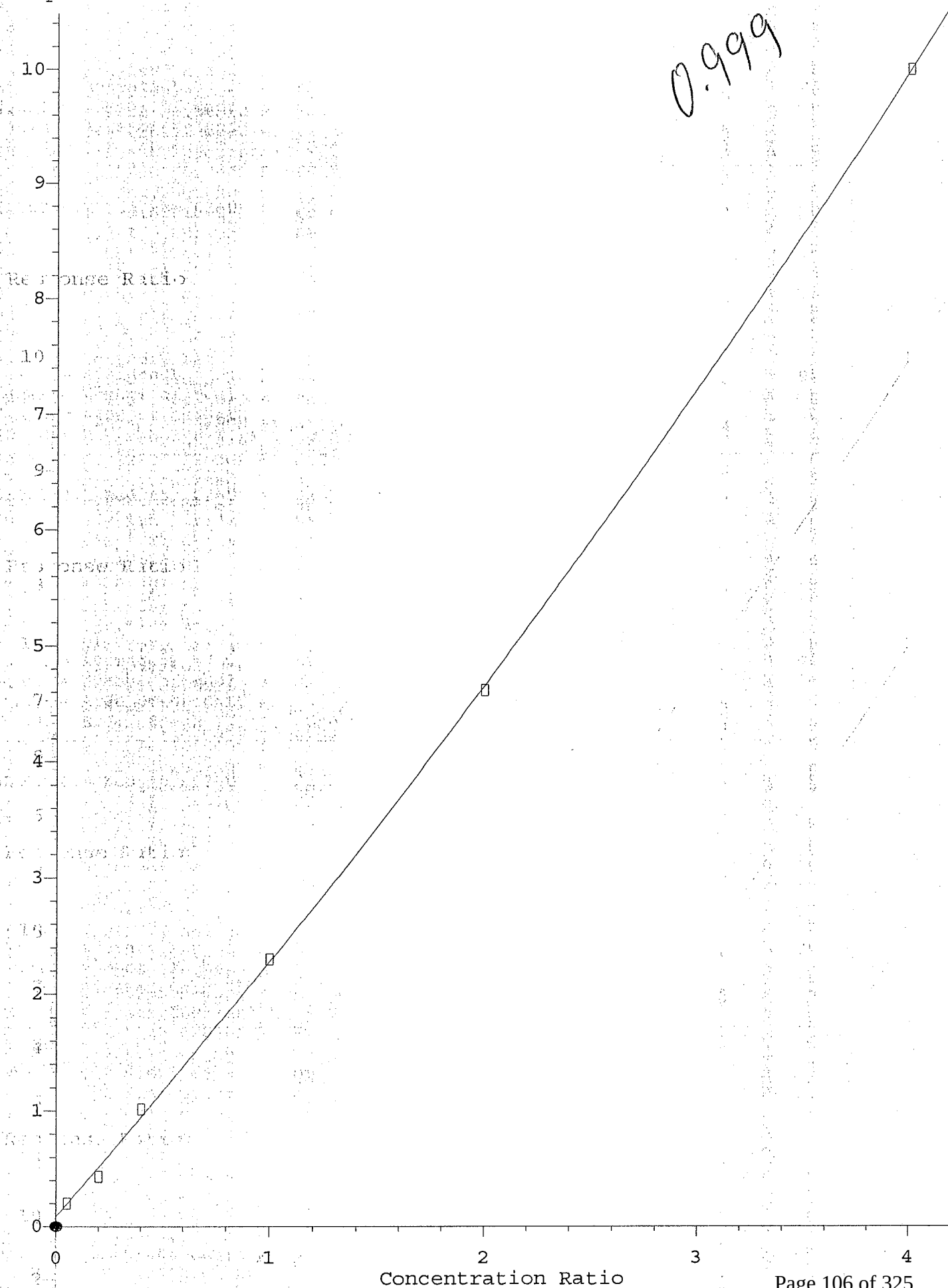
Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
 #Qual = number of qualifiers
 A/H = Area or Height
 ID R = R.T. at B = R.T. & Q Q = Qvalue L = Largest A = All

V6L00004.M Wed Apr 02 09:56:42 2014

Cal A = Average L = Linear LO = Linear w/origin
 #Qual = number of qualifiers
 A/H = Area or Height
 ID R = R.T. at B = R.T. & Q Q = Qvalue L = Largest A = All

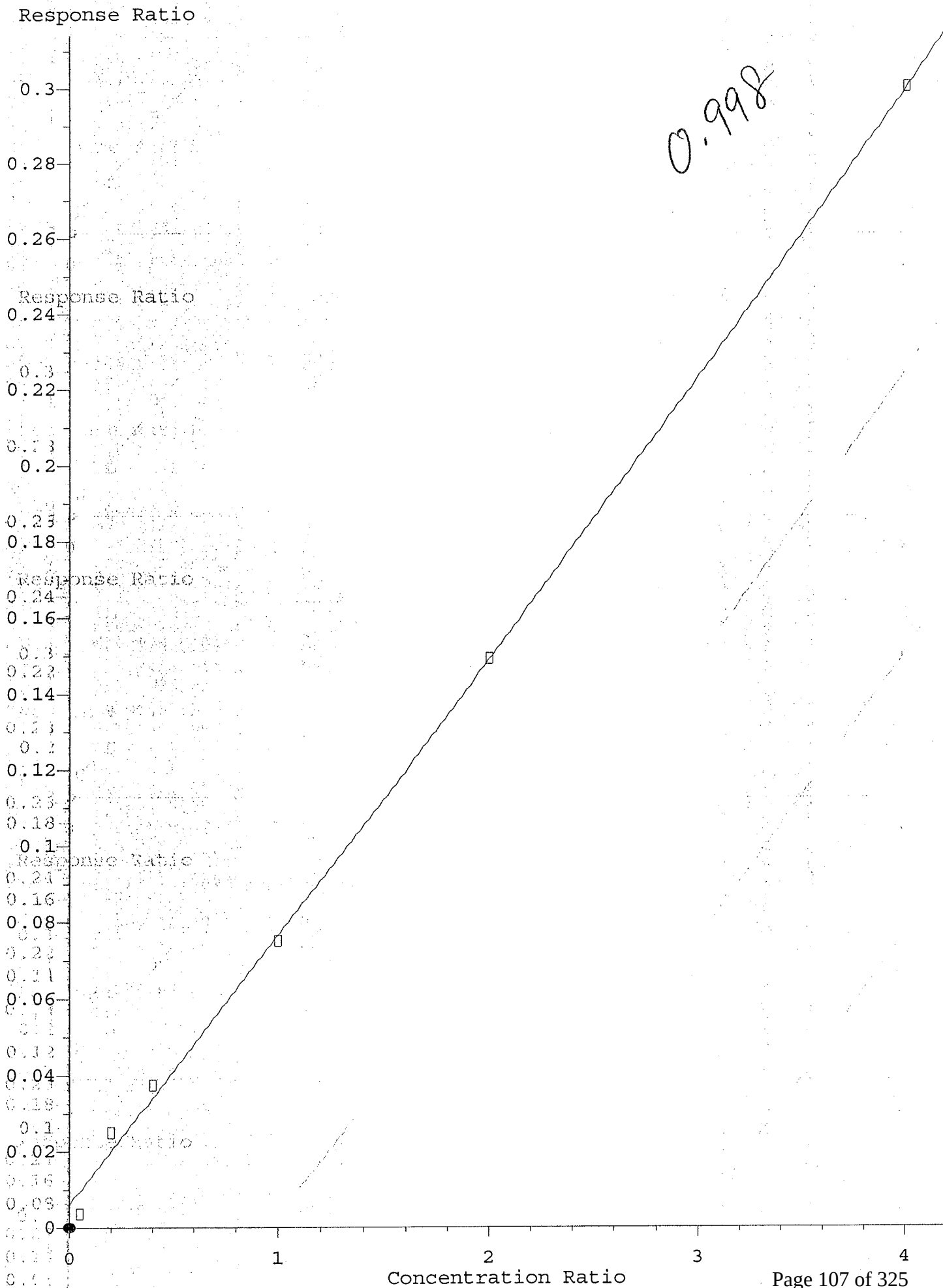
Vinyl Acetate

Response Ratio



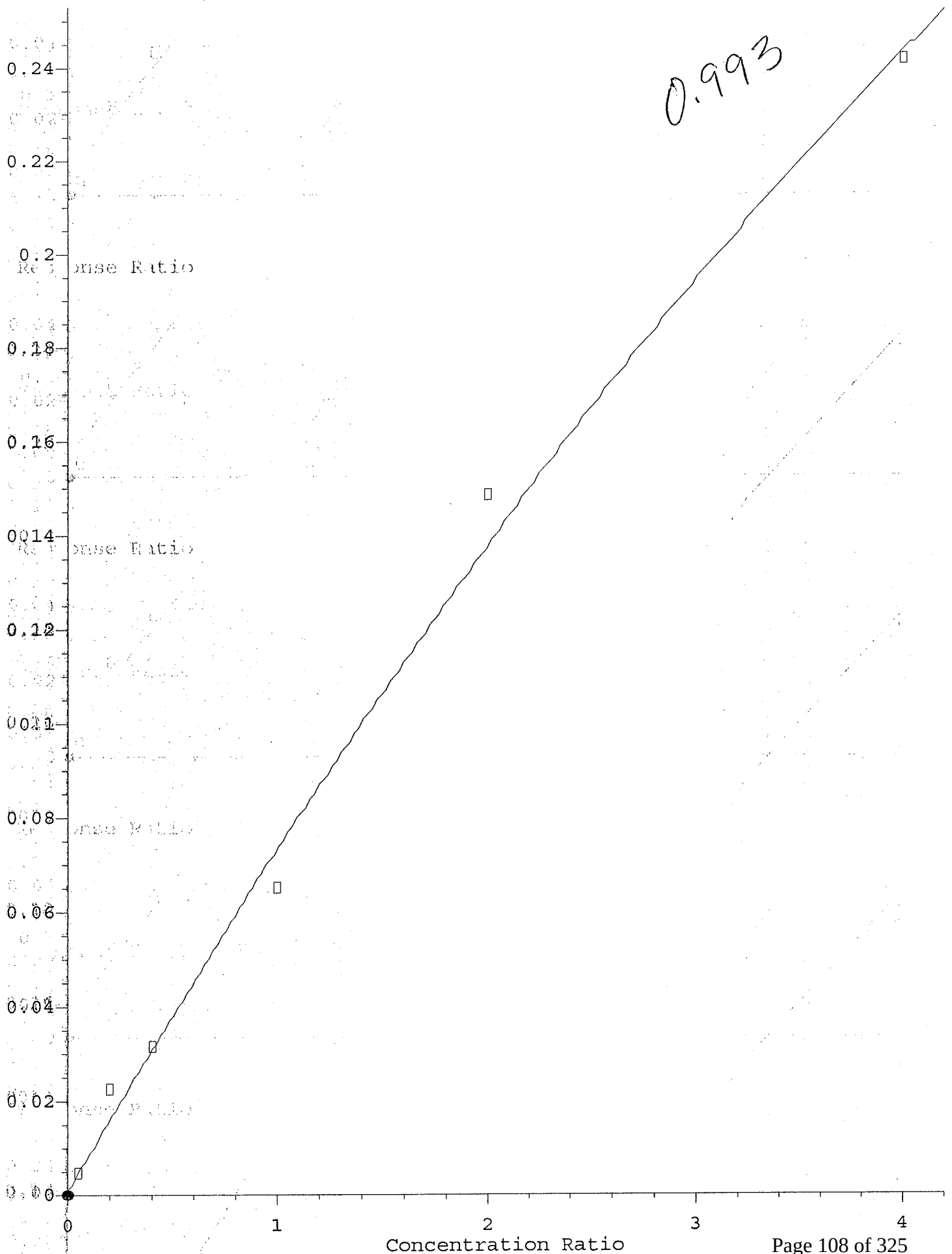
Concentration Ratio

2-Butanone



Tetrahydrofuran

Response Ratio



Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000927.D
 Acq On : 1 Apr 2014 12:33 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 0.5PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 0.8/8.0 OXY
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 09:11:25 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
19) FLUOROBENZENE (ISTD)	5.717	70	60526	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.713	117	242699	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.682	152	120496	10.00	ppb	0.00

System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.400	65	55571	12.55	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	125.50%
51) Toluene-d8 (SURR)	7.239	98	333472	9.71	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.10%
70) p-Bromofluorobenzene (...)	9.971	95	120086	9.84	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.40%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.580	85	4634	0.49	ppb	96
3) Chloromethane	1.749	50	4778	0.35	ppb	87
4) Vinyl Chloride	1.861	62	4508	0.36	ppb	# 86
5) Bromomethane	2.189	94	2890m	0.41	ppb	86
6) Chloroethane	2.289	64	2344	0.30	ppb	96
7) Trichlorofluoromethane	2.542	101	7970	0.62	ppb	94
8) Ethyl Ether	2.812	59	1395	0.26	ppb	# 77
9) Freon-113	3.037	101	4466	0.55	ppb	# 74
10) 1,1-Dichloroethylene	3.029	61	7520	0.52	ppb	# 77
11) Acrolein	2.929	56	187	0.35	ppb	83
12) Acetone	3.076	43	5277m	4.74	ppb	403
13) Iodomethane	3.165	142	3296	0.87	ppb	# 100
15) Carbon disulfide	3.235	76	14910	0.49	ppb	100
17) Methylene Chloride	3.471	49	5596	0.52	ppb	# 63
19) trans-1,2-Dichloroethy...	3.733	61	3853	0.27	ppb	# 66
20) tert-Butyl Methyl Ethe...	3.739	73	8150m	0.51	ppb	0
21) 1,1-Dichloroethane	4.117	63	7915	0.45	ppb	# 93
22) Vinyl Acetate	4.178	43	12012	2.35	ppb	# 98
23) Diisopropyl ether (DIPE)	4.184	45	19500	0.68	ppb	# 92
24) Ethyl-tert-Butyl ether...	4.520	59	18244	0.74	ppb	94
25) cis-1,2-Dichloroethylene	4.648	61	7532	0.52	ppb	97
26) 2-Butanone	4.659	72	223m	0.52	ppb	# 93
27) 2,2-Dichloropropane	4.651	77	8888	0.65	ppb	# 93
28) Tetrahydrofuran	4.915	71	286m	0.54	ppb	403
29) Bromochloromethane	4.865	49	2720m	0.51	ppb	403
30) Chloroform	4.938	83	9068	0.61	ppb	# 70
31) 1,1,1-Trichloroethane	5.121	97	7967m	0.56	ppb	403

Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000927.D
 Acq On : 1 Apr 2014 12:33 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 0.5PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 0.8/8.0 OXY
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 09:11:25 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Acq On	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32)	Cyclohexane	5.185	56	7699	0.47	ppb	# 76
33)	1,1-Dichloropropylene	5.266	75	7391	0.53	ppb	84
35)	Carbon Tetrachloride	5.274	117	7529	0.65	ppb	96
36)	tert-Amyl alcohol (TAA)	5.447	59	2172	6.69	ppb	88
37)	1,2-Dichloroethane	5.469	62	4587	0.64	ppb	# 90
38)	Benzene	5.464	78	21149	0.52	ppb	# 85
39)	tert-Amyl methyl ether...	5.561	73	15281	0.78	ppb	100
41)	Trichloroethylene	6.062	95	5756	0.49	ppb	91
42)	Methyl Cyclohexane	6.259	83	9286	0.43	ppb	# 61
43)	Methyl Methacrylate	6.368	69	1582m	0.45	ppb	
44)	Dibromomethane	6.368	69	1612m	0.46	ppb	
45)	Bromodichloromethane	6.521	83	5099m	0.47	ppb	
46)	1,2-Dichloropropane	6.270	63	4196m	0.41	ppb	
49)	cis-1,3-Dichloropropene	6.972	75	5952m	0.44	ppb	
50)	4-Methyl-2-Pentanone	7.122	43	2451m	0.50	ppb	
52)	Toluene	7.305	91	29660	0.58	ppb	99
53)	trans-1,3-Dichloropropene	7.511	75	5511	0.55	ppb	# 90
54)	1,1,2-Trichloroethane	7.698	97	3078	0.53	ppb	# 81
55)	1,3-Dichloropropane	7.876	76	5076	0.51	ppb	# 84
56)	Tetrachloroethylene	7.854	166	7499m	0.56	ppb	
57)	2-Hexanone	7.956	43	1806m	0.70	ppb	
58)	Dibromochloromethane	8.115	129	3594m	0.58	ppb	
59)	1,2-Dibromoethane	8.229	107	3036	0.64	ppb	# 22
60)	Chlorobenzene	8.744	112	16419	0.55	ppb	# 81
61)	1,1,1,2-tetrachloroethane	8.822	131	6155	0.68	ppb	# 38
62)	Ethyl Benzene	8.861	91	30196	0.52	ppb	98
63)	p- & m-Xylenes	8.980	91	49333m	1.13	ppb	
64)	o-Xylene	9.414	91	24230	0.54	ppb	98
65)	Styrene	9.414	91	24230	0.54	ppb	# 73
66)	Bromofrom	9.617	173	2250m	0.66	ppb	
68)	p-Ethyltoluene	10.388	105	31878	0.50	ppb	# 60
69)	Isopropylbenzene	9.809	105	33002	0.51	ppb	97
71)	1,1,2,2-Tetrachloroethane	10.124	83	3596m	0.58	ppb	
72)	Bromobenzene	10.135	77	10630	0.49	ppb	87
73)	trans-1,4-Dichloro-2-b...	10.171	75	3939m	0.55	ppb	
74)	1,2,3-Trichloropropane	10.168	110	1148m	0.69	ppb	
75)	n-Propylbenzene	10.260	91	40102	0.51	ppb	# 84
76)	2-Chlorotoluene	10.472	91	26344	0.52	ppb	100
77)	4-Chlorotoluene	10.472	91	26344	0.52	ppb	100
78)	1,3,5-Trimethylbenzene	10.388	105	31878	0.58	ppb	# 92
79)	tert-Butylbenzene	10.822	119	30066	0.55	ppb	99

Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000927.D
 Acq On : 1 Apr 2014 12:33 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 0.5PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 0.8/8.0 OXY
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 09:11:25 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

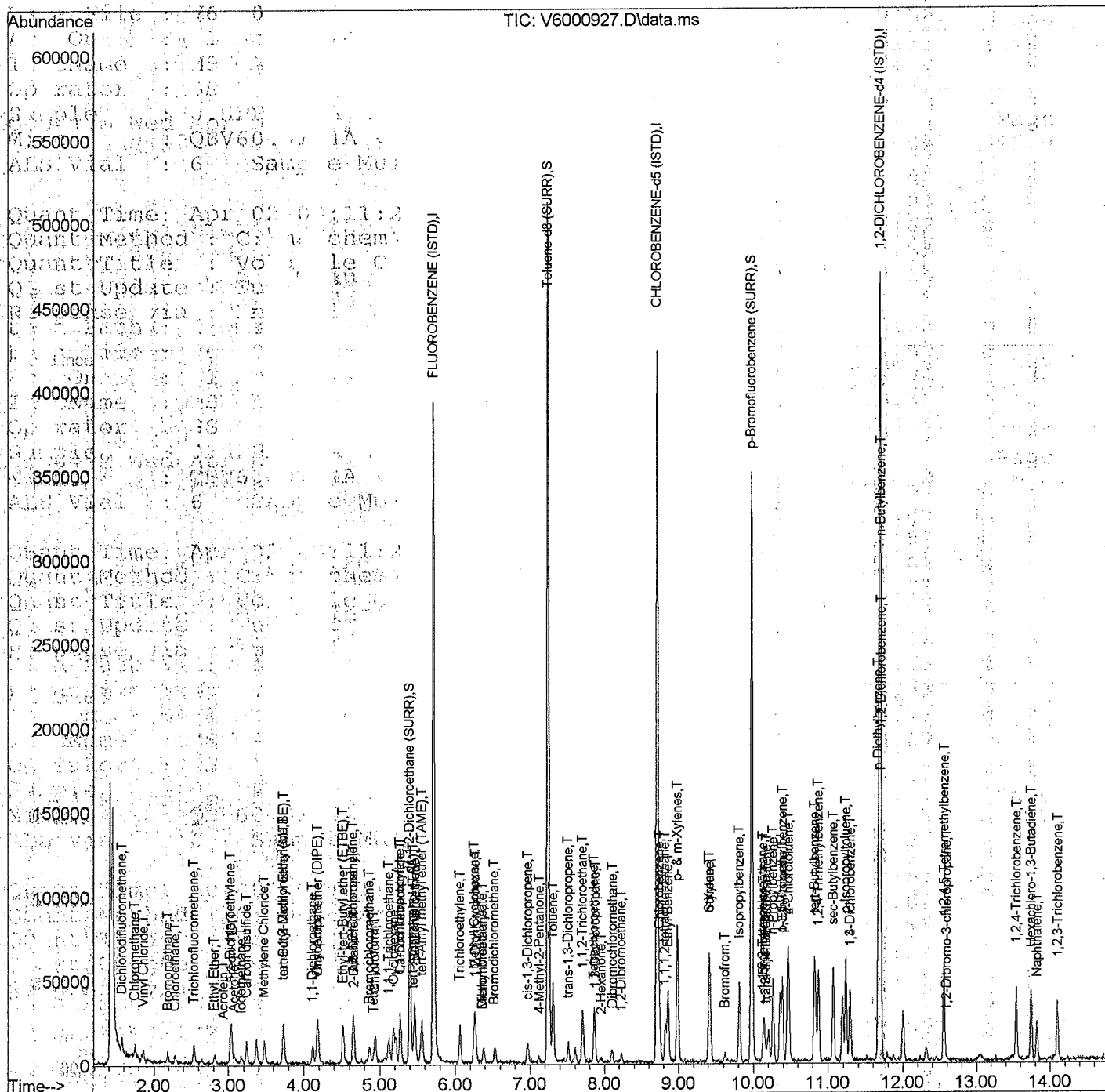
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) 1,2,4-Trimethylbenzene	10.872	105	31273	0.57	ppb	95
81) Sec-Butylbenzene	11.070	105	37852	0.52	ppb #	96
82) 1,3-Dichlorobenzene	11.290	146	18419	0.63	ppb	96
83) p-Isopropyltoluene	11.231	119	34572	0.54	ppb	97
84) 1,4-Dichlorobenzene	11.290	146	18419	0.65	ppb	97
85) p-Diethylbenzene	11.665	105	19323	0.53	ppb #	25
86) 1,2-Dichlorobenzene	11.704	146	15083	0.62	ppb	94
87) n-Butylbenzene	11.699	91	38791	0.53	ppb	97
88) 1,2-Dibromo-3-chloropr...	12.594	75	609m	0.64	ppb	
89) 1,2,4,5-Tetramethylben...	12.556	119	33251	0.62	ppb #	94
90) 1,2,4-Trichlorobenzene	13.540	180	12719	0.63	ppb #	91
91) Hexachloro-1,3-Butadiene	13.746	225	8959	0.59	ppb	95
92) Naphthalene	13.821	128	18644	0.71	ppb #	88
93) 1,2,3-Trichlorobenzene	14.100	180	10953	0.67	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\040114\
Data File : V6000927.D
Acq On : 1 Apr 2014 12:33 pm
InstName : MSVOA6
Operator : SS
Sample : 0.5PPB VOA CALIBRATION CURVE
Misc : QBV6040114A <2 0.8/8.0 OXY
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 09:11:25 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Apr 01 08:41:01 2014
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000928.D
 Acq On : 1 Apr 2014 1:02 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 2.0PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 1.6/16 OXY
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 09:21:18 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.711	70	62118	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.713	117	250820	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.685	152	125343	10.00	ppb	0.00

System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.400	65	57625	12.68	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	126.80%
51) Toluene-d8 (SURR)	7.239	98	334723	9.43	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.30%
70) p-Bromofluorobenzene (...)	9.971	95	122188	9.62	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.20%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.577	85	18084	1.87	ppb	100
3) Chloromethane	1.749	50	20062	1.45	ppb	# 64
4) Vinyl Chloride	1.861	62	18975	1.48	ppb	98
5) Bromomethane	2.183	94	8924	1.24	ppb	98
6) Chloroethane	2.286	64	10484	1.30	ppb	99
7) Trichlorofluoromethane	2.537	101	29704	2.26	ppb	99
8) Ethyl Ether	2.818	59	10182	1.87	ppb	# 97
9) Freon-113	3.037	101	17420	2.09	ppb	94
10) 1,1-Dichloroethylene	3.029	61	28572	1.91	ppb	# 95
11) Acrolein	2.932	56	626m	1.15	ppb	
12) Acetone	3.079	43	6907m	6.04	ppb	33
13) Iodomethane	3.168	142	16672m	2.23	ppb	33
14) Methyl Acetate	3.382	43	4249m	1.84	ppb	Q 97
15) Carbon disulfide	3.232	76	57942	1.85	ppb	100
16) tert-Butyl Alcohol (TBA)	3.733	59	1066	2.50	ppb	# 8
17) Methylene Chloride	3.477	49	19888	1.79	ppb	92
18) Acrylonitrile	3.700	53	1921	1.57	ppb	# 63
19) trans-1,2-Dichloroethy...	3.733	61	27512	1.90	ppb	98
20) tert-Butyl Methyl Ethe...	3.739	73	35965	2.19	ppb	98
21) 1,1-Dichloroethane	4.120	63	33821	1.88	ppb	# 85
22) Vinyl Acetate	4.178	43	26807m	5.11	ppb	30
23) Diisopropyl ether (DIPE)	4.184	45	30989	1.05	ppb	# 93
24) Ethyl tert-Butyl ether...	4.515	59	31329	1.24	ppb	97
25) cis-1,2-Dichloroethylene	4.648	61	31487	2.12	ppb	100
26) 2-Butanone	4.657	72	1552m	3.51	ppb	
27) 2,2-Dichloropropane	4.657	77	32087	2.27	ppb	# 89
28) Tetrahydrofuran	4.929	71	1400m	2.59	ppb	

Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000928.D
 Acq On : 1 Apr 2014 1:02 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 2.0PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 1.6/16 OXY
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 09:21:18 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Da	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29)	Bromochloromethane	4.863	49	10785	1.96	ppb	# 100
30)	Chloroform	4.935	83	34788	2.28	ppb	# 99
31)	1,1,1-Trichloroethane	5.121	97	33944	2.34	ppb	# 99
32)	Cyclohexane	5.180	56	27521	1.64	ppb	# 83
33)	1,1-Dichloropropylene	5.272	75	27939	1.96	ppb	# 76
35)	Carbon Tetrachloride	5.272	117	32342	2.71	ppb	# 97
36)	tert-Amyl alcohol (TAA)	5.441	59	4745m	14.23	ppb	# 92
37)	1,2-Dichloroethane	5.472	62	19660	2.67	ppb	# 98
38)	Benzene	5.464	78	82016	1.97	ppb	# 99
39)	tert-Amyl methyl ether...	5.561	73	25912	1.29	ppb	# 96
41)	Trichloroethylene	6.062	95	23639	1.96	ppb	# 83
42)	Methyl Cyclohexane	6.257	83	34259	1.53	ppb	# 47
43)	Methyl Methacrylate	6.376	69	6251	1.71	ppb	# 1
44)	Dibromomethane	6.376	69	6251	1.71	ppb	# 92
45)	Bromodichloromethane	6.529	83	23255	2.08	ppb	# 95
46)	1,2-Dichloropropane	6.279	63	16406	1.54	ppb	# 95
49)	cis-1,3-Dichloropropene	6.960	75	25781	1.84	ppb	# 88
50)	4-Methyl-2-Pentanone	7.113	43	6797	1.35	ppb	# 100
52)	Toluene	7.305	91	100014	1.89	ppb	# 99
53)	trans-1,3-Dichloropropene	7.509	75	20244	1.95	ppb	# 92
54)	1,1,2-Trichloroethane	7.701	97	11769	1.97	ppb	# 99
55)	1,3-Dichloropropane	7.870	76	19885	1.94	ppb	# 77
56)	Tetrachloroethylene	7.862	166	28328	2.05	ppb	# 95
57)	2-Hexanone	7.951	43	5493m	2.05	ppb	# 98
58)	Dibromochloromethane	8.107	129	15725	2.44	ppb	# 97
59)	1,2-Dibromoethane	8.232	107	10267m	2.11	ppb	# 99
60)	Chlorobenzene	8.744	112	62351	2.01	ppb	# 99
61)	1,1,1,2-tetrachloroethane	8.822	131	20566	2.21	ppb	# 97
62)	Ethyl Benzene	8.858	91	112287	1.89	ppb	# 97
63)	p- & m-Xylenes	8.983	91	179651	4.00	ppb	# 100
64)	o-Xylene	9.406	91	89670	1.94	ppb	# 82
65)	Styrene	9.406	91	89670	1.94	ppb	# 74
66)	Bromofrom	9.615	173	8742	2.48	ppb	# 60
68)	p-Ethyltoluene	10.388	105	120116	1.82	ppb	# 95
69)	Isopropylbenzene	9.809	105	122917	1.81	ppb	# 100
71)	1,1,2,2-Tetrachloroethane	10.127	83	11261	1.74	ppb	# 90
72)	Bromobenzene	10.143	77	40339	1.80	ppb	# 99
73)	trans-1,4-Dichloro-2-b...	10.182	75	12798m	1.71	ppb	# 99
74)	1,2,3-Trichloropropane	10.177	110	3918m	2.25	ppb	# 99
75)	n-Propylbenzene	10.263	91	145607	1.76	ppb	# 99
76)	2-Chlorotoluene	10.358	91	95384	1.83	ppb	# 99

Data Path : C:\msdchem\1\DATA\040114\
Data File : V6000928.D
Acq On : 1 Apr 2014 1:02 pm
InstName : MSVOA6
Operator : SS
Sample : 2.0PPB VOA CALIBRATION CURVE
Misc : QBV6040114A <2 1.6/16 OXY
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 09:21:18 2014
Quant Method: C:\msdchem\1\METHODS\V6LO0002.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Apr 01 08:41:01 2014
Response via : Initial Calibration

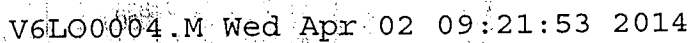
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) 4-Chlorotoluene	10.477	91	99570	1.89	ppb	100
78) 1,3,5-Trimethylbenzene	10.388	105	120116	2.11	ppb #	60
79) tert-Butylbenzene	10.822	119	104802	1.84	ppb	96
80) 1,2,4-Trimethylbenzene	10.875	105	110751	1.93	ppb	98
81) sec-Butylbenzene	11.067	105	133275	1.75	ppb	99
82) 1,3-Dichlorobenzene	11.187	146	61085	2.01	ppb	98
83) p-Isopropyltoluene	11.231	119	126807	1.89	ppb	99
84) 1,4-Dichlorobenzene	11.287	146	60111	2.03	ppb	98
85) p-Diethylbenzene	11.668	105	70033	1.84	ppb	97
86) 1,2-Dichlorobenzene	11.707	146	52102	2.07	ppb #	87
87) n-Butylbenzene	11.690	91	137541	1.79	ppb	97
88) 1,2-Dibromo-3-chloropr...	12.586	75	2913m	2.94	ppb	Dev
89) 1,2,4,5-Tetramethylben...	12.556	119	118917	2.15	ppb	98
90) 1,2,4-Trichlorobenzene	13.538	180	46214	2.19	ppb	96
91) Hexachloro-1,3-Butadiene	13.741	225	30080	1.91	ppb	95
92) Naphthalene	13.821	128	54693	1.99	ppb	95
93) 1,2,3-Trichlorobenzene	14.100	180	35667	2.11	ppb	92

Q(##) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Page

Abundance 76100 3 TIC: V6000928.D\data.ms



Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000929.D
 Acq On : 1 Apr 2014 1:31 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 4.0PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 4.0/40 OXY
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 09:35:11 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.720	70	63988	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.713	117	251947	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.685	152	123186	10.00	ppb	0.00

System Monitoring Compounds						
34) 1,2-Dichloroethane ...	5.400	65	60224	12.87	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	128.70%
51) Toluene-d8 (SURR)	7.239	98	341845	9.59	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.90%
70) p-Bromofluorobenzene (...)	9.971	95	120575	9.66	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.60%

Target Compounds						
2) Dichlorodifluoromethane	1.574	85	36764	3.68	ppb	# 86
3) Chloromethane	1.752	50	36697	2.57	ppb	# 99
4) Vinyl Chloride	1.855	62	37416	2.83	ppb	# 99
5) Bromomethane	2.178	94	17114	2.31	ppb	# 93
6) Chloroethane	2.281	64	22897	2.76	ppb	# 100
7) Trichlorofluoromethane	2.531	101	56534	4.17	ppb	# 99
8) Ethyl Ether	2.812	59	19726	3.53	ppb	# 97
9) Freon-113	3.032	101	35630	4.16	ppb	# 97
10) 1,1-Dichloroethylene	3.027	61	57441	3.74	ppb	# 98
11) Acrolein	2.918	56	1619m	2.88	ppb	# 90
12) Acetone	3.066	43	9352m	7.95	ppb	# 98
13) Iodomethane	3.168	142	39734	4.47	ppb	# 100
14) Methyl Acetate	3.385	43	8236	3.46	ppb	# 98
15) Carbon disulfide	3.230	76	111188	3.44	ppb	# 100
16) tert-Butyl Alcohol (TBA)	3.733	59	2662	6.06	ppb	# 1
17) Methylene Chloride	3.477	49	41479	3.62	ppb	# 99
18) Acrylonitrile	3.703	53	4380	3.48	ppb	# 90
19) trans-1,2-Dichloroethy...	3.733	61	52446	3.52	ppb	# 98
20) tert-Butyl Methyl Ethe...	3.736	73	73634	4.35	ppb	# 91
21) 1,1-Dichloroethane	4.117	63	66110	3.56	ppb	# 99
22) Vinyl Acetate	4.181	43	64707	11.99	ppb	# 98
23) Diisopropyl ether (DIPE)	4.187	45	89698	2.95	ppb	# 99
24) Ethyl-tert-Butyl ether...	4.512	59	83863	3.22	ppb	# 87
25) cis-1,2-Dichloroethylene	4.649	61	61046	3.99	ppb	# 99
26) 2-Butanone	4.649	72	2395	5.25	ppb	# 100
27) 2,2-Dichloropropane	4.649	77	63568	4.37	ppb	# 98
28) Tetrahydrofuran	4.927	71	2017m	3.62	ppb	# 98

Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000929.D
 Acq On : 1 Apr 2014 1:31 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 4.0PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 4.0/40 OXY
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 09:35:11 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Da	Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
29)	Bromochloromethane	4.866	49	21207	3.75	ppb	# 100
30)	Chloroform	4.935	83	67554	4.30	ppb	# 94
31)	1,1,1-Trichloroethane	5.119	97	67765	4.54	ppb	# 80
32)	Cyclohexane	5.180	56	54634	3.16	ppb	# 82
33)	1,1-Dichloropropylene	5.272	75	57741	3.94	ppb	# 80
35)	Carbon Tetrachloride	5.277	117	61251	4.99	ppb	# 99
36)	tert-Amyl alcohol (TAA)	5.447	59	12591m	36.67	ppb	
37)	1,2-Dichloroethane	5.467	62	38583	5.08	ppb	# 97
38)	Benzene	5.461	78	161028	3.75	ppb	# 98
39)	tert-Amyl methyl ether...	5.558	73	76846	3.72	ppb	# 99
41)	Trichloroethylene	6.062	95	43214	3.56	ppb	# 89
42)	Methyl Cyclohexane	6.254	83	69329	3.08	ppb	# 89
43)	Methyl Methacrylate	6.376	69	12111	3.31	ppb	# 97
44)	Dibromomethane	6.376	69	12111	3.31	ppb	# 16
45)	Bromodichloromethane	6.529	83	44827	3.99	ppb	# 98
46)	1,2-Dichloropropane	6.273	63	34887	3.25	ppb	# 83
49)	cis-1,3-Dichloropropene	6.963	75	50711	3.60	ppb	# 93
50)	4-Methyl-2-Pentanone	7.111	43	14257	2.82	ppb	# 73
52)	Toluene	7.303	91	195288	3.68	ppb	# 99
53)	trans-1,3-Dichloropropene	7.509	75	39485	3.78	ppb	# 99
54)	1,1,2-Trichloroethane	7.698	97	23506	3.92	ppb	# 81
55)	1,3-Dichloropropane	7.873	76	39220	3.82	ppb	# 90
56)	Tetrachloroethylene	7.865	166	54613	3.94	ppb	# 99
57)	2-Hexanone	7.951	43	10000	3.71	ppb	# 94
58)	Dibromochloromethane	8.104	129	29881	4.62	ppb	# 93
59)	1,2-Dibromoethane	8.229	107	20468	4.16	ppb	# 93
60)	Chlorobenzene	8.747	112	122660	3.93	ppb	# 99
61)	1,1,1,2-tetrachloroethane	8.825	131	42140	4.51	ppb	# 96
62)	Ethyl Benzene	8.858	91	217838	3.61	ppb	# 100
63)	p- & m-Xylenes	8.983	91	354365	7.85	ppb	# 97
64)	o-Xylene	9.409	91	180165	3.88	ppb	# 99
65)	Styrene	9.409	91	180165	3.88	ppb	# 81
66)	Bromofrom	9.618	173	18276	5.11	ppb	# 99
68)	p-Ethyltoluene	10.388	105	229556	3.54	ppb	# 60
69)	Isopropylbenzene	9.810	105	243735	3.61	ppb	# 99
71)	1,1,2,2-Tetrachloroethane	10.121	83	22211	3.48	ppb	# 100
72)	Bromobenzene	10.141	77	81027	3.62	ppb	# 93
73)	trans-1,4-Dichloro-2-b...	10.177	75	26805	3.65	ppb	# 96
74)	1,2,3-Trichloropropane	10.177	110	7826	4.58	ppb	# 1
75)	n-Propylbenzene	10.260	91	278464	3.43	ppb	# 99
76)	2-Chlorotoluene	10.358	91	183578	3.58	ppb	# 99

Data Path : C:\msdchem\1\DATA\040114\
Data File : V6000929.D
Acq On : 1 Apr 2014 1:31 pm
InstName : MSVOA6
Operator : SS
Sample : 4.0PPB VOA CALIBRATION CURVE
Misc : QBV6040114A <2 4.0/40 OXY
ALS Vial : 8 Sample Multiplier: 1

Quant Time : Apr 02 09:35:11 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Apr 01 08:41:01 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) 4-Chlorotoluene	10.475	91	189795	3.66	ppb	100
78) 1,3,5-Trimethylbenzene	10.388	105	229556	4.10	ppb	61
79) tert-Butylbenzene	10.820	119	207951	3.72	ppb	98
80) 1,2,4-Trimethylbenzene	10.875	105	216676	3.83	ppb	97
81) sec-Butylbenzene	11.067	105	268006	3.59	ppb	98
82) 1,3-Dichlorobenzene	11.187	146	113585	3.81	ppb	98
83) p-Propyltoluene	11.231	119	251962	3.82	ppb	98
84) 1,4-Dichlorobenzene	11.287	146	117268	4.04	ppb	97
85) p-Diethylbenzene	11.668	105	138689	3.72	ppb	28
86) 1,2-Dichlorobenzene	11.287	146	117268	4.74	ppb	98
87) n-Butylbenzene	11.696	91	266858	3.54	ppb	95
88) 1,2-Dibromo-3-chloropr...	12.578	75	6431m	6.60	ppb	Dev
89) 1,2,4,5-Tetramethylben...	12.556	119	232265	4.26	ppb	99
90) 1,2,4-Trichlorobenzene	13.541	180	89331	4.32	ppb	99
91) Hexachloro-1,3-Butadiene	13.747	225	60684	3.93	ppb	97
92) Naphthalene	13.819	128	108070	4.00	ppb	98
93) 1,2,3-Trichlorobenzene	14.097	180	72993	4.39	ppb	99

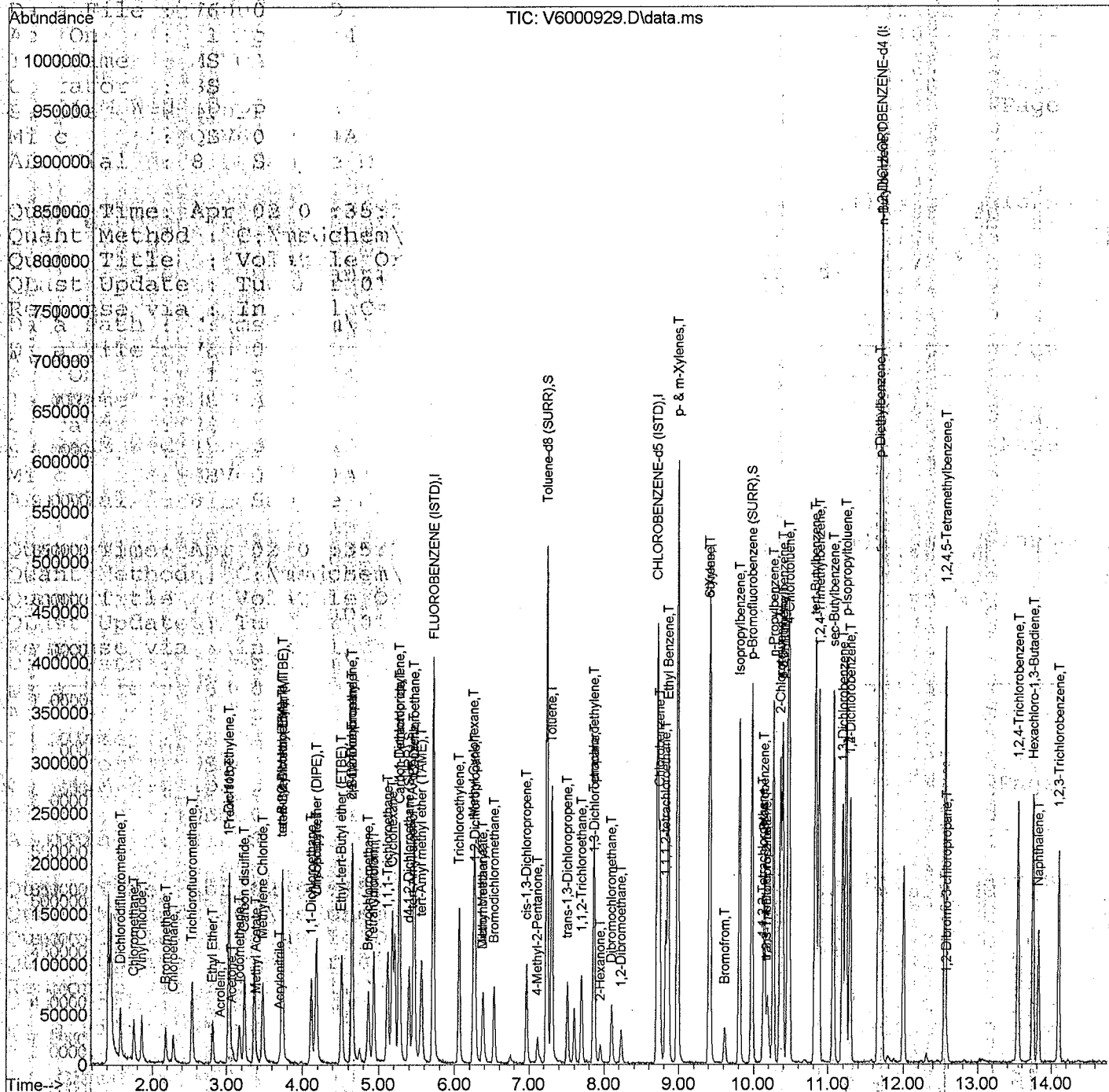
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Data Path : C:\msdchem\1\DATA\040114\  
Data File : V6000929.D  
Acq On    : 1 Apr 2014    1:31 pm  
InstName  : MSVOA6  
Operator  : SS  
Sample    : 4.0PPB VOA CALIBRATION CURVE  
Misc      : QBV6040114A <2 4.0/40 OXY  
ALS Vial  : 8    Sample Multiplier: 1
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Page:

Quant Time: Apr 02 09:35:11 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Apr 01 08:41:01 2014
Response via : Initial Calibration

Data Path: ms



Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000930.D
 Acq On : 1 Apr 2014 2:00 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 10 OPPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 8.0/80 OXY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 02 09:31:42 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.711	70	63729	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.713	117	260511	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.685	152	127294	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.400	65	60894	13.06	ppb	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	130.60%#	
51) Toluene-d8 (SURR)	7.236	98	345623	9.38	ppb	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	93.80%	
70) p-Bromofluorobenzene (...)	9.974	95	122407	9.49	ppb	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	94.90%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.574	85	94631	9.52	ppb	100
3) Chloromethane	1.752	50	93514	6.57	ppb	98
4) Vinyl Chloride	1.861	62	94123	7.14	ppb	99
5) Bromomethane	2.181	94	46797	6.35	ppb	99
6) Chloroethane	2.281	64	54642	6.61	ppb	99
7) Trichlorofluoromethane	2.534	101	144402	10.70	ppb	99
8) Ethyl Ether	2.812	59	48587	8.72	ppb	# 64
9) Freon-113	3.032	101	87357	10.24	ppb	# 73
10) 1,1-Dichloroethylene	3.029	61	132641	8.66	ppb	94
11) Acrolein	2.929	56	2974	5.31	ppb	90
12) Acetone	3.077	43	14617m	12.47	ppb	
13) Iodomethane	3.166	142	107180	11.05	ppb	# 100
14) Methyl Acetate	3.385	43	20776	8.76	ppb	99
15) Carbon disulfide	3.232	76	268279	8.34	ppb	100
16) tert-Butyl Alcohol (TBA)	3.728	59	5531	12.64	ppb	1
17) Methylene Chloride	3.472	49	93568	8.21	ppb	93
18) Acrylonitrile	3.700	53	10902	8.71	ppb	97
19) trans-1,2-Dichloroethy...	3.733	61	128319	8.64	ppb	# 68
20) tert-Butyl Methyl Ethe...	3.733	73	173088	10.26	ppb	99
21) 1,1-Dichloroethane	4.117	63	166226	9.00	ppb	# 97
22) Vinyl Acetate	4.181	43	146408	27.23	ppb	# 98
23) Diisopropyl ether (DIPE)	4.184	45	186737	6.17	ppb	# 96
24) Ethyl-tert-Butyl ether...	4.512	59	184708	7.13	ppb	98
25) cis-1,2-Dichloroethylene	4.649	61	142536	9.36	ppb	99
26) 2-Butanone	4.657	72	4785	10.54	ppb	# 100
27) 2,2-Dichloropropane	4.651	77	147095	10.15	ppb	100
28) Tetrahydrofuran	4.918	71	4151	7.48	ppb	# 1

Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000930.D
 Acq On : 1 Apr 2014 2:00 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 10.0PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 8.0/80 OXY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 02 09:31:42 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) Bromochloromethane	4.863	49	50532	8.96	ppb	# 100
30) Chloroform	4.938	83	165478	10.58	ppb	99
31) 1,1,1-Trichloroethane	5.116	97	171465	11.54	ppb	# 80
32) Cyclohexane	5.180	56	137188	7.96	ppb	88
33) 1,1-Dichloropropylene	5.269	75	137536	9.42	ppb	78
35) Carbon Tetrachloride	5.275	117	154675	12.65	ppb	100
36) tert-Amyl alcohol (TAA)	5.444	59	26532	77.58	ppb	# 74
37) 1,2-Dichloroethane	5.467	62	92799m	12.27	ppb	
38) Benzene	5.461	78	380697	8.91	ppb	99
39) tert-Amyl methyl ether...	5.564	73	158782	7.71	ppb	99
41) Trichloroethylene	6.059	95	105959	8.44	ppb	93
42) Methyl Cyclohexane	6.257	83	175680	7.55	ppb	95
43) Methyl Methacrylate	6.368	69	32434	8.57	ppb	# 50
44) Dibromomethane	6.368	69	32434	8.57	ppb	# 13
45) Bromodichloromethane	6.529	83	111868	9.63	ppb	98
46) 1,2-Dichloropropane	6.271	63	81359	7.34	ppb	95
49) cis-1,3-Dichloropropene	6.963	75	126019	8.64	ppb	93
50) 4-Methyl-2-Pentanone	7.114	43	47028	9.01	ppb	# 80
52) Toluene	7.303	91	461747	8.42	ppb	99
53) trans-1,3-Dichloropropene	7.509	75	98335	9.10	ppb	99
54) 1,1,2-Trichloroethane	7.698	97	53668	8.66	ppb	94
55) 1,3-Dichloropropane	7.870	76	89874	8.46	ppb	# 88
56) Tetrachloroethylene	7.856	166	136460	9.52	ppb	# 100
57) 2-Hexanone	7.948	43	23702m	8.51	ppb	
58) Dibromochloromethane	8.104	129	76367	11.41	ppb	98
59) 1,2-Dibromoethane	8.232	107	51584	10.21	ppb	96
60) Chlorobenzene	8.747	112	300798	9.33	ppb	96
61) 1,1,1,2-Tetrachloroethane	8.825	131	104857	10.86	ppb	95
62) Ethyl Benzene	8.858	91	543381	8.79	ppb	99
63) p- & m-Xylenes	8.983	91	840844	18.01	ppb	98
64) o-Xylene	9.409	91	432766	9.02	ppb	# 100
65) Styrene	9.409	91	432766	9.02	ppb	82
66) Bromoform	9.618	173	43631	11.92	ppb	# 80
68) p-Ethyltoluene	10.386	105	589437	8.79	ppb	# 60
69) Isopropylbenzene	9.810	105	576282	8.35	ppb	99
71) 1,1,2,2-Tetrachloroethane	10.124	83	54420	8.26	ppb	# 100
72) Bromobenzene	10.138	77	179659	7.88	ppb	87
73) trans-1,4-Dichloro-2-b...	10.177	75	61942	8.16	ppb	# 90
74) 1,2,3-Trichloropropane	10.177	110	18987	10.76	ppb	# 1
75) n-Propylbenzene	10.263	91	673079	8.03	ppb	99
76) 2-Chlorotoluene	10.358	91	452253	8.53	ppb	100

Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000930.D
 Acq On : 1 Apr 2014 2:00 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 10 OPPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 8.0/80 OXY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 02 09:31:42 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

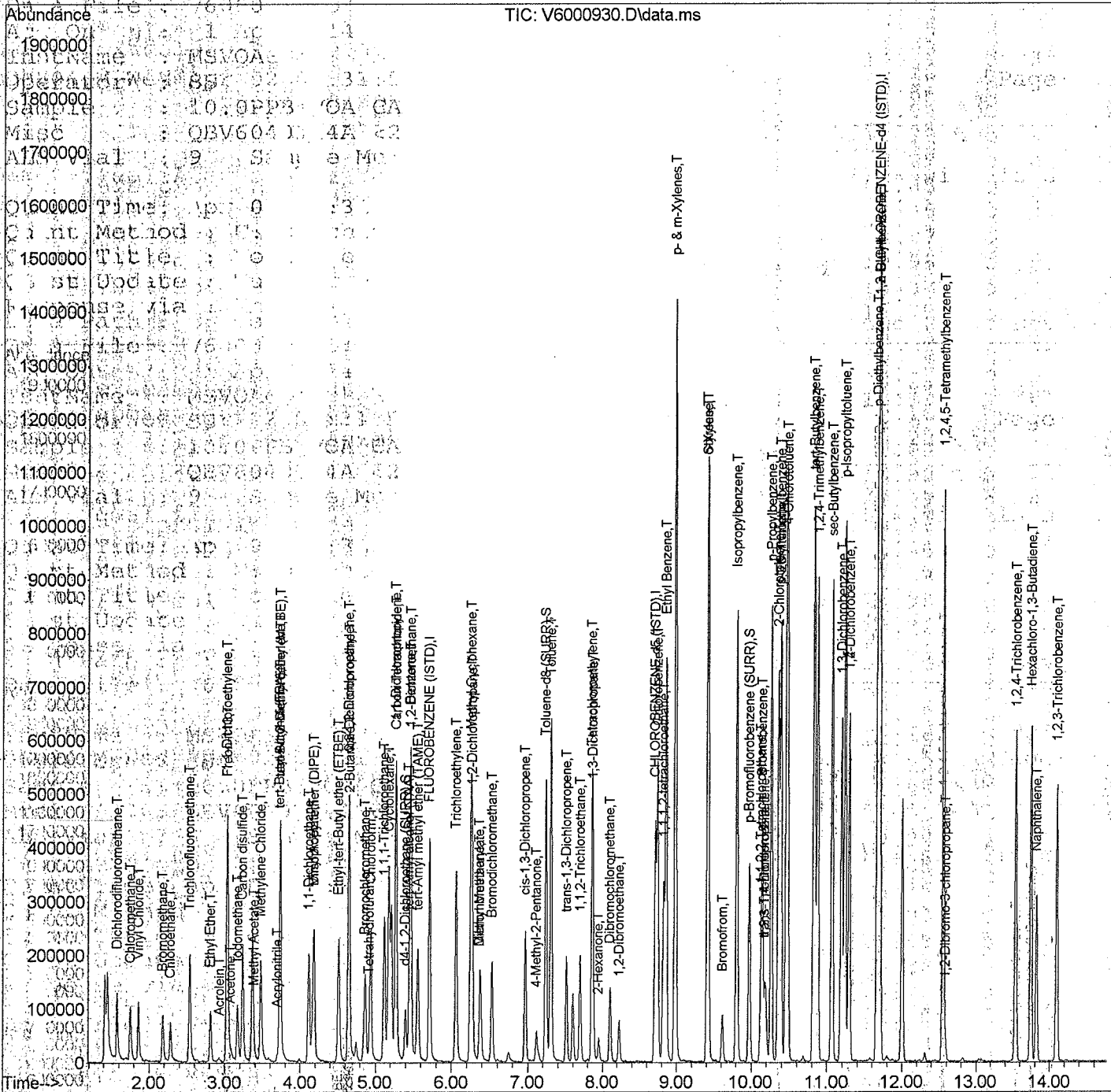
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) 4-Chlorotoluene	10.475	91	459625	8.58	ppb	100
78) 1,3,5-Trimethylbenzene	10.386	105	589437	10.19	ppb	62
79) tert-Butylbenzene	10.822	119	515055	8.92	ppb	100
80) 1,2,4-Trimethylbenzene	10.875	105	530417	9.08	ppb	98
81) sec-Butylbenzene	11.070	105	647698	8.39	ppb	99
82) 1,3-Dichlorobenzene	11.190	146	285788	9.27	ppb	99
83) p-Isopropyltoluene	11.231	119	605821	8.88	ppb	99
84) 1,4-Dichlorobenzene	11.287	146	280738	9.35	ppb	99
85) p-Diethylbenzene	11.665	105	349763	9.07	ppb	98
86) 1,2-Dichlorobenzene	11.287	146	280738	10.98	ppb	99
87) n-Butylbenzene	11.693	91	652642	8.37	ppb	97
88) 1,2-Dibromo-3-chloropr...	12.584	75	15856m	15.75	ppb	98
89) 1,2,4,5-Tetramethylben...	12.556	119	602238	10.70	ppb	98
90) 1,2,4-Trichlorobenzene	13.543	180	213492	9.98	ppb	98
91) Hexachloro-1,3-Butadiene	13.746	225	143301	8.98	ppb	96
92) Naphthalene	13.819	128	255740	9.16	ppb	98
93) 1,2,3-Trichlorobenzene	14.097	180	170082	9.80	ppb	96

Q(##) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\040114\
Data File : V6000930.D
Acq On : 1 Apr 2014 2:00 pm
InstName : MSVOA6
Operator : SS
Sample : 10.0PPB VOA CALIBRATION CURVE
Misc : QBV6040114A <2 8.0/80 OXY
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 02 09:31:42 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Apr 01 08:41:01 2014
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000931.D
 Acq On : 1 Apr 2014 2:30 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 20.0PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 16/160 OXY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 02 09:45:50 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.714	70	65275	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	8.713	117	266642	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.685	152	129324	10.00	ppb	0.00

System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.397	65	62378	13.06	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	130.60%#
51) Toluene-d8 (SURR)	7.236	98	354627	9.40	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.00%
70) p-Bromofluorobenzene (...)	9.971	95	127170	9.71	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.10%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.577	85	186150	18.28	ppb	100
3) Chloromethane	1.752	50	193938	13.30	ppb	99
4) Vinyl Chloride	1.858	62	192126	14.23	ppb	# 86
5) Bromomethane	2.178	94	97390	12.90	ppb	98
6) Chloroethane	2.281	64	107273	12.67	ppb	100
7) Trichlorofluoromethane	2.534	101	289339	20.94	ppb	99
8) Ethyl Ether	2.812	59	102222	17.91	ppb	# 64
9) Freon-113	3.035	101	174891	20.01	ppb	# 75
10) 1,1-Dichloroethylene	3.026	61	284332	18.13	ppb	99
11) Acrolein	2.935	56	7270	12.68	ppb	# 82
12) Acetone	3.076	43	26774m	22.30	ppb	
13) Iodomethane	3.168	142	239073	22.84	ppb	# 100
14) Methyl Acetate	3.383	43	41067	16.91	ppb	99
15) Carbon disulfide	3.232	76	567944	17.23	ppb	100
16) tert-Butyl Alcohol (TBA)	3.733	59	10282	22.94	ppb	18
17) Methylene Chloride	3.474	49	192502	16.49	ppb	93
18) Acrylonitrile	3.700	53	25104	19.58	ppb	# 87
19) trans-1,2-Dichloroethy...	3.733	61	272750	17.93	ppb	# 90
20) tert-Butyl Methyl Ethe...	3.739	73	366137	21.18	ppb	98
21) 1,1-Dichloroethane	4.117	63	342697	18.11	ppb	100
22) Vinyl Acetate	4.181	43	301272	54.70	ppb	# 98
23) Diisopropyl ether (DIPE)	4.184	45	378127	12.19	ppb	99
24) Ethyl-tert-Butyl ether...	4.515	59	369730	13.93	ppb	# 87
25) cis-1,2-Dichloroethylene	4.648	61	302846	19.41	ppb	99
26) 2-Butanone	4.651	72	9742m	20.94	ppb	
27) 2,2-Dichloropropane	4.651	77	306539	20.66	ppb	# 78
28) Tetrahydrofuran	4.924	71	9696m	17.06	ppb	

Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000931.D
 Acq On : 1 Apr 2014 2:30 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 20.0PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 16/160 OXY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 02 09:45:50 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
29) Bromochloromethane	4.865	49	106801	18.49	ppb	# 100
30) Chloroform	4.935	83	346185	21.62	ppb	# 93
31) 1,1,1-Trichloroethane	5.119	97	352887	23.19	ppb	# 80
32) Cyclohexane	5.177	56	277284	15.70	ppb	92
33) 1,1-Dichloropropylene	5.269	75	280988	18.79	ppb	77
35) Carbon Tetrachloride	5.272	117	314753	25.13	ppb	99
36) tert-Amyl alcohol (TAA)	5.444	59	55322	157.93	ppb	# 74
37) 1,2-Dichloroethane	5.469	62	192259	24.81	ppb	# 86
38) Benzene	5.461	78	804070	18.36	ppb	99
39) tert-Amyl methyl ether...	5.561	73	312933	14.84	ppb	99
41) Trichloroethylene	6.062	95	227395	17.71	ppb	93
42) Methyl Cyclohexane	6.254	83	358416	15.04	ppb	94
43) Methyl Methacrylate	6.368	69	67236	17.35	ppb	99
44) Dibromomethane	6.368	69	67236	17.35	ppb	# 12
45) Bromodichloromethane	6.524	83	234915	19.76	ppb	98
46) 1,2-Dichloropropane	6.268	63	169824	14.96	ppb	95
49) cis-1,3-Dichloropropene	6.963	75	263368	17.64	ppb	94
50) 4-Methyl-2-Pentanone	7.111	43	74221	13.89	ppb	94
52) Toluene	7.303	91	943763	16.81	ppb	100
53) trans-1,3-Dichloropropene	7.509	75	213666	19.32	ppb	# 100
54) 1,1,2-Trichloroethane	7.695	97	110632	17.44	ppb	96
55) 1,3-Dichloropropane	7.870	76	188825	17.37	ppb	# 89
56) Tetrachloroethylene	7.859	166	279050	19.01	ppb	# 100
57) 2-Hexanone	7.951	43	51266	17.97	ppb	95
58) Dibromochloromethane	8.104	129	156041	22.79	ppb	96
59) 1,2-Dibromoethane	8.226	107	104035	20.12	ppb	93
60) Chlorobenzene	8.741	112	632529	19.17	ppb	97
61) 1,1,1,2-tetrachloroethane	8.825	131	219066	22.17	ppb	96
62) Ethyl Benzene	8.858	91	1118266	17.67	ppb	99
63) p- & m-Xylenes	8.983	91	1731442	36.24	ppb	98
64) o-Xylene	9.409	91	892028	18.17	ppb	100
65) Styrene	9.409	91	892028	18.17	ppb	82
66) Bromoform	9.618	173	93721	25.02	ppb	99
68) p-Ethyltoluene	10.388	105	1220485	17.92	ppb	# 60
69) isopropylbenzene	9.810	105	1205027	17.19	ppb	99
71) 1,1,2,2-Tetrachloroethane	10.124	83	113619	16.98	ppb	# 100
72) Bromobenzene	10.141	77	404924	17.47	ppb	94
73) trans-1,4-Dichloro-2-b...	10.174	75	132076	17.13	ppb	92
74) 1,2,3-Trichloropropane	10.171	110	38383	21.40	ppb	# 1
75) n-Propylbenzene	10.263	91	1409370	16.54	ppb	99
76) 2-Chlorotoluene	10.355	91	943796	17.52	ppb	100

Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000931.D
 Acq On : 1 Apr 2014 2:30 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 20.0PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 16/160 OXY
 ALS Vial : 10 Sample Multiplier: 1

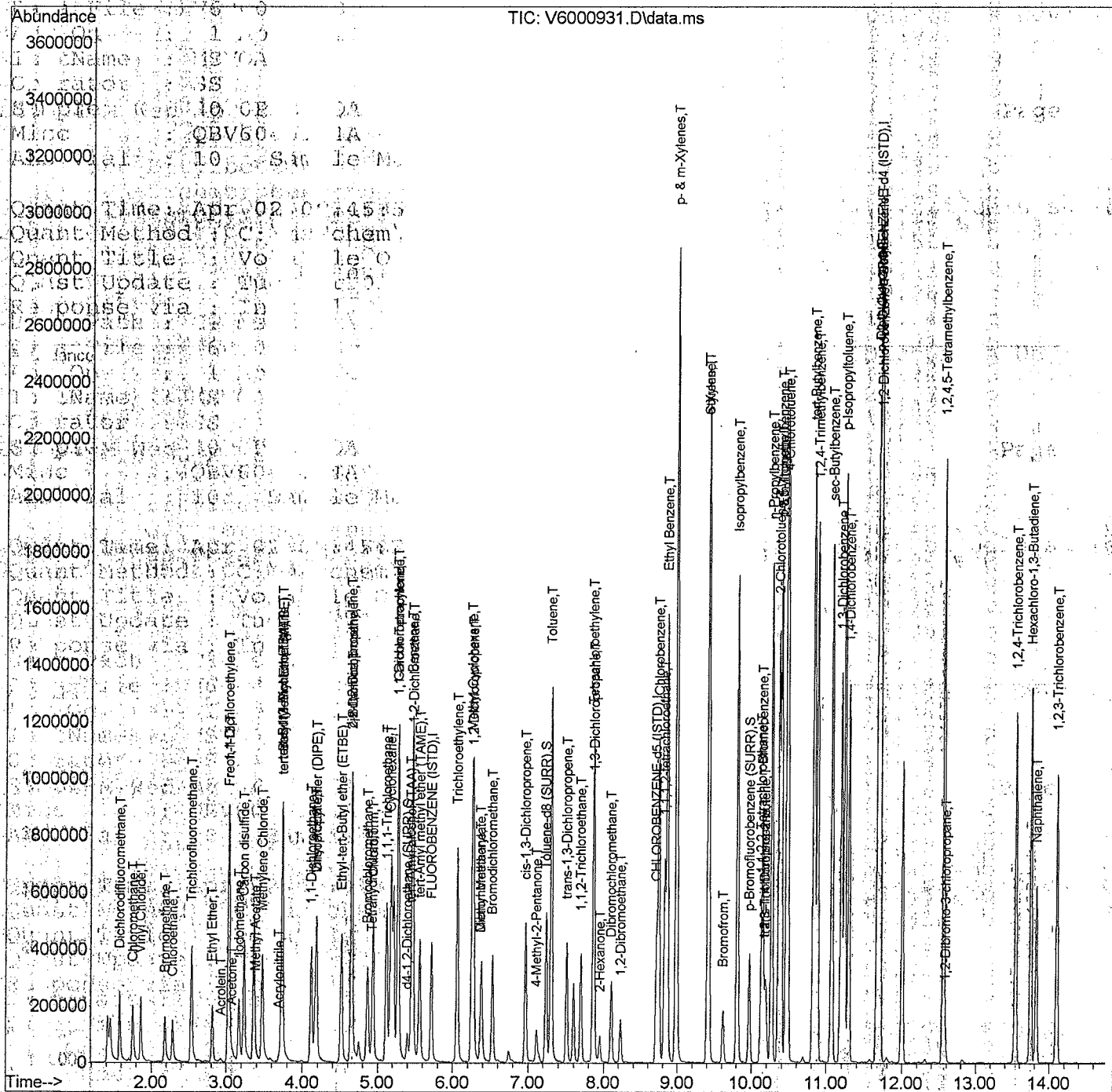
Quant Time: Apr 02 09:45:50 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) 4-Chlorotoluene	10.474	91	969664	17.81	ppb	100
78) 1,3,5-Trimethylbenzene	10.388	105	1220485	20.77	ppb #	63
79) tert-Butylbenzene	10.822	119	1068330	18.20	ppb	99
80) 1,2,4-Trimethylbenzene	10.875	105	1116288	18.82	ppb	97
81) sec-Butylbenzene	11.070	105	1364075	17.39	ppb	99
82) 1,3-Dichlorobenzene	11.187	146	610424	19.49	ppb	99
83) p-Propyltoluene	11.231	119	1270073	18.33	ppb	99
84) 1,4-Dichlorobenzene	11.287	146	595036	19.51	ppb	99
85) p-Diethylbenzene	11.668	105	733124	18.71	ppb	98
86) 1,2-Dichlorobenzene	11.707	146	499872	19.25	ppb #	87
87) n-Butylbenzene	11.693	91	1358272	17.14	ppb	97
88) 1,2-Dibromo-3-chloropr...	12.583	75	28346	27.71	ppb	96
89) 1,2,4,5-Tetramethylben...	12.553	119	1225224	21.43	ppb	99
90) 1,2,4-Trichlorobenzene	13.541	180	435989	20.07	ppb	99
91) Hexachloro-1,3-Butadiene	13.744	225	299751	18.48	ppb	98
92) Naphthalene	13.819	128	530736	18.71	ppb	98
93) 1,2,3-Trichlorobenzene	14.094	180	349840	20.05	ppb	99

Q(##) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\040114\
Data File : V6000931.D
Acq On : 1 Apr 2014 2:30 pm
InstName : MSVOA6
Operator : SS
Sample Vol : 20.0PPB VOA CALIBRATION CURVE
Misc : QBV6040114A <2 16/160 OXY
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 02 09:45:50 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Apr 01 08:41:01 2014
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000932.D
 Acq On : 1 Apr 2014 2:59 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 40.0PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 40/400 OXY
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 02 09:48:58 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.717	70	70263	10.00	ppb	# 0.00
40) CHLOROBEZENE-d5 (ISTD)	8.713	117	270182	10.00	ppb	0.00
67) 1,2-DICHLOROBEZENE-d4...	11.687	152	132571	10.00	ppb	# 0.00

System Monitoring Compounds						
34) 1,2-Dichloroethane ...	5.402	65	63732	12.40	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	124.00%
51) Toluene-d8 (SURR)	7.239	98	367451	9.61	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.10%
70) p-Bromofluorobenzene (...)	9.974	95	132967	9.90	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.574	85	419523	38.28	ppb	100
3) Chloromethane	1.749	50	396579	25.27	ppb	98
4) Vinyl Chloride	1.858	62	403878	27.79	ppb	# 86
5) Bromomethane	2.169	94	162463	19.99	ppb	99
6) Chloroethane	2.270	64	212306	23.29	ppb	100
7) Trichlorofluoromethane	2.526	101	621798	41.80	ppb	99
8) Ethyl Ether	2.809	59	200424	32.62	ppb	# 97
9) Freon-113	3.029	101	388609	41.31	ppb	97
10) 1,1-Dichloroethylene	3.024	61	593354	35.15	ppb	97
11) Acrolein	2.926	56	16175	26.21	ppb	98
12) Acetone	3.079	43	49826m	38.55	ppb	90
13) Iodomethane	3.163	142	489505	41.28	ppb	# 100
14) Methyl Acetate	3.385	43	88359	33.80	ppb	100
15) Carbon disulfide	3.232	76	1221333	34.42	ppb	100
16) tert-Butyl Alcohol (TBA)	3.730	59	22471	46.58	ppb	9
17) Methylene Chloride	3.474	49	391689	31.17	ppb	95
18) Acrylonitrile	3.697	53	41991	30.43	ppb	# 66
19) trans-1,2-Dichloroethy...	3.730	61	569148	34.77	ppb	99
20) tert-Butyl Methyl Ethe...	3.739	73	741411	39.85	ppb	98
21) 1,1-Dichloroethane	4.114	63	687788	33.77	ppb	99
22) Vinyl Acetate	4.181	43	701292	118.30	ppb	# 98
23) Diisopropyl ether (DIPE)	4.187	45	966698	28.96	ppb	99
24) Ethyl-tert-Butyl ether...	4.515	59	950262	33.26	ppb	# 87
25) cis-1,2-Dichloroethylene	4.648	61	609028	36.26	ppb	99
26) 2-Butanone	4.654	72	21075	42.09	ppb	# 100
27) 2,2-Dichloropropane	4.651	77	638948	40.00	ppb	# 78
28) Tetrahydrofuran	4.921	71	16964	27.72	ppb	# 1

Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000932.D
 Acq On : 1 Apr 2014 2:59 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 40.0PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 40/400 OXY
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 02 09:48:58 2014
 Quant Method : C:\msdchem\1\METHODS\V6L00002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) Bromochloromethane	4.868	49	214268	34.47	ppb	# 100
30) Chloroform	4.935	83	694478	40.29	ppb	100
31) 1,1,1-Trichloroethane	5.119	97	737289	45.02	ppb	# 80
32) Cyclohexane	5.177	56	662941	34.87	ppb	91
33) 1,1-Dichloropropylene	5.272	75	595246	36.98	ppb	75
35) Carbon Tetrachloride	5.274	117	683525	50.69	ppb	100
36) tert-Amyl alcohol (TAA)	5.444	59	148249	39.31	ppb	91
37) 1,2-Dichloroethane	5.469	62	394777	47.33	ppb	99
38) Benzene	5.464	78	1613055	34.23	ppb	99
39) tert-Amyl methyl ether...	5.558	73	823278	36.27	ppb	99
41) Trichloroethylene	6.059	95	461321	35.45	ppb	93
42) Methyl Cyclohexane	6.254	83	791806	32.79	ppb	96
43) Methyl Methacrylate	6.373	69	133908	34.10	ppb	97
44) Dibromomethane	6.373	69	133908	34.10	ppb	# 13
45) Bromodichloromethane	6.526	83	484616	40.29	ppb	98
46) 1,2-Dichloropropane	6.270	63	347061	40.18	ppb	95
49) 1,1,2,2-Dichloropropene	6.963	75	539888	51.69	ppb	93
50) Methyl 2-Pentanone	7.113	43	212241	39.21	ppb	87
53) Toluene	7.305	91	1893282	50.33	ppb	100
54) trans-1,3-Dichloropropene	7.509	75	434909	40.88	ppb	100
54) 1,1,2-Trichloroethane	7.698	97	230303	51.82	ppb	94
55) 1,3-Dichloropropane	7.873	76	390818	51.48	ppb	99
56) Tetrachloroethylene	7.862	166	582213	39.15	ppb	# 77
57) 2-Hexanone	7.948	43	108560	37.56	ppb	97
58) Dibromochloromethane	8.104	129	331858	47.83	ppb	97
59) 1,2-Dibromoethane	8.229	107	219532	41.89	ppb	95
60) Chlorobenzene	8.744	112	1270632	37.99	ppb	97
61) 1,1,1,2-tetrachloroethane	8.825	131	456615	45.61	ppb	96
62) Ethyl Benzene	8.861	91	2274143	35.46	ppb	99
63) p- & m-Xylenes	8.986	91	3400511	70.24	ppb	99
64) o-Xylene	9.412	91	1804149	36.27	ppb	100
65) Styrene	9.412	91	1804149	36.27	ppb	83
66) Bromoform	9.615	173	197108	51.94	ppb	# 80
68) p-Ethyltoluene	10.391	105	2505990	35.90	ppb	# 60
69) Isopropylbenzene	9.812	105	2467798	34.34	ppb	99
71) 1,1,2,2-Tetrachloroethane	10.124	83	241244	35.16	ppb	# 100
72) Bromobenzene	10.143	77	850226	35.78	ppb	95
73) trans-1,4-Dichloro-2-b...	10.179	75	270781	34.26	ppb	91
74) 1,2,3-Trichloropropane	10.171	110	80435	43.75	ppb	# 1
75) n-Propylbenzene	10.263	91	2871611	32.88	ppb	98
76) 2-Chlorotoluene	10.360	91	1935674	35.05	ppb	99

Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000932.D
 Acq On : 1 Apr 2014 2:59 pm
 InstName : MSVOA6
 Operator : SS
 Sample : 40.0PPB VOA CALIBRATION CURVE
 Misc : QBV6040114A <2 40/400 OXY
 ALS Vial : 11 Sample Multiplier: 1

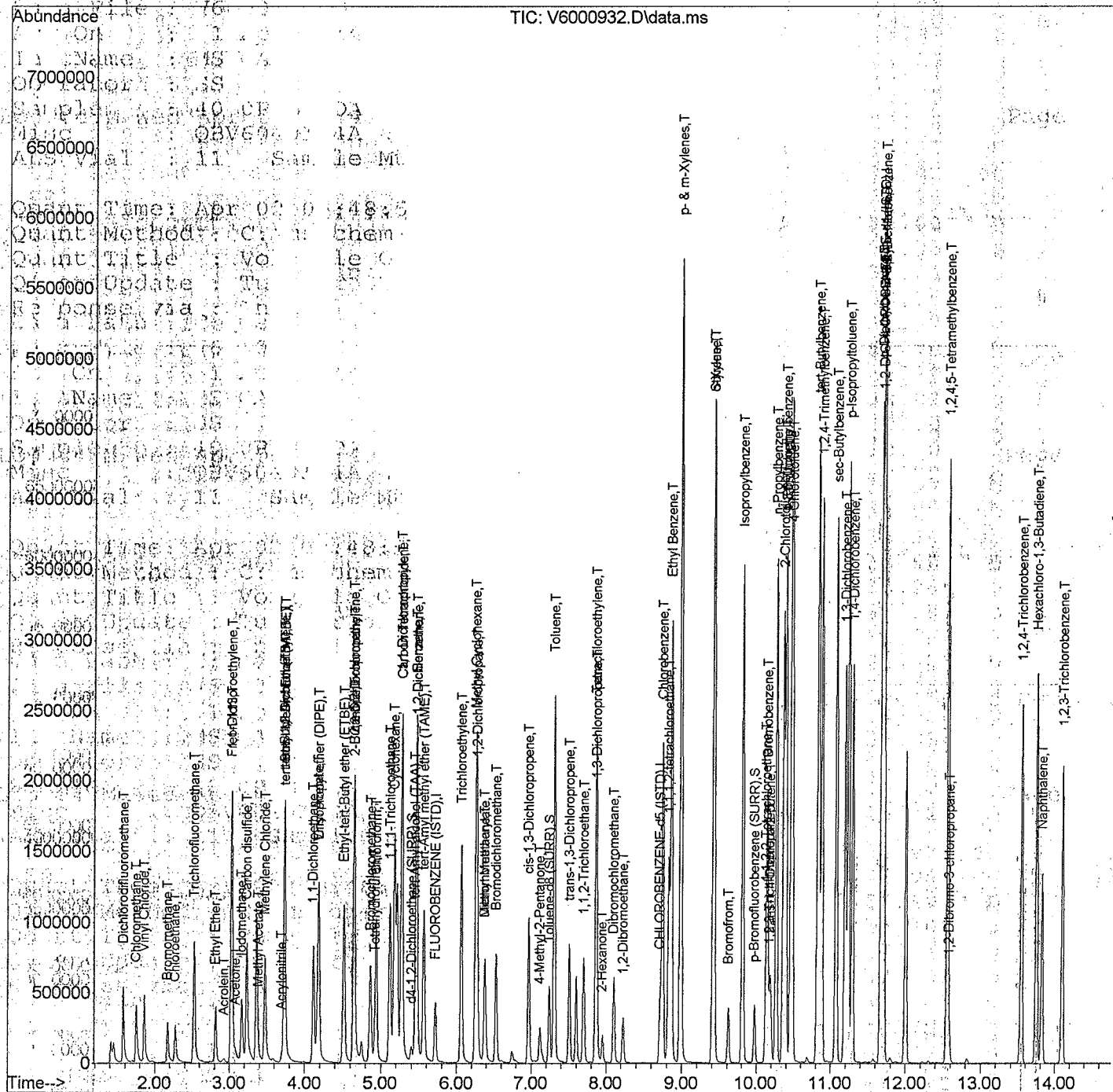
Quant Time: Apr 02 09:48:58 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0002.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Tue Apr 01 08:41:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
77) 4-Chlorotoluene	10.480	91	1959621	35.12	ppb	100
78) 1,3,5-Trimethylbenzene	10.391	105	2505990	41.60	ppb #	62
79) tert-Butylbenzene	10.825	119	2209900	36.73	ppb	98
80) 1,2,4-Trimethylbenzene	10.878	105	2251568	37.03	ppb	99
81) sec-Butylbenzene	11.073	105	2820992	35.08	ppb	98
82) 1,3-Dichlorobenzene	11.192	146	1250277	38.94	ppb	99
83) p-Isopropyltoluene	11.234	119	2603308	36.66	ppb	99
84) 1,4-Dichlorobenzene	11.290	146	1227367	39.26	ppb	98
85) p-Diethylbenzene	11.671	105	1507649	37.53	ppb	97
86) 1,2-Dichlorobenzene	11.707	146	1010391	37.96	ppb #	87
87) n-Butylbenzene	11.699	91	2783876	34.27	ppb	95
88) 1,2-Dibromo-3-chloropr...	12.581	75	53169	50.70	ppb	92
89) 1,2,4,5-Tetramethylben...	12.556	119	2461399	41.99	ppb	99
90) 1,2,4-Trichlorobenzene	13.540	180	888484	39.89	ppb	98
91) Hexachloro-1,3-Butadiene	13.744	225	641796	38.60	ppb	97
92) Naphthalene	13.819	128	1128034	38.80	ppb	98
93) 1,2,3-Trichlorobenzene	14.100	180	724656	40.52	ppb	98

Q(1) = Qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\040114\
Data File : V6000932.D
Acq On : 1 Apr 2014 2:59 pm
InstName : MSVOA6
Operator : SS
Sample : 40.0PPB VOA CALIBRATION CURVE
Misc : QBV6040114A <2 40/400 OXY
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 02 09:48:58 2014
Quant Method : C:\msdchem\1\METHODS\V6L00002.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Apr 01 08:41:01 2014
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000934.D
 Acq On : 1 Apr 2014 3:57 pm
 InstName : MSVOA6
 Operator : SS
 Sample : ICV
 Misc : QBV6040114A <2 8.0/80 OXY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 02 09:57:43 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:49:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.711	70	64150	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.711	117	265635	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.685	152	127464	10.00	ppb	0.00

System Monitoring Compounds						
34) 1,2-Dichloroethane ...	5.397	65	61763	10.31	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	= 103.10%	
51) Toluene-d8 (SURR)	7.236	98	359769	10.05	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	= 100.50%	
70) p-Bromofluorobenzene (...)	9.974	95	127790	10.20	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	= 102.00%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.574	85	117683	12.47	ppb	99
3) Chloromethane	1.755	50	106699	11.10	ppb	99
4) Vinyl Chloride	1.858	62	105728	11.16	ppb	100
5) Bromomethane	2.178	94	51917	11.04	ppb	97
6) Chloroethane	2.284	64	61602	11.65	ppb	99
7) Trichlorofluoromethane	2.534	101	155750	10.46	ppb	98
8) Ethyl ether	2.809	59	47954	10.41	ppb	64
9) Freon-113	3.032	101	97207	10.87	ppb	96
10) 1,1-Dichloroethylene	3.029	61	143906	10.04	ppb	96
11) Acrolein	2.924	56	3603	10.05	ppb	99
12) Acetone	3.071	43	12654	6.43	ppb	93
13) Iodomethane	3.168	142	106339	10.77	ppb	100
14) Methyl Acetate	3.385	43	21272	10.24	ppb	96
15) Carbon disulfide	3.235	76	274961	9.58	ppb	100
16) tert-Butyl Alcohol (TBA)	3.733	59	4660	8.34	ppb	32
17) Methylene Chloride	3.474	49	98436	9.79	ppb	97
18) Acrylonitrile	3.691	53	9842	9.15	ppb	93
19) trans-1,2-Dichloroethy...	3.733	61	135863	10.89	ppb	99
20) tert-Butyl Methyl Ethe...	3.733	73	179745	10.11	ppb	91
21) 1,1-Dichloroethane	4.114	63	170642	10.23	ppb	87
22) Vinyl Acetate	4.181	43	152012	10.43	ppb	98
23) Diisopropyl ether (DIPE)	4.184	45	201305	8.81	ppb	96
24) Ethyl-tert-Butyl ether...	4.515	59	195906	8.83	ppb	82
25) cis-1,2-Dichloroethylene	4.646	61	151175	10.01	ppb	99
26) 2-Butanone	4.649	72	2369	4.38	ppb	100
27) 2,2-Dichloropropane	4.651	77	147554	9.24	ppb	90
28) Tetrahydrofuran	4.924	71	3684	7.40	ppb	94

Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000934.D
 Acq On : 1 Apr 2014 3:57 pm
 InstName : MSVOA6
 Operator : SS
 Sample : IGV
 Misc : QOV6040114A <2 8.0/80 OXY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 02 09:57:43 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:49:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) Bromochloromethane	4.863	49	52972	9.97	ppb	# 100
30) Chloroform	4.935	83	174135	10.08	ppb	# 94
31) 1,1,1-Trichloroethane	5.116	97	177756	10.37	ppb	# 99
32) Cyclohexane	5.177	56	154878	10.71	ppb	95
33) 1,1-Dichloropropylene	5.266	75	146638	10.25	ppb	82
35) Carbon Tetrachloride	5.275	117	156047	9.89	ppb	100
36) tert-Amyl alcohol (TAA)	5.436	59	26631	83.15	ppb	99
37) 1,2-Dichloroethane	5.467	62	92553	9.68	ppb	100
38) Benzene	5.458	78	401179	9.94	ppb	98
39) tert-Amyl methyl ether...	5.561	73	162551	8.54	ppb	99
41) Trichloroethylene	6.059	95	112969	9.69	ppb	93
42) Methyl Cyclohexane	6.254	83	196017	10.50	ppb	97
43) Methyl Methacrylate	6.371	69	33768	10.17	ppb	95
44) Dibromomethane	6.371	69	33768	10.14	ppb	# 11
45) Bromodichloromethane	6.529	83	115218	9.83	ppb	97
46) 1,2-Dichloropropane	6.273	63	87011	9.97	ppb	95
49) cis-1,3-Dichloropropene	6.963	75	126132	9.55	ppb	93
50) 4-Methyl-2-Pentanone	7.111	43	47297	10.74	ppb	# 78
52) Toluene	7.303	91	480167	9.29	ppb	99
53) Trans-1,3-Dichloropropene	7.506	75	102676	9.54	ppb	100
54) 1,1,2-Trichloroethane	7.698	97	54109	9.07	ppb	96
55) 1,3-Dichloropropane	7.868	76	95279	9.50	ppb	# 89
56) Tetrachloroethylene	7.856	166	140390	9.58	ppb	# 100
57) 2-Hexanone	7.948	43	25143	8.80	ppb	95
58) Dibromochloromethane	8.101	129	77207	9.69	ppb	96
59) 1,2-Dibromoethane	8.229	107	49768	8.96	ppb	90
60) Chlorobenzene	8.744	112	318920	9.83	ppb	96
61) 1,1,1,2-Tetrachloroethane	8.822	131	108584	9.54	ppb	97
62) Ethyl Benzene	8.858	91	564790	9.68	ppb	100
63) p- & m-Xylenes	8.983	91	892457	19.40	ppb	97
64) o-Xylene	9.406	91	453836	9.69	ppb	100
65) Styrene	9.406	91	453836	9.69	ppb	80
66) Bromoform	9.618	173	45057	9.54	ppb	99
68) p-Ethyltoluene	10.386	105	634189	10.36	ppb	# 60
69) Isopropylbenzene	9.807	105	610902	9.86	ppb	99
71) 1,1,2,2-Tetrachloroethane	10.124	83	55243	9.23	ppb	# 100
72) Bromobenzene	10.138	77	205883	10.10	ppb	94
73) trans-1,4-Dichloro-2-b...	10.180	75	64430	9.43	ppb	# 90
74) 1,2,3-Trichloropropane	10.174	110	17987	8.87	ppb	# 1
75) n-Propylbenzene	10.260	91	717575	9.86	ppb	99
76) 2-Chlorotoluene	10.355	91	478464	9.90	ppb	99

Data Path : C:\msdchem\1\DATA\040114\
Data File : V6000934.D
Acq On : 1 Apr 2014 3:57 pm
InstName : MSVOA6
Operator : SS
Sample : ICV
Misc : QBV6040114A <2 8.0/80 OXY
ALS Vial : 13 Sample Multiplier: 1

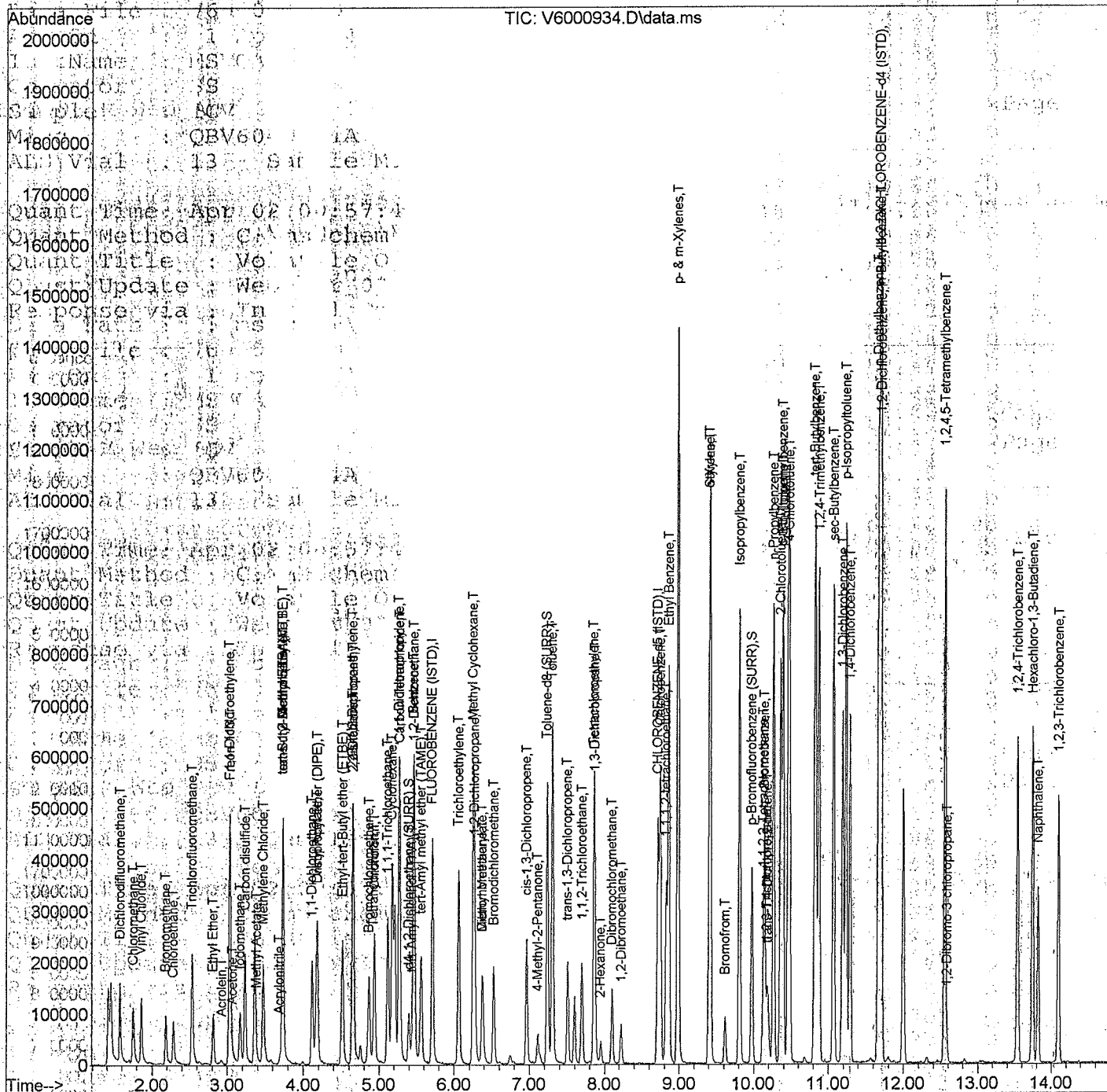
Quant Time: Apr 02 09:57:43 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:49:29 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
77) 4-Chlorotoluene	10.475	91	486204	9.84	ppb	100
78) 1,3,5-Trimethylbenzene	10.386	105	634189	10.36	ppb	64
79) tert-Butylbenzene	10.820	119	538846	9.86	ppb	99
80) 1,2,4-Trimethylbenzene	10.875	105	559590	9.85	ppb	98
81) sec-Butylbenzene	11.067	105	692153	9.96	ppb	98
82) 1,3-Dichlorobenzene	11.187	146	303627	9.68	ppb	99
83) p-Isopropyltoluene	11.229	119	640430	9.89	ppb	99
84) 1,4-Dichlorobenzene	11.287	146	301495	9.68	ppb	99
85) p-Diethylbenzene	11.665	105	375469	10.25	ppb	98
86) 1,2-Dichlorobenzene	11.704	146	250945	9.08	ppb	99
87) n-Butylbenzene	11.693	91	694910	9.92	ppb	97
88) 1,2-Dibromo-3-chloropr...	12.584	75	11506	7.94	ppb	93
89) 1,2,4,5-Tetramethylben...	12.553	119	634408	10.27	ppb	99
90) 1,2,4-Trichlorobenzene	13.538	180	220032	9.58	ppb	98
91) Hexachloro-1,3-Butadiene	13.744	225	151155	9.60	ppb	98
92) Naphthalene	13.816	128	274690	9.47	ppb	98
93) 1,2,3-Trichlorobenzene	14.094	180	179670	9.64	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : C:\msdchem\1\DATA\040114\  
Data File : V6000934.D  
Acq On    : 1 Apr 2014    3:57 pm  
InstName  : MSVOA6  
Operator  : SS  
Sample    : ICV  
Misc      : QBV6040114A <2 8.0/80 OXY  
ALS Vial  : 13    Sample Multiplier: 1
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Quant Time: Apr 02 09:57:43 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:49:29 2014
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000962.D
 Acq On : 2 Apr 2014 9:58 am
 InstName : MSVOA6
 Operator : SS
 Sample : 10PPB VOA CAL CHECK STD
 Misc : QBV6040214A <2
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 10:19:06 2014
 Quant Method : C:\msdchem\1\METHODS\V6L00004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:49:29 2014
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I FLUOROBENZENE (ISTD)	1.000	1.000	0.0	101	0.00
2 T Dichlorodifluoromethane	1.471	1.369	6.9	93	0.00
3 T Chloromethane	1.499	1.493	0.4	103	0.00
4 T Vinyl Chloride	1.477	1.488	-0.7	102	0.00
5 T Bromomethane	0.733	0.827	-12.8	114	0.01
6 T Chloroethane	0.825	0.941	-14.1	111	0.01
7 T Trichlorofluoromethane	2.321	2.346	-1.1	105	0.01
8 T Ethyl Ether	0.718	0.743	-3.5	99	0.00
9 T Freon-113	1.394	1.374	1.4	102	0.00
10 T 1,1-Dichloroethylene	2.233	2.236	-0.1	109	0.00
11 T Acrolein	0.056	0.040	28.6#	86	0.00
12 T Acetone	0.307	0.179	41.7#	79	0.00
13 T Iodomethane	1.540	1.737	-12.8	105	0.00
14 T Methyl Acetate	0.324	0.293	9.6	91	0.00
15 T Carbon disulfide	4.473	4.446	0.6	107	0.00
16 T tert-Butyl Alcohol (TBA)	0.087	0.068	21.8	80	0.00
17 T Methylene Chloride	1.568	1.516	3.3	105	0.00
18 T Acrylonitrile	0.168	0.141	16.1	83	0.00
19 T trans-1,2-Dichloroethylene	1.944	2.166	-11.4	109	0.00
20 T tert Butyl Methyl Ether (MT)	2.771	2.727	1.6	102	0.00
21 T 1,1-Dichloroethane	2.600	2.704	-4.0	105	0.00
22 T Vinyl Acetate	2.626	0.713	72.8#	31#	-0.02
23 T Diisopropyl ether (DIPE)	3.562	0.001	100.0#	0#	0.00
24 T Ethyl-tert-Butyl ether (ETB)	3.457	0.058	98.3#	2#	0.14
25 T cis-1,2-Dichloroethylene	2.355	2.418	-2.7	110	0.00
26 T 2-Butanone	0.086	0.077	10.5	103	0.00
27 T 2,2-Dichloropropane	2.489	2.582	-3.7	113	0.00
28 T Tetrahydrofuran	0.081	0.064	21.0	99	0.00
29 T Bromochloromethane	0.828	0.826	0.2	106	0.00
30 T Chloroform	2.693	2.645	1.8	103	0.00
31 T 1,1,1-Trichloroethane	2.672	2.716	-1.6	102	0.00
32 T Cyclohexane	2.255	2.267	-0.5	107	0.00
33 T 1,1-Dichloropropylene	2.229	2.208	0.9	104	0.00
34 S d4-1,2-Dichloroethane (SURR)	0.934	0.971	-4.0	103	0.00
35 T Carbon Tetrachloride	2.459	2.484	-1.0	104	0.00
36 T tert Amyl alcohol (TAA)	0.050	0.000	100.0#	1#	0.01
37 T 1,2-Dichloroethane	1.490	1.458	2.1	102	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000962.D
 Acq On : 2 Apr 2014 9:58 am
 InstName : MSVOA6
 Operator : SS
 Sample : 10PPB VOA CAL CHECK STD
 Misc : QOV6040214A <2
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 10:19:06 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:49:29 2014
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

Sample	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38 T	Benzene	6.292	6.231	1.0	106	0.00
39 T	tert-Amyl methyl ether (TAM)	2.968	0.147	95.0#	5#	-0.10
40 T	CHLORO BENZENE-d5 (ISTD)	1.000	1.000	0.0	98	0.00
41 T	Trichloroethylene	0.439	0.442	-0.7	106	0.00
42 T	Methyl Cyclohexane	0.703	0.710	-1.0	103	0.00
43 T	Methyl Methacrylate	0.125	0.116	7.2	92	0.00
44 T	Dibromomethane	0.125	0.116	7.2	92	0.00
45 T	Bromodichloromethane	0.441	0.459	-4.1	105	0.00
46 T	1,2-Dichloropropane	0.328	0.343	-4.6	108	0.00
47 T	1,4-Dioxane	0.000	0.000	0.0	0#	-0.14
48 T	2-Chloroethyl vinyl ether	0.000	0.156	0.0	0#	0.07
49 T	cis-1,3-Dichloropropene	0.497	0.512	-3.0	104	0.00
50 T	4-Methyl-2-Pentanone	0.166	0.183	-10.2	99	0.00
51 S	Toluene-d8 (SURR)	1.347	1.372	-1.9	101	0.00
52 T	Toluene	1.945	1.878	3.4	104	0.00
53 T	trans-1,3-Dichloropropene	0.405	0.407	-0.5	106	0.00
54 T	1,1,2-Trichloroethane	0.225	0.219	2.7	104	0.00
55 T	1,3-Dichloropropane	0.377	0.368	2.4	104	0.00
56 T	Tetrachloroethylene	0.552	0.552	0.0	103	0.00
57 T	2-Hexanone	0.108	0.091	15.7	98	0.00
58 T	Dibromochloromethane	0.300	0.294	2.0	98	0.00
59 T	1,2-Dibromoethane	0.209	0.198	5.3	98	0.00
60 T	Chlorobenzene	1.222	1.239	-1.4	105	0.00
61 T	1,1,1,2-tetrachloroethane	0.429	0.421	1.9	102	0.00
62 T	Ethyl Benzene	2.196	2.208	-0.5	104	0.00
63 T	p- & m-xylenes	1.732	1.723	0.5	105	0.00
64 T	o-xylene	1.763	1.781	-1.0	105	0.00
65 T	Styrene	1.763	1.781	-1.0	105	0.00
66 T	Bromofrom	0.178	0.178	0.0	104	0.00
67 I	1,2-DICHLORO BENZENE-d4 (IST)	1.000	1.000	0.0	97	0.00
68 T	p-Ethyltoluene	4.803	4.852	-1.0	102	0.00
69 T	Isopropylbenzene	4.861	4.983	-2.5	107	0.00
70 S	p-Bromofluorobenzene (SURR)	0.983	1.018	-3.6	103	0.00
71 T	1,1,2,2-Tetrachloroethane	0.470	0.430	8.5	98	0.00
72 T	Bromobenzene	1.600	1.545	3.4	106	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000962.D
 Acq On : 2 Apr 2014 9:58 am
 InstName : MSVOA6
 Operator : SS
 Sample : 10PPB VOA CAL CHECK STD
 Misc : QBV6040214A <2
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 10:19:06 2014
 Quant Method : C:\msdchem\1\METHODS\V6L00004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:49:29 2014
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
trans-1,4-Dichloro-2-butene	0.536	0.479	10.6	96	0.00
1,2,3-Trichloropropane	0.159	0.150	5.7	98	0.00
n-Propylbenzene	5.711	5.757	-0.8	106	0.00
2-Chlorotoluene	3.793	3.811	-0.5	104	0.00
4-Chlorotoluene	3.875	3.935	-1.5	106	0.00
1,3,5-Trimethylbenzene	4.803	4.852	-1.0	102	0.00
tert-Butylbenzene	4.289	4.300	-0.3	103	0.00
1,2,4-Trimethylbenzene	4.456	4.499	-1.0	105	0.00
sec-Butylbenzene	5.453	5.520	-1.2	105	0.00
1,3-Dichlorobenzene	2.460	2.412	2.0	104	0.00
p-Isopropyltoluene	5.082	5.116	-0.7	104	0.00
1,4-Dichlorobenzene	2.443	2.338	4.3	103	0.00
p-Diethylbenzene	2.873	2.868	0.2	101	0.00
1,2-Dichlorobenzene	2.168	1.969	9.2	87	0.00
n-Butylbenzene	5.495	5.551	-1.0	105	0.00
1,2-Dibromo-3-chloropropane	0.114	0.093	18.4	72	0.00
1,2,4,5-Tetramethylbenzene	4.848	4.926	-1.6	101	0.00
1,2,4-Trichlorobenzene	1.801	1.730	3.9	100	0.00
Hexachloro-1,3-Butadiene	1.236	1.219	1.4	105	0.00
Naphthalene	2.276	2.029	10.9	98	0.00
1,2,3-Trichlorobenzene	1.463	1.422	2.8	103	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000962.D
 Acq On : 2 Apr 2014 9:58 am
 InstName : MSVOA6
 Operator : SS
 Sample : 10PPB VOA CAL CHECK STD
 Misc : QBV6040214A <2
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 10:19:06 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:49:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.720	70	64591	10.00	ppb	0.00
40) CHLOROBEZENE-d5 (ISTD)	8.713	117	255158	10.00	ppb	0.00
67) 1,2-DICHLOROBEZENE-d4...	11.685	152	123719	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.397	65	62701	10.39	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.90%
51) Toluene-d8 (SURR)	7.236	98	350189	10.19	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.90%
70) p-Bromofluorobenzene (...)	9.974	95	125898	10.35	ppb	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.50%
Target Compounds						
2) Dichlorodifluoromethane	1.574	85	88449	9.31	ppb	# 86
3) Chloromethane	1.752	50	96454	9.96	ppb	# 98
4) Vinyl Chloride	1.861	62	96090	10.07	ppb	# 100
5) Bromomethane	2.181	94	53391	11.27	ppb	# 98
6) Chloroethane	2.284	64	60755	11.41	ppb	# 100
7) Trichlorofluoromethane	2.537	101	151515	10.11	ppb	# 100
8) Ethyl Ether	2.815	59	47962	10.34	ppb	# 99
9) Freon-113	3.035	101	88777	9.86	ppb	# 95
10) 1,1-Dichloroethylene	3.029	61	144422	10.01	ppb	# 98
11) Acrolein	2.929	56	2562	7.10	ppb	# 99
12) Acetone	3.076	43	11594	5.85	ppb	# 96
13) Iodomethane	3.171	142	112186	11.28	ppb	# 100
14) Methyl Acetate	3.385	43	18935	9.05	ppb	# 98
15) Carbon disulfide	3.235	76	287184	9.94	ppb	# 100
16) tert-Butyl Alcohol (TBA)	3.736	59	4424	7.87	ppb	# 1
17) Methylene Chloride	3.477	49	97897	9.67	ppb	# 98
18) Acrylonitrile	3.700	53	9096	8.40	ppb	# 91
19) trans-1,2-Dichloroethy...	3.733	61	139899	11.14	ppb	# 100
20) tert-Butyl Methyl Ethe...	3.736	73	176147	9.84	ppb	# 98
21) 1,1-Dichloroethane	4.117	63	174623	10.40	ppb	# 100
22) Vinyl Acetate	4.159	43	46057	2.95	ppb	# 100
25) cis-1,2-Dichloroethylene	4.646	61	156204	10.27	ppb	# 99
26) 2-Butanone	4.651	72	4948	9.95	ppb	# 100
27) 2,2-Dichloropropane	4.657	77	166771	10.37	ppb	# 89
28) Tetrahydrofuran	4.916	71	4110	8.26	ppb	# 92
29) Bromochloromethane	4.868	49	53345	9.97	ppb	# 100
30) Chloroform	4.935	83	170874	9.83	ppb	# 94

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000962.D
 Acq On : 2 Apr 2014 9:58 am
 InstName : MSVOA6
 Operator : SS
 Sample : 10PPB VOA CAL CHECK STD
 Misc : QBV6040214A <2
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 10:19:06 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:49:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) 1,1,1-Trichloroethane	5.119	97	175400	10.16	ppb	# 80
32) Cyclohexane	5.177	56	146457	10.06	ppb	95
33) 1,1-Dichloropropylene	5.266	75	142606	9.90	ppb	77
35) Carbon Tetrachloride	5.274	117	160444	10.10	ppb	100
36) tert-Amyl alcohol (TAA)	5.458	59	224	0.69	ppb	# 71
37) 1,2-Dichloroethane	5.469	62	94204	9.79	ppb	# 98
38) Benzene	5.461	78	402484	9.90	ppb	98
39) tert-Amyl methyl ether...	5.461	73	7612	0.40	ppb	# 84
41) Trichloroethylene	6.062	95	112806	10.07	ppb	94
42) Methyl Cyclohexane	6.257	83	181148	10.11	ppb	96
43) Methyl Methacrylate	6.373	69	29725	9.32	ppb	# 50
44) Dibromomethane	6.373	69	29725	9.29	ppb	# 15
45) Bromodichloromethane	6.526	83	117128	10.41	ppb	98
46) 1,2-Dichloropropane	6.271	63	87610	10.45	ppb	95
49) cis-1,3-Dichloropropene	6.966	75	130522	10.28	ppb	94
50) 4-Methyl-2-Pentanone	7.116	43	46617	11.02	ppb	# 79
52) Toluene	7.306	91	479186	9.66	ppb	100
53) trans-1,3-Dichloropropene	7.511	75	103769	10.04	ppb	# 91
54) 1,1,2-Trichloroethane	7.698	97	55882	9.75	ppb	93
55) 1,3-Dichloropropane	7.870	76	93779	9.74	ppb	99
56) Tetrachloroethylene	7.859	166	140954	10.01	ppb	# 99
57) 2-Hexanone	7.954	43	23333	8.50	ppb	# 89
58) Dibromochloromethane	8.104	129	75135	9.82	ppb	95
59) 1,2-Dibromomethane	8.226	107	50420	9.45	ppb	95
60) Chlorobenzene	8.744	112	316268	10.15	ppb	97
61) 1,1,1,2-Tetrachloroethane	8.825	131	107310	9.81	ppb	96
62) Ethyl Benzene	8.858	91	563448	10.06	ppb	99
63) p- & m-Xylenes	8.983	91	879427	9.90	ppb	97
64) o-Xylene	9.406	91	454317	10.10	ppb	99
65) Styrene	9.406	91	454317	10.10	ppb	82
66) Bromoform	9.620	173	45443	10.02	ppb	99
68) p-Ethyltoluene	10.388	105	600251	10.10	ppb	# 60
69) Isopropylbenzene	9.807	105	616509	10.25	ppb	99
71) 1,1,2,2-Tetrachloroethane	10.124	83	53197	9.15	ppb	# 100
72) Bromobenzene	10.143	77	191090	9.66	ppb	90
73) trans-1,4-Dichloro-2-b...	10.177	75	59205	8.93	ppb	# 86
74) 1,2,3-Trichloropropane	10.177	110	18527	9.41	ppb	# 1
75) n-Propylbenzene	10.263	91	712281	10.08	ppb	99
76) 2-Chlorotoluene	10.358	91	471516	10.05	ppb	99
77) 4-Chlorotoluene	10.477	91	486810	10.15	ppb	100
78) 1,3,5-Trimethylbenzene	10.388	105	600251	10.10	ppb	# 62

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000962.D
 Acq On : 2 Apr 2014 9:58 am
 InstName : MSVOA6
 Operator : SS
 Sample : 10PPB VOA CAL CHECK STD
 Misc : QBV6040214A <2
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 10:19:06 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:49:29 2014
 Response via : Initial Calibration

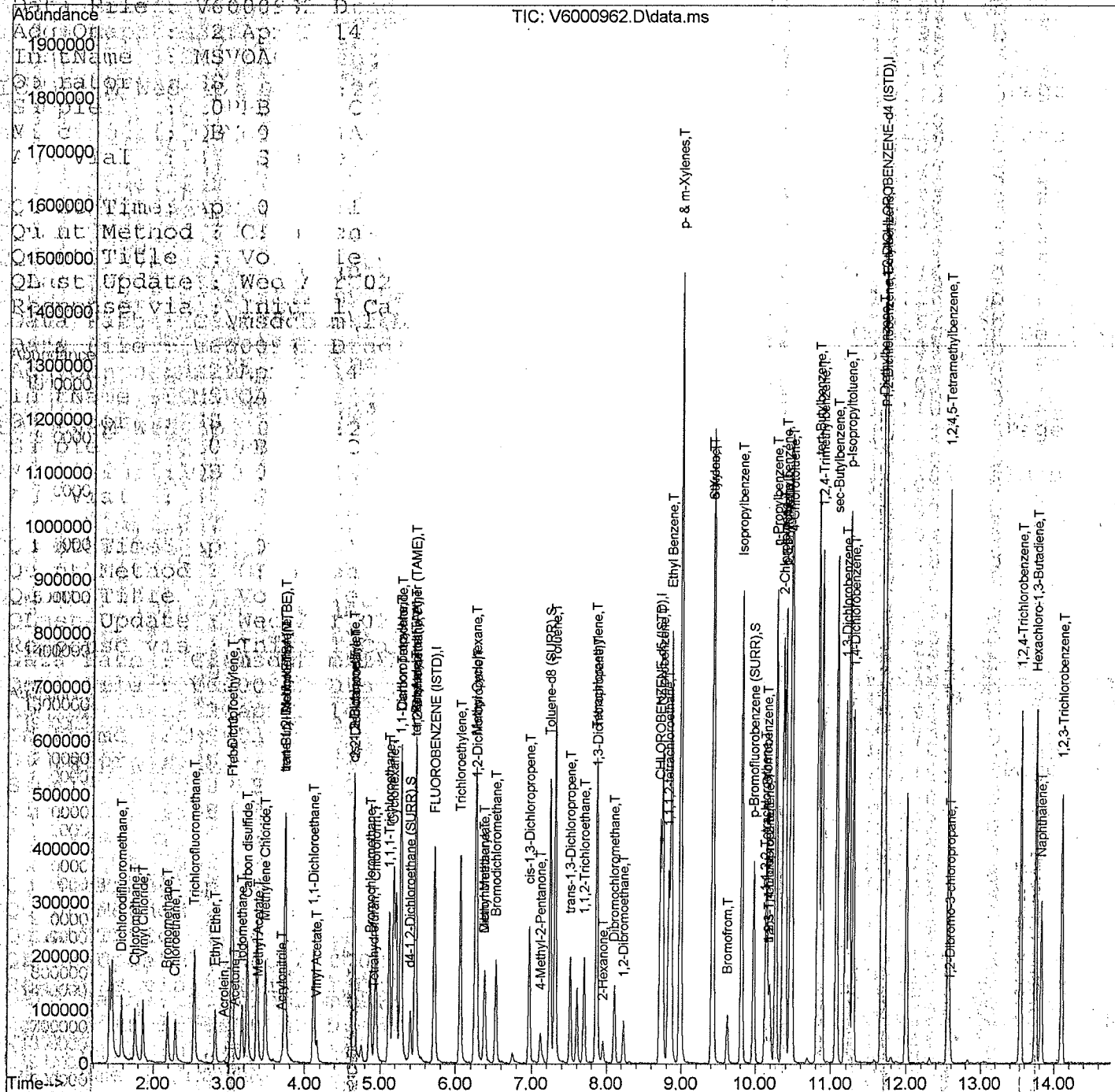
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) tert-Butylbenzene	10.822	119	532046	10.03	ppb	99
80) 1,2,4-Trimethylbenzene	10.875	105	556550	10.10	ppb	97
81) sec-Butylbenzene	11.070	105	682874	10.12	ppb	99
82) 1,3-Dichlorobenzene	11.187	146	298429	9.80	ppb	99
83) p-Isopropyltoluene	11.231	119	632916	10.07	ppb	99
84) 1,4-Dichlorobenzene	11.290	146	289248	9.57	ppb	99
85) p-Diethylbenzene	11.665	105	354885	9.98	ppb	97
86) 1,2-Dichlorobenzene	11.707	146	243657	9.09	ppb	100
87) n-Butylbenzene	11.696	91	686757	10.10	ppb	97
88) 1,2-Dibromo-3-chloropr...	12.583	75	11472	8.16	ppb	96
89) 1,2,4,5-Tetramethylben...	12.556	119	609420	10.16	ppb	98
90) 1,2,4-Trichlorobenzene	13.538	180	214045	9.61	ppb	99
91) Hexachloro-1,3-Butadiene	13.741	225	150853	9.87	ppb	97
92) Naphthalene	13.819	128	251025	8.91	ppb	99
93) 1,2,3-Trichlorobenzene	14.100	180	175978	9.72	ppb	99

A(##) = qualifier out of range (m) = manual integration (+) = signals summed

(Not Reviewed)

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Data Path : C:\msdchem\1\DATA\040214\  
Data File : V6000962.D  
Acq On    : 2 Apr 2014    9:58 am  
InstName  : MSVOA6  
Operator  : SS  
Sample    : 10PPB VOA CAL CHECK STD  
Misc      : QBV6040214A <2  
ALS Vial  : 3    Sample Multiplier: 1
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Quant Time: Apr 02 10:19:06 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:49:29 2014
Response via : Initial Calibration
Data Path : C:\msdchem\1\DATA



FORM V**ANALYSIS BATCH (SEQUENCE) SUMMARY****EPA 8260C**Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVS

Sequence:

Instrument:

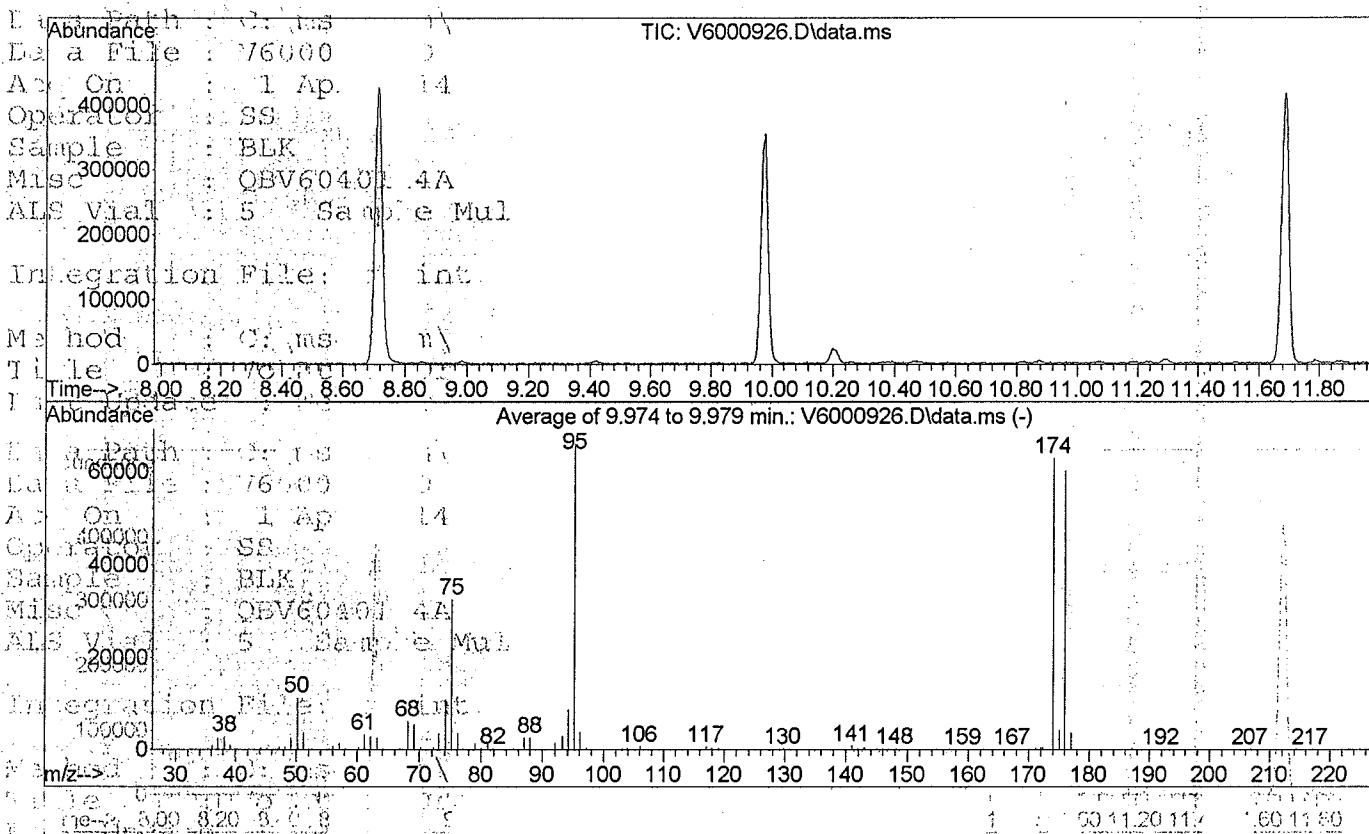
Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	BD40104-BS1	V6000963.D	04/02/14 10:40
LCS Dup	BD40104-BSD1	V6000964.D	04/02/14 11:09
Blank	BD40104-BLK1	V6000965.D	04/02/14 11:39
KC-MW-01 0314	14C0922-01	V6000971.D	04/02/14 14:18
KC-MW-02 0314	14C0922-02	V6000972.D	04/02/14 15:17
KC-MW-05 0314	14C0922-03	V6000974.D	04/02/14 15:46
KC-FD-01	14C0922-04	V6000976.D	04/02/14 16:44
Trip Blank 0314	14C0922-05	V6000977.D	04/02/14 17:43

Data Path : C:\msdchem\1\DATA\040114\
 Data File : V6000926.D
 Acq On : 1 Apr 2014 12:00 pm
 Operator : SS
 Sample : BLK
 Misc : QBV6040114A
 ALS Vial : 5 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\V6LO0004.M
 Title : Volatile Organics EPA 8260C
 Last Update : Wed Apr 02 09:56:33 2014



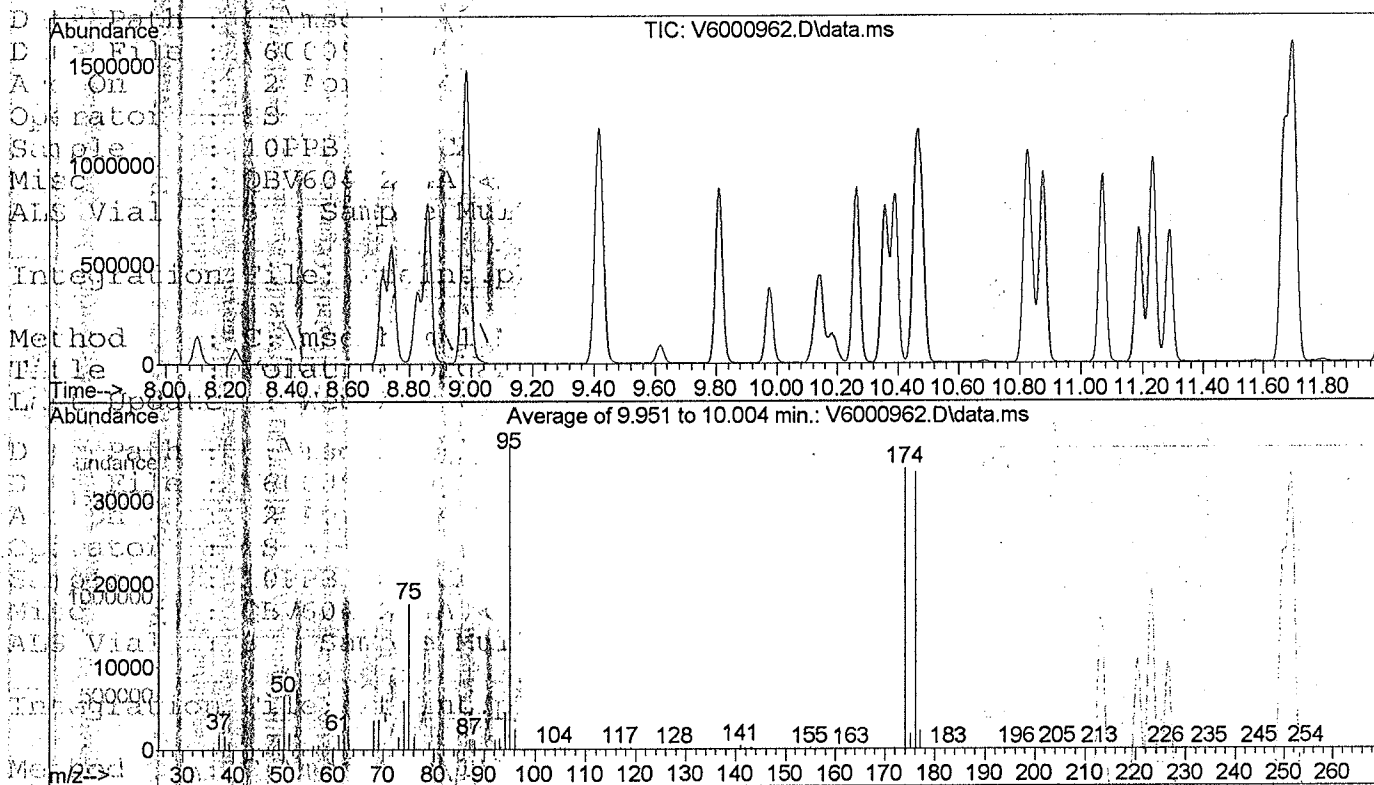
Spectrum Information: Average of 9.974 to 9.979 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	11236	PASS
75	95	30	60	49.2	32499	PASS
95	95	100	100	100.0	66053	PASS
96	95	5	9	5.8	3800	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	95.3	62949	PASS
175	174	5	9	6.7	4196	PASS
176	174	95	101	95.6	60205	PASS
177	176	5	9	6.0	3598	PASS

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000962.D
 Acq On : 2 Apr 2014 9:58 am
 Operator : SS
 Sample : 10PPB VOA CAL CHECK STD
 Misc : QBV6040214A <2
 ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\V6LO0004.M
 Title : Volatile Organics EPA 8260C
 Last Update : Wed Apr 02 09:56:33 2014



Spectrum Information: Average of 9.951 to 10.004 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	6412	PASS
75	95	30	60	47.5	17547	PASS
95	95	100	100	100.0	36946	PASS
96	95	5	9	6.6	2436	PASS
173	174	0.00	2	0.0	30230	PASS
174	95	50	100	91.7	33867	PASS
175	174	5	9	5.4	1823	PASS
176	174	95	101	98.7	33414	PASS
177	176	5	9	6.6	2194	PASS

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BD40104-BLK1 File ID: V6000965.D
 Prepared: 04/02/14 08:46 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Analyzed: 04/02/14 11:39 Instrument: MSVOA6
 Batch: BD40104 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
563-58-6	1,1-Dichloropropylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.28	J
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.20	J
95-63-6	1,2,4-Trimethylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
78-93-3	2-Butanone	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
591-78-6	2-Hexanone	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
71-43-2	Benzene	0.50	U
108-86-1	Bromobenzene	0.50	U

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BD40104-BLK1 File ID: V6000965.D
 Prepared: 04/02/14 08:46 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Analyzed: 04/02/14 11:39 Instrument: MSVOA6
 Batch: BD40104 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
124-48-1	Dibromochloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
75-09-2	Methylene chloride	2.0	U
91-20-3	Naphthalene	2.0	U
104-51-8	n-Butylbenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
99-87-6	p-Isopropyltoluene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
100-42-5	Styrene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water Laboratory ID: BD40104-BLK1 File ID: V6000965.D
 Prepared: 04/02/14 08:46 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Analyzed: 04/02/14 11:39 Instrument: MSVOA6
 Batch: BD40104 Sequence: Calibration:

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.8	108	81 - 123	
p-Bromofluorobenzene	10.0	9.65	96.5	70 - 128	
Toluene-d8	10.0	9.67	96.7	88 - 114	

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000965.D
 Acq On : 2 Apr 2014 11:39 am
 InstName : MSVOA6
 Operator : SS
 Sample : BD40104-BLK1
 Misc : QBV6040214A <2
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 15:21:20 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:49:29 2014
 Response via : Initial Calibration

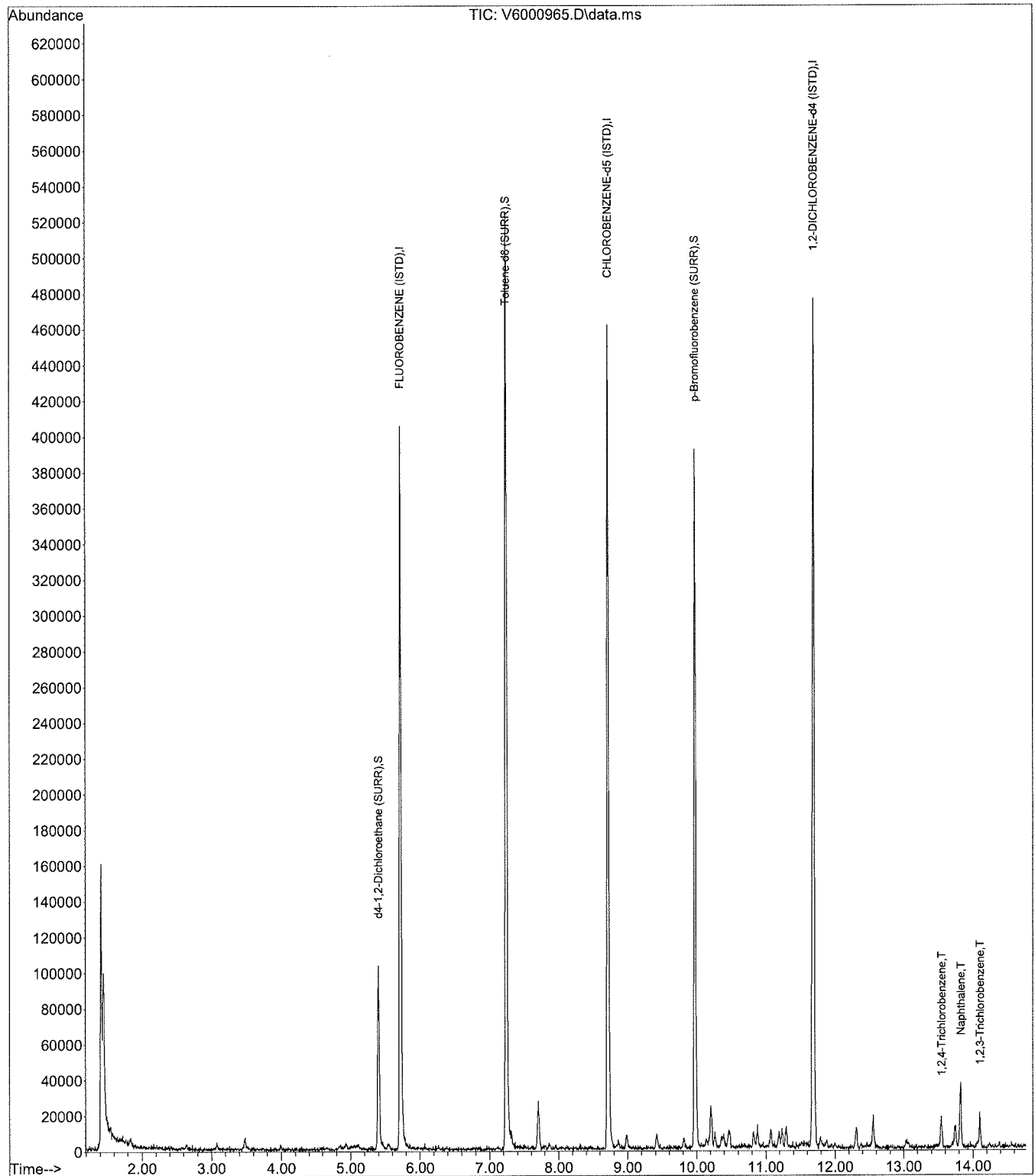
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

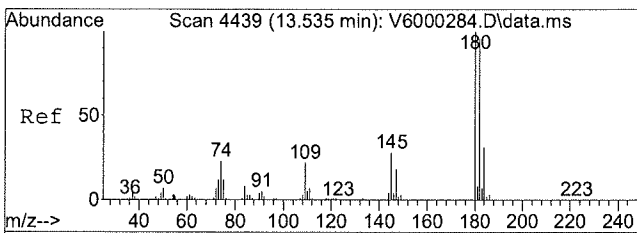
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.714	70	64109	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	8.713	117	264948	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.685	152	135414	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.400	65	64691	10.80	ppb	0.00
Spiked Amount 10.000	Range	70 - 130	Recovery	=	108.00%	
51) Toluene-d8 (SURR)	7.239	98	345141	9.67	ppb	0.00
Spiked Amount 10.000	Range	70 - 130	Recovery	=	96.70%	
70) p-Bromofluorobenzene (...)	9.974	95	128523	9.65	ppb	0.00
Spiked Amount 10.000	Range	70 - 130	Recovery	=	96.50%	
Target Compounds						
90) 1,2,4-Trichlorobenzene	13.540	180	4942	0.20	ppb	Qvalue 78
92) Naphthalene	13.821	128	27806	0.90	ppb	98
93) 1,2,3-Trichlorobenzene	14.097	180	5575	0.28	ppb	# 88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

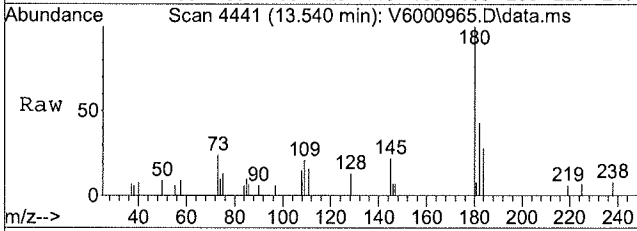
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Data File : V6000965.D
Acq On : 2 Apr 2014 11:39 am
InstName : MSVOA6
Operator : SS
Sample : BD40104-BLK1
Misc : QBV6040214A <2
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 15:21:20 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:49:29 2014
Response via : Initial Calibration



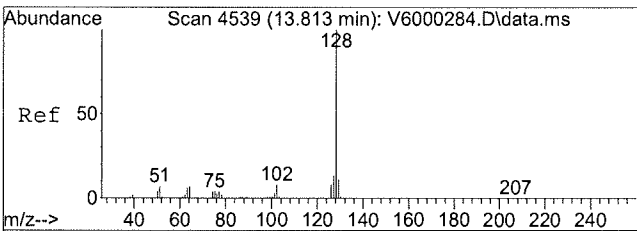
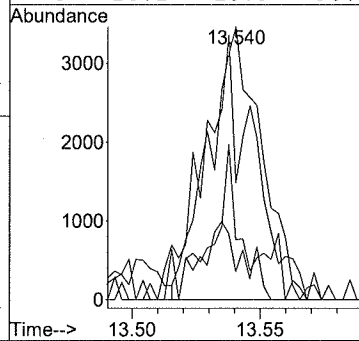
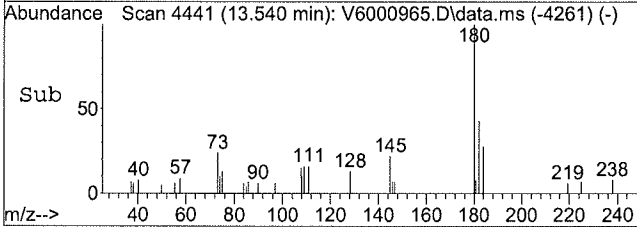


#90
1,2,4-Trichlorobenzene
Concen: 0.20 ppb
RT: 13.540 min Scan# 4441
Delta R.T. 0.000 min
Lab File: V6000965.D
Acq: 2 Apr 2014 11:39 am

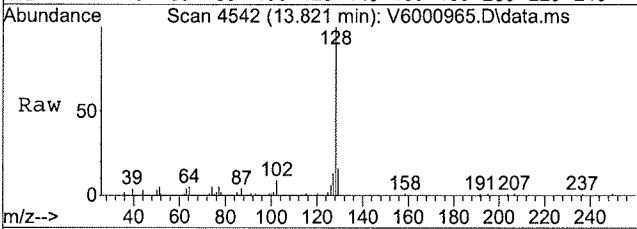


Tgt Ion:180 Resp: 4942

Ion	Ratio	Lower	Upper
180	100		
182	64.9	62.7	130.1
74	22.6	15.2	31.6
145	26.2	18.3	38.1

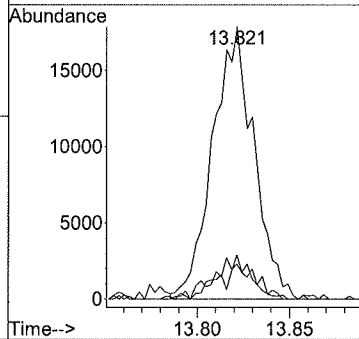
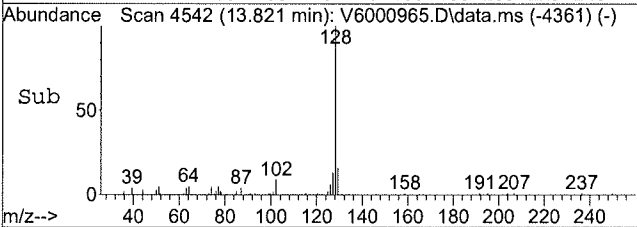


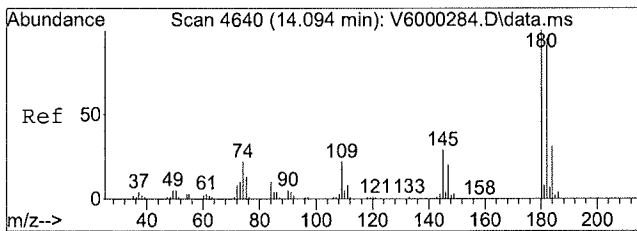
#92
Naphthalene
Concen: 0.90 ppb
RT: 13.821 min Scan# 4542
Delta R.T. 0.003 min
Lab File: V6000965.D
Acq: 2 Apr 2014 11:39 am



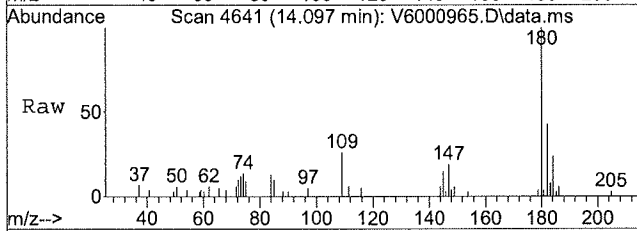
Tgt Ion:128 Resp: 27806

Ion	Ratio	Lower	Upper
128	100		
127	14.4	8.5	17.7
129	11.6	7.2	14.9

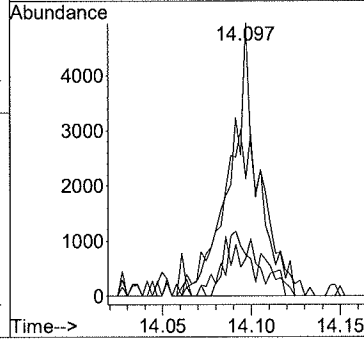
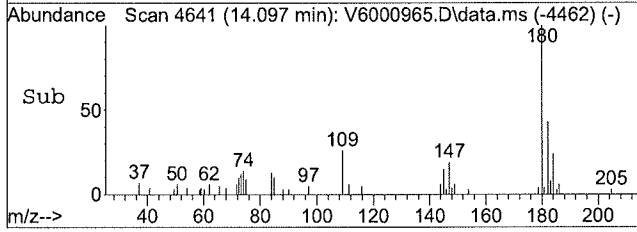




#93
 1,2,3-Trichlorobenzene
 Concen: 0.28 ppb
 RT: 14.097 min Scan# 4641
 Delta R.T. -0.003 min
 Lab File: V6000965.D
 Acq: 2 Apr 2014 11:39 am



Tgt Ion:180 Resp: 5575
 Ion Ratio Lower Upper
 180 100
 182 86.9 62.0 128.8
 74 13.3 14.1 29.3#
 145 18.2 18.8 39.0#



FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BD40104Laboratory ID: BD40104-BS1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.53	95.3	85 - 118
1,1,1-Trichloroethane	10.0	9.68	96.8	74 - 128
1,1,2,2-Tetrachloroethane	10.0	9.55	95.5	71 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.34	93.4	51 - 157
1,1,2-Trichloroethane	10.0	9.43	94.3	80 - 122
1,1-Dichloroethane	10.0	9.84	98.4	70 - 131
1,1-Dichloroethylene	10.0	9.42	94.2	60 - 143
1,1-Dichloropropylene	10.0	9.33	93.3	78 - 122
1,2,3-Trichlorobenzene	10.0	9.70	97.0	68 - 140
1,2,3-Trichloropropane	10.0	9.13	91.3	77 - 125
1,2,4-Trichlorobenzene	10.0	9.56	95.6	65 - 143
1,2,4-Trimethylbenzene	10.0	9.45	94.5	83 - 121
1,2-Dibromo-3-chloropropane	10.0	8.34	83.4	60 - 146
1,2-Dibromoethane	10.0	9.78	97.8	82 - 122
1,2-Dichlorobenzene	10.0	8.92	89.2	85 - 115
1,2-Dichloroethane	10.0	9.95	99.5	72 - 126
1,2-Dichloropropane	10.0	9.78	97.8	78 - 119
1,3,5-Trimethylbenzene	10.0	9.48	94.8	84 - 118
1,3-Dichlorobenzene	10.0	9.30	93.0	83 - 117
1,3-Dichloropropane	10.0	9.84	98.4	79 - 121
1,4-Dichlorobenzene	10.0	9.21	92.1	83 - 118
2,2-Dichloropropane	10.0	9.75	97.5	60 - 135
2-Butanone	10.0	5.72	57.2	48 - 156
2-Chlorotoluene	10.0	9.51	95.1	81 - 118
2-Hexanone	10.0	4.31	43.1 *	50 - 151
4-Chlorotoluene	10.0	9.48	94.8	81 - 117
4-Methyl-2-pentanone	10.0	9.04	90.4	55 - 147
Acetone	10.0	6.76	67.6	21 - 172
Benzene	10.0	9.55	95.5	82 - 120
Bromobenzene	10.0	9.01	90.1	82 - 119

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water
 Batch: BD40104 Laboratory ID: BD40104-BS1
 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Bromochloromethane	10.0	9.78	97.8	69 - 125
Bromodichloromethane	10.0	10.3	103	84 - 117
Bromoform	10.0	10.1	101	77 - 130
Bromomethane	10.0	10.8	108	16 - 162
Carbon disulfide	20.0	9.43	47.2	21 - 78
Carbon tetrachloride	10.0	9.63	96.3	72 - 132
Chlorobenzene	10.0	9.76	97.6	88 - 112
Chloroethane	10.0	10.4	104	29 - 172
Chloroform	10.0	9.51	95.1	77 - 124
Chloromethane	10.0	9.10	91.0	37 - 131
cis-1,2-Dichloroethylene	10.0	9.80	98.0	77 - 124
cis-1,3-Dichloropropylene	10.0	10.3	103	81 - 117
Dibromochloromethane	10.0	9.96	99.6	72 - 131
Dibromomethane	10.0	10.4	104	85 - 116
Dichlorodifluoromethane	10.0	8.51	85.1	47 - 152
Ethyl Benzene	10.0	9.58	95.8	86 - 114
Hexachlorobutadiene	10.0	9.18	91.8	68 - 139
Isopropylbenzene	10.0	9.53	95.3	84 - 118
Methyl tert-butyl ether (MTBE)	10.0	10.0	100	49 - 156
Methylene chloride	10.0	9.31	93.1	51 - 145
Naphthalene	10.0	9.79	97.9	67 - 141
n-Butylbenzene	10.0	9.33	93.3	76 - 125
n-Propylbenzene	10.0	9.45	94.5	84 - 118
o-Xylene	10.0	9.54	95.4	85 - 114
p- & m- Xylenes	20.0	19.3	96.3	84 - 117
p-Isopropyltoluene	10.0	9.40	94.0	84 - 121
sec-Butylbenzene	10.0	9.34	93.4	85 - 119
Styrene	10.0	9.54	95.4	77 - 126
tert-Butylbenzene	10.0	9.48	94.8	83 - 119
Tetrachloroethylene	10.0	9.30	93.0	75 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BD40104Laboratory ID: BD40104-BS1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	9.22	92.2	86 - 113
trans-1,2-Dichloroethylene	10.0	10.8	108	55 - 148
trans-1,3-Dichloropropylene	10.0	9.90	99.0	77 - 120
Trichloroethylene	10.0	9.58	95.8	85 - 115
Trichlorofluoromethane	10.0	8.85	88.5	69 - 131
Vinyl Chloride	10.0	9.14	91.4	44 - 152

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BD40104Laboratory ID: BD40104-BSD1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	10.0	9.94	99.4	4.21	30	85 - 118
1,1,1-Trichloroethane	10.0	10.4	104	7.36	30	74 - 128
1,1,2,2-Tetrachloroethane	10.0	9.97	99.7	4.30	30	71 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.3	103	9.97	30	51 - 157
1,1,2-Trichloroethane	10.0	9.95	99.5	5.37	30	80 - 122
1,1-Dichloroethane	10.0	9.80	98.0	0.407	30	70 - 131
1,1-Dichloroethylene	10.0	9.83	98.3	4.26	30	60 - 143
1,1-Dichloropropylene	10.0	10.2	102	9.30	30	78 - 122
1,2,3-Trichlorobenzene	10.0	9.94	99.4	2.44	30	68 - 140
1,2,3-Trichloropropane	10.0	9.70	97.0	6.05	30	77 - 125
1,2,4-Trichlorobenzene	10.0	9.95	99.5	4.00	30	65 - 143
1,2,4-Trimethylbenzene	10.0	9.92	99.2	4.85	30	83 - 121
1,2-Dibromo-3-chloropropane	10.0	8.08	80.8	3.17	30	60 - 146
1,2-Dibromoethane	10.0	10.3	103	4.79	30	82 - 122
1,2-Dichlorobenzene	10.0	10.7	107	18.4	30	85 - 115
1,2-Dichloroethane	10.0	10.1	101	1.20	30	72 - 126
1,2-Dichloropropane	10.0	10.5	105	6.81	30	78 - 119
1,3,5-Trimethylbenzene	10.0	10.0	100	5.84	30	84 - 118
1,3-Dichlorobenzene	10.0	9.68	96.8	4.00	30	83 - 117
1,3-Dichloropropane	10.0	10.1	101	2.51	30	79 - 121
1,4-Dichlorobenzene	10.0	9.52	95.2	3.31	30	83 - 118
2,2-Dichloropropane	10.0	9.85	98.5	1.02	30	60 - 135
2-Butanone	10.0	8.57	85.7	39.9 *	30	48 - 156
2-Chlorotoluene	10.0	9.90	99.0	4.02	30	81 - 118
2-Hexanone	10.0	9.94	99.4	79.0 *	30	50 - 151
4-Chlorotoluene	10.0	9.95	99.5	4.84	30	81 - 117
4-Methyl-2-pentanone	10.0	8.26	82.6	9.02	30	55 - 147
Acetone	10.0	7.22	72.2	6.58	30	21 - 172
Benzene	10.0	9.71	97.1	1.66	30	82 - 120
Bromobenzene	10.0	10.2	102	12.0	30	82 - 119

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BD40104Laboratory ID: BD40104-BSD1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Bromochloromethane	10.0	9.81	98.1	0.306	30	69 - 125
Bromodichloromethane	10.0	10.6	106	2.79	30	84 - 117
Bromoform	10.0	10.2	102	0.493	30	77 - 130
Bromomethane	10.0	10.9	109	0.830	30	16 - 162
Carbon disulfide	20.0	9.74	48.7	3.23	30	21 - 78
Carbon tetrachloride	10.0	10.3	103	6.63	30	72 - 132
Chlorobenzene	10.0	10.1	101	3.72	30	88 - 112
Chloroethane	10.0	10.8	108	3.21	30	29 - 172
Chloroform	10.0	9.86	98.6	3.61	30	77 - 124
Chloromethane	10.0	9.86	98.6	8.02	30	37 - 131
cis-1,2-Dichloroethylene	10.0	9.95	99.5	1.52	30	77 - 124
cis-1,3-Dichloropropylene	10.0	10.4	104	0.290	30	81 - 117
Dibromochloromethane	10.0	10.4	104	4.32	30	72 - 131
Dibromomethane	10.0	10.6	106	1.81	30	85 - 116
Dichlorodifluoromethane	10.0	9.51	95.1	11.1	30	47 - 152
Ethyl Benzene	10.0	10.1	101	5.38	30	86 - 114
Hexachlorobutadiene	10.0	9.95	99.5	8.05	30	68 - 139
Isopropylbenzene	10.0	10.1	101	5.61	30	84 - 118
Methyl tert-butyl ether (MTBE)	10.0	10.4	104	3.53	30	49 - 156
Methylene chloride	10.0	9.68	96.8	3.90	30	51 - 145
Naphthalene	10.0	9.98	99.8	1.92	30	67 - 141
n-Butylbenzene	10.0	10.0	100	7.23	30	76 - 125
n-Propylbenzene	10.0	9.96	99.6	5.26	30	84 - 118
o-Xylene	10.0	10.1	101	5.50	30	85 - 114
p- & m- Xylenes	20.0	20.0	100	3.82	30	84 - 117
p-Isopropyltoluene	10.0	10.0	100	6.29	30	84 - 121
sec-Butylbenzene	10.0	10.1	101	7.42	30	85 - 119
Styrene	10.0	10.1	101	5.50	30	77 - 126
tert-Butylbenzene	10.0	10.0	100	5.64	30	83 - 119
Tetrachloroethylene	10.0	10.1	101	8.15	30	75 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterBatch: BD40104Laboratory ID: BD40104-BSD1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Toluene	10.0	9.69	96.9	4.97	30	86 - 113
trans-1,2-Dichloroethylene	10.0	10.8	108	0.647	30	55 - 148
trans-1,3-Dichloropropylene	10.0	10.6	106	6.92	30	77 - 120
Trichloroethylene	10.0	10.1	101	5.48	30	85 - 115
Trichlorofluoromethane	10.0	10.1	101	13.2	30	69 - 131
Vinyl Chloride	10.0	9.98	99.8	8.79	30	44 - 152

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000963.D
 Acq On : 2 Apr 2014 10:40 am
 InstName : MSVOA6
 Operator : SS
 Sample : BD40104-BS1
 Misc : QBV6040214A <2
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 03 11:38:09 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:49:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.714	70	64564	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	8.713	117	255297	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.687	152	125050	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.400	65	61983	10.28	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.80%		
51) Toluene-d8 (SURR)	7.239	98	343289	9.98	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.80%		
70) p-Bromofluorobenzene (...)	9.974	95	123101	10.01	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.10%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.577	85	80787	8.51	ppb	100
3) Chloromethane	1.752	50	88047	9.10	ppb	97
4) Vinyl Chloride	1.858	62	87175	9.14	ppb	100
5) Bromomethane	2.181	94	51154	10.80	ppb	99
6) Chloroethane	2.283	64	55480	10.42	ppb	99
7) Trichlorofluoromethane	2.534	101	132584	8.85	ppb	98
8) Ethyl Ether	2.815	59	47937	10.34	ppb	# 96
9) Freon-113	3.032	101	84085	9.34	ppb	97
10) 1,1-Dichloroethylene	3.029	61	135809	9.42	ppb	99
11) Acrolein	2.929	56	1983	5.50	ppb	87
12) Acetone	3.076	43	13391m	6.76	ppb	
13) Iodomethane	3.168	142	110125	11.08	ppb	# 100
14) Methyl Acetate	3.388	43	20759	9.93	ppb	100
15) Carbon disulfide	3.232	76	272315	9.43	ppb	100
16) tert-Butyl Alcohol (TBA)	3.730	59	5142	9.15	ppb	14
17) Methylene Chloride	3.480	49	94270	9.31	ppb	94
18) Acrylonitrile	3.702	53	9363	8.65	ppb	# 72
19) trans-1,2-Dichloroethy...	3.733	61	135253	10.78	ppb	98
20) tert-Butyl Methyl Ethe...	3.739	73	179110	10.01	ppb	98
21) 1,1-Dichloroethane	4.120	63	165203	9.84	ppb	# 97
22) Vinyl Acetate	4.161	43	43918	2.80	ppb	100
25) cis-1,2-Dichloroethylene	4.648	61	149099	9.80	ppb	# 85
26) 2-Butanone	4.654	72	2999	5.72	ppb	# 100
27) 2,2-Dichloropropane	4.654	77	156603	9.75	ppb	99
28) Tetrahydrofuran	4.910	71	1367	2.56	ppb	# 47
29) Bromochloromethane	4.868	49	52311	9.78	ppb	# 100
30) Chloroform	4.941	83	165252	9.51	ppb	99
31) 1,1,1-Trichloroethane	5.119	97	167050	9.68	ppb	# 99
32) Cyclohexane	5.177	56	126620	8.70	ppb	88
33) 1,1-Dichloropropylene	5.272	75	134327	9.33	ppb	76
35) Carbon Tetrachloride	5.277	117	152957	9.63	ppb	99
36) tert-Amyl alcohol (TAA)	5.458	59	224	0.69	ppb	# 1
37) 1,2-Dichloroethane	5.472	62	95694	9.95	ppb	# 98
38) Benzene	5.464	78	388122	9.55	ppb	98
39) tert-Amyl methyl ether...	5.455	73	7875	0.41	ppb	# 84
41) Trichloroethylene	6.059	95	107418	9.58	ppb	94
42) Methyl Cyclohexane	6.257	83	164235	9.16	ppb	# 86
43) Methyl Methacrylate	6.371	69	33271	10.43	ppb	98
44) Dibromomethane	6.371	69	33271	10.40	ppb	# 11
45) Bromodichloromethane	6.529	83	115585	10.26	ppb	96
46) 1,2-Dichloropropane	6.273	63	81977	9.78	ppb	95
49) cis-1,3-Dichloropropene	6.966	75	131224	10.33	ppb	95
50) 4-Methyl-2-Pentanone	7.116	43	38266	9.04	ppb	# 85
52) Toluene	7.305	91	457845	9.22	ppb	100
53) trans-1,3-Dichloropropene	7.511	75	102371	9.90	ppb	# 91
54) 1,1,2-Trichloroethane	7.698	97	54072	9.43	ppb	96
55) 1,3-Dichloropropane	7.876	76	94834	9.84	ppb	98
56) Tetrachloroethylene	7.862	166	131042	9.30	ppb	# 77

Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000963.D
 Acq On : 2 Apr 2014 10:40 am
 InstName : MSVOA6
 Operator : SS
 Sample : BD40104-BS1
 Misc : QBV6040214A <2
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 03 11:38:09 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:49:29 2014
 Response via : Initial Calibration

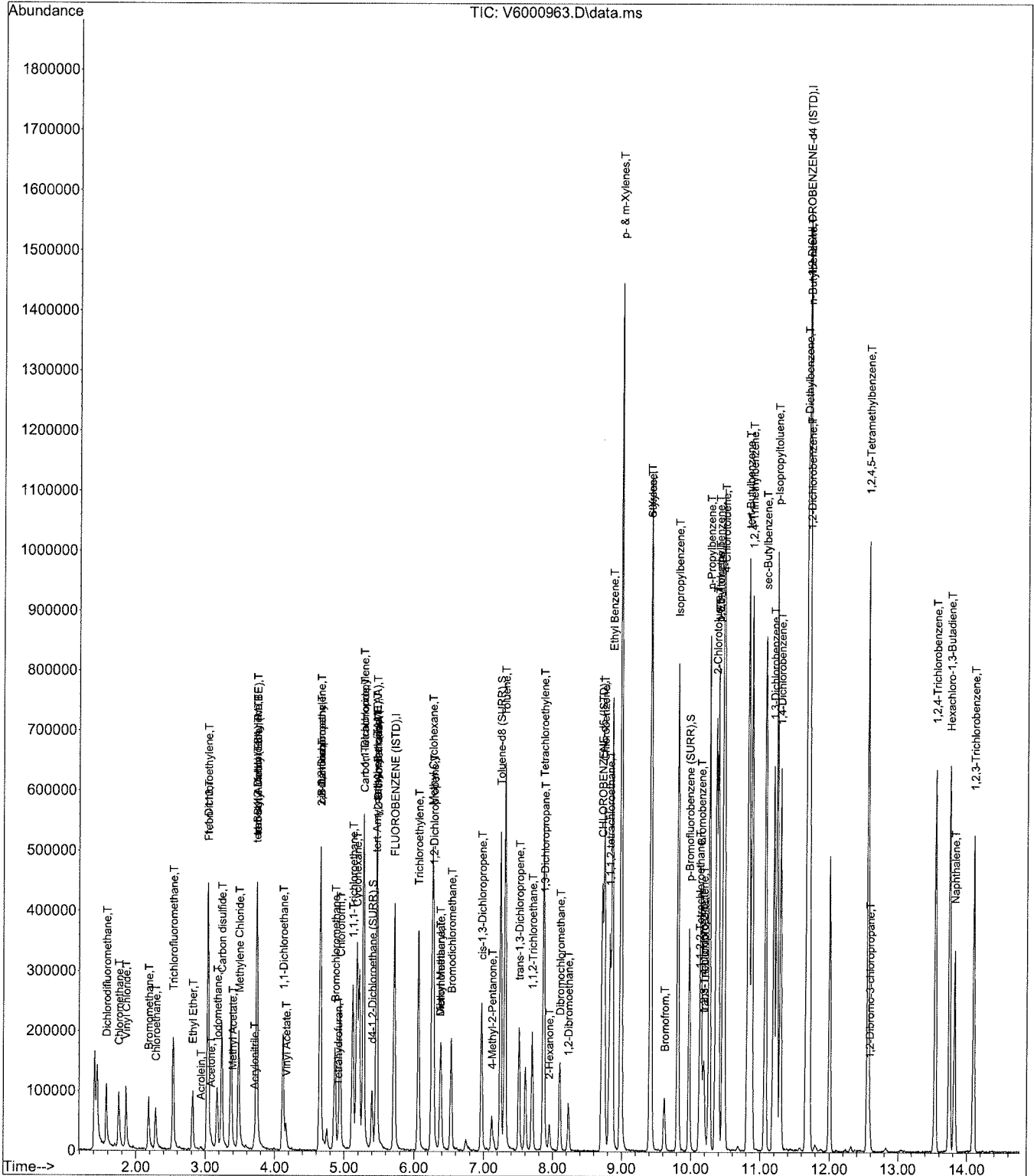
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57)	2-Hexanone	7.945	43	11824	4.31	ppb	# 24
58)	Dibromochloromethane	8.107	129	76254	9.96	ppb	94
59)	1,2-Dibromoethane	8.226	107	52201	9.78	ppb	96
60)	Chlorobenzene	8.744	112	304230	9.76	ppb	97
61)	1,1,1,2-tetrachloroethane	8.825	131	104221	9.53	ppb	98
62)	Ethyl Benzene	8.861	91	536963	9.58	ppb	100
63)	p- & m-Xylenes	8.986	91	851815	19.26	ppb	98
64)	o-Xylene	9.409	91	429442	9.54	ppb	100
65)	Styrene	9.409	91	429442	9.54	ppb	83
66)	Bromofrom	9.620	173	45893	10.11	ppb	98
68)	p-Ethyltoluene	10.391	105	569260	9.48	ppb	# 60
69)	Isopropylbenzene	9.809	105	579155	9.53	ppb	99
71)	1,1,2,2-Tetrachloroethane	10.124	83	56112	9.55	ppb	# 100
72)	Bromobenzene	10.143	77	180204	9.01	ppb	87
73)	trans-1,4-Dichloro-2-b...	10.179	75	60441	9.02	ppb	# 88
74)	1,2,3-Trichloropropane	10.179	110	18173	9.13	ppb	# 1
75)	n-Propylbenzene	10.263	91	674594	9.45	ppb	99
76)	2-Chlorotoluene	10.358	91	451137	9.51	ppb	99
77)	4-Chlorotoluene	10.477	91	459342	9.48	ppb	100
78)	1,3,5-Trimethylbenzene	10.391	105	569260	9.48	ppb	# 62
79)	tert-Butylbenzene	10.822	119	508640	9.48	ppb	99
80)	1,2,4-Trimethylbenzene	10.875	105	526491	9.45	ppb	98
81)	sec-Butylbenzene	11.070	105	636979	9.34	ppb	100
82)	1,3-Dichlorobenzene	11.187	146	286086	9.30	ppb	99
83)	p-Isopropyltoluene	11.231	119	597244	9.40	ppb	98
84)	1,4-Dichlorobenzene	11.287	146	281291	9.21	ppb	98
85)	p-Diethylbenzene	11.668	105	335861	9.35	ppb	98
86)	1,2-Dichlorobenzene	11.710	146	241728	8.92	ppb	# 87
87)	n-Butylbenzene	11.696	91	640817	9.33	ppb	97
88)	1,2-Dibromo-3-chloropr...	12.583	75	11862	8.34	ppb	95
89)	1,2,4,5-Tetramethylben...	12.556	119	582140	9.60	ppb	99
90)	1,2,4-Trichlorobenzene	13.540	180	215191	9.56	ppb	99
91)	Hexachloro-1,3-Butadiene	13.746	225	141831	9.18	ppb	96
92)	Naphthalene	13.821	128	278777	9.79	ppb	98
93)	1,2,3-Trichlorobenzene	14.100	180	177537	9.70	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\040214\  
Data File : V6000963.D  
Acq On : 2 Apr 2014 10:40 am  
InstName : MSVOA6  
Operator : SS  
Sample : BD40104-BS1  
Misc : QBV6040214A <2  
ALS Vial : 4 Sample Multiplier: 1
```

Quant Time: Apr 03 11:38:09 2014
Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:49:29 2014
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000964.D
 Acq On : 2 Apr 2014 11:09 am
 InstName : MSVOA6
 Operator : SS
 Sample : BD40104-BSD1
 Misc : QBV6040214A <2
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 11:37:17 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:49:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.717	70	66214	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.716	117	259021	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.688	152	127692	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.400	65	63127	10.21	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.10%		
51) Toluene-d8 (SURR)	7.236	98	350946	10.06	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.60%		
70) p-Bromofluorobenzene (...)	9.971	95	125933	10.03	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.30%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.577	85	92670	9.51	ppb	99
3) Chloromethane	1.752	50	97883	9.86	ppb	98
4) Vinyl Chloride	1.858	62	97623	9.98	ppb	# 86
5) Bromomethane	2.183	94	52894	10.89	ppb	100
6) Chloroethane	2.284	64	58723	10.76	ppb	100
7) Trichlorofluoromethane	2.537	101	155299	10.10	ppb	100
8) Ethyl Ether	2.815	59	50637	10.65	ppb	# 96
9) Freon-113	3.032	101	95226	10.32	ppb	96
10) 1,1-Dichloroethylene	3.024	61	145393	9.83	ppb	96
11) Acrolein	3.007	56	80	0.22	ppb	95
12) Acetone	3.077	43	14651m	7.22	ppb	
13) Iodomethane	3.171	142	115971	11.38	ppb	# 100
14) Methyl Acetate	3.383	43	22186	10.35	ppb	99
15) Carbon disulfide	3.235	76	288411	9.74	ppb	100
16) tert-Butyl Alcohol (TBA)	3.736	59	5769	10.01	ppb	7
17) Methylene Chloride	3.474	49	100450	9.68	ppb	96
18) Acrylonitrile	3.700	53	10821	9.74	ppb	# 89
19) trans-1,2-Dichloroethy...	3.733	61	139616	10.85	ppb	100
20) tert-Butyl Methyl Ethe...	3.736	73	190292	10.37	ppb	# 91
21) 1,1-Dichloroethane	4.117	63	168667	9.80	ppb	# 97
22) Vinyl Acetate	4.159	43	45192	2.81	ppb	99
25) cis-1,2-Dichloroethylene	4.649	61	155210	9.95	ppb	99
26) 2-Butanone	4.660	72	4418	8.57	ppb	# 100
27) 2,2-Dichloropropane	4.651	77	162272	9.85	ppb	# 78
28) Tetrahydrofuran	4.921	71	1711	3.17	ppb	# 1
29) Bromochloromethane	4.871	49	53789	9.81	ppb	# 100
30) Chloroform	4.938	83	175705	9.86	ppb	99
31) 1,1,1-Trichloroethane	5.116	97	184355	10.42	ppb	# 98
32) Cyclohexane	5.177	56	147227	9.86	ppb	91
33) 1,1-Dichloropropylene	5.272	75	151090	10.24	ppb	79
35) Carbon Tetrachloride	5.275	117	167487	10.29	ppb	# 58
36) tert-Amyl alcohol (TAA)	5.469	59	499	1.51	ppb	# 1
37) 1,2-Dichloroethane	5.467	62	99354	10.07	ppb	99
38) Benzene	5.464	78	404632	9.71	ppb	99
39) tert-Amyl methyl ether...	5.464	73	7885	0.40	ppb	# 84
41) Trichloroethylene	6.062	95	115135	10.12	ppb	92
42) Methyl Cyclohexane	6.257	83	191105	10.50	ppb	95
43) Methyl Methacrylate	6.371	69	34379	10.62	ppb	# 51
44) Dibromomethane	6.371	69	34379	10.59	ppb	# 14
45) Bromodichloromethane	6.527	83	120531	10.55	ppb	# 96
46) 1,2-Dichloropropane	6.273	63	89078	10.47	ppb	95
49) cis-1,3-Dichloropropene	6.961	75	133490	10.36	ppb	93
50) 4-Methyl-2-Pentanone	7.114	43	35470	8.26	ppb	92
52) Toluene	7.306	91	487993	9.69	ppb	99
53) trans-1,3-Dichloropropene	7.511	75	111273	10.61	ppb	# 88
54) 1,1,2-Trichloroethane	7.695	97	57912	9.95	ppb	96
55) 1,3-Dichloropropane	7.873	76	98609	10.09	ppb	98
56) Tetrachloroethylene	7.859	166	144234	10.09	ppb	# 99

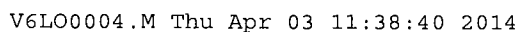
Data Path : C:\msdchem\1\DATA\040214\
 Data File : V6000964.D
 Acq On : 2 Apr 2014 11:09 am
 InstName : MSVOA6
 Operator : SS
 Sample : BD40104-BSD1
 Misc : QBV6040214A <2
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 11:37:17 2014
 Quant Method : C:\msdchem\1\METHODS\V6LO0004.M
 Quant Title : Volatile Organics EPA 8260C
 QLast Update : Wed Apr 02 09:49:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 2-Hexanone	7.948	43	27671	9.94	ppb	# 82
58) Dibromochloromethane	8.107	129	80741	10.40	ppb	98
59) 1,2-Dibromoethane	8.229	107	55556	10.26	ppb	98
60) Chlorobenzene	8.744	112	320615	10.13	ppb	97
61) 1,1,1,2-tetrachloroethane	8.827	131	110279	9.94	ppb	97
62) Ethyl Benzene	8.858	91	575240	10.11	ppb	99
63) p- & m-Xylenes	8.983	91	897633	20.01	ppb	98
64) o-Xylene	9.409	91	460380	10.08	ppb	99
65) Styrene	9.409	91	460380	10.08	ppb	82
66) Bromofrom	9.618	173	46801	10.16	ppb	100
68) p-Ethyltoluene	10.388	105	616498	10.05	ppb	# 60
69) Isopropylbenzene	9.810	105	625911	10.08	ppb	100
71) 1,1,2,2-Tetrachloroethane	10.124	83	59797	9.97	ppb	# 100
72) Bromobenzene	10.141	77	207525	10.16	ppb	96
73) trans-1,4-Dichloro-2-b...	10.177	75	71696	10.47	ppb	95
74) 1,2,3-Trichloropropane	10.177	110	19704	9.70	ppb	# 1
75) n-Propylbenzene	10.263	91	726012	9.96	ppb	99
76) 2-Chlorotoluene	10.358	91	479292	9.90	ppb	99
77) 4-Chlorotoluene	10.475	91	492160	9.95	ppb	99
78) 1,3,5-Trimethylbenzene	10.388	105	616498	10.05	ppb	# 62
79) tert-Butylbenzene	10.825	119	549532	10.03	ppb	98
80) 1,2,4-Trimethylbenzene	10.875	105	564535	9.92	ppb	97
81) sec-Butylbenzene	11.067	105	700462	10.06	ppb	99
82) 1,3-Dichlorobenzene	11.187	146	304085	9.68	ppb	99
83) p-Isopropyltoluene	11.231	119	649666	10.01	ppb	99
84) 1,4-Dichlorobenzene	11.290	146	296953	9.52	ppb	99
85) p-Diethylbenzene	11.668	105	368288	10.04	ppb	97
86) 1,2-Dichlorobenzene	11.290	146	296953	10.73	ppb	99
87) n-Butylbenzene	11.696	91	703699	10.03	ppb	95
88) 1,2-Dibromo-3-chloropr...	12.584	75	11737	8.08	ppb	85
89) 1,2,4,5-Tetramethylben...	12.556	119	615447	9.94	ppb	98
90) 1,2,4-Trichlorobenzene	13.541	180	228737	9.95	ppb	98
91) Hexachloro-1,3-Butadiene	13.744	225	157039	9.95	ppb	97
92) Naphthalene	13.819	128	290108	9.98	ppb	97
93) 1,2,3-Trichlorobenzene	14.094	180	185653	9.94	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quant Time: Apr 03 11:37:17 2014
Quant Method : C:\msdchem\1\METHODS\V6L00004.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Wed Apr 02 09:49:29 2014
Response via : Initial Calibration



BD40104

60

10

Prepared by: EPA 5030B (2-77)

Surrogate used: Y106429

COPIES DESTROYED

Prepared by: EPA 5030B (2-77)

of 325

Injection Log

Directory: r:\msvoa6~1\dailyd~1\040214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	v6000960.d	1.	10PPB VOA CAL CHECK STD	QBV6040214A <2	2 Apr 14 08:32
2	2	v6000961.d	1.	BLK	QBV6040214A <2	2 Apr 14 09:18
3	3	v6000962.d	1.	10PPB VOA CAL CHECK STD	QBV6040214A <2	2 Apr 14 09:58
4	4	v6000963.d	1.	BD40104-BS1	QBV6040214A <2	2 Apr 14 10:40
5	5	v6000964.d	1.	BD40104-BSD1	QBV6040214A <2	2 Apr 14 11:09
6	6	v6000965.d	1.	BD40104-BLK1	QBV6040214A <2	2 Apr 14 11:39
7	7	v6000966.d	20.	14C0904-03RE1	QBV6040214A <2	2 Apr 14 12:09
8	8	v6000967.d	50.	14C0904-04RE1	QBV6040214A <2	2 Apr 14 12:39
9	9	v6000968.d	1.	14C0901-03	QBV6040214A <2	2 Apr 14 13:09
10	10	v6000969.d	1.	14C0923-03	QBV6040214A CP51 RE	2 Apr 14 13:48
11	11	v6000970.d	5.	14C0922-01	QBV6040214A 8260 RE 10ML/50ML	2 Apr 14 14:18
12	12	v6000971.d	50.	14C0922-01RE1	QBV6040214A 8260 1ML/50ML	2 Apr 14 14:47
13	13	v6000972.d	1.	14C0922-02	QBV6040214A 8260 RE	2 Apr 14 15:17
14	14	v6000973.d	1.	14C0922-03	QBV6040214A 8260 RE	2 Apr 14 15:46
15	15	v6000974.d	5.	14C0922-03RE1	QBV6040214A 8260 10ML/50ML	2 Apr 14 16:15
16	16	v6000975.d	2.	14C0922-04	QBV6040214A 8260 RE 25ML/50ML	2 Apr 14 16:44
17	17	v6000976.d	10.	14C0922-04RE1	QBV6040214A 8260 RE 5ML/50ML	2 Apr 14 17:14
18	18	v6000977.d	1.	14C0922-05	QBV6040214A 8260 RE	2 Apr 14 17:43
19	19	v6000978.d	1.	14C0921-01	QBV6040214A 8260-TCL/SOM LOW	2 Apr 14 18:12
20	20	v6000979.d	1.	14C0921-02	QBV6040214A 8260-TCL/SOM LOW pH=8	2 Apr 14 18:41
21	21	v6000980.d	1.	14C0921-03	QBV6040214A 8260-TCL/SOM LOW	2 Apr 14 19:11
22	22	v6000981.d	1.	14C0921-04	QBV6040214A 8260-TCL/SOM LOW	2 Apr 14 19:39
23	23	v6000982.d	1.	14C0921-05	QBV6040214A 8260-TCL/SOM LOW	2 Apr 14 20:09
24	24	v6000983.d	1.	14C0921-06	QBV6040214A 8260-TCL/SOM LOW	2 Apr 14 20:38
25	25	v6000984.d	1.	14C0921-07	QBV6040214A 8260-TCL/SOM LOW	2 Apr 14 21:07
26	26	v6000985.d	1.	14C0921-08	QBV6040214A 8260-TCL/SOM LOW	2 Apr 14 21:36
27	27	v6000986.d	1.	MBLK	QBV6040214B <2	2 Apr 14 22:06
28	28	v6000987.d	1.	10PPB VOA CAL CHECK STD	QBV6040214B <2	2 Apr 14 22:36
29	29	v6000988.d	1.	10PPB VOA CAL CHECK STD	QBV6040214B <2	2 Apr 14 23:07
30	30	v6000989.d	1.	BD40XXX-BS1	QBV6040214B <2	2 Apr 14 23:37
31	31	v6000990.d	1.	BD40XXX-BSD1	QBV6040214B <2	3 Apr 14 00:08
32	32	v6000991.d	1.	BD40XXX-BLK1	QBV6040214B <2	3 Apr 14 00:39
33	33	v6000992.d	1.	14C0938-19	QBV6040214B BTEX LOW	3 Apr 14 01:10
34	34	v6000993.d	1.	14C0938-20	QBV6040214B BTEX LOW	3 Apr 14 01:41
35	35	v6000994.d	1.	14C0938-21	QBV6040214B BTEX LOW	3 Apr 14 02:11
36	36	v6000995.d	1.	14C0938-22	QBV6040214B BTEX LOW	3 Apr 14 02:42
37	37	v6000996.d	1.	14C0938-23	QBV6040214B BTEX LOW	3 Apr 14 03:14
38	38	v6000997.d	1.	14C0938-24	QBV6040214B BTEX LOW	3 Apr 14 03:45
39	39	v6000998.d	1.	14C0938-25	QBV6040214B BTEX LOW	3 Apr 14 04:16
40	40	v6000999.d	1.	14C0938-26	QBV6040214B BTEX LOW	3 Apr 14 04:47
41	41	v6001000.d	1.	14C0938-27	QBV6040214B BTEX LOW	3 Apr 14 05:18
42	42	v6001001.d	1.	14C0938-28	QBV6040214B BTEX LOW	3 Apr 14 05:49
43	43	v6001002.d	1.	14C0938-29	QBV6040214B BTEX LOW	3 Apr 14 06:20
44	44	v6001003.d	1.	14C0938-30	QBV6040214B BTEX LOW	3 Apr 14 06:51
45	45	v6001004.d	1.	14C0938-31	QBV6040214B BTEX LOW	3 Apr 14 07:22
46	46	v6001005.d	1.	14C0938-32	QBV6040214B BTEX LOW	3 Apr 14 07:53
47	47	v6001006.d	1.	14C0938-33	QBV6040214B BTEX LOW	3 Apr 14 08:24
48	48	v6001007.d	1.	14C0938-34	QBV6040214B BTEX LOW	3 Apr 14 08:55
49	49	v6001008.d	1.	14C0938-35	QBV6040214B BTEX LOW	3 Apr 14 09:26
50	50	v6001009.d	1.	14C0938-36	QBV6040214B BTEX LOW	3 Apr 14 09:57
51	51	v6001010.d	1.	14C0938-37	QBV6040214B BTEX LOW	3 Apr 14 10:28
52	52	v6001011.d	1.	14C0938-38	QBV6040214B BTEX LOW	3 Apr 14 10:59
53	53	v6001012.d	1.	14C0938-39	QBV6040214B BTEX LOW	3 Apr 14 11:30
54	54	v6001013.d	1.	14C0938-40	QBV6040214B BTEX LOW	3 Apr 14 12:01

Injection Log

Directory: r:\msvoa6~1\dailyd~1\040214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
44	44	v6001003.d	1.	14C0938-30	QBV6040214B BTEX LOW	3 Apr 14 06:50
45	45	v6001004.d	1.	14C0938-31	QBV6040214B BTEX LOW	3 Apr 14 07:21
46	46	v6001005.d	1.	14C0938-32	QBV6040214B BTEX LOW	3 Apr 14 07:52
47	47	v6001006.d	1.	14C0938-33	QBV6040214B BTEX LOW	3 Apr 14 08:24
48	48	v6001007.d	1.	14C0938-34	QBV6040214B BTEX LOW	3 Apr 14 08:53
49	49	v6001008.d	1.	14C0938-35	QBV6040214B BTEX LOW	3 Apr 14 09:25
50	50	v6001009.d	1.	14C0938-36	QBV6040214B BTEX LOW	3 Apr 14 09:54

Directory: r:\msvoa6~1\dailyd~1\040214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
44	44	v6001003.d	1.	14C0938-30	QBV6040214B BTEX LOW	3 Apr 14 06:50
45	45	v6001004.d	1.	14C0938-31	QBV6040214B BTEX LOW	3 Apr 14 07:21
46	46	v6001005.d	1.	14C0938-32	QBV6040214B BTEX LOW	3 Apr 14 07:52
47	47	v6001006.d	1.	14C0938-33	QBV6040214B BTEX LOW	3 Apr 14 08:24
48	48	v6001007.d	1.	14C0938-34	QBV6040214B BTEX LOW	3 Apr 14 08:53
49	49	v6001008.d	1.	14C0938-35	QBV6040214B BTEX LOW	3 Apr 14 09:25
50	50	v6001009.d	1.	14C0938-36	QBV6040214B BTEX LOW	3 Apr 14 09:54

Directory: r:\msvoa6~1\dailyd~1\040214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
44	44	v6001003.d	1.	14C0938-30	QBV6040214B BTEX LOW	3 Apr 14 06:50
45	45	v6001004.d	1.	14C0938-31	QBV6040214B BTEX LOW	3 Apr 14 07:21
46	46	v6001005.d	1.	14C0938-32	QBV6040214B BTEX LOW	3 Apr 14 07:52
47	47	v6001006.d	1.	14C0938-33	QBV6040214B BTEX LOW	3 Apr 14 08:24
48	48	v6001007.d	1.	14C0938-34	QBV6040214B BTEX LOW	3 Apr 14 08:53
49	49	v6001008.d	1.	14C0938-35	QBV6040214B BTEX LOW	3 Apr 14 09:25
50	50	v6001009.d	1.	14C0938-36	QBV6040214B BTEX LOW	3 Apr 14 09:54

Directory: r:\msvoa6~1\dailyd~1\040214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
44	44	v6001003.d	1.	14C0938-30	QBV6040214B BTEX LOW	3 Apr 14 06:50
45	45	v6001004.d	1.	14C0938-31	QBV6040214B BTEX LOW	3 Apr 14 07:21
46	46	v6001005.d	1.	14C0938-32	QBV6040214B BTEX LOW	3 Apr 14 07:52
47	47	v6001006.d	1.	14C0938-33	QBV6040214B BTEX LOW	3 Apr 14 08:24
48	48	v6001007.d	1.	14C0938-34	QBV6040214B BTEX LOW	3 Apr 14 08:53
49	49	v6001008.d	1.	14C0938-35	QBV6040214B BTEX LOW	3 Apr 14 09:25
50	50	v6001009.d	1.	14C0938-36	QBV6040214B BTEX LOW	3 Apr 14 09:54

Directory: r:\msvoa6~1\dailyd~1\040214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
44	44	v6001003.d	1.	14C0938-30	QBV6040214B BTEX LOW	3 Apr 14 06:50

York Analytical Laboratories, Inc.

SDG: 14C0922

CLASS: METALS

METHOD: EPA 6010C

DATA PACKAGE COVER PAGE

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Client Sample Id:

KC-MW-01 0314

KC-MW-02 0314

KC-MW-05 0314

KC-FD-01

Lab Sample Id:

14C0922-01

14C0922-02

14C0922-03

14C0922-04

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 in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:



Name:

Benjamin Gulizia

Date:

5/12/2014

Title:

Laboratory Director

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 14C0922-01File ID: qbi040114b-041Sampled: 03/26/14 18:40Prepared: 04/01/14 14:12Analyzed: 04/01/14 20:40Solids: 0.00Preparation: EPA 3010AInitial/Final: 50 mL / 50 mLBatch: BD40038Sequence: Y4D0203Calibration: 04/01/14 2Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.005	1	U	EPA 6010C
7440-38-2	Arsenic	0.004	1	U	EPA 6010C
7440-41-7	Beryllium	0.001	1	U	EPA 6010C
7440-43-9	Cadmium	0.121	1		EPA 6010C
7440-47-3	Chromium	0.021	1		EPA 6010C
7440-50-8	Copper	0.003	1	U	EPA 6010C
7439-92-1	Lead	0.003	1	U	EPA 6010C
7440-02-0	Nickel	0.307	1		EPA 6010C
7782-49-2	Selenium	0.014	1		EPA 6010C
7440-22-4	Silver	0.005	1	U	EPA 6010C
7440-28-0	Thallium	0.005	1	U	EPA 6010C
7440-66-6	Zinc	0.302	1		EPA 6010C

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 14C0922-02File ID: qbi040114b-044Sampled: 03/26/14 18:20Prepared: 04/01/14 14:12Analyzed: 04/01/14 20:58Solids: 0.00Preparation: EPA 3010AInitial/Final: 50 mL / 50 mLBatch: BD40038Sequence: Y4D0203Calibration: 04/01/14 2Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.005	1	U	EPA 6010C
7440-38-2	Arsenic	0.004	1	U	EPA 6010C
7440-41-7	Beryllium	0.001	1	U	EPA 6010C
7440-43-9	Cadmium	0.004	1		EPA 6010C
7440-47-3	Chromium	0.006	1		EPA 6010C
7440-50-8	Copper	0.006	1		EPA 6010C
7439-92-1	Lead	0.003	1		EPA 6010C
7440-02-0	Nickel	0.024	1		EPA 6010C
7782-49-2	Selenium	0.014	1		EPA 6010C
7440-22-4	Silver	0.005	1	U	EPA 6010C
7440-28-0	Thallium	0.005	1	U	EPA 6010C
7440-66-6	Zinc	0.029	1		EPA 6010C

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 14C0922-03File ID: qbi040114b-045Sampled: 03/26/14 18:00Prepared: 04/01/14 14:12Analyzed: 04/01/14 21:03Solids: 0.00Preparation: EPA 3010AInitial/Final: 50 mL / 50 mLBatch: BD40038Sequence: Y4D0203Calibration: 04/01/14 2Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.005	1	U	EPA 6010C
7440-38-2	Arsenic	0.004	1	U	EPA 6010C
7440-41-7	Beryllium	0.001	1	U	EPA 6010C
7440-43-9	Cadmium	0.003	1	U	EPA 6010C
7440-47-3	Chromium	0.005	1	U	EPA 6010C
7440-50-8	Copper	0.003	1	U	EPA 6010C
7439-92-1	Lead	0.003	1	U	EPA 6010C
7440-02-0	Nickel	0.005	1	U	EPA 6010C
7782-49-2	Selenium	0.010	1	U	EPA 6010C
7440-22-4	Silver	0.005	1	U	EPA 6010C
7440-28-0	Thallium	0.005	1	U	EPA 6010C
7440-66-6	Zinc	0.022	1		EPA 6010C

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 14C0922-04File ID: qbi040114b-046Sampled: 03/26/14 15:00Prepared: 04/01/14 14:12Analyzed: 04/01/14 21:08Solids: 0.00Preparation: EPA 3010AInitial/Final: 50 mL / 50 mLBatch: BD40038Sequence: Y4D0203Calibration: 04/01/14 2Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.005	1	U	EPA 6010C
7440-38-2	Arsenic	0.004	1	U	EPA 6010C
7440-41-7	Beryllium	0.001	1	U	EPA 6010C
7440-43-9	Cadmium	0.103	1		EPA 6010C
7440-47-3	Chromium	0.015	1		EPA 6010C
7440-50-8	Copper	0.003	1	U	EPA 6010C
7439-92-1	Lead	0.003	1	U	EPA 6010C
7440-02-0	Nickel	0.319	1		EPA 6010C
7782-49-2	Selenium	0.010	1	U	EPA 6010C
7440-22-4	Silver	0.005	1	U	EPA 6010C
7440-28-0	Thallium	0.005	1	U	EPA 6010C
7440-66-6	Zinc	0.285	1		EPA 6010C

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument ID: WinLabICP

Calibration: 04/01/14

Control Limit: +/- 10.00%

Sequence: Y4D0203

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y4D0203-ICV1	Antimony	0.250	0.260	104	ug/mL	EPA 6010C
	Arsenic	0.250	0.243	97.1	ug/mL	EPA 6010C
	Beryllium	0.250	0.248	99.4	ug/mL	EPA 6010C
	Cadmium	0.125	0.127	102	ug/mL	EPA 6010C
	Chromium	1.00	1.03	103	ug/mL	EPA 6010C
	Copper	1.25	1.23	98.7	ug/mL	EPA 6010C
	Lead	0.250	0.253	101	ug/mL	EPA 6010C
	Nickel	2.50	2.51	100	ug/mL	EPA 6010C
	Selenium	0.250	0.249	99.6	ug/mL	EPA 6010C
	Silver	1.25	1.23	98.2	ug/mL	EPA 6010C
	Thallium	0.250	0.256	102	ug/mL	EPA 6010C
	Zinc	2.50	2.59	104	ug/mL	EPA 6010C
Y4D0203-CCV1	Antimony	0.250	0.258	103	ug/mL	EPA 6010C
	Arsenic	0.250	0.243	97.1	ug/mL	EPA 6010C
	Beryllium	0.250	0.250	100	ug/mL	EPA 6010C
	Cadmium	0.125	0.127	102	ug/mL	EPA 6010C
	Chromium	1.00	1.04	104	ug/mL	EPA 6010C
	Copper	1.25	1.23	98.3	ug/mL	EPA 6010C
	Lead	0.250	0.255	102	ug/mL	EPA 6010C
	Nickel	2.50	2.51	100	ug/mL	EPA 6010C
	Selenium	0.250	0.251	100	ug/mL	EPA 6010C
	Silver	1.25	1.23	98.4	ug/mL	EPA 6010C
	Thallium	0.250	0.258	103	ug/mL	EPA 6010C
	Zinc	2.50	2.59	104	ug/mL	EPA 6010C
Y4D0203-CCV3	Antimony	0.250	0.256	102	ug/mL	EPA 6010C
	Arsenic	0.250	0.246	98.4	ug/mL	EPA 6010C
	Beryllium	0.250	0.251	100	ug/mL	EPA 6010C
	Cadmium	0.125	0.125	99.9	ug/mL	EPA 6010C
	Chromium	1.00	1.03	103	ug/mL	EPA 6010C
	Copper	1.25	1.23	98.1	ug/mL	EPA 6010C
	Lead	0.250	0.255	102	ug/mL	EPA 6010C
	Nickel	2.50	2.48	99.1	ug/mL	EPA 6010C
	Selenium	0.250	0.249	99.7	ug/mL	EPA 6010C
	Silver	1.25	1.23	98.7	ug/mL	EPA 6010C
	Thallium	0.250	0.259	104	ug/mL	EPA 6010C
	Zinc	2.50	2.55	102	ug/mL	EPA 6010C
Y4D0203-CCV4	Antimony	0.250	0.256	102	ug/mL	EPA 6010C
	Arsenic	0.250	0.250	99.9	ug/mL	EPA 6010C

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument ID: WinLabICP

Calibration: 04/01/14

Control Limit: +/- 10.00%

Sequence: Y4D0203

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y4D0203-CCV4	Beryllium	0.250	0.248	99.3	ug/mL	EPA 6010C
	Cadmium	0.125	0.128	102	ug/mL	EPA 6010C
	Chromium	1.00	1.04	104	ug/mL	EPA 6010C
	Copper	1.25	1.22	97.6	ug/mL	EPA 6010C
	Lead	0.250	0.255	102	ug/mL	EPA 6010C
	Nickel	2.50	2.52	101	ug/mL	EPA 6010C
	Selenium	0.250	0.253	101	ug/mL	EPA 6010C
	Silver	1.25	1.23	98.1	ug/mL	EPA 6010C
	Thallium	0.250	0.261	105	ug/mL	EPA 6010C
	Zinc	2.50	2.61	105	ug/mL	EPA 6010C
Y4D0203-CCV5	Antimony	0.250	0.257	103	ug/mL	EPA 6010C
	Arsenic	0.250	0.247	98.7	ug/mL	EPA 6010C
	Beryllium	0.250	0.247	99.0	ug/mL	EPA 6010C
	Cadmium	0.125	0.126	101	ug/mL	EPA 6010C
	Chromium	1.00	1.03	103	ug/mL	EPA 6010C
	Copper	1.25	1.21	97.0	ug/mL	EPA 6010C
	Lead	0.250	0.253	101	ug/mL	EPA 6010C
	Nickel	2.50	2.51	100	ug/mL	EPA 6010C
	Selenium	0.250	0.248	99.2	ug/mL	EPA 6010C
	Silver	1.25	1.22	97.9	ug/mL	EPA 6010C
	Thallium	0.250	0.264	105	ug/mL	EPA 6010C
	Zinc	2.50	2.57	103	ug/mL	EPA 6010C
Y4D0203-CCV6	Antimony	0.250	0.257	103	ug/mL	EPA 6010C
	Arsenic	0.250	0.249	99.6	ug/mL	EPA 6010C
	Beryllium	0.250	0.243	97.4	ug/mL	EPA 6010C
	Cadmium	0.125	0.128	102	ug/mL	EPA 6010C
	Chromium	1.00	1.04	104	ug/mL	EPA 6010C
	Copper	1.25	1.21	97.1	ug/mL	EPA 6010C
	Lead	0.250	0.253	101	ug/mL	EPA 6010C
	Nickel	2.50	2.52	101	ug/mL	EPA 6010C
	Selenium	0.250	0.255	102	ug/mL	EPA 6010C
	Silver	1.25	1.22	97.7	ug/mL	EPA 6010C
	Thallium	0.250	0.268	107	ug/mL	EPA 6010C
	Zinc	2.50	2.59	104	ug/mL	EPA 6010C
Y4D0203-CCVB	Antimony	0.250	0.258	103	ug/mL	EPA 6010C
	Arsenic	0.250	0.247	98.8	ug/mL	EPA 6010C
	Beryllium	0.250	0.247	98.8	ug/mL	EPA 6010C
	Cadmium	0.125	0.127	102	ug/mL	EPA 6010C

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument ID: WinLabICP

Calibration: 04/02/14

Control Limit: +/- 10.00%

Sequence: Y4D0203

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y4D0203-CCVB	Chromium	1.00	1.04	104	ug/mL	EPA 6010C
	Copper	1.25	1.23	98.1	ug/mL	EPA 6010C
	Lead	0.250	0.251	100	ug/mL	EPA 6010C
	Nickel	2.50	2.53	101	ug/mL	EPA 6010C
	Selenium	0.250	0.254	102	ug/mL	EPA 6010C
	Silver	1.25	1.23	98.4	ug/mL	EPA 6010C
	Thallium	0.250	0.262	105	ug/mL	EPA 6010C
	Zinc	2.50	2.57	103	ug/mL	EPA 6010C
Y4D0203-CCVC	Antimony	0.250	0.259	104	ug/mL	EPA 6010C
	Arsenic	0.250	0.246	98.2	ug/mL	EPA 6010C
	Beryllium	0.250	0.246	98.2	ug/mL	EPA 6010C
	Cadmium	0.125	0.126	101	ug/mL	EPA 6010C
	Chromium	1.00	1.04	104	ug/mL	EPA 6010C
	Copper	1.25	1.21	96.4	ug/mL	EPA 6010C
	Lead	0.250	0.252	101	ug/mL	EPA 6010C
	Nickel	2.50	2.50	100	ug/mL	EPA 6010C
	Selenium	0.250	0.253	101	ug/mL	EPA 6010C
	Silver	1.25	1.22	97.7	ug/mL	EPA 6010C
	Thallium	0.250	0.263	105	ug/mL	EPA 6010C
	Zinc	2.50	2.59	103	ug/mL	EPA 6010C

* Values outside of QC limits

CRDL STANDARD

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument ID: WinLabICP

Calibration: 04/01/14

Sequence: Y4D0203

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limits
Y4D0203-CRL1	Antimony	0.0100	0.012	121	ug/mL	10 - 190
	Arsenic	0.0100	0.007	74.8	ug/mL	10 - 190
	Beryllium	0.00500	0.005	99.9	ug/mL	10 - 190
	Cadmium	0.00500	0.005	99.9	ug/mL	10 - 190
	Chromium	0.00500	0.005	109	ug/mL	10 - 190
	Copper	0.00500	0.006	123	ug/mL	10 - 190
	Lead	0.00500	0.005	93.2	ug/mL	10 - 190
	Nickel	0.00500	0.004	77.4	ug/mL	10 - 190
	Selenium	0.0100	0.011	115	ug/mL	10 - 190
	Silver	0.00500	0.005	108	ug/mL	10 - 190
	Thallium	0.0100	0.011	115	ug/mL	10 - 190
	Zinc	0.00500	0.005	108	ug/mL	10 - 190
Y4D0203-CRL2	Antimony	0.0100	0.008	84.4	ug/mL	10 - 190
	Arsenic	0.0100	0.009	90.2	ug/mL	10 - 190
	Beryllium	0.00500	0.005	100	ug/mL	10 - 190
	Cadmium	0.00500	0.005	103	ug/mL	10 - 190
	Chromium	0.00500	0.005	106	ug/mL	10 - 190
	Copper	0.00500	0.0004	8.51 *	ug/mL	10 - 190
	Lead	0.00500	0.005	90.9	ug/mL	10 - 190
	Nickel	0.00500	0.006	117	ug/mL	10 - 190
	Selenium	0.0100	0.012	121	ug/mL	10 - 190
	Silver	0.00500	0.005	97.2	ug/mL	10 - 190
	Thallium	0.0100	0.013	127	ug/mL	10 - 190
	Zinc	0.00500	0.005	92.5	ug/mL	10 - 190

* Values outside of QC limits

FORM I**BLANKS
EPA 6010C**Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Instrument ID: WinLabICPProject: 41103.00 Kingston CVSSequence: Y4D0203Calibration: 04/01/14 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y4D0203-ICB1	Antimony	0.002	0.005	ug/mL		EPA 6010C
	Arsenic	-0.002	0.004	ug/mL		EPA 6010C
	Beryllium	0.00001	0.001	ug/mL		EPA 6010C
	Cadmium	-0.00001	0.003	ug/mL		EPA 6010C
	Chromium	0.0001	0.005	ug/mL		EPA 6010C
	Copper	0.002	0.003	ug/mL		EPA 6010C
	Lead	-0.0009	0.003	ug/mL		EPA 6010C
	Nickel	0.0002	0.005	ug/mL		EPA 6010C
	Selenium	0.001	0.010	ug/mL		EPA 6010C
	Silver	0.0006	0.005	ug/mL		EPA 6010C
	Thallium	0.001	0.005	ug/mL		EPA 6010C
	Zinc	0.00005	0.010	ug/mL		EPA 6010C
Y4D0203-CCB1	Antimony	0.00002	0.005	ug/mL		EPA 6010C
	Arsenic	-0.003	0.004	ug/mL		EPA 6010C
	Beryllium	0.00003	0.001	ug/mL		EPA 6010C
	Cadmium	-0.00006	0.003	ug/mL		EPA 6010C
	Chromium	0.0001	0.005	ug/mL		EPA 6010C
	Copper	0.0005	0.003	ug/mL		EPA 6010C
	Lead	-0.0004	0.003	ug/mL		EPA 6010C
	Nickel	0.000003	0.005	ug/mL		EPA 6010C
	Selenium	0.0008	0.010	ug/mL		EPA 6010C
	Silver	0.0003	0.005	ug/mL		EPA 6010C
	Thallium	0.0006	0.005	ug/mL		EPA 6010C
	Zinc	-0.0002	0.010	ug/mL		EPA 6010C
Y4D0203-CCB3	Antimony	0.0006	0.005	ug/mL		EPA 6010C
	Arsenic	-0.002	0.004	ug/mL		EPA 6010C
	Beryllium	0.000002	0.001	ug/mL		EPA 6010C
	Cadmium	0.0001	0.003	ug/mL		EPA 6010C
	Chromium	0.00005	0.005	ug/mL		EPA 6010C
	Copper	-0.001	0.003	ug/mL		EPA 6010C
	Lead	0.0004	0.003	ug/mL		EPA 6010C
	Nickel	0.0003	0.005	ug/mL		EPA 6010C
	Selenium	0.007	0.010	ug/mL		EPA 6010C

FORM I

BLANKS
EPA 6010CLaboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Instrument ID: WinLabICPProject: 41103.00 Kingston CVSSequence: Y4D0203Calibration: 04/01/14 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y4D0203-CCB3	Silver	0.0005	0.005	ug/mL		EPA 6010C
	Thallium	-0.0002	0.005	ug/mL		EPA 6010C
	Zinc	-0.0003	0.010	ug/mL		EPA 6010C
BD40038-BLK1	Antimony	-0.003	0.005	mg/L		EPA 6010C
	Arsenic	-0.002	0.004	mg/L		EPA 6010C
	Beryllium	-0.00002	0.001	mg/L		EPA 6010C
	Cadmium	-0.00006	0.003	mg/L		EPA 6010C
	Chromium	0.00004	0.005	mg/L		EPA 6010C
	Copper	-0.003	0.003	mg/L		EPA 6010C
	Lead	-0.0002	0.003	mg/L		EPA 6010C
	Nickel	0.0005	0.005	mg/L		EPA 6010C
	Selenium	0.004	0.010	mg/L		EPA 6010C
	Silver	-0.00008	0.005	mg/L		EPA 6010C
	Thallium	0.001	0.005	mg/L		EPA 6010C
	Zinc	-0.0003	0.010	mg/L		EPA 6010C
Y4D0203-CCB4	Antimony	-0.0007	0.005	ug/mL		EPA 6010C
	Arsenic	-0.003	0.004	ug/mL		EPA 6010C
	Beryllium	0.00002	0.001	ug/mL		EPA 6010C
	Cadmium	0.0001	0.003	ug/mL		EPA 6010C
	Chromium	-0.00003	0.005	ug/mL		EPA 6010C
	Copper	-0.002	0.003	ug/mL		EPA 6010C
	Lead	-0.001	0.003	ug/mL		EPA 6010C
	Nickel	0.001	0.005	ug/mL		EPA 6010C
	Selenium	0.0005	0.010	ug/mL		EPA 6010C
	Silver	0.0002	0.005	ug/mL		EPA 6010C
	Thallium	0.0002	0.005	ug/mL		EPA 6010C
	Zinc	-0.0003	0.010	ug/mL		EPA 6010C
Y4D0203-CCB5	Antimony	0.0009	0.005	ug/mL		EPA 6010C
	Arsenic	-0.003	0.004	ug/mL		EPA 6010C
	Beryllium	0.00003	0.001	ug/mL		EPA 6010C
	Cadmium	0.00003	0.003	ug/mL		EPA 6010C
	Chromium	-0.0001	0.005	ug/mL		EPA 6010C
	Copper	-0.002	0.003	ug/mL		EPA 6010C

FORM I

BLANKS
EPA 6010CLaboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Instrument ID: WinLabICPProject: 41103.00 Kingston CVSSequence: Y4D0203Calibration: 04/01/14 2

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y4D0203-CCB5	Lead	-0.001	0.003	ug/mL		EPA 6010C
	Nickel	-0.00001	0.005	ug/mL		EPA 6010C
	Selenium	0.002	0.010	ug/mL		EPA 6010C
	Silver	0.0002	0.005	ug/mL		EPA 6010C
	Thallium	0.001	0.005	ug/mL		EPA 6010C
	Zinc	-0.0006	0.010	ug/mL		EPA 6010C
Y4D0203-CCB6	Antimony	0.0003	0.005	ug/mL		EPA 6010C
	Arsenic	-0.001	0.004	ug/mL		EPA 6010C
	Beryllium	0.00002	0.001	ug/mL		EPA 6010C
	Cadmium	0.0002	0.003	ug/mL		EPA 6010C
	Chromium	-0.0001	0.005	ug/mL		EPA 6010C
	Copper	-0.002	0.003	ug/mL		EPA 6010C
	Lead	-0.001	0.003	ug/mL		EPA 6010C
	Nickel	0.001	0.005	ug/mL		EPA 6010C
	Selenium	0.0007	0.010	ug/mL		EPA 6010C
	Silver	0.0004	0.005	ug/mL		EPA 6010C
	Thallium	0.001	0.005	ug/mL		EPA 6010C
	Zinc	-0.0005	0.010	ug/mL		EPA 6010C
Y4D0203-CCBB	Antimony	-0.0002	0.005	ug/mL		EPA 6010C
	Arsenic	-0.003	0.004	ug/mL		EPA 6010C
	Beryllium	0.00004	0.001	ug/mL		EPA 6010C
	Cadmium	0.0002	0.003	ug/mL		EPA 6010C
	Chromium	-0.00008	0.005	ug/mL		EPA 6010C
	Copper	-0.003	0.003	ug/mL		EPA 6010C
	Lead	-0.0007	0.003	ug/mL		EPA 6010C
	Nickel	0.002	0.005	ug/mL		EPA 6010C
	Selenium	0.002	0.010	ug/mL		EPA 6010C
	Silver	0.0007	0.005	ug/mL		EPA 6010C
	Thallium	0.002	0.005	ug/mL		EPA 6010C
	Zinc	-0.0005	0.010	ug/mL		EPA 6010C
Y4D0203-CCBC	Antimony	0.0005	0.005	ug/mL		EPA 6010C
	Arsenic	-0.003	0.004	ug/mL		EPA 6010C
	Beryllium	0.00005	0.001	ug/mL		EPA 6010C

FORM I**BLANKS
EPA 6010C**Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Instrument ID: WinLabICPProject: 41103.00 Kingston CVSSequence: Y4D0203Calibration: 04/02/14 0

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y4D0203-CCBC	Cadmium	0.0001	0.003	ug/mL		EPA 6010C
	Chromium	-0.00006	0.005	ug/mL		EPA 6010C
	Copper	-0.003	0.003	ug/mL		EPA 6010C
	Lead	-0.001	0.003	ug/mL		EPA 6010C
	Nickel	0.001	0.005	ug/mL		EPA 6010C
	Selenium	0.004	0.010	ug/mL		EPA 6010C
	Silver	0.0003	0.005	ug/mL		EPA 6010C
	Thallium	0.001	0.005	ug/mL		EPA 6010C
	Zinc	-0.0004	0.010	ug/mL		EPA 6010C

ICP INTERFERENCE CHECK SAMPLE

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument ID: WinLabICP

Calibration: 04/01/14

Sequence: Y4D0203

Lab Sample ID	Analyte	True	Found	%R	Units
Y4D0203-IFA1	Antimony		-0.01		ug/mL
	Arsenic		0.00		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.01		ug/mL
	Chromium		-0.01		ug/mL
	Copper		-0.02		ug/mL
	Lead		-0.04		ug/mL
	Nickel		0.04		ug/mL
	Selenium		-0.06		ug/mL
	Silver		0.00		ug/mL
	Thallium		0.00		ug/mL
	Zinc		0.00		ug/mL
Y4D0203-IFB1	Antimony	0.500	0.55	110	ug/mL
	Arsenic	0.500	0.56	112	ug/mL
	Beryllium	0.500	0.49	99.0	ug/mL
	Cadmium	1.00	0.94	93.7	ug/mL
	Chromium	0.500	0.48	95.3	ug/mL
	Copper	0.500	0.52	104	ug/mL
	Lead	1.00	0.91	90.6	ug/mL
	Nickel	1.00	1.08	108	ug/mL
	Selenium	0.500	0.49	97.5	ug/mL
	Silver	1.00	1.12	112	ug/mL
	Thallium	0.500	0.47	93.8	ug/mL
	Zinc	1.00	0.91	90.9	ug/mL
Y4D0203-IFA2	Antimony		-0.01		ug/mL
	Arsenic		0.00		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.01		ug/mL
	Chromium		-0.01		ug/mL

ICP INTERFERENCE CHECK SAMPLE

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument ID: WinLabICP

Calibration: 04/02/14

Sequence: Y4D0203

Lab Sample ID	Analyte	True	Found	%R	Units
Y4D0203-IFA2	Copper		-0.03		ug/mL
	Lead		-0.04		ug/mL
	Nickel		0.03		ug/mL
	Selenium		-0.05		ug/mL
	Silver		0.00		ug/mL
	Thallium		0.00		ug/mL
	Zinc		0.00		ug/mL
Y4D0203-IFB2	Antimony	0.500	0.55	111	ug/mL
	Arsenic	0.500	0.56	111	ug/mL
	Beryllium	0.500	0.49	98.2	ug/mL
	Cadmium	1.00	0.95	95.0	ug/mL
	Chromium	0.500	0.49	97.2	ug/mL
	Copper	0.500	0.53	105	ug/mL
	Lead	1.00	0.90	90.4	ug/mL
	Nickel	1.00	1.09	109	ug/mL
	Selenium	0.500	0.48	96.8	ug/mL
	Silver	1.00	1.15	115	ug/mL
	Thallium	0.500	0.48	96.6	ug/mL
	Zinc	1.00	0.95	94.7	ug/mL

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Batch: BD40038

Laboratory ID: BD40038-SRM1

Preparation: EPA 3010A

Initial/Final: 50 mL / 50 mL

ANALYTE	TRUE (mg/L)	FOUND (mg/L)	SRM % REC.	QC LIMITS REC.
Antimony	0.435	0.437	100	69.4 - 121
Arsenic	0.341	0.321	94.0	83.3 - 118
Beryllium	0.0749	0.072	95.5	83.3 - 113
Cadmium	0.0854	0.083	97.3	84.4 - 115
Chromium	0.644	0.653	101	87.1 - 113
Copper	0.521	0.505	96.9	90 - 110
Lead	0.517	0.523	101	87 - 113
Nickel	1.52	1.47	96.9	90.1 - 112
Selenium	0.362	0.346	95.5	78.7 - 116
Silver	0.210	0.199	94.9	85.7 - 115
Thallium	0.358	0.361	101	77.9 - 122
Zinc	1.69	1.70	101	85.8 - 114

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Instrument: WinLabICP

Analyte	LOD	LOQ	Units
Antimony	0.005	0.005	mg/L
Arsenic	0.004	0.004	mg/L
Beryllium	0.001	0.001	mg/L
Cadmium	0.003	0.003	mg/L
Chromium	0.005	0.005	mg/L
Copper	0.003	0.003	mg/L
Lead	0.003	0.003	mg/L
Nickel	0.005	0.005	mg/L
Selenium	0.010	0.010	mg/L
Silver	0.005	0.005	mg/L
Thallium	0.005	0.005	mg/L
Zinc	0.010	0.010	mg/L

ICP Interelement Correction Factors

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument: WinLabICP

Date: 01/31/2013

Analyte	Wavelength (nm)	Fe	Al	Ca	Mg
Ag	338.289	0	0	0.01053	0
Al	308.215	-0.0853677	n/a	0.0113715	0.0230017
Al RADIAL		-0.120022	1040.13	-0.0385377	-0.0326901
As	188.979	-0.147064	0	0	0
Ba	233.527	0	0	0	0
Be	313.107	0	0	0	0
Ca	227.546	-4.69394	-0.540569	n/a	-0.0764809
Ca RADIAL		-0.208308	-0.0362947	985.629	-00380518
Cd	226.502	0.188643	0	0	0
Co	228.616	0	0	0	0
Cr	267.716	0	0	0	0
Cu	324.752	-0.0486096	0.011678	0.0195576	0.0130959
Fe	273.955	n/a	0	0	0
Fe RADIAL		1050.93	0.010468	0	0.0130041
K RADIAL		0	-0.0141601	0	0.019658
Mg	279.077	-0.0503105	0	0.0223471	n/a
Mg RADIAL		-0.0472329	0	0.0580061	959.388
Mn	257.610	-0.0538655	0	0	0.0184026
Na	330.237	-4.8803	-0.0462274	-1.67366	-0.102377
Na RADIAL		0.073432	0.0403134	0.0327159	0.108619
Ni	232.003	-0.163436	0	0	0
Pb	220.353	0.130655	-0.0944594	-0.011762	0
Sb	206.836	0	0.0149504	0	0
Se	196.026	-0.702912	0	0	0
Tl	190.801	-0.0795765	-0.0111665	0	0
V	292.402	0.0810207	0	0	0
Y	371.029	25.2577	9.27277	8.3464	8.87615
Y RADIAL		25.9251	9.90661	8.63732	9.4563
Zn	206.200	0.0476982	0.0198303	0	0

ICP Linear Dynamic Range

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Instrument: WinLabICP

Date: 01/31/2013

CAS NO.	Analyte	Concentration mg/L
7440-36-0	Antimony	50
7440-38-2	Arsenic	100
7440-41-7	Beryllium	5
7440-43-9	Cadmium	33.3
7440-47-3	Chromium	20
7440-50-8	Copper	25
7439-92-1	Lead	66.6
7440-02-0	Nickel	50
7782-49-2	Selenium	100
7440-22-4	Silver	25
7440-28-0	Thallium	66.6
7440-66-6	Zinc	33.3

FORM IV**PREPARATION BATCH SUMMARY****EPA 6010C**

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Batch: BD40038 Batch Matrix: Water Preparation: EPA 3010A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 0314	14C0922-01	qbi040114b-041	04/01/14 14:12	
KC-MW-02 0314	14C0922-02	qbi040114b-044	04/01/14 14:12	
KC-MW-05 0314	14C0922-03	qbi040114b-045	04/01/14 14:12	
KC-FD-01	14C0922-04	qbi040114b-046	04/01/14 14:12	
Blank	BD40038-BLK1	qbi040114b-038	04/01/14 14:12	
Reference	BD40038-SRM1	qbi040114b-039	04/01/14 14:12	

FORM V**ANALYSIS BATCH (SEQUENCE) SUMMARY****EPA 6010C**Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSSequence: Y4D0203Instrument: WinLabICPMatrix: WaterCalibration: 04/01/14 1

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y4D0203-ICV1	qbi040114b-001	04/01/14 16:56
Initial Cal Blank	Y4D0203-ICB1	qbi040114b-002	04/01/14 17:04
Instrument RL Check	Y4D0203-CRL1	qbi040114b-003	04/01/14 17:09
Interference Check A	Y4D0203-IFA1	qbi040114b-004	04/01/14 17:13
Interference Check B	Y4D0203-IFB1	qbi040114b-005	04/01/14 17:21
Calibration Check	Y4D0203-CCV1	qbi040114b-006	04/01/14 17:28
Calibration Blank	Y4D0203-CCB1	qbi040114b-007	04/01/14 17:36
Calibration Check	Y4D0203-CCV3	qbi040114b-030	04/01/14 19:40
Calibration Blank	Y4D0203-CCB3	qbi040114b-031	04/01/14 19:48
Blank	BD40038-BLK1	qbi040114b-038	04/01/14 20:22
Reference	BD40038-SRM1	qbi040114b-039	04/01/14 20:27
KC-MW-01 0314	14C0922-01	qbi040114b-041	04/01/14 20:40
Calibration Check	Y4D0203-CCV4	qbi040114b-042	04/01/14 20:45
Calibration Blank	Y4D0203-CCB4	qbi040114b-043	04/01/14 20:53
KC-MW-02 0314	14C0922-02	qbi040114b-044	04/01/14 20:58
KC-MW-05 0314	14C0922-03	qbi040114b-045	04/01/14 21:03
KC-FD-01	14C0922-04	qbi040114b-046	04/01/14 21:08
Calibration Check	Y4D0203-CCV5	qbi040114b-054	04/01/14 21:48
Calibration Blank	Y4D0203-CCB5	qbi040114b-055	04/01/14 21:56
Calibration Check	Y4D0203-CCV6	qbi040114b-066	04/01/14 22:53
Calibration Blank	Y4D0203-CCB6	qbi040114b-067	04/01/14 23:01
Calibration Check	Y4D0203-CCVB	qbi040114b-126	04/02/14 04:27
Calibration Blank	Y4D0203-CCBB	qbi040114b-127	04/02/14 04:35
Instrument RL Check	Y4D0203-CRL2	qbi040114b-133	04/02/14 05:05
Interference Check A	Y4D0203-IFA2	qbi040114b-134	04/02/14 05:10
Interference Check B	Y4D0203-IFB2	qbi040114b-135	04/02/14 05:18
Calibration Check	Y4D0203-CCVC	qbi040114b-136	04/02/14 05:25
Calibration Blank	Y4D0203-CCBC	qbi040114b-137	04/02/14 05:33

HOLDING TIME SUMMARY

EPA 6010C

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KC-MW-01 0314	03/26/14 18:40	03/27/14 15:40	04/01/14 14:12	5.81	180.00	04/01/14 20:40	0.27	30.00	
KC-MW-02 0314	03/26/14 18:20	03/27/14 15:40	04/01/14 14:12	5.83	180.00	04/01/14 20:58	0.28	30.00	
KC-MW-05 0314	03/26/14 18:00	03/27/14 15:40	04/01/14 14:12	5.84	180.00	04/01/14 21:03	0.29	30.00	
KC-FD-01	03/26/14 15:00	03/27/14 15:40	04/01/14 14:12	5.97	180.00	04/01/14 21:08	0.29	30.00	

Sample Information Detail Report
Document Name: 040114b

File Description
Sample Information File

Parameters Common to All Samples

Batch ID	qbi040114b
Analyst Name	MW
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

3	3	SEQ-ICV1	
4	4	SEQ-ICB1	
5	5	SEQ-CRL1	
6	6	SEQ-IFA1	
7	7	SEQ-IFB1	
8	3	SEQ-CCV1	
9	4	SEQ-CCB1	
10	9	BD40037-BLK1	
11	10	BD40037-SRM1	
12	11	BD40037-SRM2	
13	12	14C0941-01	DISS
14	13	14C0941-02	DISS
15	14	14C0968-01	DISS
16	15	14C0968-02	DISS
17	16	14C0968-03	DISS
18	17	14C0980-01	DISS
19	18	14C0980-02	DISS
20	3	SEQ-CCV2	
21	4	SEQ-CCB2	
22	19	14C0987-01	DISS
23	20	14C0987-02	DISS
24	21	14C1039-01	DISS
25	22	BD40037-DUP1	DISS
26	23	BD40037-MS1	DISS
27	24	14C1039-02	DISS
28	25	14C1039-03	DISS
29	26	14C1039-04	DISS
30	27	14C1039-05	DISS
31	28	14C1039-06	DISS
32	3	SEQ-CCV3	
33	4	SEQ-CCB3	
34	29	14C1039-07	DISS
35	30	14C1039-08	DISS
36	31	14C1039-09	DISS
37	32	14C1039-10	DISS
38	33	14C1039-11	DISS
39	34	SEQ-SRD1	14C1039-11 DISS
40	35	BD40038-BLK1	
41	36	BD40038-SRM1	
42	37	BD40038-SRM2	
43	38	14C0922-01	
44	3	SEQ-CCV4	
45	4	SEQ-CCB4	
46	39	14C0922-02	
47	40	14C0922-03	
48	41	14C0922-04	
49	42	14C0941-01	
50	43	14C0941-02	
51	44	14C0963-01	
52	45	14C0973-01	
53	46	14C0973-02	
54	47	14C0980-01	
55	48	BD40038-DUP1	
56	3	SEQ-CCV5	
57	4	SEQ-CCB5	
58	49	BD40038-MS1	

Sample Information Detail Report
Document Name: 040114b

59	50	14C0980-02	
60	51	14C0985-01	
61	52	14C0985-02	
62	53	14C0987-01	
63	54	14C0987-02	
64	55	14C0992-01	
65	56	14C0992-02	
66	57	14C1018-01	
67	58	SEQ-SRD2	14C0987-02
68	3	SEQ-CCV6	
69	4	SEQ-CCB6	
70	59	BD40040-BLK1	
71	60	BD40040-SRM1	
72	61	14C0926-01	
73	62	14C0950-01	
74	63	14C0952-02	
75	64	14C0952-03	
76	65	14C0952-04	
77	66	14C0952-05	
78	67	14C0952-06	
79	68	BD40040-DUP1	
80	8	SEQ-CCV7	
81	1	SEQ-CCB7	
82	69	BD40040-MS1	
83	70	14C0967-01	
84	71	14C0967-02	
85	72	14C0967-03	
86	73	14C0981-01	
87	74	14C0981-02	
88	75	14C0981-03	
89	76	14C0981-04	
90	77	14C0981-05	
91	78	14C0981-06	
92	8	SEQ-CCV8	
93	1	SEQ-CCB8	
94	79	SEQ-SRD3	14C0981-06
95	80	BD40041-BLK1	
96	81	BD40041-SRM1	
97	82	14C0978-01	
98	83	14C0978-02	
99	84	14C0978-03	
100	85	14C0978-04	
101	86	14C0978-05	
102	87	14C0978-06	
103	88	14C0978-07	
104	8	SEQ-CCV9	
105	1	SEQ-CCB9	
106	89	14C0978-08	
107	90	14C0978-09	
108	91	14C0978-10	
109	92	14C0991-01	
110	93	BD40041-DUP1	
111	94	BD40041-MS1	
112	95	14C0994-01	
113	96	14C1000-07	
114	97	14C1000-08	
115	98	14C1037-01	
116	8	SEQ-CCVA	
117	1	SEQ-CCBA	
118	99	14D0046-01	
119	100	SEQ-SRD4	14D0046-01
120	101	BD40042-BLK1	
121	102	BD40042-SRM1	
122	103	14C1014-01	DISS
123	104	BD40042-DUP1	DISS
124	105	BD40042-MS1	DISS
125	106	14C1014-02	DISS
126	107	14C1014-03	DISS

Sample Information Detail Report
Document Name: 040114b

127	108	14C1014-04	DISS
128	8	SEQ-CCVB	
129	1	SEQ-CCBB	
130	109	14D1014-05	DISS
131	110	14C1014-06	DISS
132	111	14C1014-07	DISS
133	112	14C1014-08	DISS
134	113	SEQ-SRD5	14C1014-08 DISS
135	5	SEQ-CRL2	
136	6	SEQ-IFA2	
137	7	SEQ-IFB2	
138	8	SEQ-CCVC	
139	1	SEQ-CCBC	

PREPARATION BENCH SHEET

BD40037

York Analytical Laboratories, Inc.

Printed: 4/1/2014 2:09:51PM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
14C0941-01	Metals, Target Analyte, Diss	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C0941-02	Metals, Target Analyte, Diss	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C0968-01	Manganese, Dissolved by EI	04/01/2014 14:0	MW	50	50					EPA 3010A	Lab to filter.
14C0968-02	Manganese, Dissolved by EI	04/01/2014 14:0	MW	50	50					EPA 3010A	Lab to filter.
14C0968-03	Manganese, Dissolved by EI	04/01/2014 14:0	MW	50	50					EPA 3010A	Lab to filter.
14C0980-01	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C0980-02	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C0987-01	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C0987-02	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C1039-01	Manganese, Dissolved by EI	04/01/2014 14:0	MW	50	50					EPA 3010A	Added for BatchQC in: BD40037
14C1039-01	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C1039-01	Metals, Target Analyte, Diss	04/01/2014 14:0	MW	50	50					EPA 3010A	Added for BatchQC in: BD40037
14C1039-02	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C1039-03	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C1039-04	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C1039-05	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C1039-06	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C1039-07	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C1039-08	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C1039-09	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C1039-10	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
14C1039-11	Metals, Dissolved - Target A	04/01/2014 14:0	MW	50	50					EPA 3010A	
BD40037-BLK1	QC	04/01/2014 14:0	MW	50	50					EPA 3010A	

PREPARATION BENCH SHEET

BD40037

York Analytical Laboratories, Inc.

Printed: 4/1/2014 2:09:51PM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
BD40037-DUP1	QC	04/01/2014 14:0	MW	50	50		14C1039-01			EPA 3010A	
BD40037-MS1	QC	04/01/2014 14:0	MW	50	50	Y14C114	14C1039-01	500		EPA 3010A	
BD40037-SRM1	QC	04/01/2014 14:0	MW	50	50	Y13J058		50000		EPA 3010A	
BD40037-SRM2	QC	04/01/2014 14:0	MW	50	50	Y14A001		50000		EPA 3010A	

Batch Comments:

PREPARATION BENCH SHEET

BD40038

York Analytical Laboratories, Inc.

Printed: 4/1/2014 2:19:53PM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
14C0922-01	Metals, Priority Pollutant	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0922-02	Metals, Priority Pollutant	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0922-03	Metals, Priority Pollutant	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0922-04	Metals, Priority Pollutant	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0941-01	Metals, Target Analyte	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0941-02	Metals, Target Analyte	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0963-01	Metals, RCRA	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-01	Hardness, total (as CaCO3)	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-01	Sodium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-01	Potassium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-01	Manganese by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-01	Iron by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-01	Calcium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-01	Cadmium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-01	Lead by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-02	Magnesium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-02	Calcium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-02	Potassium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-02	Manganese by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-02	Hardness, total (as CaCO3)	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-02	Sodium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-02	Cadmium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	

PREPARATION BENCH SHEET

BD40038

York Analytical Laboratories, Inc.

Printed: 4/1/2014 2:19:53PM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
14C0973-02	Lead by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0973-02	Iron by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0980-01	Metals, RCRA	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Lead by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Lead by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Magnesium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Magnesium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Manganese by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Metals, Priority Pollutant	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Metals, Target Analyte	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Nickel by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Iron by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Manganese by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Iron by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Hardness, total (as CaCO3)	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Copper by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Cobalt by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Chromium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Calcium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Calcium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Cadmium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Cadmium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Beryllium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038

PREPARATION BENCH SHEET

BD40038

York Analytical Laboratories, Inc.

Printed: 4/1/2014 2:19:53PM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
14C0980-01	Sodium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Arsenic by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Sodium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Barium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Vanadium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Zinc by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-01	Potassium by EPA 6010	04/01/2014 14:11	MW	50	50					EPA 3010A	Added for BatchQC in: BD40038
14C0980-02	Metals, Target Analyte	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-01	Copper by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-01	Zinc by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-01	Vanadium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-01	Nickel by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-01	Manganese by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-01	Iron by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-01	Cobalt by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-01	Chromium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-01	Cadmium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-01	Beryllium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-01	Barium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-01	Arsenic by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-01	Magnesium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-02	Iron by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-02	Copper by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	

PREPARATION BENCH SHEET

BD40038

York Analytical Laboratories, Inc.

Printed: 4/1/2014 2:19:53PM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
14C0985-02	Zinc by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-02	Vanadium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-02	Nickel by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-02	Magnesium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-02	Manganese by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-02	Chromium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-02	Cadmium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-02	Beryllium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-02	Barium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-02	Arsenic by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0985-02	Cobalt by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0987-01	Metals, Target Analyte	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0987-02	Metals, Target Analyte	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0992-01	Metals, Target Analyte	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0992-02	Lead by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0992-02	Nickel by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0992-02	Copper by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0992-02	Cadmium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0992-02	Zinc by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0918-01	Calcium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0918-01	Copper by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0918-01	Hardness, total (as CaCO3)	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C0918-01	Iron by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	

PREPARATION BENCH SHEET

BD40038

York Analytical Laboratories, Inc.

Printed: 4/1/2014 2:19:53PM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
14C1018-01	Magnesium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C1018-01	Manganese by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
14C1018-01	Sodium by EPA 200.7	04/01/2014 14:11	MW	50	50					EPA 3010A	
BD40038-BLK1	QC	04/01/2014 14:11	MW	50	50					EPA 3010A	
BD40038-DUP1	QC	04/01/2014 14:11	MW	50	50		14C0980-01			EPA 3010A	
BD40038-MS1	QC	04/01/2014 14:11	MW	50	50	Y14C114	14C0980-01	500		EPA 3010A	
BD40038-SRM1	QC	04/01/2014 14:11	MW	50	50	Y13J058		50000		EPA 3010A	
BD40038-SRM2	QC	04/01/2014 14:11	MW	50	50	Y14A001		50000		EPA 3010A	

Batch Comments:

PREPARATION BENCH SHEET

BD40040

York Analytical Laboratories, Inc.

Printed: 4/1/2014 2:23:30PM

Matrix: Soil

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
14C0926-01	Metals, RCRA	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0950-01	Beryllium by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0950-01	Cadmium by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0950-01	Nickel by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0950-01	Zinc by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0950-01	Chromium by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0950-01	Arsenic by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0950-01	Lead by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0950-01	Copper by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0952-02	Metals, NYSDEC Part 375	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0952-03	Metals, NYSDEC Part 375	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0952-04	Metals, NYSDEC Part 375	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0952-05	Metals, NYSDEC Part 375	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0952-06	Cadmium by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BD40040
14C0952-06	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BD40040
14C0952-06	Copper by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BD40040
14C0952-06	Metals, NYSDEC Part 375	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0952-06	Zinc by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BD40040
14C0952-06	Metals, RCRA	04/01/2014 14:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BD40040
14C0952-06	Beryllium by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BD40040
14C0952-06	Chromium by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BD40040
14C0952-06	Nickel by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BD40040
14C0952-06	Arsenic by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BD40040

PREPARATION BENCH SHEET

BD40040

York Analytical Laboratories, Inc.

Printed: 4/1/2014 2:23:30PM

Matrix: Soil

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
14C0952-06	Lead by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BD40040
14C0967-01	Lead by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0967-02	Lead by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0967-03	Lead by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0981-01	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0981-02	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0981-03	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0981-04	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0981-05	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0981-06	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
BD40040-BLK1	QC	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
BD40040-DUP1	QC	04/01/2014 14:2	MW	0.5	50		14C0952-06			EPA 3050B	
BD40040-MS1	QC	04/01/2014 14:2	MW	0.5	50	Y14C114	14C0952-06	500		EPA 3050B	
BD40040-SRM1	QC	04/01/2014 14:2	MW	0.5	50	Y14A097		500		EPA 3050B	

Batch Comments:

PREPARATION BENCH SHEET

BD40041

York Analytical Laboratories, Inc.

Printed: 4/1/2014 2:26:25PM

Matrix: Soil

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
14C0978-01	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0978-02	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0978-03	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0978-04	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0978-05	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0978-06	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0978-07	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0978-08	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0978-09	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0978-10	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0991-01	Metals, NYSDC Part 375	04/01/2014 14:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BD40041
14C0991-01	Arsenic by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0991-01	Cadmium by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0991-01	Lead by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0991-01	Metals, RCRA	04/01/2014 14:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BD40041
14C0991-01	Metals, Target Analyte	04/01/2014 14:2	MW	0.5	50					EPA 3050B	Added for BatchQC in: BD40041
14C0991-01	Chromium by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0994-01	Arsenic by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0994-01	Cadmium by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0994-01	Chromium by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0994-01	Lead by EPA 6010	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
14C0994-01	Metals, NYSDC Part 375	04/01/2014 14:2	MW	0.5	50					EPA 3050B	5 day firm
14C0994-01	Metals, NYSDC Part 375	04/01/2014 14:2	MW	0.5	50					EPA 3050B	5 day firm

PREPARATION BENCH SHEET

BD40041

York Analytical Laboratories, Inc.

Printed: 4/1/2014 2:26:25PM

Matrix: Soil											(No Surrogate)
Lab Number	Analysis	Prepared	By	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
14C1037-01	Metals, RCRA	04/01/2014 14:2	MW	0.5	50					EPA 3050B	4 day firm
BD40041-BLK1	QC	04/01/2014 14:2	MW	0.5	50					EPA 3050B	
BD40041-DUP1	QC	04/01/2014 14:2	MW	0.5	50		14C0991-01			EPA 3050B	
BD40041-MS1	QC	04/01/2014 14:2	MW	0.5	50		14C0991-01	500		EPA 3050B	
BD40041-SRM1	QC	04/01/2014 14:2	MW	0.5	50	Y14A097		500		EPA 3050B	

Batch Comments:

PREPARATION BENCH SHEET

BD40042

York Analytical Laboratories, Inc.

Printed: 4/1/2014 2:28:42PM

Matrix: Water

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
14C1014-01	Lead, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-01	Nickel, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-01	Zinc, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-01	Copper, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-02	Lead, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-02	Nickel, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-02	Zinc, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-02	Copper, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-03	Lead, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-03	Zinc, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-03	Copper, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-03	Nickel, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-04	Zinc, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-04	Copper, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-04	Nickel, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-04	Lead, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-05	Lead, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-05	Copper, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-05	Nickel, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-05	Zinc, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-06	Zinc, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-06	Nickel, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-06	Lead, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	

PREPARATION BENCH SHEET

BD40042

York Analytical Laboratories, Inc.

Printed: 4/1/2014 2:28:42PM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
14C1014-06	Copper, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-07	Nickel, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-07	Copper, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-07	Lead, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-07	Zinc, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-08	Nickel, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-08	Lead, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-08	Zinc, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
14C1014-08	Copper, Dissolved by EPA 601	04/01/2014 14:2	MW	50	50					EPA 3010A	
BD40042-BLK1	QC	04/01/2014 14:2	MW	50	50					EPA 3010A	
BD40042-DUP1	QC	04/01/2014 14:2	MW	50	50		14C1014-01			EPA 3010A	
BD40042-MS1	QC	04/01/2014 14:2	MW	50	50	Y14C114	14C1014-01	500		EPA 3010A	
BD40042-SRM1	QC	04/01/2014 14:2	MW	50	50	Y13J058		50000		EPA 3010A	

Batch Comments:

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Analysis Begun

Start Time: 4/1/2014 4:43:22 PM

Plasma On Time: 4/1/2014 7:45:32 AM

Logged In Analyst: mikew

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C9011901 Autosampler Model: S10

Sample Information File: C:\pe\Mikew\Sample Information\040114b.sif

Batch ID: qbi040114b

Results Data Set: qbi040114b

Results Library: C:\pe\MIKEW\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 4/1/2014 4:43:22 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y 371.029	16550110.0	97910.57	0.59%	5.000 mg/L
Y RADIAL	184997.8	1009.26	0.55%	5.000 mg/L
As 188.979†	-27.0	4.97	18.37%	[0.00] mg/L
Tl 190.801†	-51.3	6.51	12.69%	[0.00] mg/L
Se 196.026†	8.9	4.34	49.04%	[0.00] mg/L
Zn 206.200†	45.0	5.80	12.88%	[0.00] mg/L
Sb 206.836†	47.0	3.24	6.90%	[0.00] mg/L
Pb 220.353†	-61.8	1.89	3.05%	[0.00] mg/L
Cd 226.502†	-359.3	6.51	1.81%	[0.00] mg/L
Co 228.616†	5.3	6.70	126.61%	[0.00] mg/L
Ni 232.003†	-608.0	10.88	1.79%	[0.00] mg/L
Ba 233.527†	19.7	3.82	19.42%	[0.00] mg/L
Mn 257.610†	394.5	2.06	0.52%	[0.00] mg/L
Cr 267.716†	118.2	1.15	0.97%	[0.00] mg/L
Fe 273.955†	-25.7	10.80	41.96%	[0.00] mg/L
Mg 279.077†	-74.9	15.79	21.09%	[0.00] mg/L
V 292.402†	-58.2	19.23	33.02%	[0.00] mg/L
Al 308.215†	6443.5	105.94	1.64%	[0.00] mg/L
Be 313.107†	-4787.2	10.50	0.22%	[0.00] mg/L
Cu 324.752†	4301.8	57.55	1.34%	[0.00] mg/L
Ag 338.289†	224.1	47.48	21.18%	[0.00] mg/L
Na 330.237†	400.5	11.63	2.90%	[0.00] mg/L
Ca 227.546†	-367.4	11.47	3.12%	[0.00] mg/L
Al RADIAL†	8.6	5.94	68.94%	[0.00] mg/L
Fe RADIAL†	0.9	1.73	183.60%	[0.00] mg/L
Ca RADIAL†	772.5	4.78	0.62%	[0.00] mg/L
K RADIAL†	80.3	10.69	13.32%	[0.00] mg/L
Mg RADIAL†	1.5	1.23	82.78%	[0.00] mg/L
Na RADIAL†	4637.3	28.98	0.62%	[0.00] mg/L

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Sequence No.: 2

Autosampler Location: 2

Sample ID: CAL STD 1

Date Collected: 4/1/2014 4:48:11 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: CAL STD 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y 371.029	15407021.3	64192.80	0.42%	4.655 mg/L
Y RADIAL	183585.8	800.63	0.44%	4.962 mg/L
As 188.979†	2546.4	16.98	0.67%	[1.0000] mg/L
Tl 190.801†	3723.8	0.55	0.01%	[1.0000] mg/L
Se 196.026†	1260.4	15.30	1.21%	[1.0000] mg/L
Zn 206.200†	245817.2	2338.09	0.95%	[5.0000] mg/L
Sb 206.836†	2090.8	30.65	1.47%	[0.5000] mg/L

Pb 220.353†	7563.5	17.59	0.23%	[1.0000]	mg/L
Cd 226.502†	60661.6	532.82	0.88%	[0.5000]	mg/L
Co 228.616†	140734.5	1252.10	0.89%	[5.0000]	mg/L
Ni 232.003†	95854.4	994.41	1.04%	[5.0000]	mg/L
Ba 233.527†	2227736.3	17103.11	0.77%	[20.0000]	mg/L
Mn 257.610†	3008775.6	19401.55	0.64%	[5.0000]	mg/L
Cr 267.716†	209595.4	1561.22	0.74%	[2.0000]	mg/L
Fe 273.955†	152410.0	887.16	0.58%	[10.0000]	mg/L
Mg 279.077†	659460.1	5342.17	0.81%	[50.0000]	mg/L
V 292.402†	1506657.3	12316.56	0.82%	[5.0000]	mg/L
Al 308.215†	646312.0	5594.37	0.87%	[20.0000]	mg/L
Be 313.107†	1946609.2	11807.72	0.61%	[0.5000]	mg/L
Cu 324.752†	846800.9	8867.38	1.05%	[2.5000]	mg/L
Ag 338.289†	438917.6	3429.37	0.78%	[2.5000]	mg/L
Na 330.237†	64950.0	723.85	1.11%	[50.0000]	mg/L
Ca 227.546†	28380.9	130.68	0.46%	[50.0000]	mg/L
Al RADIAL†	35754.8	71.70	0.20%	[20.0000]	mg/L
Fe RADIAL†	639.9	7.61	1.19%	[10.0000]	mg/L
Ca RADIAL†	66681.3	150.10	0.23%	[50.0000]	mg/L
K RADIAL†	12977.9	78.65	0.61%	[10.0000]	mg/L
Mg RADIAL†	4574.4	26.23	0.57%	[50.0000]	mg/L
Na RADIAL†	660748.7	6590.61	1.00%	[50.0000]	mg/L

Sequence No.: 3

Sample ID: SEQ-ICV1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 4/1/2014 4:56:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-ICV1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15872490.0	4.795	mg/L	0.0200				0.42%
Y RADIAL	184328.8	4.982	mg/L	0.0144				0.29%
As 188.979†	616.0	0.2427	mg/L	0.00297	0.2427	mg/L	0.00297	1.23%
Tl 190.801†	949.8	0.2556	mg/L	0.00110	0.2556	mg/L	0.00110	0.43%
Se 196.026†	309.2	0.2490	mg/L	0.00143	0.2490	mg/L	0.00143	0.58%
Zn 206.200†	127391.0	2.591	mg/L	0.0375	2.591	mg/L	0.0375	1.45%
Sb 206.836†	1089.0	0.2603	mg/L	0.00193	0.2603	mg/L	0.00193	0.74%
Pb 220.353†	1912.5	0.2534	mg/L	0.00169	0.2534	mg/L	0.00169	0.67%
Cd 226.502†	15569.6	0.1274	mg/L	0.00198	0.1274	mg/L	0.00198	1.56%
Co 228.616†	71958.0	2.557	mg/L	0.0358	2.557	mg/L	0.0358	1.40%
Ni 232.003†	48107.0	2.510	mg/L	0.0328	2.510	mg/L	0.0328	1.31%
Ba 233.527†	1139156.3	10.23	mg/L	0.113	10.23	mg/L	0.113	1.11%
Mn 257.610†	1516585.3	2.520	mg/L	0.0272	2.520	mg/L	0.0272	1.08%
Cr 267.716†	108445.7	1.035	mg/L	0.0130	1.035	mg/L	0.0130	1.25%
Fe 273.955†	78458.8	5.148	mg/L	0.0783	5.148	mg/L	0.0783	1.52%
Mg 279.077†	329258.3	24.96	mg/L	0.252	24.96	mg/L	0.252	1.01%
V 292.402†	747725.1	2.481	mg/L	0.0207	2.481	mg/L	0.0207	0.83%
Al 308.215†	308225.3	9.538	mg/L	0.1113	9.538	mg/L	0.1113	1.17%
Be 313.107†	967132.4	0.2484	mg/L	0.00277	0.2484	mg/L	0.00277	1.12%
Cu 324.752†	418205.8	1.234	mg/L	0.0125	1.234	mg/L	0.0125	1.01%
Ag 338.289†	215575.4	1.228	mg/L	0.0125	1.228	mg/L	0.0125	1.02%
Na 330.237†	29972.2	23.14	mg/L	0.301	23.14	mg/L	0.301	1.30%
Ca 227.546†	13473.6	23.77	mg/L	0.347	23.77	mg/L	0.347	1.46%
Al RADIAL†	17404.8	9.736	mg/L	0.0104	9.736	mg/L	0.0104	0.11%
Fe RADIAL†	318.7	4.981	mg/L	0.0349	4.981	mg/L	0.0349	0.70%
Ca RADIAL†	32792.9	24.59	mg/L	0.047	24.59	mg/L	0.047	0.19%
K RADIAL†	6301.8	4.856	mg/L	0.0063	4.856	mg/L	0.0063	0.13%
Mg RADIAL†	2292.8	25.06	mg/L	0.077	25.06	mg/L	0.077	0.31%
Na RADIAL†	333674.4	25.25	mg/L	0.297	25.25	mg/L	0.297	1.18%

Sequence No.: 4

Sample ID: SEQ-ICB1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 4/1/2014 5:04:15 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-ICB1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16570418.3	5.006 mg/L		0.0088			0.18%
Y RADIAL	182562.9	4.934 mg/L		0.0561			1.14%
As 188.979†	-5.0	-0.0020 mg/L		0.00245	-0.0020 mg/L	0.00245	123.61%
Tl 190.801†	4.4	0.0012 mg/L		0.00024	0.0012 mg/L	0.00024	20.00%
Se 196.026†	1.8	0.0015 mg/L		0.00150	0.0015 mg/L	0.00150	103.53%
Zn 206.200†	2.2	0.0000 mg/L		0.00013	0.0000 mg/L	0.00013	275.42%
Sb 206.836†	7.5	0.0018 mg/L		0.00126	0.0018 mg/L	0.00126	69.94%
Pb 220.353†	-6.6	-0.0009 mg/L		0.00104	-0.0009 mg/L	0.00104	118.56%
Cd 226.502†	-1.8	0.0000 mg/L		0.00010	0.0000 mg/L	0.00010	705.22%
Co 228.616†	2.4	0.0001 mg/L		0.00013	0.0001 mg/L	0.00013	150.98%
Ni 232.003†	2.9	0.0002 mg/L		0.00047	0.0002 mg/L	0.00047	314.06%
Ba 233.527†	-7.7	-0.0001 mg/L		0.00006	-0.0001 mg/L	0.00006	91.47%
Mn 257.610†	2.3	0.0000 mg/L		0.00001	0.0000 mg/L	0.00001	134.45%
Cr 267.716†	12.3	0.0001 mg/L		0.00009	0.0001 mg/L	0.00009	78.88%
Fe 273.955†	3.0	0.0002 mg/L		0.00024	0.0002 mg/L	0.00024	121.06%
Mg 279.077†	-13.7	-0.0010 mg/L		0.00026	-0.0010 mg/L	0.00026	25.14%
V 292.402†	11.5	0.0000 mg/L		0.00006	0.0000 mg/L	0.00006	165.37%
Al 308.215†	52.6	0.0016 mg/L		0.00065	0.0016 mg/L	0.00065	40.09%
Be 313.107†	42.1	0.0000 mg/L		0.00001	0.0000 mg/L	0.00001	136.56%
Cu 324.752†	753.0	0.0022 mg/L		0.00013	0.0022 mg/L	0.00013	5.67%
Ag 338.289†	108.9	0.0006 mg/L		0.00008	0.0006 mg/L	0.00008	12.65%
Na 330.237†	6.3	0.0048 mg/L		0.01444	0.0048 mg/L	0.01444	297.90%
Ca 227.546†	5.0	0.0087 mg/L		0.01926	0.0087 mg/L	0.01926	220.45%
Al RADIAL†	-6.8	-0.0038 mg/L		0.00346	-0.0038 mg/L	0.00346	91.07%
Fe RADIAL†	-1.2	-0.0184 mg/L		0.02785	-0.0184 mg/L	0.02785	151.06%
Ca RADIAL†	9.8	0.0073 mg/L		0.00799	0.0073 mg/L	0.00799	108.80%
K RADIAL†	-13.9	-0.0107 mg/L		0.00774	-0.0107 mg/L	0.00774	72.06%
Mg RADIAL†	1.6	0.0179 mg/L		0.00790	0.0179 mg/L	0.00790	44.10%
Na RADIAL†	-402.0	-0.0304 mg/L		0.00359	-0.0304 mg/L	0.00359	11.80%

Sequence No.: 5

Sample ID: SEQ-CRL1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 4/1/2014 5:09:05 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CRL1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15954635.9	4.820 mg/L		0.0301			0.62%
Y RADIAL	176419.1	4.768 mg/L		0.0125			0.26%
As 188.979†	19.0	0.0075 mg/L		0.00148	0.0075 mg/L	0.00148	19.75%
Tl 190.801†	42.8	0.0115 mg/L		0.00128	0.0115 mg/L	0.00128	11.17%
Se 196.026†	14.5	0.0115 mg/L		0.00111	0.0115 mg/L	0.00111	9.65%
Zn 206.200†	264.9	0.0054 mg/L		0.00016	0.0054 mg/L	0.00016	3.01%
Sb 206.836†	50.5	0.0121 mg/L		0.00037	0.0121 mg/L	0.00037	3.05%
Pb 220.353†	35.3	0.0047 mg/L		0.00077	0.0047 mg/L	0.00077	16.56%
Cd 226.502†	606.0	0.0050 mg/L		0.00011	0.0050 mg/L	0.00011	2.13%
Co 228.616†	152.3	0.0054 mg/L		0.00017	0.0054 mg/L	0.00017	3.19%
Ni 232.003†	74.2	0.0039 mg/L		0.00028	0.0039 mg/L	0.00028	7.22%
Ba 233.527†	1191.2	0.0107 mg/L		0.00010	0.0107 mg/L	0.00010	0.90%
Mn 257.610†	3191.3	0.0053 mg/L		0.00005	0.0053 mg/L	0.00005	0.95%
Cr 267.716†	569.2	0.0054 mg/L		0.00002	0.0054 mg/L	0.00002	0.44%
Fe 273.955†	85.4	0.0056 mg/L		0.00026	0.0056 mg/L	0.00026	4.61%
Mg 279.077†	-0.6	0.0000 mg/L		0.00046	0.0000 mg/L	0.00046	>999.9%
V 292.402†	1553.3	0.0052 mg/L		0.00013	0.0052 mg/L	0.00013	2.60%
Al 308.215†	587.5	0.0182 mg/L		0.00400	0.0182 mg/L	0.00400	22.03%
Be 313.107†	19450.3	0.0050 mg/L		0.00003	0.0050 mg/L	0.00003	0.61%
Cu 324.752†	2078.3	0.0061 mg/L		0.00028	0.0061 mg/L	0.00028	4.60%
Ag 338.289†	952.1	0.0054 mg/L		0.00022	0.0054 mg/L	0.00022	4.07%
Na 330.237†	0.8	0.0006 mg/L		0.01465	0.0006 mg/L	0.01465	>999.9%
Ca 227.546†	-14.2	-0.0249 mg/L		0.01637	-0.0249 mg/L	0.01637	65.68%
Al RADIAL†	26.4	0.0148 mg/L		0.00171	0.0148 mg/L	0.00171	11.56%
Fe RADIAL†	0.5	0.0072 mg/L		0.01466	0.0072 mg/L	0.01466	203.18%
Ca RADIAL†	-4.8	-0.0036 mg/L		0.00505	-0.0036 mg/L	0.00505	141.66%
K RADIAL†	0.7	0.0005 mg/L		0.01206	0.0005 mg/L	0.01206	>999.9%
Mg RADIAL†	0.5	0.0059 mg/L		0.02326	0.0059 mg/L	0.02326	392.80%

Na RADIAL† -358.6 -0.0271 mg/L 0.00458 -0.0271 mg/L 0.00458 16.88%

Sequence No.: 6

Sample ID: SEQ-IFA1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 4/1/2014 5:13:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	13568326.5	4.099 mg/L		0.0150			0.37%
Y RADIAL	170073.3	4.597 mg/L		0.0352			0.77%
As 188.979†	-55.9	0.0034 mg/L		0.00398	0.0034 mg/L	0.00398	117.00%
Tl 190.801†	-77.8	-0.0012 mg/L		0.00120	-0.0012 mg/L	0.00120	96.72%
Se 196.026†	-234.0	-0.0645 mg/L		0.00846	-0.0645 mg/L	0.00846	13.12%
Zn 206.200†	716.0	-0.0042 mg/L		0.00096	-0.0042 mg/L	0.00096	22.86%
Sb 206.836†	11.1	-0.0053 mg/L		0.00628	-0.0053 mg/L	0.00628	118.88%
Pb 220.353†	-531.6	-0.0365 mg/L		0.00195	-0.0365 mg/L	0.00195	5.34%
Cd 226.502†	5024.9	0.0089 mg/L		0.00021	0.0089 mg/L	0.00021	2.31%
Co 228.616†	-86.7	-0.0031 mg/L		0.00081	-0.0031 mg/L	0.00081	26.16%
Ni 232.003†	132.7	0.0351 mg/L		0.00340	0.0351 mg/L	0.00340	9.69%
Ba 233.527†	321.0	0.0029 mg/L		0.00007	0.0029 mg/L	0.00007	2.51%
Mn 257.610†	-5293.1	-0.0085 mg/L		0.00025	-0.0085 mg/L	0.00025	2.97%
Cr 267.716†	-916.1	-0.0087 mg/L		0.00039	-0.0087 mg/L	0.00039	4.44%
Fe 273.955†	2627734.1	172.4 mg/L		1.03	172.4 mg/L	1.03	0.60%
Mg 279.077†	6437907.8	488.1 mg/L		0.52	488.1 mg/L	0.52	0.11%
V 292.402†	7363.5	0.0105 mg/L		0.00036	0.0105 mg/L	0.00036	3.40%
Al 308.215†	17157973.2	530.9 mg/L		0.18	530.9 mg/L	0.18	0.03%
Be 313.107†	-1161.1	-0.0003 mg/L		0.00000	-0.0003 mg/L	0.00000	0.76%
Cu 324.752†	-2959.0	-0.0232 mg/L		0.00012	-0.0232 mg/L	0.00012	0.53%
Ag 338.289†	782.6	-0.0011 mg/L		0.00031	-0.0011 mg/L	0.00031	28.66%
Na 330.237†	-1458.1	0.6744 mg/L		0.03013	0.6744 mg/L	0.03013	4.47%
Ca 227.546†	298777.2	527.5 mg/L		4.81	527.5 mg/L	4.81	0.91%
Al RADIAL†	913972.4	511.2 mg/L		2.12	511.2 mg/L	2.12	0.41%
Fe RADIAL†	11502.3	179.7 mg/L		0.64	179.7 mg/L	0.64	0.36%
Ca RADIAL†	634106.2	475.5 mg/L		1.36	475.5 mg/L	1.36	0.29%
K RADIAL†	-41.1	-0.0316 mg/L		0.01957	-0.0316 mg/L	0.01957	61.86%
Mg RADIAL†	45374.7	496.0 mg/L		2.59	496.0 mg/L	2.59	0.52%
Na RADIAL†	5594.5	0.4233 mg/L		0.01401	0.4233 mg/L	0.01401	3.31%

Sequence No.: 7

Sample ID: SEQ-IFB1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2014 5:21:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	13568973.3	4.099 mg/L		0.0347			0.85%
Y RADIAL	165996.5	4.486 mg/L		0.0347			0.77%
As 188.979†	1359.4	0.5597 mg/L		0.00959	0.5597 mg/L	0.00959	1.71%
Tl 190.801†	1671.4	0.4688 mg/L		0.00454	0.4688 mg/L	0.00454	0.97%
Se 196.026†	459.1	0.4876 mg/L		0.00591	0.4876 mg/L	0.00591	1.21%
Zn 206.200†	45633.9	0.9092 mg/L		0.00361	0.9092 mg/L	0.00361	0.40%
Sb 206.836†	2327.0	0.5485 mg/L		0.00507	0.5485 mg/L	0.00507	0.92%
Pb 220.353†	6593.4	0.9060 mg/L		0.01011	0.9060 mg/L	0.01011	1.12%
Cd 226.502†	117754.8	0.9375 mg/L		0.00792	0.9375 mg/L	0.00792	0.84%
Co 228.616†	13213.8	0.4695 mg/L		0.00371	0.4695 mg/L	0.00371	0.79%
Ni 232.003†	20167.2	1.081 mg/L		0.0048	1.081 mg/L	0.0048	0.45%
Ba 233.527†	57393.9	0.5153 mg/L		0.00468	0.5153 mg/L	0.00468	0.91%
Mn 257.610†	287827.5	0.4787 mg/L		0.00378	0.4787 mg/L	0.00378	0.79%
Cr 267.716†	49954.8	0.4767 mg/L		0.00353	0.4767 mg/L	0.00353	0.74%
Fe 273.955†	2673742.9	175.4 mg/L		1.02	175.4 mg/L	1.02	0.58%
Mg 279.077†	6516893.9	494.1 mg/L		0.54	494.1 mg/L	0.54	0.11%
V 292.402†	152335.8	0.4913 mg/L		0.00302	0.4913 mg/L	0.00302	0.61%
Al 308.215†	17383439.0	537.9 mg/L		0.94	537.9 mg/L	0.94	0.17%

Be 313.107†	1926889.9	0.4949 mg/L	0.00349	0.4949 mg/L	0.00349	0.70%
Cu 324.752†	181664.1	0.5216 mg/L	0.00525	0.5216 mg/L	0.00525	1.01%
Ag 338.289†	197182.5	1.117 mg/L	0.0105	1.117 mg/L	0.0105	0.94%
Na 330.237†	-495.1	1.449 mg/L	0.0441	1.449 mg/L	0.0441	3.04%
Ca 227.546†	304662.8	537.9 mg/L	5.42	537.9 mg/L	5.42	1.01%
Al RADIAL†	930773.1	520.6 mg/L	1.19	520.6 mg/L	1.19	0.23%
Fe RADIAL†	11905.8	186.1 mg/L	3.91	186.1 mg/L	3.91	2.10%
Ca RADIAL†	641611.1	481.1 mg/L	1.17	481.1 mg/L	1.17	0.24%
K RADIAL†	-42.0	-0.0324 mg/L	0.02195	-0.0324 mg/L	0.02195	67.83%
Mg RADIAL†	46865.0	512.3 mg/L	9.82	512.3 mg/L	9.82	1.92%
Na RADIAL†	4988.1	0.3775 mg/L	0.00523	0.3775 mg/L	0.00523	1.38%

Sequence No.: 8

Sample ID: SEQ-CCV1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 4/1/2014 5:28:56 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15914895.9	4.808 mg/L		0.0484			1.01%
Y RADIAL	180592.2	4.881 mg/L		0.0253			0.52%
As 188.979†	616.1	0.2427 mg/L		0.00429	0.2427 mg/L	0.00429	1.77%
Tl 190.801†	957.0	0.2575 mg/L		0.00236	0.2575 mg/L	0.00236	0.92%
Se 196.026†	311.7	0.2509 mg/L		0.00520	0.2509 mg/L	0.00520	2.07%
Zn 206.200†	127514.2	2.593 mg/L		0.0362	2.593 mg/L	0.0362	1.39%
Sb 206.836†	1081.3	0.2584 mg/L		0.00132	0.2584 mg/L	0.00132	0.51%
Pb 220.353†	1926.3	0.2552 mg/L		0.00298	0.2552 mg/L	0.00298	1.17%
Cd 226.502†	15552.0	0.1272 mg/L		0.00196	0.1272 mg/L	0.00196	1.54%
Co 228.616†	72226.6	2.566 mg/L		0.0343	2.566 mg/L	0.0343	1.34%
Ni 232.003†	48026.8	2.506 mg/L		0.0348	2.506 mg/L	0.0348	1.39%
Ba 233.527†	1148286.9	10.31 mg/L		0.111	10.31 mg/L	0.111	1.08%
Mn 257.610†	1529677.5	2.542 mg/L		0.0267	2.542 mg/L	0.0267	1.05%
Cr 267.716†	108556.9	1.036 mg/L		0.0136	1.036 mg/L	0.0136	1.31%
Fe 273.955†	78831.0	5.172 mg/L		0.0835	5.172 mg/L	0.0835	1.61%
Mg 279.077†	331580.2	25.14 mg/L		0.278	25.14 mg/L	0.278	1.10%
V 292.402†	750773.2	2.491 mg/L		0.0206	2.491 mg/L	0.0206	0.83%
Al 308.215†	309264.8	9.570 mg/L		0.0829	9.570 mg/L	0.0829	0.87%
Be 313.107†	974849.8	0.2504 mg/L		0.00246	0.2504 mg/L	0.00246	0.98%
Cu 324.752†	416255.2	1.228 mg/L		0.0131	1.228 mg/L	0.0131	1.07%
Ag 338.289†	216024.7	1.230 mg/L		0.0125	1.230 mg/L	0.0125	1.02%
Na 330.237†	30010.3	23.17 mg/L		0.376	23.17 mg/L	0.376	1.62%
Ca 227.546†	13443.7	23.72 mg/L		0.434	23.72 mg/L	0.434	1.83%
Al RADIAL†	17667.4	9.883 mg/L		0.0114	9.883 mg/L	0.0114	0.12%
Fe RADIAL†	328.4	5.132 mg/L		0.0507	5.132 mg/L	0.0507	0.99%
Ca RADIAL†	33130.6	24.84 mg/L		0.038	24.84 mg/L	0.038	0.15%
K RADIAL†	6380.0	4.916 mg/L		0.0197	4.916 mg/L	0.0197	0.40%
Mg RADIAL†	2342.1	25.60 mg/L		0.176	25.60 mg/L	0.176	0.69%
Na RADIAL†	345226.9	26.12 mg/L		0.042	26.12 mg/L	0.042	0.16%

Sequence No.: 9

Sample ID: SEQ-CCB1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 4/1/2014 5:36:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16559252.8	5.003 mg/L		0.0084			0.17%
Y RADIAL	182202.3	4.924 mg/L		0.0457			0.93%
As 188.979†	-8.1	-0.0032 mg/L		0.00054	-0.0032 mg/L	0.00054	16.95%
Tl 190.801†	2.4	0.0006 mg/L		0.00040	0.0006 mg/L	0.00040	61.90%
Se 196.026†	1.0	0.0008 mg/L		0.00606	0.0008 mg/L	0.00606	745.90%
Zn 206.200†	-8.4	-0.0002 mg/L		0.00020	-0.0002 mg/L	0.00020	117.53%
Sb 206.836†	0.1	0.0000 mg/L		0.00150	0.0000 mg/L	0.00150	>999.9%
Pb 220.353†	-3.2	-0.0004 mg/L		0.00015	-0.0004 mg/L	0.00015	35.57%

Cd 226.502†	-7.0	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008	136.99%
Co 228.616†	-0.0	0.0000 mg/L	0.00018	0.0000 mg/L	0.00018	>999.9%
Ni 232.003†	0.1	0.0000 mg/L	0.00061	0.0000 mg/L	0.00061	>999.9%
Ba 233.527†	-7.8	-0.0001 mg/L	0.00007	-0.0001 mg/L	0.00007	104.01%
Mn 257.610†	-12.7	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	12.51%
Cr 267.716†	13.0	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	68.54%
Fe 273.955†	7.3	0.0005 mg/L	0.00062	0.0005 mg/L	0.00062	128.15%
Mg 279.077†	1.1	0.0001 mg/L	0.00028	0.0001 mg/L	0.00028	343.34%
V 292.402†	3.2	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	163.78%
Al 308.215†	14.9	0.0005 mg/L	0.00260	0.0005 mg/L	0.00260	564.08%
Be 313.107†	117.6	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	86.78%
Cu 324.752†	170.2	0.0005 mg/L	0.00014	0.0005 mg/L	0.00014	27.78%
Ag 338.289†	44.2	0.0003 mg/L	0.00027	0.0003 mg/L	0.00027	105.24%
Na 330.237†	-39.2	-0.0302 mg/L	0.00554	-0.0302 mg/L	0.00554	18.36%
Ca 227.546†	-0.0	0.0000 mg/L	0.01673	0.0000 mg/L	0.01673	>999.9%
Al RADIAL†	-3.3	-0.0018 mg/L	0.00101	-0.0018 mg/L	0.00101	55.41%
Fe RADIAL†	-1.0	-0.0159 mg/L	0.00689	-0.0159 mg/L	0.00689	43.20%
Ca RADIAL†	5.2	0.0039 mg/L	0.00715	0.0039 mg/L	0.00715	183.38%
K RADIAL†	-14.2	-0.0109 mg/L	0.00324	-0.0109 mg/L	0.00324	29.66%
Mg RADIAL†	0.8	0.0092 mg/L	0.01436	0.0092 mg/L	0.01436	156.59%
Na RADIAL†	-1427.4	-0.1080 mg/L	0.00460	-0.1080 mg/L	0.00460	4.26%

Sequence No.: 10

Sample ID: BD40037-BLK1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 4/1/2014 5:41:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40037-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16665134.6	5.035	mg/L	0.0114			0.23%
Y RADIAL	184536.8	4.988	mg/L	0.0606			1.21%
As 188.979†	-6.2	-0.0025	mg/L	0.00230	-0.0025 mg/L	0.00230	93.69%
Tl 190.801†	-2.6	-0.0007	mg/L	0.00029	-0.0007 mg/L	0.00029	42.02%
Se 196.026†	5.3	0.0042	mg/L	0.00108	0.0042 mg/L	0.00108	25.71%
Zn 206.200†	-3.7	-0.0001	mg/L	0.00003	-0.0001 mg/L	0.00003	35.05%
Sb 206.836†	0.6	0.0002	mg/L	0.00116	0.0002 mg/L	0.00116	751.56%
Pb 220.353†	6.2	0.0008	mg/L	0.00035	0.0008 mg/L	0.00035	42.63%
Cd 226.502†	4.4	0.0000	mg/L	0.00003	0.0000 mg/L	0.00003	70.16%
Co 228.616†	1.6	0.0001	mg/L	0.00026	0.0001 mg/L	0.00026	438.65%
Ni 232.003†	-5.8	-0.0003	mg/L	0.00056	-0.0003 mg/L	0.00056	187.63%
Ba 233.527†	-9.4	-0.0001	mg/L	0.00004	-0.0001 mg/L	0.00004	45.88%
Mn 257.610†	-12.1	0.0000	mg/L	0.00001	0.0000 mg/L	0.00001	65.11%
Cr 267.716†	-5.9	-0.0001	mg/L	0.00009	-0.0001 mg/L	0.00009	152.63%
Fe 273.955†	6.6	0.0004	mg/L	0.00074	0.0004 mg/L	0.00074	171.50%
Mg 279.077†	1.9	0.0001	mg/L	0.00137	0.0001 mg/L	0.00137	928.59%
V 292.402†	8.7	0.0000	mg/L	0.00004	0.0000 mg/L	0.00004	146.81%
Al 308.215†	86.3	0.0027	mg/L	0.00042	0.0027 mg/L	0.00042	15.72%
Be 313.107†	32.2	0.0000	mg/L	0.00001	0.0000 mg/L	0.00001	103.17%
Cu 324.752†	-206.4	-0.0006	mg/L	0.00010	-0.0006 mg/L	0.00010	16.07%
Ag 338.289†	-2.7	0.0000	mg/L	0.00039	0.0000 mg/L	0.00039	>999.9%
Na 330.237†	-55.7	-0.0429	mg/L	0.01333	-0.0429 mg/L	0.01333	31.10%
Ca 227.546†	11.7	0.0205	mg/L	0.01705	0.0205 mg/L	0.01705	82.95%
Al RADIAL†	-2.1	-0.0012	mg/L	0.00234	-0.0012 mg/L	0.00234	197.23%
Fe RADIAL†	-2.2	-0.0347	mg/L	0.00686	-0.0347 mg/L	0.00686	19.77%
Ca RADIAL†	4.2	0.0031	mg/L	0.00742	0.0031 mg/L	0.00742	236.05%
K RADIAL†	-11.2	-0.0086	mg/L	0.00826	-0.0086 mg/L	0.00826	95.93%
Mg RADIAL†	-1.8	-0.0196	mg/L	0.00625	-0.0196 mg/L	0.00625	31.83%
Na RADIAL†	-1234.5	-0.0934	mg/L	0.00403	-0.0934 mg/L	0.00403	4.31%

Sequence No.: 11

Sample ID: BD40037-SRM1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 4/1/2014 5:46:35 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40037-SRM1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	17111003.4	5.169	mg/L	0.0199				0.39%
Y RADIAL	192896.2	5.213	mg/L	0.0085				0.16%
As 188.979†	804.6	0.3162	mg/L	0.00096	0.3162	mg/L	0.00096	0.30%
Tl 190.801†	1322.2	0.3552	mg/L	0.00259	0.3552	mg/L	0.00259	0.73%
Se 196.026†	425.0	0.3382	mg/L	0.00370	0.3382	mg/L	0.00370	1.09%
Zn 206.200†	82543.0	1.679	mg/L	0.0032	1.679	mg/L	0.0032	0.19%
Sb 206.836†	1805.4	0.4317	mg/L	0.00288	0.4317	mg/L	0.00288	0.67%
Pb 220.353†	3946.2	0.5216	mg/L	0.00279	0.5216	mg/L	0.00279	0.54%
Cd 226.502†	9946.7	0.0817	mg/L	0.00072	0.0817	mg/L	0.00072	0.88%
Co 228.616†	10125.7	0.3597	mg/L	0.00042	0.3597	mg/L	0.00042	0.12%
Ni 232.003†	27722.3	1.446	mg/L	0.0071	1.446	mg/L	0.0071	0.49%
Ba 233.527†	134992.2	1.212	mg/L	0.0021	1.212	mg/L	0.0021	0.17%
Mn 257.610†	1062272.7	1.765	mg/L	0.0085	1.765	mg/L	0.0085	0.48%
Cr 267.716†	67325.2	0.6424	mg/L	0.00308	0.6424	mg/L	0.00308	0.48%
Fe 273.955†	22937.7	1.505	mg/L	0.0041	1.505	mg/L	0.0041	0.27%
Mg 279.077†	-165.8	-0.0125	mg/L	0.00098	-0.0125	mg/L	0.00098	7.84%
V 292.402†	433434.0	1.438	mg/L	0.0107	1.438	mg/L	0.0107	0.75%
Al 308.215†	13510.4	0.4182	mg/L	0.00540	0.4182	mg/L	0.00540	1.29%
Be 313.107†	278574.1	0.0716	mg/L	0.00032	0.0716	mg/L	0.00032	0.45%
Cu 324.752†	171498.8	0.5064	mg/L	0.00441	0.5064	mg/L	0.00441	0.87%
Ag 338.289†	34517.5	0.1966	mg/L	0.00031	0.1966	mg/L	0.00031	0.16%
Na 330.237†	1479.6	1.147	mg/L	0.0430	1.147	mg/L	0.0430	3.75%
Ca 227.546†	42.9	0.0829	mg/L	0.01765	0.0829	mg/L	0.01765	21.30%
Al RADIAL†	803.2	0.4493	mg/L	0.00111	0.4493	mg/L	0.00111	0.25%
Fe RADIAL†	93.5	1.460	mg/L	0.0472	1.460	mg/L	0.0472	3.23%
Ca RADIAL†	-10.5	-0.0079	mg/L	0.00605	-0.0079	mg/L	0.00605	76.56%
K RADIAL†	-0.3	-0.0002	mg/L	0.00666	-0.0002	mg/L	0.00666	>999.9%
Mg RADIAL†	0.4	0.0040	mg/L	0.03992	0.0040	mg/L	0.03992	>999.9%
Na RADIAL†	-768.9	-0.0582	mg/L	0.00563	-0.0582	mg/L	0.00563	9.68%

Sequence No.: 12

Sample ID: BD40037-SRM2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 4/1/2014 5:54:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40037-SRM2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14757677.6	4.458	mg/L	0.0057				0.13%
Y RADIAL	177767.0	4.805	mg/L	0.0150				0.31%
As 188.979†	-13.2	-0.0052	mg/L	0.00054	-0.0052	mg/L	0.00054	10.52%
Tl 190.801†	-6.9	-0.0019	mg/L	0.00045	-0.0019	mg/L	0.00045	24.16%
Se 196.026†	5.0	0.0040	mg/L	0.00503	0.0040	mg/L	0.00503	126.64%
Zn 206.200†	132.9	0.0027	mg/L	0.00010	0.0027	mg/L	0.00010	3.57%
Sb 206.836†	-1.4	-0.0003	mg/L	0.00059	-0.0003	mg/L	0.00059	174.88%
Pb 220.353†	-14.6	-0.0012	mg/L	0.00196	-0.0012	mg/L	0.00196	164.23%
Cd 226.502†	-39.1	-0.0003	mg/L	0.00010	-0.0003	mg/L	0.00010	30.26%
Co 228.616†	-1.0	0.0000	mg/L	0.00019	0.0000	mg/L	0.00019	568.97%
Ni 232.003†	-66.5	-0.0035	mg/L	0.00048	-0.0035	mg/L	0.00048	13.87%
Ba 233.527†	19.3	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	40.25%
Mn 257.610†	280.7	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	22.19%
Cr 267.716†	-27.6	-0.0003	mg/L	0.00010	-0.0003	mg/L	0.00010	36.60%
Fe 273.955†	4.3	0.0003	mg/L	0.00072	0.0003	mg/L	0.00072	255.43%
Mg 279.077†	395082.2	29.95	mg/L	0.390	29.95	mg/L	0.390	1.30%
V 292.402†	28.6	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	90.37%
Al 308.215†	2150.8	0.0652	mg/L	0.00211	0.0652	mg/L	0.00211	3.23%
Be 313.107†	-476.2	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	8.41%
Cu 324.752†	343.0	-0.0006	mg/L	0.00008	-0.0006	mg/L	0.00008	14.50%
Ag 338.289†	231.2	0.0007	mg/L	0.00026	0.0007	mg/L	0.00026	38.25%
Na 330.237†	110365.0	85.07	mg/L	1.298	85.07	mg/L	1.298	1.53%
Ca 227.546†	34823.8	61.35	mg/L	0.990	61.35	mg/L	0.990	1.61%
Al RADIAL†	70.9	0.0396	mg/L	0.00501	0.0396	mg/L	0.00501	12.64%
Fe RADIAL†	0.1	0.0016	mg/L	0.05189	0.0016	mg/L	0.05189	>999.9%
Ca RADIAL†	84034.3	63.01	mg/L	0.191	63.01	mg/L	0.191	0.30%
K RADIAL†	43662.1	33.64	mg/L	0.101	33.64	mg/L	0.101	0.30%
Mg RADIAL†	2632.9	28.78	mg/L	0.044	28.78	mg/L	0.044	0.15%
Na RADIAL†	1142522.7	86.46	mg/L	0.565	86.46	mg/L	0.565	0.65%

Sequence No.: 13
 Sample ID: 14C0941-01
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 12
 Date Collected: 4/1/2014 5:59:31 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 14C0941-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	11734771.8	3.545	mg/L	0.0217				0.61%
Y RADIAL	159844.3	4.320	mg/L	0.0556				1.29%
As 188.979†	-16.8	-0.0066	mg/L	0.00466	-0.0066	mg/L	0.00466	70.80%
Tl 190.801†	-21.3	-0.0057	mg/L	0.00180	-0.0057	mg/L	0.00180	31.60%
Se 196.026†	18.3	0.0145	mg/L	0.00417	0.0145	mg/L	0.00417	28.65%
Zn 206.200†	1341.6	0.0273	mg/L	0.00085	0.0273	mg/L	0.00085	3.12%
Sb 206.836†	9.4	0.0022	mg/L	0.00093	0.0022	mg/L	0.00093	41.75%
Pb 220.353†	-73.8	-0.0006	mg/L	0.00080	-0.0006	mg/L	0.00080	131.13%
Cd 226.502†	23.0	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	61.31%
Co 228.616†	814.9	0.0289	mg/L	0.00023	0.0289	mg/L	0.00023	0.80%
Ni 232.003†	-1.7	-0.0001	mg/L	0.00055	-0.0001	mg/L	0.00055	665.36%
Ba 233.527†	33504.8	0.3008	mg/L	0.00469	0.3008	mg/L	0.00469	1.56%
Mn 257.610†	5632035.8	9.353	mg/L	0.1057	9.353	mg/L	0.1057	1.13%
Cr 267.716†	-89.5	-0.0009	mg/L	0.00058	-0.0009	mg/L	0.00058	68.23%
Fe 273.955†	633.8	0.0416	mg/L	0.00649	0.0416	mg/L	0.00649	15.60%
Mg 279.077†	4232302.8	320.9	mg/L	3.55	320.9	mg/L	3.55	1.11%
V 292.402†	-473.1	-0.0016	mg/L	0.00014	-0.0016	mg/L	0.00014	8.85%
Al 308.215†	3049.8	0.0782	mg/L	0.00404	0.0782	mg/L	0.00404	5.17%
Be 313.107†	-1548.1	-0.0004	mg/L	0.00002	-0.0004	mg/L	0.00002	4.74%
Cu 324.752†	7363.6	0.0023	mg/L	0.00037	0.0023	mg/L	0.00037	16.04%
Ag 338.289†	1513.4	0.0004	mg/L	0.00050	0.0004	mg/L	0.00050	116.19%
Na 330.237†	6592248.3	5076	mg/L	11.9	5076	mg/L	11.9	0.23%
Ca 227.546†	441672.7	778.1	mg/L	10.50	778.1	mg/L	10.50	1.35%
Al RADIAL†	41.7	0.0233	mg/L	0.01045	0.0233	mg/L	0.01045	44.76%
Fe RADIAL†	-0.9	-0.0139	mg/L	0.06552	-0.0139	mg/L	0.06552	470.53%
Ca RADIAL†	812913.7	609.6	mg/L	2.69	609.6	mg/L	2.69	0.44%
K RADIAL†	119038.5	91.72	mg/L	0.311	91.72	mg/L	0.311	0.34%
Mg RADIAL†	29712.5	324.8	mg/L	1.40	324.8	mg/L	1.40	0.43%
Na RADIAL†	12724401.1	962.9	mg/L	16.55	962.9	mg/L	16.55	1.72%

Sequence No.: 14
 Sample ID: 14C0941-02
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 13
 Date Collected: 4/1/2014 6:04:39 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 14C0941-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	11289587.7	3.411	mg/L	0.0157				0.46%
Y RADIAL	157445.2	4.255	mg/L	0.0316				0.74%
As 188.979†	-12.1	-0.0047	mg/L	0.00246	-0.0047	mg/L	0.00246	51.82%
Tl 190.801†	-17.2	-0.0046	mg/L	0.00258	-0.0046	mg/L	0.00258	55.77%
Se 196.026†	17.6	0.0140	mg/L	0.00752	0.0140	mg/L	0.00752	53.92%
Zn 206.200†	2441.8	0.0497	mg/L	0.00047	0.0497	mg/L	0.00047	0.95%
Sb 206.836†	18.5	0.0044	mg/L	0.00197	0.0044	mg/L	0.00197	44.61%
Pb 220.353†	-62.5	-0.0020	mg/L	0.00180	-0.0020	mg/L	0.00180	90.37%
Cd 226.502†	-53.5	-0.0004	mg/L	0.00002	-0.0004	mg/L	0.00002	5.36%
Co 228.616†	365.5	0.0130	mg/L	0.00047	0.0130	mg/L	0.00047	3.65%
Ni 232.003†	421.3	0.0220	mg/L	0.00122	0.0220	mg/L	0.00122	5.55%
Ba 233.527†	22104.6	0.1984	mg/L	0.00089	0.1984	mg/L	0.00089	0.45%
Mn 257.610†	5063720.8	8.406	mg/L	0.0003	8.406	mg/L	0.0003	0.00%
Cr 267.716†	-176.0	-0.0017	mg/L	0.00005	-0.0017	mg/L	0.00005	2.86%
Fe 273.955†	97.2	0.0064	mg/L	0.00621	0.0064	mg/L	0.00621	97.38%
Mg 279.077†	6552681.8	496.8	mg/L	0.21	496.8	mg/L	0.21	0.04%
V 292.402†	-417.7	-0.0014	mg/L	0.00010	-0.0014	mg/L	0.00010	6.88%
Al 308.215†	3281.8	0.0841	mg/L	0.00796	0.0841	mg/L	0.00796	9.46%
Be 313.107†	-1004.0	-0.0003	mg/L	0.00003	-0.0003	mg/L	0.00003	10.37%

Cu 324.752†	101711.0	0.2833 mg/L	0.00172	0.2833 mg/L	0.00172	0.61%
Ag 338.289†	1019.1	0.0002 mg/L	0.00047	0.0002 mg/L	0.00047	244.49%
Na 330.237†	9129979.8	7029 mg/L	15.4	7029 mg/L	15.4	0.22%
Ca 227.546†	302500.8	533.0 mg/L	4.54	533.0 mg/L	4.54	0.85%
Al RADIAL†	34.2	0.0191 mg/L	0.00440	0.0191 mg/L	0.00440	23.01%
Fe RADIAL†	1.0	0.0150 mg/L	0.01683	0.0150 mg/L	0.01683	112.30%
Ca RADIAL†	525055.3	393.7 mg/L	0.73	393.7 mg/L	0.73	0.19%
K RADIAL†	292806.4	225.6 mg/L	1.44	225.6 mg/L	1.44	0.64%
Mg RADIAL†	46635.5	509.7 mg/L	0.98	509.7 mg/L	0.98	0.19%
Na RADIAL†	12705405.1	961.4 mg/L	12.78	961.4 mg/L	12.78	1.33%

Sequence No.: 15

Sample ID: 14C0968-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 14

Date Collected: 4/1/2014 6:09:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0968-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15510387.9	4.686 mg/L		0.0253				0.54%
Y RADIAL	192049.9	5.191 mg/L		0.0186				0.36%
As 188.979†	-27.7	-0.0096 mg/L		0.00337	-0.0096 mg/L		0.00337	34.92%
Tl 190.801†	-11.6	-0.0024 mg/L		0.00120	-0.0024 mg/L		0.00120	49.09%
Se 196.026†	26.5	0.0269 mg/L		0.00372	0.0269 mg/L		0.00372	13.84%
Zn 206.200†	222.2	0.0041 mg/L		0.00015	0.0041 mg/L		0.00015	3.73%
Sb 206.836†	-12.8	-0.0031 mg/L		0.00060	-0.0031 mg/L		0.00060	19.46%
Pb 220.353†	0.6	0.0008 mg/L		0.00122	0.0008 mg/L		0.00122	146.74%
Cd 226.502†	213.7	0.0002 mg/L		0.00007	0.0002 mg/L		0.00007	36.86%
Co 228.616†	172.8	0.0061 mg/L		0.00020	0.0061 mg/L		0.00020	3.20%
Ni 232.003†	34.0	0.0031 mg/L		0.00073	0.0031 mg/L		0.00073	23.29%
Ba 233.527†	18447.1	0.1656 mg/L		0.00174	0.1656 mg/L		0.00174	1.05%
Mn 257.610†	2860689.4	4.754 mg/L		0.0133	4.754 mg/L		0.0133	0.28%
Cr 267.716†	41.8	0.0004 mg/L		0.00016	0.0004 mg/L		0.00016	39.57%
Fe 273.955†	127008.7	8.333 mg/L		0.0832	8.333 mg/L		0.0832	1.00%
Mg 279.077†	241561.7	18.31 mg/L		0.044	18.31 mg/L		0.044	0.24%
V 292.402†	177.4	-0.0001 mg/L		0.00008	-0.0001 mg/L		0.00008	89.78%
Al 308.215†	1254.3	0.0373 mg/L		0.00642	0.0373 mg/L		0.00642	17.21%
Be 313.107†	-599.5	-0.0002 mg/L		0.00002	-0.0002 mg/L		0.00002	13.71%
Cu 324.752†	47.7	-0.0027 mg/L		0.00011	-0.0027 mg/L		0.00011	3.91%
Ag 338.289†	201.5	-0.0005 mg/L		0.00031	-0.0005 mg/L		0.00031	62.81%
Na 330.237†	282788.6	218.0 mg/L		1.33	218.0 mg/L		1.33	0.61%
Ca 227.546†	88674.4	156.3 mg/L		2.30	156.3 mg/L		2.30	1.47%
Al RADIAL†	15.5	0.0087 mg/L		0.00504	0.0087 mg/L		0.00504	58.12%
Fe RADIAL†	512.5	8.009 mg/L		0.0445	8.009 mg/L		0.0445	0.56%
Ca RADIAL†	206880.3	155.1 mg/L		0.24	155.1 mg/L		0.24	0.15%
K RADIAL†	20515.6	15.81 mg/L		0.071	15.81 mg/L		0.071	0.45%
Mg RADIAL†	1723.9	18.84 mg/L		0.055	18.84 mg/L		0.055	0.29%
Na RADIAL†	2418058.0	183.0 mg/L		1.52	183.0 mg/L		1.52	0.83%

Sequence No.: 16

Sample ID: 14C0968-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 15

Date Collected: 4/1/2014 6:14:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0968-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14955387.7	4.518 mg/L		0.0336				0.74%
Y RADIAL	189806.4	5.130 mg/L		0.0353				0.69%
As 188.979†	-24.4	-0.0096 mg/L		0.00052	-0.0096 mg/L		0.00052	5.40%
Tl 190.801†	-15.4	-0.0041 mg/L		0.00046	-0.0041 mg/L		0.00046	11.22%
Se 196.026†	18.0	0.0143 mg/L		0.00138	0.0143 mg/L		0.00138	9.65%
Zn 206.200†	382.9	0.0078 mg/L		0.00014	0.0078 mg/L		0.00014	1.79%
Sb 206.836†	-11.5	-0.0027 mg/L		0.00103	-0.0027 mg/L		0.00103	37.58%
Pb 220.353†	-21.1	-0.0014 mg/L		0.00158	-0.0014 mg/L		0.00158	109.38%
Cd 226.502†	-0.1	0.0000 mg/L		0.00009	0.0000 mg/L		0.00009	>999.9%

Co 228.616†	20.6	0.0007 mg/L	0.00015	0.0007 mg/L	0.00015	20.15%
Ni 232.003†	-37.6	-0.0020 mg/L	0.00021	-0.0020 mg/L	0.00021	10.46%
Ba 233.527†	22426.7	0.2013 mg/L	0.00166	0.2013 mg/L	0.00166	0.83%
Mn 257.610†	3661547.7	6.084 mg/L	0.0948	6.084 mg/L	0.0948	1.56%
Cr 267.716†	123.6	0.0012 mg/L	0.00013	0.0012 mg/L	0.00013	11.11%
Fe 273.955†	204.9	0.0134 mg/L	0.00101	0.0134 mg/L	0.00101	7.51%
Mg 279.077†	223119.6	16.91 mg/L	0.288	16.91 mg/L	0.288	1.70%
V 292.402†	-181.9	-0.0006 mg/L	0.00007	-0.0006 mg/L	0.00007	11.81%
Al 308.215†	1474.3	0.0439 mg/L	0.00620	0.0439 mg/L	0.00620	14.12%
Be 313.107†	-755.4	-0.0002 mg/L	0.00004	-0.0002 mg/L	0.00004	20.31%
Cu 324.752†	279.6	-0.0016 mg/L	0.00017	-0.0016 mg/L	0.00017	10.52%
Ag 338.289†	222.3	0.0001 mg/L	0.00016	0.0001 mg/L	0.00016	247.45%
Na 330.237†	571994.6	440.5 mg/L	9.85	440.5 mg/L	9.85	2.24%
Ca 227.546†	64696.5	114.0 mg/L	1.15	114.0 mg/L	1.15	1.01%
Al RADIAL†	17.0	0.0095 mg/L	0.00176	0.0095 mg/L	0.00176	18.49%
Fe RADIAL†	0.6	0.0087 mg/L	0.01247	0.0087 mg/L	0.01247	143.62%
Ca RADIAL†	147999.5	111.0 mg/L	0.20	111.0 mg/L	0.20	0.18%
K RADIAL†	15118.1	11.65 mg/L	0.064	11.65 mg/L	0.064	0.55%
Mg RADIAL†	1554.4	16.99 mg/L	0.126	16.99 mg/L	0.126	0.74%
Na RADIAL†	4217409.0	319.1 mg/L	2.44	319.1 mg/L	2.44	0.76%

Sequence No.: 17

Sample ID: 14C0968-03

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 4/1/2014 6:19:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0968-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15621385.0	4.719 mg/L		0.0158			0.34%
Y RADIAL	190538.6	5.150 mg/L		0.0554			1.08%
As 188.979†	-22.7	-0.0088 mg/L		0.00022	-0.0088 mg/L	0.00022	2.51%
Tl 190.801†	-22.2	-0.0059 mg/L		0.00117	-0.0059 mg/L	0.00117	19.79%
Se 196.026†	39.6	0.0320 mg/L		0.00482	0.0320 mg/L	0.00482	15.08%
Zn 206.200†	247.3	0.0050 mg/L		0.00007	0.0050 mg/L	0.00007	1.48%
Sb 206.836†	-9.5	-0.0023 mg/L		0.00171	-0.0023 mg/L	0.00171	74.73%
Pb 220.353†	-23.4	-0.0014 mg/L		0.00102	-0.0014 mg/L	0.00102	72.65%
Cd 226.502†	6.2	-0.0001 mg/L		0.00015	-0.0001 mg/L	0.00015	133.70%
Co 228.616†	10.1	0.0004 mg/L		0.00026	0.0004 mg/L	0.00026	72.35%
Ni 232.003†	-31.1	-0.0015 mg/L		0.00054	-0.0015 mg/L	0.00054	36.32%
Ba 233.527†	14769.0	0.1326 mg/L		0.00151	0.1326 mg/L	0.00151	1.14%
Mn 257.610†	4294636.6	7.137 mg/L		0.0362	7.137 mg/L	0.0362	0.51%
Cr 267.716†	141.5	0.0014 mg/L		0.00017	0.0014 mg/L	0.00017	12.71%
Fe 273.955†	12874.5	0.8447 mg/L		0.00753	0.8447 mg/L	0.00753	0.89%
Mg 279.077†	246734.3	18.70 mg/L		0.103	18.70 mg/L	0.103	0.55%
V 292.402†	-217.5	-0.0008 mg/L		0.00019	-0.0008 mg/L	0.00019	23.71%
Al 308.215†	1252.7	0.0367 mg/L		0.00323	0.0367 mg/L	0.00323	8.81%
Be 313.107†	-600.7	-0.0002 mg/L		0.00001	-0.0002 mg/L	0.00001	7.34%
Cu 324.752†	-101.9	-0.0035 mg/L		0.00003	-0.0035 mg/L	0.00003	0.93%
Ag 338.289†	240.3	-0.0002 mg/L		0.00016	-0.0002 mg/L	0.00016	69.42%
Na 330.237†	149719.3	115.5 mg/L		0.58	115.5 mg/L	0.58	0.50%
Ca 227.546†	86335.6	152.1 mg/L		1.06	152.1 mg/L	1.06	0.70%
Al RADIAL†	23.7	0.0132 mg/L		0.00122	0.0132 mg/L	0.00122	9.19%
Fe RADIAL†	51.2	0.8004 mg/L		0.01646	0.8004 mg/L	0.01646	2.06%
Ca RADIAL†	201058.9	150.8 mg/L		2.21	150.8 mg/L	2.21	1.47%
K RADIAL†	33273.9	25.64 mg/L		0.128	25.64 mg/L	0.128	0.50%
Mg RADIAL†	1798.6	19.66 mg/L		0.129	19.66 mg/L	0.129	0.65%
Na RADIAL†	1472786.3	111.4 mg/L		1.22	111.4 mg/L	1.22	1.09%

Sequence No.: 18

Sample ID: 14C0980-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 17

Date Collected: 4/1/2014 6:24:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0980-01

Mean Corrected

Calib.

Sample

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	16950099.0	5.121 mg/L	0.0228			0.45%
Y RADIAL	189830.9	5.131 mg/L	0.0592			1.15%
As 188.979†	-5.6	-0.0022 mg/L	0.00200	-0.0022 mg/L	0.00200	91.48%
Tl 190.801†	2.1	0.0006 mg/L	0.00075	0.0006 mg/L	0.00075	134.70%
Se 196.026†	5.1	0.0040 mg/L	0.00208	0.0040 mg/L	0.00208	51.68%
Zn 206.200†	678.3	0.0138 mg/L	0.00013	0.0138 mg/L	0.00013	0.95%
Sb 206.836†	-4.2	-0.0010 mg/L	0.00083	-0.0010 mg/L	0.00083	81.49%
Pb 220.353†	3.6	0.0007 mg/L	0.00030	0.0007 mg/L	0.00030	44.14%
Cd 226.502†	18.7	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	29.00%
Co 228.616†	3.0	0.0001 mg/L	0.00032	0.0001 mg/L	0.00032	301.21%
Ni 232.003†	36.3	0.0019 mg/L	0.00044	0.0019 mg/L	0.00044	23.24%
Ba 233.527†	2472.1	0.0222 mg/L	0.00012	0.0222 mg/L	0.00012	0.54%
Mn 257.610†	427.7	0.0006 mg/L	0.00002	0.0006 mg/L	0.00002	2.47%
Cr 267.716†	18.1	0.0002 mg/L	0.00013	0.0002 mg/L	0.00013	75.19%
Fe 273.955†	28.3	0.0019 mg/L	0.00078	0.0019 mg/L	0.00078	41.81%
Mg 279.077†	43753.2	3.317 mg/L	0.0037	3.317 mg/L	0.0037	0.11%
V 292.402†	18.8	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	110.80%
Al 308.215†	630.9	0.0192 mg/L	0.00398	0.0192 mg/L	0.00398	20.67%
Be 313.107†	2.2	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	>999.9%
Cu 324.752†	22986.0	0.0675 mg/L	0.00004	0.0675 mg/L	0.00004	0.06%
Ag 338.289†	86.3	0.0003 mg/L	0.00035	0.0003 mg/L	0.00035	112.84%
Na 330.237†	10731.0	8.291 mg/L	0.0848	8.291 mg/L	0.0848	1.02%
Ca 227.546†	9948.8	17.53 mg/L	0.023	17.53 mg/L	0.023	0.13%
Al RADIAL†	33.5	0.0187 mg/L	0.00179	0.0187 mg/L	0.00179	9.53%
Fe RADIAL†	0.5	0.0075 mg/L	0.00665	0.0075 mg/L	0.00665	88.72%
Ca RADIAL†	24944.7	18.70 mg/L	0.038	18.70 mg/L	0.038	0.20%
K RADIAL†	1366.1	1.053 mg/L	0.0188	1.053 mg/L	0.0188	1.79%
Mg RADIAL†	292.6	3.198 mg/L	0.0266	3.198 mg/L	0.0266	0.83%
Na RADIAL†	148477.1	11.24 mg/L	0.053	11.24 mg/L	0.053	0.47%

Sequence No.: 19

Sample ID: 14C0980-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 18

Date Collected: 4/1/2014 6:29:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0980-02

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16530618.0	4.994 mg/L	0.0296			0.59%
Y RADIAL	186473.6	5.040 mg/L	0.0301			0.60%
As 188.979†	-13.7	-0.0054 mg/L	0.00071	-0.0054 mg/L	0.00071	13.21%
Tl 190.801†	6.4	0.0017 mg/L	0.00113	0.0017 mg/L	0.00113	65.45%
Se 196.026†	3.7	0.0030 mg/L	0.00291	0.0030 mg/L	0.00291	98.57%
Zn 206.200†	1053.9	0.0214 mg/L	0.00019	0.0214 mg/L	0.00019	0.89%
Sb 206.836†	-1.3	-0.0003 mg/L	0.00088	-0.0003 mg/L	0.00088	273.31%
Pb 220.353†	1.4	0.0004 mg/L	0.00047	0.0004 mg/L	0.00047	121.33%
Cd 226.502†	5.3	0.0000 mg/L	0.00011	0.0000 mg/L	0.00011	249.99%
Co 228.616†	-1.4	0.0000 mg/L	0.00019	0.0000 mg/L	0.00019	392.04%
Ni 232.003†	71.2	0.0037 mg/L	0.00023	0.0037 mg/L	0.00023	6.08%
Ba 233.527†	2291.4	0.0206 mg/L	0.00010	0.0206 mg/L	0.00010	0.50%
Mn 257.610†	450.1	0.0007 mg/L	0.00004	0.0007 mg/L	0.00004	6.16%
Cr 267.716†	215.2	0.0021 mg/L	0.00001	0.0021 mg/L	0.00001	0.66%
Fe 273.955†	56.6	0.0037 mg/L	0.00447	0.0037 mg/L	0.00447	120.28%
Mg 279.077†	48887.2	3.706 mg/L	0.0299	3.706 mg/L	0.0299	0.81%
V 292.402†	18.2	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	102.20%
Al 308.215†	584.9	0.0178 mg/L	0.00140	0.0178 mg/L	0.00140	7.83%
Be 313.107†	37.0	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	270.49%
Cu 324.752†	15908.2	0.0466 mg/L	0.00051	0.0466 mg/L	0.00051	1.10%
Ag 338.289†	49.4	0.0001 mg/L	0.00048	0.0001 mg/L	0.00048	455.41%
Na 330.237†	9952.0	7.690 mg/L	0.0923	7.690 mg/L	0.0923	1.20%
Ca 227.546†	9536.5	16.80 mg/L	0.178	16.80 mg/L	0.178	1.06%
Al RADIAL†	24.6	0.0137 mg/L	0.00130	0.0137 mg/L	0.00130	9.43%
Fe RADIAL†	-0.5	-0.0086 mg/L	0.00885	-0.0086 mg/L	0.00885	103.48%
Ca RADIAL†	24082.5	18.06 mg/L	0.082	18.06 mg/L	0.082	0.45%
K RADIAL†	1304.3	1.005 mg/L	0.0125	1.005 mg/L	0.0125	1.24%
Mg RADIAL†	323.8	3.539 mg/L	0.0691	3.539 mg/L	0.0691	1.95%
Na RADIAL†	139163.3	10.53 mg/L	0.034	10.53 mg/L	0.034	0.32%

Sequence No.: 20
 Sample ID: SEQ-CCV2
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 4/1/2014 6:34:35 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: SEQ-CCV2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15817878.7	4.779 mg/L		0.0312			0.65%
Y RADIAL	181149.7	4.896 mg/L		0.0243			0.50%
As 188.979†	632.9	0.2493 mg/L		0.00335	0.2493 mg/L	0.00335	1.34%
Tl 190.801†	968.4	0.2606 mg/L		0.00283	0.2606 mg/L	0.00283	1.09%
Se 196.026†	313.2	0.2521 mg/L		0.00411	0.2521 mg/L	0.00411	1.63%
Zn 206.200†	128967.2	2.623 mg/L		0.0136	2.623 mg/L	0.0136	0.52%
Sb 206.836†	1093.2	0.2613 mg/L		0.00267	0.2613 mg/L	0.00267	1.02%
Pb 220.353†	1947.8	0.2580 mg/L		0.00153	0.2580 mg/L	0.00153	0.59%
Cd 226.502†	15639.3	0.1279 mg/L		0.00029	0.1279 mg/L	0.00029	0.23%
Co 228.616†	72170.1	2.564 mg/L		0.0151	2.564 mg/L	0.0151	0.59%
Ni 232.003†	48232.2	2.517 mg/L		0.0161	2.517 mg/L	0.0161	0.64%
Ba 233.527†	1156456.6	10.38 mg/L		0.062	10.38 mg/L	0.062	0.60%
Mn 257.610†	1541167.5	2.561 mg/L		0.0149	2.561 mg/L	0.0149	0.58%
Cr 267.716†	109135.8	1.041 mg/L		0.0040	1.041 mg/L	0.0040	0.38%
Fe 273.955†	78952.6	5.180 mg/L		0.0238	5.180 mg/L	0.0238	0.46%
Mg 279.077†	333686.6	25.30 mg/L		0.199	25.30 mg/L	0.199	0.79%
V 292.402†	755778.8	2.508 mg/L		0.0214	2.508 mg/L	0.0214	0.85%
Al 308.215†	311621.8	9.643 mg/L		0.0935	9.643 mg/L	0.0935	0.97%
Be 313.107†	981544.4	0.2521 mg/L		0.00158	0.2521 mg/L	0.00158	0.63%
Cu 324.752†	418688.4	1.235 mg/L		0.0091	1.235 mg/L	0.0091	0.74%
Ag 338.289†	217453.0	1.238 mg/L		0.0089	1.238 mg/L	0.0089	0.72%
Na 330.237†	30004.9	23.17 mg/L		0.226	23.17 mg/L	0.226	0.97%
Ca 227.546†	13407.8	23.65 mg/L		0.287	23.65 mg/L	0.287	1.21%
Al RADIAL†	17429.9	9.750 mg/L		0.0241	9.750 mg/L	0.0241	0.25%
Fe RADIAL†	320.1	5.002 mg/L		0.0386	5.002 mg/L	0.0386	0.77%
Ca RADIAL†	32763.6	24.57 mg/L		0.037	24.57 mg/L	0.037	0.15%
K RADIAL†	6299.5	4.854 mg/L		0.0292	4.854 mg/L	0.0292	0.60%
Mg RADIAL†	2303.2	25.17 mg/L		0.074	25.17 mg/L	0.074	0.29%
Na RADIAL†	337266.1	25.52 mg/L		0.120	25.52 mg/L	0.120	0.47%

Sequence No.: 21
 Sample ID: SEQ-CCB2
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 4/1/2014 6:42:39 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: SEQ-CCB2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16651403.7	5.031 mg/L		0.0264			0.52%
Y RADIAL	183064.9	4.948 mg/L		0.0787			1.59%
As 188.979†	-4.7	-0.0018 mg/L		0.00288	-0.0018 mg/L	0.00288	156.74%
Tl 190.801†	3.7	0.0010 mg/L		0.00084	0.0010 mg/L	0.00084	85.58%
Se 196.026†	-2.0	-0.0016 mg/L		0.00180	-0.0016 mg/L	0.00180	111.79%
Zn 206.200†	-8.9	-0.0002 mg/L		0.00019	-0.0002 mg/L	0.00019	105.72%
Sb 206.836†	-1.5	-0.0004 mg/L		0.00107	-0.0004 mg/L	0.00107	293.23%
Pb 220.353†	5.9	0.0008 mg/L		0.00153	0.0008 mg/L	0.00153	198.24%
Cd 226.502†	-3.8	0.0000 mg/L		0.00007	0.0000 mg/L	0.00007	211.14%
Co 228.616†	-2.5	-0.0001 mg/L		0.00009	-0.0001 mg/L	0.00009	97.55%
Ni 232.003†	-5.7	-0.0003 mg/L		0.00030	-0.0003 mg/L	0.00030	99.28%
Ba 233.527†	-2.9	0.0000 mg/L		0.00008	0.0000 mg/L	0.00008	290.61%
Mn 257.610†	17.8	0.0000 mg/L		0.00003	0.0000 mg/L	0.00003	85.28%
Cr 267.716†	-2.7	0.0000 mg/L		0.00020	0.0000 mg/L	0.00020	767.05%
Fe 273.955†	-2.8	-0.0002 mg/L		0.00065	-0.0002 mg/L	0.00065	346.33%
Mg 279.077†	-13.7	-0.0010 mg/L		0.00142	-0.0010 mg/L	0.00142	136.46%
V 292.402†	23.4	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	54.82%
Al 308.215†	51.9	0.0016 mg/L		0.00117	0.0016 mg/L	0.00117	72.65%
Be 313.107†	78.9	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	74.95%
Cu 324.752†	-122.7	-0.0004 mg/L		0.00020	-0.0004 mg/L	0.00020	55.13%

Ag 338.289†	31.3	0.0002 mg/L	0.00018	0.0002 mg/L	0.00018	102.95%
Na 330.237†	-6.5	-0.0050 mg/L	0.00692	-0.0050 mg/L	0.00692	137.36%
Ca 227.546†	-2.6	-0.0046 mg/L	0.04151	-0.0046 mg/L	0.04151	901.40%
Al RADIAL†	-7.6	-0.0043 mg/L	0.00396	-0.0043 mg/L	0.00396	92.68%
Fe RADIAL†	-1.3	-0.0197 mg/L	0.02531	-0.0197 mg/L	0.02531	128.67%
Ca RADIAL†	13.2	0.0099 mg/L	0.00283	0.0099 mg/L	0.00283	28.60%
K RADIAL†	31.1	0.0239 mg/L	0.01084	0.0239 mg/L	0.01084	45.30%
Mg RADIAL†	-1.2	-0.0126 mg/L	0.02653	-0.0126 mg/L	0.02653	210.45%
Na RADIAL†	1986.1	0.1503 mg/L	0.01012	0.1503 mg/L	0.01012	6.74%

Sequence No.: 22

Sample ID: 14C0987-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 19

Date Collected: 4/1/2014 6:47:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0987-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15883167.1	4.799 mg/L		0.0575			1.20%
Y RADIAL	186937.1	5.052 mg/L		0.0835			1.65%
As 188.979†	-13.7	-0.0054 mg/L		0.00128	-0.0054 mg/L	0.00128	23.89%
Tl 190.801†	-1.3	-0.0003 mg/L		0.00131	-0.0003 mg/L	0.00131	376.40%
Se 196.026†	12.4	0.0098 mg/L		0.00270	0.0098 mg/L	0.00270	27.44%
Zn 206.200†	87.0	0.0018 mg/L		0.00008	0.0018 mg/L	0.00008	4.44%
Sb 206.836†	-7.4	-0.0018 mg/L		0.00037	-0.0018 mg/L	0.00037	20.73%
Pb 220.353†	-21.3	-0.0021 mg/L		0.00288	-0.0021 mg/L	0.00288	136.84%
Cd 226.502†	27.4	0.0002 mg/L		0.00004	0.0002 mg/L	0.00004	17.46%
Co 228.616†	128.3	0.0046 mg/L		0.00004	0.0046 mg/L	0.00004	0.92%
Ni 232.003†	99.7	0.0052 mg/L		0.00042	0.0052 mg/L	0.00042	8.11%
Ba 233.527†	3551.8	0.0319 mg/L		0.00050	0.0319 mg/L	0.00050	1.58%
Mn 257.610†	590161.8	0.9804 mg/L		0.01499	0.9804 mg/L	0.01499	1.53%
Cr 267.716†	4.5	0.0000 mg/L		0.00009	0.0000 mg/L	0.00009	207.46%
Fe 273.955†	95.9	0.0063 mg/L		0.00046	0.0063 mg/L	0.00046	7.28%
Mg 279.077†	233545.8	17.71 mg/L		0.282	17.71 mg/L	0.282	1.59%
V 292.402†	0.3	0.0000 mg/L		0.00014	0.0000 mg/L	0.00014	>999.9%
Al 308.215†	544.5	0.0158 mg/L		0.00591	0.0158 mg/L	0.00591	37.50%
Be 313.107†	-158.5	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	55.64%
Cu 324.752†	-189.9	-0.0020 mg/L		0.00036	-0.0020 mg/L	0.00036	18.24%
Ag 338.289†	198.4	0.0005 mg/L		0.00012	0.0005 mg/L	0.00012	23.25%
Na 330.237†	81084.9	62.52 mg/L		1.204	62.52 mg/L	1.204	1.93%
Ca 227.546†	33929.7	59.78 mg/L		0.938	59.78 mg/L	0.938	1.57%
Al RADIAL†	2.5	0.0014 mg/L		0.00047	0.0014 mg/L	0.00047	34.22%
Fe RADIAL†	-0.4	-0.0060 mg/L		0.01387	-0.0060 mg/L	0.01387	230.15%
Ca RADIAL†	83863.4	62.88 mg/L		0.152	62.88 mg/L	0.152	0.24%
K RADIAL†	5825.6	4.489 mg/L		0.0155	4.489 mg/L	0.0155	0.35%
Mg RADIAL†	1596.9	17.45 mg/L		0.216	17.45 mg/L	0.216	1.24%
Na RADIAL†	895110.1	67.73 mg/L		0.724	67.73 mg/L	0.724	1.07%

Sequence No.: 23

Sample ID: 14C0987-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 20

Date Collected: 4/1/2014 6:52:27 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0987-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15908774.2	4.806 mg/L		0.0233			0.48%
Y RADIAL	187140.6	5.058 mg/L		0.0213			0.42%
As 188.979†	-21.8	-0.0086 mg/L		0.00371	-0.0086 mg/L	0.00371	43.36%
Tl 190.801†	-7.3	-0.0020 mg/L		0.00060	-0.0020 mg/L	0.00060	30.75%
Se 196.026†	14.9	0.0118 mg/L		0.00341	0.0118 mg/L	0.00341	28.93%
Zn 206.200†	53.2	0.0011 mg/L		0.00021	0.0011 mg/L	0.00021	19.16%
Sb 206.836†	-4.4	-0.0011 mg/L		0.00095	-0.0011 mg/L	0.00095	90.63%
Pb 220.353†	-13.6	-0.0011 mg/L		0.00040	-0.0011 mg/L	0.00040	36.13%
Cd 226.502†	-2.7	0.0000 mg/L		0.00007	0.0000 mg/L	0.00007	294.62%
Co 228.616†	88.6	0.0031 mg/L		0.00022	0.0031 mg/L	0.00022	6.93%

Ni 232.003†	99.1	0.0052 mg/L	0.00072	0.0052 mg/L	0.00072	13.89%
Ba 233.527†	3536.6	0.0318 mg/L	0.00014	0.0318 mg/L	0.00014	0.44%
Mn 257.610†	735175.3	1.221 mg/L	0.0070	1.221 mg/L	0.0070	0.58%
Cr 267.716†	4.8	0.0000 mg/L	0.00009	0.0000 mg/L	0.00009	200.35%
Fe 273.955†	20.8	0.0014 mg/L	0.00069	0.0014 mg/L	0.00069	50.51%
Mg 279.077†	235779.7	17.88 mg/L	0.099	17.88 mg/L	0.099	0.55%
V 292.402†	-37.6	-0.0001 mg/L	0.00019	-0.0001 mg/L	0.00019	149.28%
Al 308.215†	347.7	0.0097 mg/L	0.00153	0.0097 mg/L	0.00153	15.85%
Be 313.107†	-72.3	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	89.49%
Cu 324.752†	-373.7	-0.0025 mg/L	0.00011	-0.0025 mg/L	0.00011	4.33%
Ag 338.289†	120.3	0.0001 mg/L	0.00016	0.0001 mg/L	0.00016	231.69%
Na 330.237†	79813.6	61.54 mg/L	0.495	61.54 mg/L	0.495	0.80%
Ca 227.546†	33252.4	58.58 mg/L	0.406	58.58 mg/L	0.406	0.69%
Al RADIAL†	11.6	0.0065 mg/L	0.00225	0.0065 mg/L	0.00225	34.61%
Fe RADIAL†	-1.9	-0.0301 mg/L	0.01217	-0.0301 mg/L	0.01217	40.49%
Ca RADIAL†	83396.1	62.53 mg/L	0.126	62.53 mg/L	0.126	0.20%
K RADIAL†	5674.2	4.372 mg/L	0.0111	4.372 mg/L	0.0111	0.25%
Mg RADIAL†	1623.9	17.75 mg/L	0.038	17.75 mg/L	0.038	0.22%
Na RADIAL†	884732.2	66.95 mg/L	0.351	66.95 mg/L	0.351	0.52%

Sequence No.: 24

Sample ID: 14C1039-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 21

Date Collected: 4/1/2014 6:57:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1039-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16153390.9	4.880 mg/L	0.0040			0.08%
Y RADIAL	192031.4	5.190 mg/L	0.0519			1.00%
As 188.979†	-9.6	-0.0038 mg/L	0.00040	-0.0038 mg/L	0.00040	10.69%
Tl 190.801†	-0.2	-0.0001 mg/L	0.00109	-0.0001 mg/L	0.00109	>999.9%
Se 196.026†	11.3	0.0090 mg/L	0.00049	0.0090 mg/L	0.00049	5.43%
Zn 206.200†	159.5	0.0032 mg/L	0.00006	0.0032 mg/L	0.00006	1.78%
Sb 206.836†	-7.2	-0.0017 mg/L	0.00077	-0.0017 mg/L	0.00077	44.34%
Pb 220.353†	-9.0	-0.0008 mg/L	0.00093	-0.0008 mg/L	0.00093	111.12%
Cd 226.502†	-7.3	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	35.08%
Co 228.616†	45.7	0.0016 mg/L	0.00017	0.0016 mg/L	0.00017	10.76%
Ni 232.003†	77.4	0.0040 mg/L	0.00030	0.0040 mg/L	0.00030	7.35%
Ba 233.527†	4165.2	0.0374 mg/L	0.00018	0.0374 mg/L	0.00018	0.49%
Mn 257.610†	239692.1	0.3983 mg/L	0.00355	0.3983 mg/L	0.00355	0.89%
Cr 267.716†	12.8	0.0001 mg/L	0.00013	0.0001 mg/L	0.00013	108.57%
Fe 273.955†	383.6	0.0252 mg/L	0.00019	0.0252 mg/L	0.00019	0.74%
Mg 279.077†	38805.4	2.942 mg/L	0.0267	2.942 mg/L	0.0267	0.91%
V 292.402†	-25.2	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006	71.94%
Al 308.215†	966.4	0.0295 mg/L	0.00313	0.0295 mg/L	0.00313	10.62%
Be 313.107†	-128.8	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	56.50%
Cu 324.752†	-738.8	-0.0028 mg/L	0.00010	-0.0028 mg/L	0.00010	3.62%
Ag 338.289†	67.9	0.0001 mg/L	0.00039	0.0001 mg/L	0.00039	580.08%
Na 330.237†	49687.8	38.30 mg/L	0.405	38.30 mg/L	0.405	1.06%
Ca 227.546†	17181.8	30.27 mg/L	0.310	30.27 mg/L	0.310	1.02%
Al RADIAL†	30.5	0.0171 mg/L	0.00369	0.0171 mg/L	0.00369	21.63%
Fe RADIAL†	0.6	0.0100 mg/L	0.01418	0.0100 mg/L	0.01418	141.63%
Ca RADIAL†	42533.5	31.89 mg/L	0.088	31.89 mg/L	0.088	0.27%
K RADIAL†	15787.8	12.17 mg/L	0.020	12.17 mg/L	0.020	0.17%
Mg RADIAL†	261.7	2.861 mg/L	0.0363	2.861 mg/L	0.0363	1.27%
Na RADIAL†	577830.7	43.73 mg/L	0.445	43.73 mg/L	0.445	1.02%

Sequence No.: 25

Sample ID: BD40037-DUP1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 22

Date Collected: 4/1/2014 7:02:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40037-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD

Y 371.029	16223013.9	4.901 mg/L	0.0293			0.60%
Y RADIAL	188084.8	5.083 mg/L	0.0114			0.22%
As 188.979†	-12.6	-0.0049 mg/L	0.00174	-0.0049 mg/L	0.00174	35.35%
Tl 190.801†	6.1	0.0016 mg/L	0.00050	0.0016 mg/L	0.00050	30.24%
Se 196.026†	10.4	0.0082 mg/L	0.00065	0.0082 mg/L	0.00065	7.87%
Zn 206.200†	147.7	0.0030 mg/L	0.00005	0.0030 mg/L	0.00005	1.67%
Sb 206.836†	-5.0	-0.0012 mg/L	0.00031	-0.0012 mg/L	0.00031	26.28%
Pb 220.353†	-4.3	-0.0002 mg/L	0.00197	-0.0002 mg/L	0.00197	905.86%
Cd 226.502†	-4.8	0.0000 mg/L	0.00009	0.0000 mg/L	0.00009	195.58%
Co 228.616†	50.3	0.0018 mg/L	0.00017	0.0018 mg/L	0.00017	9.69%
Ni 232.003†	78.6	0.0041 mg/L	0.00007	0.0041 mg/L	0.00007	1.69%
Ba 233.527†	4134.1	0.0371 mg/L	0.00016	0.0371 mg/L	0.00016	0.44%
Mn 257.610†	239579.7	0.3981 mg/L	0.00385	0.3981 mg/L	0.00385	0.97%
Cr 267.716†	10.5	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	73.70%
Fe 273.955†	384.6	0.0252 mg/L	0.00083	0.0252 mg/L	0.00083	3.27%
Mg 279.077†	38870.0	2.946 mg/L	0.0265	2.946 mg/L	0.0265	0.90%
V 292.402†	-10.3	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	95.66%
Al 308.215†	560.1	0.0169 mg/L	0.00256	0.0169 mg/L	0.00256	15.14%
Be 313.107†	-150.5	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	61.68%
Cu 324.752†	-865.0	-0.0032 mg/L	0.00016	-0.0032 mg/L	0.00016	4.90%
Ag 338.289†	79.8	0.0001 mg/L	0.00025	0.0001 mg/L	0.00025	186.07%
Na 330.237†	49869.3	38.44 mg/L	0.477	38.44 mg/L	0.477	1.24%
Ca 227.546†	17239.7	30.37 mg/L	0.364	30.37 mg/L	0.364	1.20%
Al RADIAL†	7.1	0.0040 mg/L	0.00359	0.0040 mg/L	0.00359	90.56%
Fe RADIAL†	1.4	0.0221 mg/L	0.02568	0.0221 mg/L	0.02568	116.14%
Ca RADIAL†	42353.2	31.76 mg/L	0.021	31.76 mg/L	0.021	0.07%
K RADIAL†	15881.1	12.24 mg/L	0.054	12.24 mg/L	0.054	0.44%
Mg RADIAL†	264.6	2.892 mg/L	0.0212	2.892 mg/L	0.0212	0.73%
Na RADIAL†	582257.2	44.06 mg/L	0.080	44.06 mg/L	0.080	0.18%

Sequence No.: 26

Sample ID: BD40037-MS1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 23

Date Collected: 4/1/2014 7:07:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40037-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16156148.7	4.881 mg/L		0.0223				0.46%
Y RADIAL	189224.2	5.114 mg/L		0.0790				1.54%
As 188.979†	5390.0	2.117 mg/L		0.0048	2.117 mg/L		0.0048	0.23%
Tl 190.801†	7792.1	2.093 mg/L		0.0139	2.093 mg/L		0.0139	0.67%
Se 196.026†	2719.0	2.158 mg/L		0.0168	2.158 mg/L		0.0168	0.78%
Zn 206.200†	27162.7	0.5524 mg/L		0.00379	0.5524 mg/L		0.00379	0.69%
Sb 206.836†	1075.6	0.2572 mg/L		0.00204	0.2572 mg/L		0.00204	0.79%
Pb 220.353†	3924.2	0.5192 mg/L		0.00561	0.5192 mg/L		0.00561	1.08%
Cd 226.502†	6302.0	0.0517 mg/L		0.00039	0.0517 mg/L		0.00039	0.75%
Co 228.616†	15030.7	0.5340 mg/L		0.00366	0.5340 mg/L		0.00366	0.69%
Ni 232.003†	10062.0	0.5250 mg/L		0.00224	0.5250 mg/L		0.00224	0.43%
Ba 233.527†	240778.2	2.162 mg/L		0.0081	2.162 mg/L		0.0081	0.38%
Mn 257.610†	555007.7	0.9223 mg/L		0.00342	0.9223 mg/L		0.00342	0.37%
Cr 267.716†	22328.5	0.2131 mg/L		0.00152	0.2131 mg/L		0.00152	0.71%
Fe 273.955†	16616.9	1.090 mg/L		0.0062	1.090 mg/L		0.0062	0.57%
Mg 279.077†	38363.4	2.908 mg/L		0.0139	2.908 mg/L		0.0139	0.48%
V 292.402†	152750.5	0.5068 mg/L		0.00459	0.5068 mg/L		0.00459	0.90%
Al 308.215†	63851.5	1.976 mg/L		0.0060	1.976 mg/L		0.0060	0.31%
Be 313.107†	201621.0	0.0518 mg/L		0.00027	0.0518 mg/L		0.00027	0.52%
Cu 324.752†	91903.9	0.2707 mg/L		0.00064	0.2707 mg/L		0.00064	0.24%
Ag 338.289†	8203.7	0.0464 mg/L		0.00186	0.0464 mg/L		0.00186	4.01%
Na 330.237†	49498.9	38.16 mg/L		0.087	38.16 mg/L		0.087	0.23%
Ca 227.546†	17483.4	30.81 mg/L		0.222	30.81 mg/L		0.222	0.72%
Al RADIAL†	3612.7	2.021 mg/L		0.0154	2.021 mg/L		0.0154	0.76%
Fe RADIAL†	67.3	1.052 mg/L		0.0305	1.052 mg/L		0.0305	2.90%
Ca RADIAL†	42354.4	31.76 mg/L		0.086	31.76 mg/L		0.086	0.27%
K RADIAL†	15819.1	12.19 mg/L		0.069	12.19 mg/L		0.069	0.56%
Mg RADIAL†	263.9	2.884 mg/L		0.0696	2.884 mg/L		0.0696	2.41%
Na RADIAL†	579385.1	43.84 mg/L		0.316	43.84 mg/L		0.316	0.72%

Sequence No.: 27
Sample ID: 14C1039-02
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 4/1/2014 7:15:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 14C1039-02

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	14980808.5	4.526	mg/L	0.0302				0.67%
Y RADIAL	182992.5	4.946	mg/L	0.0318				0.64%
As 188.979†	-16.2	-0.0062	mg/L	0.00534	-0.0062	mg/L	0.00534	86.15%
Tl 190.801†	-2.6	-0.0006	mg/L	0.00188	-0.0006	mg/L	0.00188	312.82%
Se 196.026†	15.9	0.0134	mg/L	0.00328	0.0134	mg/L	0.00328	24.58%
Zn 206.200†	455.1	0.0092	mg/L	0.00047	0.0092	mg/L	0.00047	5.11%
Sb 206.836†	-0.1	0.0000	mg/L	0.00102	0.0000	mg/L	0.00102	>999.9%
Pb 220.353†	-13.0	-0.0004	mg/L	0.00146	-0.0004	mg/L	0.00146	338.05%
Cd 226.502†	45.8	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	56.86%
Co 228.616†	203.4	0.0072	mg/L	0.00007	0.0072	mg/L	0.00007	0.94%
Ni 232.003†	138.8	0.0074	mg/L	0.00103	0.0074	mg/L	0.00103	13.95%
Ba 233.527†	20328.3	0.1825	mg/L	0.00173	0.1825	mg/L	0.00173	0.95%
Mn 257.610†	2452954.0	4.076	mg/L	0.0353	4.076	mg/L	0.0353	0.87%
Cr 267.716†	84.2	0.0008	mg/L	0.00013	0.0008	mg/L	0.00013	16.47%
Fe 273.955†	16067.6	1.054	mg/L	0.0122	1.054	mg/L	0.0122	1.15%
Mg 279.077†	194577.1	14.75	mg/L	0.115	14.75	mg/L	0.115	0.78%
V 292.402†	-94.2	-0.0004	mg/L	0.00006	-0.0004	mg/L	0.00006	15.54%
Al 308.215†	1271.3	0.0377	mg/L	0.00089	0.0377	mg/L	0.00089	2.35%
Be 313.107†	-615.9	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	14.46%
Cu 324.752†	775.8	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	13.68%
Ag 338.289†	166.9	-0.0003	mg/L	0.00012	-0.0003	mg/L	0.00012	36.96%
Na 330.237†	376655.4	290.2	mg/L	2.31	290.2	mg/L	2.31	0.79%
Ca 227.546†	68346.8	120.4	mg/L	1.11	120.4	mg/L	1.11	0.92%
Al RADIAL†	13.4	0.0075	mg/L	0.00324	0.0075	mg/L	0.00324	43.16%
Fe RADIAL†	66.3	1.036	mg/L	0.0123	1.036	mg/L	0.0123	1.19%
Ca RADIAL†	157352.8	118.0	mg/L	0.31	118.0	mg/L	0.31	0.26%
K RADIAL†	18814.8	14.50	mg/L	0.032	14.50	mg/L	0.032	0.22%
Mg RADIAL†	1371.7	14.99	mg/L	0.090	14.99	mg/L	0.090	0.60%
Na RADIAL†	3196149.4	241.9	mg/L	5.39	241.9	mg/L	5.39	2.23%

Sequence No.: 28
Sample ID: 14C1039-03
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 4/1/2014 7:20:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 14C1039-03

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	16743924.0	5.059	mg/L	0.0304				0.60%
Y RADIAL	189773.7	5.129	mg/L	0.0575				1.12%
As 188.979†	-4.3	-0.0017	mg/L	0.00067	-0.0017	mg/L	0.00067	40.02%
Tl 190.801†	4.2	0.0011	mg/L	0.00109	0.0011	mg/L	0.00109	94.60%
Se 196.026†	4.0	0.0032	mg/L	0.00087	0.0032	mg/L	0.00087	27.17%
Zn 206.200†	192.5	0.0039	mg/L	0.00016	0.0039	mg/L	0.00016	4.08%
Sb 206.836†	-1.6	-0.0004	mg/L	0.00202	-0.0004	mg/L	0.00202	524.38%
Pb 220.353†	3.3	0.0006	mg/L	0.00040	0.0006	mg/L	0.00040	63.92%
Cd 226.502†	5.7	0.0000	mg/L	0.00016	0.0000	mg/L	0.00016	497.88%
Co 228.616†	3.3	0.0001	mg/L	0.00020	0.0001	mg/L	0.00020	173.17%
Ni 232.003†	26.8	0.0014	mg/L	0.00077	0.0014	mg/L	0.00077	54.37%
Ba 233.527†	4907.3	0.0441	mg/L	0.00012	0.0441	mg/L	0.00012	0.28%
Mn 257.610†	56584.2	0.0940	mg/L	0.00112	0.0940	mg/L	0.00112	1.19%
Cr 267.716†	-2.7	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	374.23%
Fe 273.955†	1239.4	0.0813	mg/L	0.00061	0.0813	mg/L	0.00061	0.75%
Mg 279.077†	14093.2	1.068	mg/L	0.0116	1.068	mg/L	0.0116	1.09%
V 292.402†	219.3	0.0007	mg/L	0.00003	0.0007	mg/L	0.00003	4.48%
Al 308.215†	4247.3	0.1312	mg/L	0.00290	0.1312	mg/L	0.00290	2.21%
Be 313.107†	-80.5	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	20.69%
Cu 324.752†	-747.6	-0.0025	mg/L	0.00011	-0.0025	mg/L	0.00011	4.49%
Ag 338.289†	9.9	-0.0001	mg/L	0.00033	-0.0001	mg/L	0.00033	315.02%

Na 330.237†	15450.9	11.92 mg/L	0.125	11.92 mg/L	0.125	1.05%
Ca 227.546†	8730.7	15.38 mg/L	0.119	15.38 mg/L	0.119	0.77%
Al RADIAL†	235.5	0.1317 mg/L	0.00234	0.1317 mg/L	0.00234	1.77%
Fe RADIAL†	5.4	0.0850 mg/L	0.01989	0.0850 mg/L	0.01989	23.41%
Ca RADIAL†	21782.2	16.33 mg/L	0.020	16.33 mg/L	0.020	0.12%
K RADIAL†	4186.9	3.226 mg/L	0.0226	3.226 mg/L	0.0226	0.70%
Mg RADIAL†	94.8	1.037 mg/L	0.0300	1.037 mg/L	0.0300	2.89%
Na RADIAL†	203003.0	15.36 mg/L	0.042	15.36 mg/L	0.042	0.27%

Sequence No.: 29

Sample ID: 14C1039-04

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 26

Date Collected: 4/1/2014 7:25:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1039-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	16400042.2	4.955 mg/L		0.0426			0.86%
Y RADIAL	185737.8	5.020 mg/L		0.0423			0.84%
As 188.979†	-10.1	-0.0040 mg/L		0.00307	-0.0040 mg/L	0.00307	77.15%
Tl 190.801†	-0.7	-0.0002 mg/L		0.00065	-0.0002 mg/L	0.00065	329.66%
Se 196.026†	12.4	0.0098 mg/L		0.00029	0.0098 mg/L	0.00029	2.90%
Zn 206.200†	1576.5	0.0321 mg/L		0.00047	0.0321 mg/L	0.00047	1.48%
Sb 206.836†	-6.5	-0.0016 mg/L		0.00201	-0.0016 mg/L	0.00201	128.80%
Pb 220.353†	-1.2	0.0002 mg/L		0.00105	0.0002 mg/L	0.00105	568.31%
Cd 226.502†	13.3	0.0001 mg/L		0.00009	0.0001 mg/L	0.00009	80.96%
Co 228.616†	20.4	0.0007 mg/L		0.00019	0.0007 mg/L	0.00019	26.22%
Ni 232.003†	26.4	0.0014 mg/L		0.00125	0.0014 mg/L	0.00125	90.68%
Ba 233.527†	2839.3	0.0255 mg/L		0.00034	0.0255 mg/L	0.00034	1.33%
Mn 257.610†	71381.6	0.1185 mg/L		0.00193	0.1185 mg/L	0.00193	1.63%
Cr 267.716†	-14.0	-0.0001 mg/L		0.00005	-0.0001 mg/L	0.00005	38.00%
Fe 273.955†	34.1	0.0022 mg/L		0.00012	0.0022 mg/L	0.00012	5.19%
Mg 279.077†	74102.0	5.618 mg/L		0.0827	5.618 mg/L	0.0827	1.47%
V 292.402†	-4.5	0.0000 mg/L		0.00003	0.0000 mg/L	0.00003	198.74%
Al 308.215†	277.6	0.0081 mg/L		0.00328	0.0081 mg/L	0.00328	40.30%
Be 313.107†	-112.5	0.0000 mg/L		0.00001	0.0000 mg/L	0.00001	41.23%
Cu 324.752†	-780.9	-0.0029 mg/L		0.00011	-0.0029 mg/L	0.00011	3.61%
Ag 338.289†	54.5	0.0000 mg/L		0.00024	0.0000 mg/L	0.00024	>999.9%
Na 330.237†	17553.7	13.56 mg/L		0.235	13.56 mg/L	0.235	1.73%
Ca 227.546†	16389.8	28.88 mg/L		0.379	28.88 mg/L	0.379	1.31%
Al RADIAL†	-0.2	-0.0001 mg/L		0.00498	-0.0001 mg/L	0.00498	>999.9%
Fe RADIAL†	0.6	0.0087 mg/L		0.00929	0.0087 mg/L	0.00929	106.50%
Ca RADIAL†	40775.2	30.57 mg/L		0.035	30.57 mg/L	0.035	0.12%
K RADIAL†	3597.0	2.772 mg/L		0.0269	2.772 mg/L	0.0269	0.97%
Mg RADIAL†	497.0	5.432 mg/L		0.0310	5.432 mg/L	0.0310	0.57%
Na RADIAL†	228276.7	17.27 mg/L		0.017	17.27 mg/L	0.017	0.10%

Sequence No.: 30

Sample ID: 14C1039-05

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 27

Date Collected: 4/1/2014 7:30:04 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1039-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	15211037.3	4.595 mg/L		0.0355			0.77%
Y RADIAL	187782.3	5.075 mg/L		0.0329			0.65%
As 188.979†	-22.9	-0.0090 mg/L		0.00076	-0.0090 mg/L	0.00076	8.46%
Tl 190.801†	-9.2	-0.0025 mg/L		0.00039	-0.0025 mg/L	0.00039	16.04%
Se 196.026†	9.1	0.0074 mg/L		0.00576	0.0074 mg/L	0.00576	77.66%
Zn 206.200†	100.2	0.0020 mg/L		0.00006	0.0020 mg/L	0.00006	2.84%
Sb 206.836†	-2.1	-0.0005 mg/L		0.00172	-0.0005 mg/L	0.00172	335.24%
Pb 220.353†	-8.6	-0.0004 mg/L		0.00180	-0.0004 mg/L	0.00180	446.75%
Cd 226.502†	-0.9	-0.0001 mg/L		0.00006	-0.0001 mg/L	0.00006	95.40%
Co 228.616†	-4.6	-0.0002 mg/L		0.00020	-0.0002 mg/L	0.00020	124.84%
Ni 232.003†	-40.8	-0.0021 mg/L		0.00103	-0.0021 mg/L	0.00103	49.82%

Ba 233.527†	32871.7	0.2951 mg/L	0.00042	0.2951 mg/L	0.00042	0.14%
Mn 257.610†	2626582.6	4.364 mg/L	0.0473	4.364 mg/L	0.0473	1.08%
Cr 267.716†	67.5	0.0006 mg/L	0.00010	0.0006 mg/L	0.00010	14.89%
Fe 273.955†	4861.8	0.3190 mg/L	0.00279	0.3190 mg/L	0.00279	0.87%
Mg 279.077†	319902.2	24.25 mg/L	0.267	24.25 mg/L	0.267	1.10%
V 292.402†	-93.0	-0.0003 mg/L	0.00003	-0.0003 mg/L	0.00003	9.82%
Al 308.215†	1269.3	0.0380 mg/L	0.00449	0.0380 mg/L	0.00449	11.81%
Be 313.107†	-656.0	-0.0002 mg/L	0.00002	-0.0002 mg/L	0.00002	11.75%
Cu 324.752†	-497.8	-0.0031 mg/L	0.00003	-0.0031 mg/L	0.00003	0.95%
Ag 338.289†	152.3	0.0002 mg/L	0.00031	0.0002 mg/L	0.00031	178.52%
Na 330.237†	424468.6	326.9 mg/L	4.57	326.9 mg/L	4.57	1.40%
Ca 227.546†	37372.9	65.84 mg/L	0.628	65.84 mg/L	0.628	0.95%
Al RADIAL†	-9.4	-0.0053 mg/L	0.00139	-0.0053 mg/L	0.00139	26.41%
Fe RADIAL†	19.6	0.3058 mg/L	0.02690	0.3058 mg/L	0.02690	8.80%
Ca RADIAL†	86492.1	64.85 mg/L	0.143	64.85 mg/L	0.143	0.22%
K RADIAL†	7221.7	5.565 mg/L	0.0093	5.565 mg/L	0.0093	0.17%
Mg RADIAL†	2258.7	24.69 mg/L	0.241	24.69 mg/L	0.241	0.97%
Na RADIAL†	3500088.7	264.9 mg/L	1.27	264.9 mg/L	1.27	0.48%

Sequence No.: 31

Sample ID: 14C1039-06

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 28

Date Collected: 4/1/2014 7:35:07 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1039-06

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	13638767.7	4.120 mg/L	0.0230			0.56%
Y RADIAL	178100.7	4.814 mg/L	0.0686			1.42%
As 188.979†	-17.1	-0.0067 mg/L	0.00117	-0.0067 mg/L	0.00117	17.40%
Tl 190.801†	-3.5	-0.0009 mg/L	0.00114	-0.0009 mg/L	0.00114	121.49%
Se 196.026†	1.0	0.0008 mg/L	0.00216	0.0008 mg/L	0.00216	271.38%
Zn 206.200†	1283.0	0.0261 mg/L	0.00027	0.0261 mg/L	0.00027	1.03%
Sb 206.836†	4.3	0.0010 mg/L	0.00085	0.0010 mg/L	0.00085	82.93%
Pb 220.353†	-35.5	-0.0019 mg/L	0.00147	-0.0019 mg/L	0.00147	77.13%
Cd 226.502†	108.2	0.0009 mg/L	0.00012	0.0009 mg/L	0.00012	13.22%
Co 228.616†	-25.4	-0.0009 mg/L	0.00021	-0.0009 mg/L	0.00021	23.26%
Ni 232.003†	170.7	0.0089 mg/L	0.00080	0.0089 mg/L	0.00080	8.95%
Ba 233.527†	117486.8	1.055 mg/L	0.0114	1.055 mg/L	0.0114	1.08%
Mn 257.610†	31374.0	0.0517 mg/L	0.00049	0.0517 mg/L	0.00049	0.95%
Cr 267.716†	3.7	0.0000 mg/L	0.00030	0.0000 mg/L	0.00030	844.32%
Fe 273.955†	26.5	0.0017 mg/L	0.00089	0.0017 mg/L	0.00089	51.14%
Mg 279.077†	279335.9	21.17 mg/L	0.232	21.17 mg/L	0.232	1.10%
V 292.402†	19.7	0.0001 mg/L	0.00019	0.0001 mg/L	0.00019	294.02%
Al 308.215†	1837.7	0.0537 mg/L	0.00265	0.0537 mg/L	0.00265	4.94%
Be 313.107†	-1077.8	-0.0003 mg/L	0.00005	-0.0003 mg/L	0.00005	16.32%
Cu 324.752†	1158.2	-0.0015 mg/L	0.00015	-0.0015 mg/L	0.00015	9.86%
Ag 338.289†	471.9	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	40.26%
Na 330.237†	2128820.2	1639 mg/L	14.9	1639 mg/L	14.9	0.91%
Ca 227.546†	134230.3	236.5 mg/L	2.38	236.5 mg/L	2.38	1.01%
Al RADIAL†	25.4	0.0142 mg/L	0.00265	0.0142 mg/L	0.00265	18.64%
Fe RADIAL†	-0.5	-0.0085 mg/L	0.01418	-0.0085 mg/L	0.01418	167.01%
Ca RADIAL†	281708.4	211.2 mg/L	0.34	211.2 mg/L	0.34	0.16%
K RADIAL†	32701.1	25.20 mg/L	0.134	25.20 mg/L	0.134	0.53%
Mg RADIAL†	1974.7	21.58 mg/L	0.278	21.58 mg/L	0.278	1.29%
Na RADIAL†	9348584.2	707.4 mg/L	9.63	707.4 mg/L	9.63	1.36%

Sequence No.: 32

Sample ID: SEQ-CCV3

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 4/1/2014 7:40:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV3

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15604549.4	4.714 mg/L	0.0243			0.51%

Y RADIAL	177051.8	4.785 mg/L	0.0666			1.39%
As 188.979†	624.5	0.2460 mg/L	0.00450	0.2460 mg/L	0.00450	1.83%
Tl 190.801†	963.1	0.2591 mg/L	0.00313	0.2591 mg/L	0.00313	1.21%
Se 196.026†	309.5	0.2492 mg/L	0.00416	0.2492 mg/L	0.00416	1.67%
Zn 206.200†	125605.2	2.554 mg/L	0.0124	2.554 mg/L	0.0124	0.48%
Sb 206.836†	1072.1	0.2562 mg/L	0.00330	0.2562 mg/L	0.00330	1.29%
Pb 220.353†	1924.5	0.2550 mg/L	0.00063	0.2550 mg/L	0.00063	0.25%
Cd 226.502†	15259.2	0.1248 mg/L	0.00094	0.1248 mg/L	0.00094	0.75%
Co 228.616†	71065.1	2.525 mg/L	0.0182	2.525 mg/L	0.0182	0.72%
Ni 232.003†	47476.8	2.477 mg/L	0.0196	2.477 mg/L	0.0196	0.79%
Ba 233.527†	1150951.5	10.33 mg/L	0.088	10.33 mg/L	0.088	0.85%
Mn 257.610†	1531635.0	2.545 mg/L	0.0187	2.545 mg/L	0.0187	0.74%
Cr 267.716†	107447.4	1.025 mg/L	0.0037	1.025 mg/L	0.0037	0.36%
Fe 273.955†	77406.6	5.079 mg/L	0.0358	5.079 mg/L	0.0358	0.70%
Mg 279.077†	332291.6	25.19 mg/L	0.213	25.19 mg/L	0.213	0.85%
V 292.402†	754078.5	2.502 mg/L	0.0279	2.502 mg/L	0.0279	1.12%
Al 308.215†	308488.8	9.546 mg/L	0.1013	9.546 mg/L	0.1013	1.06%
Be 313.107†	975703.4	0.2506 mg/L	0.00213	0.2506 mg/L	0.00213	0.85%
Cu 324.752†	415421.3	1.226 mg/L	0.0104	1.226 mg/L	0.0104	0.85%
Ag 338.289†	216607.7	1.234 mg/L	0.0103	1.234 mg/L	0.0103	0.84%
Na 330.237†	29511.2	22.79 mg/L	0.259	22.79 mg/L	0.259	1.14%
Ca 227.546†	13179.1	23.25 mg/L	0.129	23.25 mg/L	0.129	0.56%
Al RADIAL†	17790.1	9.951 mg/L	0.0486	9.951 mg/L	0.0486	0.49%
Fe RADIAL†	322.2	5.035 mg/L	0.0972	5.035 mg/L	0.0972	1.93%
Ca RADIAL†	32950.3	24.71 mg/L	0.006	24.71 mg/L	0.006	0.02%
K RADIAL†	6385.0	4.920 mg/L	0.0328	4.920 mg/L	0.0328	0.67%
Mg RADIAL†	2338.0	25.56 mg/L	0.426	25.56 mg/L	0.426	1.67%
Na RADIAL†	348711.1	26.39 mg/L	0.091	26.39 mg/L	0.091	0.35%

Sequence No.: 33

Sample ID: SEQ-CCB3

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 4/1/2014 7:48:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16710967.4	5.049 mg/L		0.0265			0.52%
Y RADIAL	181079.9	4.894 mg/L		0.0053			0.11%
As 188.979†	-5.0	-0.0020 mg/L		0.00103	-0.0020 mg/L	0.00103	52.39%
Tl 190.801†	-0.9	-0.0002 mg/L		0.00099	-0.0002 mg/L	0.00099	408.01%
Se 196.026†	9.0	0.0072 mg/L		0.00197	0.0072 mg/L	0.00197	27.56%
Zn 206.200†	-14.5	-0.0003 mg/L		0.00010	-0.0003 mg/L	0.00010	35.29%
Sb 206.836†	2.7	0.0006 mg/L		0.00021	0.0006 mg/L	0.00021	32.41%
Pb 220.353†	3.4	0.0004 mg/L		0.00006	0.0004 mg/L	0.00006	12.46%
Cd 226.502†	12.6	0.0001 mg/L		0.00010	0.0001 mg/L	0.00010	92.47%
Co 228.616†	0.0	0.0000 mg/L		0.00004	0.0000 mg/L	0.00004	>999.9%
Ni 232.003†	5.7	0.0003 mg/L		0.00085	0.0003 mg/L	0.00085	285.93%
Ba 233.527†	-6.9	-0.0001 mg/L		0.00006	-0.0001 mg/L	0.00006	95.81%
Mn 257.610†	-2.4	0.0000 mg/L		0.00001	0.0000 mg/L	0.00001	251.61%
Cr 267.716†	5.5	0.0001 mg/L		0.00005	0.0001 mg/L	0.00005	90.65%
Fe 273.955†	4.3	0.0003 mg/L		0.00135	0.0003 mg/L	0.00135	473.14%
Mg 279.077†	0.3	0.0000 mg/L		0.00184	0.0000 mg/L	0.00184	>999.9%
V 292.402†	14.8	0.0000 mg/L		0.00008	0.0000 mg/L	0.00008	170.69%
Al 308.215†	-43.2	-0.0013 mg/L		0.00147	-0.0013 mg/L	0.00147	110.10%
Be 313.107†	7.8	0.0000 mg/L		0.00001	0.0000 mg/L	0.00001	683.70%
Cu 324.752†	-402.9	-0.0012 mg/L		0.00012	-0.0012 mg/L	0.00012	9.87%
Ag 338.289†	87.9	0.0005 mg/L		0.00015	0.0005 mg/L	0.00015	30.54%
Na 330.237†	-37.8	-0.0291 mg/L		0.01375	-0.0291 mg/L	0.01375	47.31%
Ca 227.546†	16.1	0.0284 mg/L		0.01252	0.0284 mg/L	0.01252	44.02%
Al RADIAL†	-2.2	-0.0012 mg/L		0.00049	-0.0012 mg/L	0.00049	40.67%
Fe RADIAL†	-0.5	-0.0076 mg/L		0.03238	-0.0076 mg/L	0.03238	423.82%
Ca RADIAL†	4.8	0.0036 mg/L		0.00183	0.0036 mg/L	0.00183	50.55%
K RADIAL†	11.1	0.0086 mg/L		0.00834	0.0086 mg/L	0.00834	97.37%
Mg RADIAL†	-1.1	-0.0125 mg/L		0.03643	-0.0125 mg/L	0.03643	292.26%
Na RADIAL†	995.1	0.0753 mg/L		0.00369	0.0753 mg/L	0.00369	4.90%

Sequence No.: 34

Autosampler Location: 29

Sample ID: 14C1039-07
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Date Collected: 4/1/2014 7:53:00 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 14C1039-07

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15939257.4	4.815 mg/L		0.0133			0.28%
Y RADIAL	192226.3	5.195 mg/L		0.0426			0.82%
As 188.979†	-15.5	-0.0060 mg/L		0.00154	-0.0060 mg/L	0.00154	25.60%
Tl 190.801†	0.1	0.0001 mg/L		0.00044	0.0001 mg/L	0.00044	659.39%
Se 196.026†	8.6	0.0072 mg/L		0.00161	0.0072 mg/L	0.00161	22.35%
Zn 206.200†	229.7	0.0046 mg/L		0.00003	0.0046 mg/L	0.00003	0.62%
Sb 206.836†	-4.3	-0.0010 mg/L		0.00172	-0.0010 mg/L	0.00172	165.77%
Pb 220.353†	-11.2	-0.0011 mg/L		0.00045	-0.0011 mg/L	0.00045	41.06%
Cd 226.502†	24.9	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	32.11%
Co 228.616†	14.2	0.0005 mg/L		0.00030	0.0005 mg/L	0.00030	59.75%
Ni 232.003†	14.9	0.0009 mg/L		0.00073	0.0009 mg/L	0.00073	84.94%
Ba 233.527†	14799.7	0.1329 mg/L		0.00067	0.1329 mg/L	0.00067	0.50%
Mn 257.610†	1893877.5	3.147 mg/L		0.0262	3.147 mg/L	0.0262	0.83%
Cr 267.716†	64.9	0.0006 mg/L		0.00014	0.0006 mg/L	0.00014	23.00%
Fe 273.955†	7755.2	0.5088 mg/L		0.00256	0.5088 mg/L	0.00256	0.50%
Mg 279.077†	128234.1	9.722 mg/L		0.0587	9.722 mg/L	0.0587	0.60%
V 292.402†	-68.2	-0.0003 mg/L		0.00005	-0.0003 mg/L	0.00005	17.05%
Al 308.215†	733.1	0.0221 mg/L		0.00364	0.0221 mg/L	0.00364	16.49%
Be 313.107†	-371.9	-0.0001 mg/L		0.00001	-0.0001 mg/L	0.00001	6.73%
Cu 324.752†	-640.2	-0.0027 mg/L		0.00018	-0.0027 mg/L	0.00018	6.55%
Ag 338.289†	80.6	0.0001 mg/L		0.00009	0.0001 mg/L	0.00009	164.42%
Na 330.237†	182475.8	140.5 mg/L		1.82	140.5 mg/L	1.82	1.30%
Ca 227.546†	21821.1	38.45 mg/L		0.292	38.45 mg/L	0.292	0.76%
Al RADIAL†	4.7	0.0026 mg/L		0.00253	0.0026 mg/L	0.00253	95.50%
Fe RADIAL†	30.1	0.4705 mg/L		0.03091	0.4705 mg/L	0.03091	6.57%
Ca RADIAL†	51409.4	38.55 mg/L		0.018	38.55 mg/L	0.018	0.05%
K RADIAL†	12963.8	9.989 mg/L		0.0536	9.989 mg/L	0.0536	0.54%
Mg RADIAL†	840.9	9.192 mg/L		0.1256	9.192 mg/L	0.1256	1.37%
Na RADIAL†	1756265.3	132.9 mg/L		1.82	132.9 mg/L	1.82	1.37%

Sequence No.: 35

Sample ID: 14C1039-08

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 30

Date Collected: 4/1/2014 7:58:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1039-08

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16137309.6	4.875 mg/L		0.0407			0.84%
Y RADIAL	189688.7	5.127 mg/L		0.0108			0.21%
As 188.979†	-9.6	-0.0037 mg/L		0.00303	-0.0037 mg/L	0.00303	81.21%
Tl 190.801†	1.6	0.0004 mg/L		0.00240	0.0004 mg/L	0.00240	557.58%
Se 196.026†	3.2	0.0026 mg/L		0.00173	0.0026 mg/L	0.00173	65.58%
Zn 206.200†	1099.4	0.0224 mg/L		0.00057	0.0224 mg/L	0.00057	2.56%
Sb 206.836†	-6.1	-0.0015 mg/L		0.00163	-0.0015 mg/L	0.00163	111.75%
Pb 220.353†	-8.1	-0.0008 mg/L		0.00028	-0.0008 mg/L	0.00028	37.86%
Cd 226.502†	13.0	0.0001 mg/L		0.00002	0.0001 mg/L	0.00002	26.49%
Co 228.616†	6.7	0.0002 mg/L		0.00024	0.0002 mg/L	0.00024	102.12%
Ni 232.003†	16.0	0.0009 mg/L		0.00080	0.0009 mg/L	0.00080	94.01%
Ba 233.527†	6628.6	0.0595 mg/L		0.00016	0.0595 mg/L	0.00016	0.27%
Mn 257.610†	270694.2	0.4497 mg/L		0.00208	0.4497 mg/L	0.00208	0.46%
Cr 267.716†	15.6	0.0001 mg/L		0.00005	0.0001 mg/L	0.00005	33.13%
Fe 273.955†	1969.6	0.1292 mg/L		0.00117	0.1292 mg/L	0.00117	0.90%
Mg 279.077†	88962.4	6.744 mg/L		0.0360	6.744 mg/L	0.0360	0.53%
V 292.402†	-12.1	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	47.40%
Al 308.215†	321.6	0.0095 mg/L		0.00081	0.0095 mg/L	0.00081	8.51%
Be 313.107†	-107.7	0.0000 mg/L		0.00001	0.0000 mg/L	0.00001	33.76%
Cu 324.752†	-617.2	-0.0025 mg/L		0.00003	-0.0025 mg/L	0.00003	1.14%
Ag 338.289†	71.3	0.0001 mg/L		0.00015	0.0001 mg/L	0.00015	134.57%
Na 330.237†	83451.3	64.29 mg/L		0.343	64.29 mg/L	0.343	0.53%

Ca 227.546†	15920.3	28.05 mg/L	0.098	28.05 mg/L	0.098	0.35%
Al RADIAL†	0.3	0.0002 mg/L	0.00403	0.0002 mg/L	0.00403	>999.9%
Fe RADIAL†	7.6	0.1188 mg/L	0.03232	0.1188 mg/L	0.03232	27.20%
Ca RADIAL†	39228.5	29.41 mg/L	0.123	29.41 mg/L	0.123	0.42%
K RADIAL†	4455.7	3.433 mg/L	0.0175	3.433 mg/L	0.0175	0.51%
Mg RADIAL†	600.4	6.562 mg/L	0.0627	6.562 mg/L	0.0627	0.95%
Na RADIAL†	923326.1	69.87 mg/L	0.333	69.87 mg/L	0.333	0.48%

Sequence No.: 36

Sample ID: 14C1039-09

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 31

Date Collected: 4/1/2014 8:03:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1039-09

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15223841.6	4.599 mg/L	0.0160			0.35%
Y RADIAL	188062.2	5.083 mg/L	0.0514			1.01%
As 188.979†	-13.7	-0.0052 mg/L	0.00242	-0.0052 mg/L	0.00242	46.56%
Tl 190.801†	-15.0	-0.0039 mg/L	0.00113	-0.0039 mg/L	0.00113	28.75%
Se 196.026†	17.7	0.0148 mg/L	0.00212	0.0148 mg/L	0.00212	14.29%
Zn 206.200†	440.4	0.0089 mg/L	0.00020	0.0089 mg/L	0.00020	2.26%
Sb 206.836†	-7.4	-0.0018 mg/L	0.00072	-0.0018 mg/L	0.00072	40.66%
Pb 220.353†	-22.1	-0.0014 mg/L	0.00135	-0.0014 mg/L	0.00135	95.01%
Cd 226.502†	37.9	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	79.39%
Co 228.616†	98.8	0.0035 mg/L	0.00032	0.0035 mg/L	0.00032	9.02%
Ni 232.003†	475.7	0.0250 mg/L	0.00048	0.0250 mg/L	0.00048	1.91%
Ba 233.527†	26592.3	0.2387 mg/L	0.00221	0.2387 mg/L	0.00221	0.92%
Mn 257.610†	3656868.4	6.077 mg/L	0.0346	6.077 mg/L	0.0346	0.57%
Cr 267.716†	95.2	0.0009 mg/L	0.00018	0.0009 mg/L	0.00018	19.51%
Fe 273.955†	17014.1	1.116 mg/L	0.0116	1.116 mg/L	0.0116	1.04%
Mg 279.077†	314025.7	23.81 mg/L	0.139	23.81 mg/L	0.139	0.58%
V 292.402†	-125.3	-0.0005 mg/L	0.00021	-0.0005 mg/L	0.00021	40.58%
Al 308.215†	1427.8	0.0422 mg/L	0.00260	0.0422 mg/L	0.00260	6.17%
Be 313.107†	-729.4	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	4.94%
Cu 324.752†	-282.9	-0.0038 mg/L	0.00011	-0.0038 mg/L	0.00011	2.82%
Ag 338.289†	267.8	0.0001 mg/L	0.00016	0.0001 mg/L	0.00016	263.62%
Na 330.237†	516641.0	398.0 mg/L	4.55	398.0 mg/L	4.55	1.14%
Ca 227.546†	78915.1	139.0 mg/L	1.37	139.0 mg/L	1.37	0.98%
Al RADIAL†	13.1	0.0073 mg/L	0.00436	0.0073 mg/L	0.00436	59.67%
Fe RADIAL†	72.5	1.133 mg/L	0.0276	1.133 mg/L	0.0276	2.43%
Ca RADIAL†	180047.5	135.0 mg/L	0.11	135.0 mg/L	0.11	0.08%
K RADIAL†	13317.6	10.26 mg/L	0.055	10.26 mg/L	0.055	0.54%
Mg RADIAL†	2255.3	24.65 mg/L	0.340	24.65 mg/L	0.340	1.38%
Na RADIAL†	3988553.3	301.8 mg/L	4.00	301.8 mg/L	4.00	1.33%

Sequence No.: 37

Sample ID: 14C1039-10

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 32

Date Collected: 4/1/2014 8:08:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1039-10

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15502413.9	4.683 mg/L	0.0165			0.35%
Y RADIAL	188619.4	5.098 mg/L	0.0589			1.15%
As 188.979†	-13.0	-0.0051 mg/L	0.00107	-0.0051 mg/L	0.00107	20.89%
Tl 190.801†	-5.5	-0.0015 mg/L	0.00110	-0.0015 mg/L	0.00110	75.41%
Se 196.026†	8.4	0.0067 mg/L	0.00447	0.0067 mg/L	0.00447	67.11%
Zn 206.200†	1116.2	0.0227 mg/L	0.00025	0.0227 mg/L	0.00025	1.11%
Sb 206.836†	-6.9	-0.0017 mg/L	0.00024	-0.0017 mg/L	0.00024	14.62%
Pb 220.353†	-24.5	-0.0023 mg/L	0.00043	-0.0023 mg/L	0.00043	18.60%
Cd 226.502†	72.4	0.0006 mg/L	0.00005	0.0006 mg/L	0.00005	8.41%
Co 228.616†	7.9	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	24.66%
Ni 232.003†	279.7	0.0146 mg/L	0.00064	0.0146 mg/L	0.00064	4.37%
Ba 233.527†	6362.5	0.0571 mg/L	0.00043	0.0571 mg/L	0.00043	0.76%

Mn 257.610†	23830.1	0.0390 mg/L	0.00027	0.0390 mg/L	0.00027	0.70%
Cr 267.716†	-59.9	-0.0006 mg/L	0.00011	-0.0006 mg/L	0.00011	19.45%
Fe 273.955†	-9.3	-0.0006 mg/L	0.00069	-0.0006 mg/L	0.00069	112.33%
Mg 279.077†	447152.7	33.90 mg/L	0.386	33.90 mg/L	0.386	1.14%
V 292.402†	7.8	0.0000 mg/L	0.00018	0.0000 mg/L	0.00018	673.87%
Al 308.215†	1854.0	0.0557 mg/L	0.00354	0.0557 mg/L	0.00354	6.35%
Be 313.107†	4.1	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	>999.9%
Cu 324.752†	-269.6	-0.0028 mg/L	0.00013	-0.0028 mg/L	0.00013	4.64%
Ag 338.289†	143.8	0.0000 mg/L	0.00038	0.0000 mg/L	0.00038	>999.9%
Na 330.237†	325626.3	250.8 mg/L	5.19	250.8 mg/L	5.19	2.07%
Ca 227.546†	44070.8	77.64 mg/L	0.795	77.64 mg/L	0.795	1.02%
Al RADIAL†	63.4	0.0355 mg/L	0.00688	0.0355 mg/L	0.00688	19.38%
Fe RADIAL†	-1.1	-0.0173 mg/L	0.01707	-0.0173 mg/L	0.01707	98.88%
Ca RADIAL†	102553.9	76.90 mg/L	0.132	76.90 mg/L	0.132	0.17%
K RADIAL†	10936.9	8.427 mg/L	0.0254	8.427 mg/L	0.0254	0.30%
Mg RADIAL†	3037.0	33.20 mg/L	0.315	33.20 mg/L	0.315	0.95%
Na RADIAL†	2771712.7	209.7 mg/L	2.46	209.7 mg/L	2.46	1.17%

Sequence No.: 38

Sample ID: 14C1039-11

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 33

Date Collected: 4/1/2014 8:13:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1039-11

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16097966.7	4.863 mg/L		0.0457			0.94%
Y RADIAL	189083.6	5.110 mg/L		0.0286			0.56%
As 188.979†	-6.1	-0.0024 mg/L		0.00239	-0.0024 mg/L	0.00239	100.49%
Tl 190.801†	0.2	0.0001 mg/L		0.00111	0.0001 mg/L	0.00111	>999.9%
Se 196.026†	9.4	0.0075 mg/L		0.00495	0.0075 mg/L	0.00495	66.08%
Zn 206.200†	739.7	0.0150 mg/L		0.00012	0.0150 mg/L	0.00012	0.81%
Sb 206.836†	-0.1	0.0000 mg/L		0.00119	0.0000 mg/L	0.00119	>999.9%
Pb 220.353†	-8.0	-0.0008 mg/L		0.00038	-0.0008 mg/L	0.00038	45.69%
Cd 226.502†	154.1	0.0013 mg/L		0.00016	0.0013 mg/L	0.00016	12.53%
Co 228.616†	-2.0	-0.0001 mg/L		0.00013	-0.0001 mg/L	0.00013	177.91%
Ni 232.003†	69.2	0.0036 mg/L		0.00021	0.0036 mg/L	0.00021	5.80%
Ba 233.527†	2959.4	0.0266 mg/L		0.00039	0.0266 mg/L	0.00039	1.47%
Mn 257.610†	1029007.9	1.710 mg/L		0.0111	1.710 mg/L	0.0111	0.65%
Cr 267.716†	59.2	0.0006 mg/L		0.00008	0.0006 mg/L	0.00008	13.74%
Fe 273.955†	17.1	0.0011 mg/L		0.00077	0.0011 mg/L	0.00077	69.11%
Mg 279.077†	112857.2	8.556 mg/L		0.0877	8.556 mg/L	0.0877	1.02%
V 292.402†	-51.3	-0.0002 mg/L		0.00010	-0.0002 mg/L	0.00010	59.79%
Al 308.215†	604.1	0.0183 mg/L		0.00125	0.0183 mg/L	0.00125	6.82%
Be 313.107†	-221.4	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	30.22%
Cu 324.752†	-705.1	-0.0026 mg/L		0.00019	-0.0026 mg/L	0.00019	7.27%
Ag 338.289†	10.3	-0.0001 mg/L		0.00020	-0.0001 mg/L	0.00020	138.69%
Na 330.237†	112718.4	86.81 mg/L		1.195	86.81 mg/L	1.195	1.38%
Ca 227.546†	11059.7	19.49 mg/L		0.214	19.49 mg/L	0.214	1.10%
Al RADIAL†	0.1	0.0001 mg/L		0.00341	0.0001 mg/L	0.00341	>999.9%
Fe RADIAL†	-1.4	-0.0222 mg/L		0.02573	-0.0222 mg/L	0.02573	115.90%
Ca RADIAL†	26639.3	19.98 mg/L		0.091	19.98 mg/L	0.091	0.45%
K RADIAL†	2409.4	1.857 mg/L		0.0131	1.857 mg/L	0.0131	0.70%
Mg RADIAL†	739.5	8.083 mg/L		0.0656	8.083 mg/L	0.0656	0.81%
Na RADIAL†	1171604.1	88.66 mg/L		1.037	88.66 mg/L	1.037	1.17%

Sequence No.: 39

Sample ID: SEQ-SRD1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 34

Date Collected: 4/1/2014 8:18:04 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-SRD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16749694.7	5.060 mg/L		0.0247			0.49%
Y RADIAL	189151.7	5.112 mg/L		0.0256			0.50%

As 188.979†	-6.8	-0.0027 mg/L	0.00176	-0.0027 mg/L	0.00176	65.77%
Tl 190.801†	4.3	0.0012 mg/L	0.00102	0.0012 mg/L	0.00102	87.49%
Se 196.026†	4.5	0.0036 mg/L	0.00441	0.0036 mg/L	0.00441	122.22%
Zn 206.200†	215.8	0.0044 mg/L	0.00009	0.0044 mg/L	0.00009	2.15%
Sb 206.836†	-6.8	-0.0016 mg/L	0.00067	-0.0016 mg/L	0.00067	40.77%
Pb 220.353†	0.7	0.0001 mg/L	0.00077	0.0001 mg/L	0.00077	569.90%
Cd 226.502†	35.9	0.0003 mg/L	0.00006	0.0003 mg/L	0.00006	19.30%
Co 228.616†	1.7	0.0001 mg/L	0.00016	0.0001 mg/L	0.00016	261.22%
Ni 232.003†	36.0	0.0019 mg/L	0.00041	0.0019 mg/L	0.00041	21.98%
Ba 233.527†	560.0	0.0050 mg/L	0.00002	0.0050 mg/L	0.00002	0.33%
Mn 257.610†	202389.6	0.3363 mg/L	0.00484	0.3363 mg/L	0.00484	1.44%
Cr 267.716†	20.7	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	22.73%
Fe 273.955†	48.3	0.0032 mg/L	0.00060	0.0032 mg/L	0.00060	19.00%
Mg 279.077†	21312.9	1.616 mg/L	0.0173	1.616 mg/L	0.0173	1.07%
V 292.402†	-22.3	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	43.79%
Al 308.215†	188.5	0.0058 mg/L	0.00211	0.0058 mg/L	0.00211	36.73%
Be 313.107†	168.1	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	3.90%
Cu 324.752†	-1019.9	-0.0031 mg/L	0.00023	-0.0031 mg/L	0.00023	7.34%
Ag 338.289†	-83.5	-0.0005 mg/L	0.00012	-0.0005 mg/L	0.00012	23.42%
Na 330.237†	17456.1	13.44 mg/L	0.214	13.44 mg/L	0.214	1.59%
Ca 227.546†	2124.0	3.742 mg/L	0.0187	3.742 mg/L	0.0187	0.50%
Al RADIAL†	13.6	0.0076 mg/L	0.00508	0.0076 mg/L	0.00508	66.53%
Fe RADIAL†	-0.3	-0.0041 mg/L	0.00835	-0.0041 mg/L	0.00835	201.29%
Ca RADIAL†	5380.4	4.034 mg/L	0.0460	4.034 mg/L	0.0460	1.14%
K RADIAL†	524.4	0.4041 mg/L	0.01160	0.4041 mg/L	0.01160	2.87%
Mg RADIAL†	144.8	1.583 mg/L	0.0062	1.583 mg/L	0.0062	0.39%
Na RADIAL†	238048.2	18.01 mg/L	0.063	18.01 mg/L	0.063	0.35%

Sequence No.: 40

Sample ID: BD40038-BLK1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 35

Date Collected: 4/1/2014 8:22:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40038-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16307004.5	4.927 mg/L	0.0100			0.20%
Y RADIAL	180451.8	4.877 mg/L	0.0816			1.67%
As 188.979†	-6.2	-0.0024 mg/L	0.00237	-0.0024 mg/L	0.00237	98.06%
Tl 190.801†	3.7	0.0010 mg/L	0.00225	0.0010 mg/L	0.00225	226.22%
Se 196.026†	5.1	0.0040 mg/L	0.00177	0.0040 mg/L	0.00177	43.79%
Zn 206.200†	-16.4	-0.0003 mg/L	0.00004	-0.0003 mg/L	0.00004	13.28%
Sb 206.836†	-10.5	-0.0025 mg/L	0.00067	-0.0025 mg/L	0.00067	26.61%
Pb 220.353†	-1.6	-0.0002 mg/L	0.00054	-0.0002 mg/L	0.00054	254.89%
Cd 226.502†	-6.9	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011	196.02%
Co 228.616†	4.3	0.0002 mg/L	0.00024	0.0002 mg/L	0.00024	156.64%
Ni 232.003†	9.8	0.0005 mg/L	0.00043	0.0005 mg/L	0.00043	85.14%
Ba 233.527†	-1.2	0.0000 mg/L	0.00011	0.0000 mg/L	0.00011	997.42%
Mn 257.610†	15.7	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	18.56%
Cr 267.716†	4.4	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	53.25%
Fe 273.955†	-0.8	-0.0001 mg/L	0.00082	-0.0001 mg/L	0.00082	>999.9%
Mg 279.077†	-8.2	-0.0006 mg/L	0.00083	-0.0006 mg/L	0.00083	133.00%
V 292.402†	14.5	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	26.92%
Al 308.215†	103.3	0.0032 mg/L	0.00387	0.0032 mg/L	0.00387	121.12%
Be 313.107†	-89.2	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	75.31%
Cu 324.752†	-985.9	-0.0029 mg/L	0.00010	-0.0029 mg/L	0.00010	3.28%
Ag 338.289†	-14.6	-0.0001 mg/L	0.00059	-0.0001 mg/L	0.00059	703.09%
Na 330.237†	-24.3	-0.0187 mg/L	0.00726	-0.0187 mg/L	0.00726	38.73%
Ca 227.546†	-2.6	-0.0045 mg/L	0.02438	-0.0045 mg/L	0.02438	540.07%
Al RADIAL†	-6.5	-0.0036 mg/L	0.00408	-0.0036 mg/L	0.00408	112.87%
Fe RADIAL†	-1.9	-0.0300 mg/L	0.01178	-0.0300 mg/L	0.01178	39.25%
Ca RADIAL†	14.8	0.0111 mg/L	0.00550	0.0111 mg/L	0.00550	49.67%
K RADIAL†	-4.6	-0.0035 mg/L	0.01368	-0.0035 mg/L	0.01368	387.39%
Mg RADIAL†	-0.1	-0.0013 mg/L	0.00964	-0.0013 mg/L	0.00964	734.93%
Na RADIAL†	146.4	0.0111 mg/L	0.00466	0.0111 mg/L	0.00466	42.07%

Sequence No.: 41

Sample ID: BD40038-SRM1

Autosampler Location: 36

Date Collected: 4/1/2014 8:27:46 PM

Analyst: MW
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BD40038-SRM1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	17336105.9	5.237 mg/L		0.0201			0.38%
Y RADIAL	194068.7	5.245 mg/L		0.0170			0.32%
As 188.979†	815.6	0.3205 mg/L		0.00246	0.3205 mg/L	0.00246	0.77%
Tl 190.801†	1343.9	0.3610 mg/L		0.00290	0.3610 mg/L	0.00290	0.80%
Se 196.026†	434.5	0.3458 mg/L		0.00475	0.3458 mg/L	0.00475	1.37%
Zn 206.200†	83519.2	1.699 mg/L		0.0114	1.699 mg/L	0.0114	0.67%
Sb 206.836†	1826.0	0.4367 mg/L		0.00428	0.4367 mg/L	0.00428	0.98%
Pb 220.353†	3959.5	0.5234 mg/L		0.00361	0.5234 mg/L	0.00361	0.69%
Cd 226.502†	10120.9	0.0831 mg/L		0.00095	0.0831 mg/L	0.00095	1.14%
Co 228.616†	10216.1	0.3630 mg/L		0.00182	0.3630 mg/L	0.00182	0.50%
Ni 232.003†	28244.2	1.474 mg/L		0.0139	1.474 mg/L	0.0139	0.94%
Ba 233.527†	134075.4	1.204 mg/L		0.0052	1.204 mg/L	0.0052	0.43%
Mn 257.610†	1066196.9	1.772 mg/L		0.0069	1.772 mg/L	0.0069	0.39%
Cr 267.716†	68468.5	0.6533 mg/L		0.00459	0.6533 mg/L	0.00459	0.70%
Fe 273.955†	23207.1	1.523 mg/L		0.0113	1.523 mg/L	0.0113	0.75%
Mg 279.077†	-148.6	-0.0112 mg/L		0.00274	-0.0112 mg/L	0.00274	24.47%
V 292.402†	437503.4	1.452 mg/L		0.0088	1.452 mg/L	0.0088	0.60%
Al 308.215†	13516.7	0.4184 mg/L		0.00365	0.4184 mg/L	0.00365	0.87%
Be 313.107†	278381.9	0.0715 mg/L		0.00035	0.0715 mg/L	0.00035	0.48%
Cu 324.752†	171038.1	0.5050 mg/L		0.00329	0.5050 mg/L	0.00329	0.65%
Ag 338.289†	35006.0	0.1994 mg/L		0.00131	0.1994 mg/L	0.00131	0.66%
Na 330.237†	1666.7	1.291 mg/L		0.0557	1.291 mg/L	0.0557	4.32%
Ca 227.546†	37.4	0.0732 mg/L		0.01617	0.0732 mg/L	0.01617	22.09%
Al RADIAL†	796.9	0.4458 mg/L		0.00526	0.4458 mg/L	0.00526	1.18%
Fe RADIAL†	94.4	1.475 mg/L		0.0449	1.475 mg/L	0.0449	3.04%
Ca RADIAL†	-8.4	-0.0063 mg/L		0.00418	-0.0063 mg/L	0.00418	66.30%
K RADIAL†	9.5	0.0073 mg/L		0.00613	0.0073 mg/L	0.00613	83.53%
Mg RADIAL†	-0.6	-0.0067 mg/L		0.00790	-0.0067 mg/L	0.00790	117.63%
Na RADIAL†	85.5	0.0065 mg/L		0.00187	0.0065 mg/L	0.00187	28.85%

Sequence No.: 42

Sample ID: BD40038-SRM2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 4/1/2014 8:35:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40038-SRM2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	14958569.9	4.519 mg/L		0.0580			1.28%
Y RADIAL	178223.2	4.817 mg/L		0.0193			0.40%
As 188.979†	-10.1	-0.0040 mg/L		0.00393	-0.0040 mg/L	0.00393	99.24%
Tl 190.801†	-1.3	-0.0003 mg/L		0.00134	-0.0003 mg/L	0.00134	397.32%
Se 196.026†	-2.1	-0.0017 mg/L		0.00437	-0.0017 mg/L	0.00437	260.45%
Zn 206.200†	20.1	0.0004 mg/L		0.00004	0.0004 mg/L	0.00004	10.17%
Sb 206.836†	-0.5	-0.0001 mg/L		0.00089	-0.0001 mg/L	0.00089	725.39%
Pb 220.353†	-19.6	-0.0019 mg/L		0.00119	-0.0019 mg/L	0.00119	63.80%
Cd 226.502†	-4.8	0.0000 mg/L		0.00013	0.0000 mg/L	0.00013	319.52%
Co 228.616†	6.0	0.0002 mg/L		0.00028	0.0002 mg/L	0.00028	133.98%
Ni 232.003†	-49.9	-0.0026 mg/L		0.00145	-0.0026 mg/L	0.00145	55.72%
Ba 233.527†	53.0	0.0005 mg/L		0.00044	0.0005 mg/L	0.00044	91.85%
Mn 257.610†	277.5	-0.0001 mg/L		0.00004	-0.0001 mg/L	0.00004	39.05%
Cr 267.716†	-32.0	-0.0003 mg/L		0.00029	-0.0003 mg/L	0.00029	95.91%
Fe 273.955†	10.8	0.0007 mg/L		0.00044	0.0007 mg/L	0.00044	62.71%
Mg 279.077†	395256.8	29.97 mg/L		0.250	29.97 mg/L	0.250	0.83%
V 292.402†	-8.4	0.0000 mg/L		0.00008	0.0000 mg/L	0.00008	288.03%
Al 308.215†	1938.3	0.0586 mg/L		0.00322	0.0586 mg/L	0.00322	5.49%
Be 313.107†	-507.1	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	24.13%
Cu 324.752†	-284.5	-0.0024 mg/L		0.00010	-0.0024 mg/L	0.00010	4.00%
Ag 338.289†	184.9	0.0004 mg/L		0.00024	0.0004 mg/L	0.00024	58.67%
Na 330.237†	110255.3	84.98 mg/L		0.932	84.98 mg/L	0.932	1.10%
Ca 227.546†	34913.3	61.51 mg/L		0.597	61.51 mg/L	0.597	0.97%

Al RADIAL†	73.8	0.0413 mg/L	0.00383	0.0413 mg/L	0.00383	9.28%
Fe RADIAL†	-0.8	-0.0123 mg/L	0.01811	-0.0123 mg/L	0.01811	147.23%
Ca RADIAL†	83592.1	62.68 mg/L	0.143	62.68 mg/L	0.143	0.23%
K RADIAL†	42920.2	33.07 mg/L	0.031	33.07 mg/L	0.031	0.09%
Mg RADIAL†	2623.9	28.68 mg/L	0.138	28.68 mg/L	0.138	0.48%
Na RADIAL†	1115491.6	84.41 mg/L	0.381	84.41 mg/L	0.381	0.45%

Sequence No.: 43

Sample ID: 14C0922-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 38

Date Collected: 4/1/2014 8:40:43 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0922-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	14758997.2	4.459 mg/L	0.0246			0.55%
Y RADIAL	183621.6	4.963 mg/L	0.0394			0.79%
As 188.979†	-13.7	-0.0051 mg/L	0.00440	-0.0051 mg/L	0.00440	85.87%
Tl 190.801†	-13.0	-0.0034 mg/L	0.00135	-0.0034 mg/L	0.00135	40.13%
Se 196.026†	15.7	0.0136 mg/L	0.00547	0.0136 mg/L	0.00547	40.19%
Zn 206.200†	14849.9	0.3020 mg/L	0.00322	0.3020 mg/L	0.00322	1.07%
Sb 206.836†	8.4	0.0020 mg/L	0.00135	0.0020 mg/L	0.00135	67.45%
Pb 220.353†	-33.7	-0.0015 mg/L	0.00280	-0.0015 mg/L	0.00280	185.69%
Cd 226.502†	14658.2	0.1205 mg/L	0.00098	0.1205 mg/L	0.00098	0.82%
Co 228.616†	202.8	0.0072 mg/L	0.00026	0.0072 mg/L	0.00026	3.62%
Ni 232.003†	5875.0	0.3067 mg/L	0.00263	0.3067 mg/L	0.00263	0.86%
Ba 233.527†	15957.5	0.1433 mg/L	0.00087	0.1433 mg/L	0.00087	0.61%
Mn 257.610†	249436.5	0.4134 mg/L	0.00249	0.4134 mg/L	0.00249	0.60%
Cr 267.716†	2163.0	0.0206 mg/L	0.00026	0.0206 mg/L	0.00026	1.28%
Fe 273.955†	25132.3	1.649 mg/L	0.0166	1.649 mg/L	0.0166	1.01%
Mg 279.077†	836863.2	63.44 mg/L	0.454	63.44 mg/L	0.454	0.72%
V 292.402†	461.9	0.0014 mg/L	0.00008	0.0014 mg/L	0.00008	5.67%
Al 308.215†	17098.1	0.5248 mg/L	0.00184	0.5248 mg/L	0.00184	0.35%
Be 313.107†	-695.3	-0.0002 mg/L	0.00002	-0.0002 mg/L	0.00002	10.56%
Cu 324.752†	2637.8	0.0018 mg/L	0.00021	0.0018 mg/L	0.00021	11.10%
Ag 338.289†	390.1	-0.0006 mg/L	0.00019	-0.0006 mg/L	0.00019	32.81%
Na 330.237†	486723.1	375.1 mg/L	2.54	375.1 mg/L	2.54	0.68%
Ca 227.546†	150392.4	265.0 mg/L	1.97	265.0 mg/L	1.97	0.74%
Al RADIAL†	973.4	0.5445 mg/L	0.00589	0.5445 mg/L	0.00589	1.08%
Fe RADIAL†	105.4	1.647 mg/L	0.0135	1.647 mg/L	0.0135	0.82%
Ca RADIAL†	339068.5	254.2 mg/L	0.52	254.2 mg/L	0.52	0.20%
K RADIAL†	19206.2	14.80 mg/L	0.015	14.80 mg/L	0.015	0.10%
Mg RADIAL†	5811.2	63.52 mg/L	0.428	63.52 mg/L	0.428	0.67%
Na RADIAL†	3713435.5	281.0 mg/L	0.89	281.0 mg/L	0.89	0.32%

Sequence No.: 44

Sample ID: SEQ-CCV4

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 4/1/2014 8:45:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV4

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15942181.2	4.816 mg/L	0.0284			0.59%
Y RADIAL	184786.9	4.994 mg/L	0.0577			1.16%
As 188.979†	633.7	0.2496 mg/L	0.00429	0.2496 mg/L	0.00429	1.72%
Tl 190.801†	971.8	0.2615 mg/L	0.00306	0.2615 mg/L	0.00306	1.17%
Se 196.026†	314.4	0.2531 mg/L	0.00205	0.2531 mg/L	0.00205	0.81%
Zn 206.200†	128494.5	2.613 mg/L	0.0193	2.613 mg/L	0.0193	0.74%
Sb 206.836†	1070.5	0.2559 mg/L	0.00294	0.2559 mg/L	0.00294	1.15%
Pb 220.353†	1922.0	0.2546 mg/L	0.00192	0.2546 mg/L	0.00192	0.75%
Cd 226.502†	15652.7	0.1280 mg/L	0.00102	0.1280 mg/L	0.00102	0.80%
Co 228.616†	72146.1	2.563 mg/L	0.0174	2.563 mg/L	0.0174	0.68%
Ni 232.003†	48376.6	2.524 mg/L	0.0140	2.524 mg/L	0.0140	0.55%
Ba 233.527†	1143486.2	10.27 mg/L	0.041	10.27 mg/L	0.041	0.40%
Mn 257.610†	1524015.1	2.532 mg/L	0.0081	2.532 mg/L	0.0081	0.32%

Cr 267.716†	109356.4	1.044 mg/L	0.0080	1.044 mg/L	0.0080	0.76%
Fe 273.955†	78568.9	5.155 mg/L	0.0331	5.155 mg/L	0.0331	0.64%
Mg 279.077†	330318.3	25.04 mg/L	0.104	25.04 mg/L	0.104	0.42%
V 292.402†	753203.4	2.499 mg/L	0.0127	2.499 mg/L	0.0127	0.51%
Al 308.215†	307198.6	9.506 mg/L	0.0428	9.506 mg/L	0.0428	0.45%
Be 313.107†	966809.3	0.2483 mg/L	0.00028	0.2483 mg/L	0.00028	0.11%
Cu 324.752†	413595.0	1.220 mg/L	0.0039	1.220 mg/L	0.0039	0.32%
Ag 338.289†	215441.0	1.227 mg/L	0.0022	1.227 mg/L	0.0022	0.18%
Na 330.237†	30209.8	23.32 mg/L	0.100	23.32 mg/L	0.100	0.43%
Ca 227.546†	13451.2	23.73 mg/L	0.216	23.73 mg/L	0.216	0.91%
Al RADIAL†	17510.7	9.795 mg/L	0.0317	9.795 mg/L	0.0317	0.32%
Fe RADIAL†	314.9	4.921 mg/L	0.0632	4.921 mg/L	0.0632	1.28%
Ca RADIAL†	32880.7	24.66 mg/L	0.046	24.66 mg/L	0.046	0.19%
K RADIAL†	6268.4	4.830 mg/L	0.0479	4.830 mg/L	0.0479	0.99%
Mg RADIAL†	2266.3	24.77 mg/L	0.346	24.77 mg/L	0.346	1.40%
Na RADIAL†	326617.7	24.72 mg/L	0.576	24.72 mg/L	0.576	2.33%

Sequence No.: 45

Sample ID: SEQ-CCB4

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 4/1/2014 8:53:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB4

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	16722308.3	5.052 mg/L		0.0238			0.47%
Y RADIAL	182238.5	4.925 mg/L		0.0211			0.43%
As 188.979†	-8.0	-0.0031 mg/L		0.00076	-0.0031 mg/L	0.00076	24.23%
Tl 190.801†	0.6	0.0002 mg/L		0.00118	0.0002 mg/L	0.00118	766.26%
Se 196.026†	0.6	0.0005 mg/L		0.00312	0.0005 mg/L	0.00312	647.25%
Zn 206.200†	-14.4	-0.0003 mg/L		0.00020	-0.0003 mg/L	0.00020	67.11%
Sb 206.836†	-3.0	-0.0007 mg/L		0.00104	-0.0007 mg/L	0.00104	145.21%
Pb 220.353†	-10.0	-0.0013 mg/L		0.00021	-0.0013 mg/L	0.00021	15.53%
Cd 226.502†	12.0	0.0001 mg/L		0.00002	0.0001 mg/L	0.00002	19.57%
Co 228.616†	10.8	0.0004 mg/L		0.00033	0.0004 mg/L	0.00033	87.05%
Ni 232.003†	26.4	0.0014 mg/L		0.00036	0.0014 mg/L	0.00036	25.85%
Ba 233.527†	4.8	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	41.67%
Mn 257.610†	-4.8	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	279.99%
Cr 267.716†	-3.7	0.0000 mg/L		0.00014	0.0000 mg/L	0.00014	394.72%
Fe 273.955†	-0.0	0.0000 mg/L		0.00018	0.0000 mg/L	0.00018	>999.9%
Mg 279.077†	-18.2	-0.0014 mg/L		0.00091	-0.0014 mg/L	0.00091	66.25%
V 292.402†	6.0	0.0000 mg/L		0.00008	0.0000 mg/L	0.00008	396.72%
Al 308.215†	-87.7	-0.0027 mg/L		0.00436	-0.0027 mg/L	0.00436	160.80%
Be 313.107†	96.2	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	98.35%
Cu 324.752†	-508.4	-0.0015 mg/L		0.00026	-0.0015 mg/L	0.00026	17.28%
Ag 338.289†	28.5	0.0002 mg/L		0.00029	0.0002 mg/L	0.00029	177.15%
Na 330.237†	-67.7	-0.0521 mg/L		0.02561	-0.0521 mg/L	0.02561	49.14%
Ca 227.546†	-6.2	-0.0110 mg/L		0.03977	-0.0110 mg/L	0.03977	362.13%
Al RADIAL†	-4.9	-0.0027 mg/L		0.00331	-0.0027 mg/L	0.00331	121.19%
Fe RADIAL†	1.0	0.0149 mg/L		0.02067	0.0149 mg/L	0.02067	138.98%
Ca RADIAL†	3.9	0.0029 mg/L		0.00213	0.0029 mg/L	0.00213	73.57%
K RADIAL†	-6.0	-0.0046 mg/L		0.00183	-0.0046 mg/L	0.00183	39.78%
Mg RADIAL†	1.9	0.0213 mg/L		0.02534	0.0213 mg/L	0.02534	119.15%
Na RADIAL†	-787.2	-0.0596 mg/L		0.00237	-0.0596 mg/L	0.00237	3.98%

Sequence No.: 46

Sample ID: 14C0922-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 39

Date Collected: 4/1/2014 8:58:35 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0922-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	13748732.4	4.154 mg/L		0.0121			0.29%
Y RADIAL	182680.2	4.937 mg/L		0.0110			0.22%
As 188.979†	-17.6	-0.0065 mg/L		0.00196	-0.0065 mg/L	0.00196	30.39%

Tl 190.801†	-21.3	-0.0055 mg/L	0.00217	-0.0055 mg/L	0.00217	39.71%
Se 196.026†	15.3	0.0143 mg/L	0.00315	0.0143 mg/L	0.00315	22.01%
Zn 206.200†	1424.4	0.0288 mg/L	0.00031	0.0288 mg/L	0.00031	1.08%
Sb 206.836†	3.4	0.0008 mg/L	0.00200	0.0008 mg/L	0.00200	252.08%
Pb 220.353†	4.8	0.0033 mg/L	0.00228	0.0033 mg/L	0.00228	68.23%
Cd 226.502†	566.9	0.0041 mg/L	0.00010	0.0041 mg/L	0.00010	2.51%
Co 228.616†	144.3	0.0051 mg/L	0.00037	0.0051 mg/L	0.00037	7.15%
Ni 232.003†	451.2	0.0240 mg/L	0.00032	0.0240 mg/L	0.00032	1.33%
Ba 233.527†	24341.8	0.2185 mg/L	0.00380	0.2185 mg/L	0.00380	1.74%
Mn 257.610†	5745645.2	9.548 mg/L	0.0145	9.548 mg/L	0.0145	0.15%
Cr 267.716†	600.2	0.0057 mg/L	0.00013	0.0057 mg/L	0.00013	2.18%
Fe 273.955†	46566.1	3.055 mg/L	0.0415	3.055 mg/L	0.0415	1.36%
Mg 279.077†	317502.5	24.07 mg/L	0.070	24.07 mg/L	0.070	0.29%
V 292.402†	176.2	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	7.01%
Al 308.215†	13780.0	0.4232 mg/L	0.00516	0.4232 mg/L	0.00516	1.22%
Be 313.107†	-1023.2	-0.0003 mg/L	0.00004	-0.0003 mg/L	0.00004	14.35%
Cu 324.752†	3859.0	0.0061 mg/L	0.00010	0.0061 mg/L	0.00010	1.61%
Ag 338.289†	523.5	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	62.20%
Na 330.237†	2430950.9	1872 mg/L	1.2	1872 mg/L	1.2	0.06%
Ca 227.546†	148247.8	261.2 mg/L	5.39	261.2 mg/L	5.39	2.06%
Al RADIAL†	604.8	0.3383 mg/L	0.00284	0.3383 mg/L	0.00284	0.84%
Fe RADIAL†	187.3	2.927 mg/L	0.0425	2.927 mg/L	0.0425	1.45%
Ca RADIAL†	307652.6	230.7 mg/L	0.61	230.7 mg/L	0.61	0.26%
K RADIAL†	19237.7	14.82 mg/L	0.062	14.82 mg/L	0.062	0.42%
Mg RADIAL†	2302.7	25.17 mg/L	0.074	25.17 mg/L	0.074	0.29%
Na RADIAL†	9624594.7	728.3 mg/L	3.73	728.3 mg/L	3.73	0.51%

Sequence No.: 47

Sample ID: 14C0922-03

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 40

Date Collected: 4/1/2014 9:03:43 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0922-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	13531973.2	4.088 mg/L		0.0210			0.51%
Y RADIAL	176018.9	4.757 mg/L		0.0238			0.50%
As 188.979†	-16.7	-0.0065 mg/L		0.00088	-0.0065 mg/L	0.00088	13.56%
Tl 190.801†	-4.3	-0.0011 mg/L		0.00059	-0.0011 mg/L	0.00059	52.57%
Se 196.026†	10.0	0.0082 mg/L		0.00622	0.0082 mg/L	0.00622	75.90%
Zn 206.200†	1081.3	0.0220 mg/L		0.00025	0.0220 mg/L	0.00025	1.12%
Sb 206.836†	8.0	0.0019 mg/L		0.00211	0.0019 mg/L	0.00211	110.99%
Pb 220.353†	-57.7	-0.0017 mg/L		0.00044	-0.0017 mg/L	0.00044	25.60%
Cd 226.502†	24.9	0.0001 mg/L		0.00010	0.0001 mg/L	0.00010	84.43%
Co 228.616†	30.3	0.0011 mg/L		0.00013	0.0011 mg/L	0.00013	12.33%
Ni 232.003†	86.5	0.0046 mg/L		0.00043	0.0046 mg/L	0.00043	9.47%
Ba 233.527†	22126.8	0.1986 mg/L		0.00170	0.1986 mg/L	0.00170	0.85%
Mn 257.610†	663789.5	1.102 mg/L		0.0018	1.102 mg/L	0.0018	0.16%
Cr 267.716†	10.2	0.0001 mg/L		0.00015	0.0001 mg/L	0.00015	155.78%
Fe 273.955†	6584.0	0.4320 mg/L		0.00922	0.4320 mg/L	0.00922	2.13%
Mg 279.077†	758792.0	57.52 mg/L		0.049	57.52 mg/L	0.049	0.09%
V 292.402†	280.0	0.0009 mg/L		0.00005	0.0009 mg/L	0.00005	5.12%
Al 308.215†	10132.9	0.3066 mg/L		0.00606	0.3066 mg/L	0.00606	1.98%
Be 313.107†	-1224.5	-0.0003 mg/L		0.00001	-0.0003 mg/L	0.00001	4.32%
Cu 324.752†	2036.0	-0.0046 mg/L		0.00016	-0.0046 mg/L	0.00016	3.42%
Ag 338.289†	947.9	0.0001 mg/L		0.00044	0.0001 mg/L	0.00044	441.74%
Na 330.237†	2137076.3	1646 mg/L		3.9	1646 mg/L	3.9	0.24%
Ca 227.546†	285726.5	503.4 mg/L		1.72	503.4 mg/L	1.72	0.34%
Al RADIAL†	468.3	0.2620 mg/L		0.00942	0.2620 mg/L	0.00942	3.60%
Fe RADIAL†	26.6	0.4161 mg/L		0.06269	0.4161 mg/L	0.06269	15.07%
Ca RADIAL†	599257.4	449.3 mg/L		1.00	449.3 mg/L	1.00	0.22%
K RADIAL†	21234.9	16.36 mg/L		0.041	16.36 mg/L	0.041	0.25%
Mg RADIAL†	5420.4	59.25 mg/L		0.179	59.25 mg/L	0.179	0.30%
Na RADIAL†	9210542.7	697.0 mg/L		2.70	697.0 mg/L	2.70	0.39%

Sequence No.: 48

Sample ID: 14C0922-04

Analyst: MW

Autosampler Location: 41

Date Collected: 4/1/2014 9:08:49 PM

Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 14C0922-04

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	14681295.3	4.435 mg/L	0.0524			1.18%
Y RADIAL	179587.3	4.854 mg/L	0.0417			0.86%
As 188.979†	-2.8	-0.0008 mg/L	0.00311	-0.0008 mg/L	0.00311	390.07%
Tl 190.801†	-3.2	-0.0007 mg/L	0.00174	-0.0007 mg/L	0.00174	254.74%
Se 196.026†	6.3	0.0063 mg/L	0.00271	0.0063 mg/L	0.00271	42.73%
Zn 206.200†	14001.6	0.2847 mg/L	0.00258	0.2847 mg/L	0.00258	0.91%
Sb 206.836†	-3.7	-0.0009 mg/L	0.00130	-0.0009 mg/L	0.00130	144.70%
Pb 220.353†	-27.5	-0.0006 mg/L	0.00118	-0.0006 mg/L	0.00118	188.64%
Cd 226.502†	12536.7	0.1030 mg/L	0.00163	0.1030 mg/L	0.00163	1.58%
Co 228.616†	223.0	0.0079 mg/L	0.00038	0.0079 mg/L	0.00038	4.79%
Ni 232.003†	6115.6	0.3193 mg/L	0.00322	0.3193 mg/L	0.00322	1.01%
Ba 233.527†	16448.6	0.1477 mg/L	0.00142	0.1477 mg/L	0.00142	0.96%
Mn 257.610†	284176.5	0.4712 mg/L	0.00591	0.4712 mg/L	0.00591	1.25%
Cr 267.716†	1548.7	0.0148 mg/L	0.00046	0.0148 mg/L	0.00046	3.13%
Fe 273.955†	29574.6	1.940 mg/L	0.0146	1.940 mg/L	0.0146	0.75%
Mg 279.077†	858468.1	65.08 mg/L	0.824	65.08 mg/L	0.824	1.27%
V 292.402†	651.2	0.0020 mg/L	0.00017	0.0020 mg/L	0.00017	8.52%
Al 308.215†	33767.0	1.041 mg/L	0.0116	1.041 mg/L	0.0116	1.12%
Be 313.107†	-835.5	-0.0002 mg/L	0.00002	-0.0002 mg/L	0.00002	10.86%
Cu 324.752†	2444.4	0.0012 mg/L	0.00010	0.0012 mg/L	0.00010	8.16%
Ag 338.289†	419.0	-0.0005 mg/L	0.00013	-0.0005 mg/L	0.00013	28.20%
Na 330.237†	505051.1	389.3 mg/L	5.11	389.3 mg/L	5.11	1.31%
Ca 227.546†	152973.9	269.5 mg/L	3.94	269.5 mg/L	3.94	1.46%
Al RADIAL†	1957.0	1.095 mg/L	0.0080	1.095 mg/L	0.0080	0.73%
Fe RADIAL†	121.5	1.898 mg/L	0.0452	1.898 mg/L	0.0452	2.38%
Ca RADIAL†	344640.1	258.4 mg/L	0.15	258.4 mg/L	0.15	0.06%
K RADIAL†	19632.0	15.13 mg/L	0.049	15.13 mg/L	0.049	0.32%
Mg RADIAL†	5949.1	65.03 mg/L	0.564	65.03 mg/L	0.564	0.87%
Na RADIAL†	3787434.4	286.6 mg/L	1.90	286.6 mg/L	1.90	0.66%

Sequence No.: 49

Sample ID: 14C0941-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 42

Date Collected: 4/1/2014 9:13:47 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0941-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	11987687.6	3.622 mg/L	0.0312			0.86%
Y RADIAL	165052.7	4.461 mg/L	0.0178			0.40%
As 188.979†	-8.4	-0.0025 mg/L	0.00472	-0.0025 mg/L	0.00472	188.26%
Tl 190.801†	-12.6	-0.0029 mg/L	0.00153	-0.0029 mg/L	0.00153	52.44%
Se 196.026†	5.8	0.0084 mg/L	0.00274	0.0084 mg/L	0.00274	32.60%
Zn 206.200†	1880.3	0.0379 mg/L	0.00016	0.0379 mg/L	0.00016	0.41%
Sb 206.836†	3.9	0.0009 mg/L	0.00127	0.0009 mg/L	0.00127	140.43%
Pb 220.353†	-31.7	0.0045 mg/L	0.00061	0.0045 mg/L	0.00061	13.65%
Cd 226.502†	181.1	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	5.09%
Co 228.616†	870.7	0.0309 mg/L	0.00037	0.0309 mg/L	0.00037	1.21%
Ni 232.003†	81.2	0.0051 mg/L	0.00027	0.0051 mg/L	0.00027	5.24%
Ba 233.527†	40177.1	0.3607 mg/L	0.00237	0.3607 mg/L	0.00237	0.66%
Mn 257.610†	5578866.0	9.265 mg/L	0.0098	9.265 mg/L	0.0098	0.11%
Cr 267.716†	1176.0	0.0112 mg/L	0.00007	0.0112 mg/L	0.00007	0.60%
Fe 273.955†	82116.1	5.388 mg/L	0.0304	5.388 mg/L	0.0304	0.56%
Mg 279.077†	4149927.7	314.6 mg/L	0.36	314.6 mg/L	0.36	0.11%
V 292.402†	1045.6	0.0030 mg/L	0.00007	0.0030 mg/L	0.00007	2.41%
Al 308.215†	87331.4	2.687 mg/L	0.0249	2.687 mg/L	0.0249	0.93%
Be 313.107†	-1362.3	-0.0003 mg/L	0.00008	-0.0003 mg/L	0.00008	22.84%
Cu 324.752†	10021.3	0.0105 mg/L	0.00040	0.0105 mg/L	0.00040	3.79%
Ag 338.289†	1413.6	-0.0001 mg/L	0.00035	-0.0001 mg/L	0.00035	327.57%
Na 330.237†	6419241.0	4943 mg/L	18.0	4943 mg/L	18.0	0.36%
Ca 227.546†	439805.8	774.9 mg/L	6.72	774.9 mg/L	6.72	0.87%
Al RADIAL†	3814.8	2.134 mg/L	0.0261	2.134 mg/L	0.0261	1.22%

Fe RADIAL†	335.9	5.249 mg/L	0.0335	5.249 mg/L	0.0335	0.64%
Ca RADIAL†	788084.9	590.9 mg/L	0.16	590.9 mg/L	0.16	0.03%
K RADIAL†	114972.6	88.59 mg/L	0.374	88.59 mg/L	0.374	0.42%
Mg RADIAL†	28621.2	312.8 mg/L	0.64	312.8 mg/L	0.64	0.20%
Na RADIAL†	11443259.8	865.9 mg/L	5.01	865.9 mg/L	5.01	0.58%

Sequence No.: 50

Sample ID: 14C0941-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 43

Date Collected: 4/1/2014 9:18:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0941-02

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	11381365.7	3.438 mg/L	0.0179			0.52%
Y RADIAL	158021.3	4.271 mg/L	0.0331			0.77%
As 188.979†	3.7	0.0041 mg/L	0.00525	0.0041 mg/L	0.00525	127.57%
Tl 190.801†	-32.7	-0.0073 mg/L	0.00067	-0.0073 mg/L	0.00067	9.25%
Se 196.026†	-7.6	0.0067 mg/L	0.00375	0.0067 mg/L	0.00375	55.94%
Zn 206.200†	9005.8	0.1822 mg/L	0.00163	0.1822 mg/L	0.00163	0.89%
Sb 206.836†	12.5	0.0029 mg/L	0.00439	0.0029 mg/L	0.00439	150.58%
Pb 220.353†	1601.1	0.2166 mg/L	0.00178	0.2166 mg/L	0.00178	0.82%
Cd 226.502†	561.9	0.0012 mg/L	0.00026	0.0012 mg/L	0.00026	21.77%
Co 228.616†	532.2	0.0189 mg/L	0.00029	0.0189 mg/L	0.00029	1.54%
Ni 232.003†	1200.5	0.0656 mg/L	0.00148	0.0656 mg/L	0.00148	2.26%
Ba 233.527†	29024.6	0.2606 mg/L	0.00108	0.2606 mg/L	0.00108	0.41%
Mn 257.610†	5305629.4	8.809 mg/L	0.0517	8.809 mg/L	0.0517	0.59%
Cr 267.716†	12289.5	0.1173 mg/L	0.00014	0.1173 mg/L	0.00014	0.12%
Fe 273.955†	276435.4	18.14 mg/L	0.052	18.14 mg/L	0.052	0.28%
Mg 279.077†	6534071.9	495.4 mg/L	0.89	495.4 mg/L	0.89	0.18%
V 292.402†	4519.4	0.0135 mg/L	0.00012	0.0135 mg/L	0.00012	0.86%
Al 308.215†	187975.6	5.801 mg/L	0.0323	5.801 mg/L	0.0323	0.56%
Be 313.107†	19252.3	0.0049 mg/L	0.00002	0.0049 mg/L	0.00002	0.38%
Cu 324.752†	1003283.6	2.945 mg/L	0.0111	2.945 mg/L	0.0111	0.38%
Ag 338.289†	769.7	-0.0016 mg/L	0.00016	-0.0016 mg/L	0.00016	9.65%
Na 330.237†	9079716.3	6991 mg/L	14.3	6991 mg/L	14.3	0.20%
Ca 227.546†	324771.7	572.3 mg/L	1.43	572.3 mg/L	1.43	0.25%
Al RADIAL†	7952.7	4.448 mg/L	0.0296	4.448 mg/L	0.0296	0.67%
Fe RADIAL†	1113.7	17.40 mg/L	0.174	17.40 mg/L	0.174	1.00%
Ca RADIAL†	544601.2	408.4 mg/L	1.08	408.4 mg/L	1.08	0.27%
K RADIAL†	287531.3	221.6 mg/L	1.41	221.6 mg/L	1.41	0.64%
Mg RADIAL†	46381.4	507.0 mg/L	0.70	507.0 mg/L	0.70	0.14%
Na RADIAL†	11571355.6	875.6 mg/L	20.16	875.6 mg/L	20.16	2.30%

Sequence No.: 51

Sample ID: 14C0963-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 44

Date Collected: 4/1/2014 9:24:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0963-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	17085739.3	5.162 mg/L	0.0596			1.16%
Y RADIAL	186437.0	5.039 mg/L	0.0244			0.48%
As 188.979†	-7.4	-0.0026 mg/L	0.00287	-0.0026 mg/L	0.00287	110.51%
Tl 190.801†	7.9	0.0023 mg/L	0.00208	0.0023 mg/L	0.00208	90.85%
Se 196.026†	-5.2	-0.0027 mg/L	0.00354	-0.0027 mg/L	0.00354	133.46%
Zn 206.200†	700.8	0.0141 mg/L	0.00010	0.0141 mg/L	0.00010	0.67%
Sb 206.836†	-5.4	-0.0013 mg/L	0.00174	-0.0013 mg/L	0.00174	133.94%
Pb 220.353†	0.7	-0.0001 mg/L	0.00056	-0.0001 mg/L	0.00056	473.34%
Cd 226.502†	140.7	0.0008 mg/L	0.00001	0.0008 mg/L	0.00001	1.89%
Co 228.616†	23.8	0.0008 mg/L	0.00032	0.0008 mg/L	0.00032	37.94%
Ni 232.003†	48.0	0.0028 mg/L	0.00031	0.0028 mg/L	0.00031	10.94%
Ba 233.527†	140.2	0.0013 mg/L	0.00004	0.0013 mg/L	0.00004	3.26%
Mn 257.610†	16632.3	0.0277 mg/L	0.00016	0.0277 mg/L	0.00016	0.56%
Cr 267.716†	143.7	0.0014 mg/L	0.00010	0.0014 mg/L	0.00010	7.02%

Fe 273.955†	32103.8	2.106 mg/L	0.0080	2.106 mg/L	0.0080	0.38%
Mg 279.077†	4274.8	0.3242 mg/L	0.00409	0.3242 mg/L	0.00409	1.26%
V 292.402†	325.5	0.0009 mg/L	0.00003	0.0009 mg/L	0.00003	3.35%
Al 308.215†	7622.9	0.2360 mg/L	0.00568	0.2360 mg/L	0.00568	2.41%
Be 313.107†	67.7	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	54.96%
Cu 324.752†	493.3	0.0015 mg/L	0.00033	0.0015 mg/L	0.00033	22.03%
Ag 338.289†	-10.6	-0.0001 mg/L	0.00049	-0.0001 mg/L	0.00049	534.44%
Na 330.237†	624.6	0.4962 mg/L	0.04282	0.4962 mg/L	0.04282	8.63%
Ca 227.546†	1716.5	3.034 mg/L	0.0229	3.034 mg/L	0.0229	0.76%
Al RADIAL†	487.5	0.2727 mg/L	0.00454	0.2727 mg/L	0.00454	1.67%
Fe RADIAL†	129.2	2.019 mg/L	0.0615	2.019 mg/L	0.0615	3.04%
Ca RADIAL†	4508.3	3.381 mg/L	0.0137	3.381 mg/L	0.0137	0.40%
K RADIAL†	871.4	0.6714 mg/L	0.00885	0.6714 mg/L	0.00885	1.32%
Mg RADIAL†	29.0	0.3174 mg/L	0.01760	0.3174 mg/L	0.01760	5.55%
Na RADIAL†	27761.7	2.101 mg/L	0.0709	2.101 mg/L	0.0709	3.38%

Sequence No.: 52

Sample ID: 14C0973-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 45

Date Collected: 4/1/2014 9:28:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0973-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16578396.7	5.009	mg/L	0.0269				0.54%
Y RADIAL	189764.4	5.129	mg/L	0.0631				1.23%
As 188.979†	-16.5	0.0007	mg/L	0.00186	0.0007	mg/L	0.00186	282.44%
Tl 190.801†	-31.3	-0.0045	mg/L	0.00205	-0.0045	mg/L	0.00205	45.10%
Se 196.026†	-24.2	0.0149	mg/L	0.00257	0.0149	mg/L	0.00257	17.29%
Zn 206.200†	975.5	0.0175	mg/L	0.00005	0.0175	mg/L	0.00005	0.31%
Sb 206.836†	-11.5	-0.0027	mg/L	0.00185	-0.0027	mg/L	0.00185	67.40%
Pb 220.353†	9.0	-0.0047	mg/L	0.00175	-0.0047	mg/L	0.00175	37.49%
Cd 226.502†	1173.6	0.0005	mg/L	0.00015	0.0005	mg/L	0.00015	27.45%
Co 228.616†	-11.2	-0.0004	mg/L	0.00029	-0.0004	mg/L	0.00029	71.85%
Ni 232.003†	68.9	0.0115	mg/L	0.00114	0.0115	mg/L	0.00114	9.87%
Ba 233.527†	13772.4	0.1236	mg/L	0.00145	0.1236	mg/L	0.00145	1.17%
Mn 257.610†	7308792.8	12.15	mg/L	0.012	12.15	mg/L	0.012	0.10%
Cr 267.716†	79.2	0.0008	mg/L	0.00011	0.0008	mg/L	0.00011	14.93%
Fe 273.955†	738593.0	48.46	mg/L	0.631	48.46	mg/L	0.631	1.30%
Mg 279.077†	144609.7	10.97	mg/L	0.101	10.97	mg/L	0.101	0.92%
V 292.402†	1194.7	0.0000	mg/L	0.00013	0.0000	mg/L	0.00013	341.16%
Al 308.215†	978.3	0.0337	mg/L	0.00425	0.0337	mg/L	0.00425	12.60%
Be 313.107†	35.3	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	240.06%
Cu 324.752†	-2135.0	-0.0049	mg/L	0.00025	-0.0049	mg/L	0.00025	5.18%
Ag 338.289†	-9.7	-0.0005	mg/L	0.00039	-0.0005	mg/L	0.00039	84.01%
Na 330.237†	7422.1	6.017	mg/L	0.0829	6.017	mg/L	0.0829	1.38%
Ca 227.546†	22233.5	39.40	mg/L	0.345	39.40	mg/L	0.345	0.88%
Al RADIAL†	21.7	0.0121	mg/L	0.00149	0.0121	mg/L	0.00149	12.25%
Fe RADIAL†	3099.6	48.44	mg/L	0.631	48.44	mg/L	0.631	1.30%
Ca RADIAL†	56282.1	42.20	mg/L	0.056	42.20	mg/L	0.056	0.13%
K RADIAL†	2796.1	2.154	mg/L	0.0413	2.154	mg/L	0.0413	1.92%
Mg RADIAL†	979.9	10.71	mg/L	0.142	10.71	mg/L	0.142	1.32%
Na RADIAL†	114157.3	8.638	mg/L	0.0539	8.638	mg/L	0.0539	0.62%

Sequence No.: 53

Sample ID: 14C0973-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 46

Date Collected: 4/1/2014 9:33:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0973-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15863428.9	4.793	mg/L	0.0155				0.32%
Y RADIAL	190399.3	5.146	mg/L	0.0523				1.02%
As 188.979†	-36.1	0.0043	mg/L	0.00509	0.0043	mg/L	0.00509	117.72%
Tl 190.801†	-94.7	-0.0154	mg/L	0.00122	-0.0154	mg/L	0.00122	7.91%

Se 196.026†	-79.4	0.0254 mg/L	0.00196	0.0254 mg/L	0.00196	7.73%
Zn 206.200†	946.3	0.0132 mg/L	0.00015	0.0132 mg/L	0.00015	1.15%
Sb 206.836†	-12.3	-0.0029 mg/L	0.00162	-0.0029 mg/L	0.00162	55.22%
Pb 220.353†	-1.8	-0.0148 mg/L	0.00197	-0.0148 mg/L	0.00197	13.28%
Cd 226.502†	3147.8	0.0022 mg/L	0.00027	0.0022 mg/L	0.00027	12.12%
Co 228.616†	755.1	0.0268 mg/L	0.00016	0.0268 mg/L	0.00016	0.59%
Ni 232.003†	318.1	0.0372 mg/L	0.00161	0.0372 mg/L	0.00161	4.33%
Ba 233.527†	14516.4	0.1303 mg/L	0.00088	0.1303 mg/L	0.00088	0.67%
Mn 257.610†	17236469.7	28.65 mg/L	0.020	28.65 mg/L	0.020	0.07%
Cr 267.716†	152.7	0.0015 mg/L	0.00009	0.0015 mg/L	0.00009	6.06%
Fe 273.955†	1917382.6	125.8 mg/L	1.73	125.8 mg/L	1.73	1.37%
Mg 279.077†	484580.4	36.74 mg/L	0.429	36.74 mg/L	0.429	1.17%
V 292.402†	2944.8	-0.0004 mg/L	0.00026	-0.0004 mg/L	0.00026	62.24%
Al 308.215†	1829.6	0.0647 mg/L	0.00099	0.0647 mg/L	0.00099	1.54%
Be 313.107†	-314.5	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	18.74%
Cu 324.752†	-3435.1	-0.0076 mg/L	0.00004	-0.0076 mg/L	0.00004	0.51%
Ag 338.289†	106.1	-0.0011 mg/L	0.00013	-0.0011 mg/L	0.00013	12.31%
Na 330.237†	9591.7	8.267 mg/L	0.0730	8.267 mg/L	0.0730	0.88%
Ca 227.546†	89927.9	159.0 mg/L	1.18	159.0 mg/L	1.18	0.74%
Al RADIAL†	17.6	0.0098 mg/L	0.00501	0.0098 mg/L	0.00501	50.93%
Fe RADIAL†	8159.4	127.5 mg/L	1.25	127.5 mg/L	1.25	0.98%
Ca RADIAL†	220924.1	165.7 mg/L	0.28	165.7 mg/L	0.28	0.17%
K RADIAL†	7607.9	5.862 mg/L	0.0793	5.862 mg/L	0.0793	1.35%
Mg RADIAL†	3428.2	37.47 mg/L	0.433	37.47 mg/L	0.433	1.15%
Na RADIAL†	134908.4	10.21 mg/L	0.075	10.21 mg/L	0.075	0.73%

Sequence No.: 54

Sample ID: 14C0980-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 47

Date Collected: 4/1/2014 9:38:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0980-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16762197.4	5.064	mg/L	0.0438				0.86%
Y RADIAL	187513.8	5.068	mg/L	0.0990				1.95%
As 188.979†	-5.4	-0.0021	mg/L	0.00108	-0.0021	mg/L	0.00108	50.95%
Tl 190.801†	3.8	0.0010	mg/L	0.00062	0.0010	mg/L	0.00062	61.77%
Se 196.026†	1.5	0.0012	mg/L	0.00167	0.0012	mg/L	0.00167	137.39%
Zn 206.200†	1925.2	0.0392	mg/L	0.00044	0.0392	mg/L	0.00044	1.12%
Sb 206.836†	-10.2	-0.0024	mg/L	0.00106	-0.0024	mg/L	0.00106	43.51%
Pb 220.353†	-2.6	-0.0001	mg/L	0.00175	-0.0001	mg/L	0.00175	>999.9%
Cd 226.502†	20.6	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	60.38%
Co 228.616†	2.6	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	174.25%
Ni 232.003†	94.4	0.0049	mg/L	0.00049	0.0049	mg/L	0.00049	9.99%
Ba 233.527†	2506.2	0.0225	mg/L	0.00029	0.0225	mg/L	0.00029	1.29%
Mn 257.610†	3133.5	0.0051	mg/L	0.00006	0.0051	mg/L	0.00006	1.21%
Cr 267.716†	34.1	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	29.85%
Fe 273.955†	410.2	0.0269	mg/L	0.00055	0.0269	mg/L	0.00055	2.05%
Mg 279.077†	44908.7	3.405	mg/L	0.0116	3.405	mg/L	0.0116	0.34%
V 292.402†	18.3	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	96.78%
Al 308.215†	1285.6	0.0395	mg/L	0.00198	0.0395	mg/L	0.00198	5.02%
Be 313.107†	78.6	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	35.72%
Cu 324.752†	27672.1	0.0813	mg/L	0.00042	0.0813	mg/L	0.00042	0.51%
Ag 338.289†	29.9	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	436.49%
Na 330.237†	10308.1	7.965	mg/L	0.0532	7.965	mg/L	0.0532	0.67%
Ca 227.546†	9817.2	17.30	mg/L	0.072	17.30	mg/L	0.072	0.42%
Al RADIAL†	88.0	0.0493	mg/L	0.00137	0.0493	mg/L	0.00137	2.78%
Fe RADIAL†	0.8	0.0123	mg/L	0.02594	0.0123	mg/L	0.02594	211.57%
Ca RADIAL†	24915.3	18.68	mg/L	0.058	18.68	mg/L	0.058	0.31%
K RADIAL†	1301.5	1.003	mg/L	0.0287	1.003	mg/L	0.0287	2.87%
Mg RADIAL†	301.6	3.297	mg/L	0.0804	3.297	mg/L	0.0804	2.44%
Na RADIAL†	141674.4	10.72	mg/L	0.103	10.72	mg/L	0.103	0.96%

Sequence No.: 55

Sample ID: BD40038-DUP1

Analyst: MW

Initial Sample Wt:

Autosampler Location: 48

Date Collected: 4/1/2014 9:43:42 PM

Data Type: Original

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: BD40038-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16792608.9	5.073 mg/L	0.0526			1.04%
Y RADIAL	183398.0	4.957 mg/L	0.0146			0.29%
As 188.979†	-4.1	-0.0016 mg/L	0.00224	-0.0016 mg/L	0.00224	140.27%
Tl 190.801†	8.3	0.0022 mg/L	0.00078	0.0022 mg/L	0.00078	35.02%
Se 196.026†	-0.1	-0.0001 mg/L	0.00281	-0.0001 mg/L	0.00281	>999.9%
Zn 206.200†	1844.8	0.0375 mg/L	0.00028	0.0375 mg/L	0.00028	0.74%
Sb 206.836†	-2.6	-0.0006 mg/L	0.00230	-0.0006 mg/L	0.00230	372.97%
Pb 220.353†	-17.1	-0.0021 mg/L	0.00090	-0.0021 mg/L	0.00090	43.72%
Cd 226.502†	15.2	0.0001 mg/L	0.00011	0.0001 mg/L	0.00011	91.76%
Co 228.616†	11.9	0.0004 mg/L	0.00019	0.0004 mg/L	0.00019	45.29%
Ni 232.003†	84.7	0.0044 mg/L	0.00093	0.0044 mg/L	0.00093	21.03%
Ba 233.527†	2478.3	0.0222 mg/L	0.00036	0.0222 mg/L	0.00036	1.61%
Mn 257.610†	898.3	0.0014 mg/L	0.00005	0.0014 mg/L	0.00005	3.63%
Cr 267.716†	22.7	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	16.72%
Fe 273.955†	311.3	0.0204 mg/L	0.00081	0.0204 mg/L	0.00081	3.95%
Mg 279.077†	44171.9	3.349 mg/L	0.0521	3.349 mg/L	0.0521	1.56%
V 292.402†	12.8	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	16.11%
Al 308.215†	370.8	0.0112 mg/L	0.00317	0.0112 mg/L	0.00317	28.29%
Be 313.107†	208.5	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	52.02%
Cu 324.752†	27469.9	0.0807 mg/L	0.00138	0.0807 mg/L	0.00138	1.70%
Ag 338.289†	-1.3	-0.0002 mg/L	0.00007	-0.0002 mg/L	0.00007	36.24%
Na 330.237†	10253.6	7.923 mg/L	0.1607	7.923 mg/L	0.1607	2.03%
Ca 227.546†	9727.4	17.14 mg/L	0.289	17.14 mg/L	0.289	1.68%
Al RADIAL†	44.0	0.0246 mg/L	0.00148	0.0246 mg/L	0.00148	5.99%
Fe RADIAL†	1.5	0.0233 mg/L	0.03694	0.0233 mg/L	0.03694	158.88%
Ca RADIAL†	24915.2	18.68 mg/L	0.007	18.68 mg/L	0.007	0.03%
K RADIAL†	1317.2	1.015 mg/L	0.0141	1.015 mg/L	0.0141	1.38%
Mg RADIAL†	296.9	3.245 mg/L	0.0253	3.245 mg/L	0.0253	0.78%
Na RADIAL†	142482.4	10.78 mg/L	0.060	10.78 mg/L	0.060	0.56%

Sequence No.: 56

Sample ID: SEQ-CCV5

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 4/1/2014 9:48:35 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16012744.4	4.838 mg/L	0.0017			0.03%
Y RADIAL	182340.9	4.928 mg/L	0.0292			0.59%
As 188.979†	626.6	0.2468 mg/L	0.00287	0.2468 mg/L	0.00287	1.16%
Tl 190.801†	979.4	0.2635 mg/L	0.00339	0.2635 mg/L	0.00339	1.29%
Se 196.026†	307.9	0.2479 mg/L	0.00567	0.2479 mg/L	0.00567	2.29%
Zn 206.200†	126594.0	2.575 mg/L	0.0115	2.575 mg/L	0.0115	0.45%
Sb 206.836†	1074.4	0.2568 mg/L	0.00063	0.2568 mg/L	0.00063	0.25%
Pb 220.353†	1913.5	0.2535 mg/L	0.00243	0.2535 mg/L	0.00243	0.96%
Cd 226.502†	15439.9	0.1263 mg/L	0.00124	0.1263 mg/L	0.00124	0.98%
Co 228.616†	70877.7	2.518 mg/L	0.0221	2.518 mg/L	0.0221	0.88%
Ni 232.003†	48090.5	2.509 mg/L	0.0059	2.509 mg/L	0.0059	0.24%
Ba 233.527†	1135671.5	10.20 mg/L	0.033	10.20 mg/L	0.033	0.32%
Mn 257.610†	1516536.9	2.520 mg/L	0.0111	2.520 mg/L	0.0111	0.44%
Cr 267.716†	108439.2	1.035 mg/L	0.0072	1.035 mg/L	0.0072	0.70%
Fe 273.955†	77260.8	5.069 mg/L	0.0349	5.069 mg/L	0.0349	0.69%
Mg 279.077†	328312.0	24.89 mg/L	0.099	24.89 mg/L	0.099	0.40%
V 292.402†	751465.9	2.493 mg/L	0.0152	2.493 mg/L	0.0152	0.61%
Al 308.215†	304814.0	9.432 mg/L	0.0329	9.432 mg/L	0.0329	0.35%
Be 313.107†	963323.8	0.2474 mg/L	0.00140	0.2474 mg/L	0.00140	0.56%
Cu 324.752†	410915.8	1.212 mg/L	0.0045	1.212 mg/L	0.0045	0.37%
Ag 338.289†	214820.8	1.223 mg/L	0.0058	1.223 mg/L	0.0058	0.48%
Na 330.237†	29983.3	23.15 mg/L	0.034	23.15 mg/L	0.034	0.15%
Ca 227.546†	13291.9	23.45 mg/L	0.122	23.45 mg/L	0.122	0.52%
Al RADIAL†	17675.6	9.887 mg/L	0.0536	9.887 mg/L	0.0536	0.54%
Fe RADIAL†	315.0	4.923 mg/L	0.0295	4.923 mg/L	0.0295	0.60%

Ca RADIAL†	32804.5	24.60 mg/L	0.146	24.60 mg/L	0.146	0.59%
K RADIAL†	6332.0	4.879 mg/L	0.0112	4.879 mg/L	0.0112	0.23%
Mg RADIAL†	2293.5	25.07 mg/L	0.088	25.07 mg/L	0.088	0.35%
Na RADIAL†	330843.1	25.04 mg/L	0.385	25.04 mg/L	0.385	1.54%

Sequence No.: 57

Sample ID: SEQ-CCB5

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 4/1/2014 9:56:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16229742.0	4.903	mg/L	0.0597				1.22%
Y RADIAL	180092.9	4.867	mg/L	0.0569				1.17%
As 188.979†	-8.2	-0.0032	mg/L	0.00349	-0.0032	mg/L	0.00349	108.82%
Tl 190.801†	3.9	0.0010	mg/L	0.00139	0.0010	mg/L	0.00139	133.82%
Se 196.026†	2.3	0.0018	mg/L	0.00186	0.0018	mg/L	0.00186	102.42%
Zn 206.200†	-27.8	-0.0006	mg/L	0.00005	-0.0006	mg/L	0.00005	8.21%
Sb 206.836†	3.8	0.0009	mg/L	0.00051	0.0009	mg/L	0.00051	56.17%
Pb 220.353†	-9.4	-0.0012	mg/L	0.00130	-0.0012	mg/L	0.00130	104.26%
Cd 226.502†	3.4	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	252.04%
Co 228.616†	13.3	0.0005	mg/L	0.00012	0.0005	mg/L	0.00012	24.95%
Ni 232.003†	-0.3	0.0000	mg/L	0.00060	0.0000	mg/L	0.00060	>999.9%
Ba 233.527†	13.4	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	34.66%
Mn 257.610†	43.1	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	46.30%
Cr 267.716†	-10.4	-0.0001	mg/L	0.00011	-0.0001	mg/L	0.00011	108.48%
Fe 273.955†	7.7	0.0005	mg/L	0.00039	0.0005	mg/L	0.00039	77.04%
Mg 279.077†	-5.9	-0.0004	mg/L	0.00097	-0.0004	mg/L	0.00097	215.37%
V 292.402†	-6.3	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	237.48%
Al 308.215†	-190.0	-0.0059	mg/L	0.00222	-0.0059	mg/L	0.00222	37.81%
Be 313.107†	112.1	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	45.88%
Cu 324.752†	-543.3	-0.0016	mg/L	0.00012	-0.0016	mg/L	0.00012	7.23%
Ag 338.289†	43.3	0.0002	mg/L	0.00026	0.0002	mg/L	0.00026	105.17%
Na 330.237†	-92.0	-0.0709	mg/L	0.00525	-0.0709	mg/L	0.00525	7.41%
Ca 227.546†	-18.5	-0.0326	mg/L	0.04181	-0.0326	mg/L	0.04181	128.40%
Al RADIAL†	-5.8	-0.0032	mg/L	0.00419	-0.0032	mg/L	0.00419	129.56%
Fe RADIAL†	-0.1	-0.0016	mg/L	0.03074	-0.0016	mg/L	0.03074	>999.9%
Ca RADIAL†	3.1	0.0023	mg/L	0.00320	0.0023	mg/L	0.00320	138.00%
K RADIAL†	30.8	0.0237	mg/L	0.01033	0.0237	mg/L	0.01033	43.55%
Mg RADIAL†	-1.0	-0.0110	mg/L	0.01959	-0.0110	mg/L	0.01959	178.18%
Na RADIAL†	1886.8	0.1428	mg/L	0.00550	0.1428	mg/L	0.00550	3.85%

Sequence No.: 58

Sample ID: BD40038-MS1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 49

Date Collected: 4/1/2014 10:01:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40038-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16074895.2	4.856	mg/L	0.0185				0.38%
Y RADIAL	178990.2	4.838	mg/L	0.0584				1.21%
As 188.979†	5145.8	2.021	mg/L	0.0111	2.021	mg/L	0.0111	0.55%
Tl 190.801†	7983.6	2.144	mg/L	0.0084	2.144	mg/L	0.0084	0.39%
Se 196.026†	2513.7	1.995	mg/L	0.0088	1.995	mg/L	0.0088	0.44%
Zn 206.200†	28270.7	0.5749	mg/L	0.00281	0.5749	mg/L	0.00281	0.49%
Sb 206.836†	1061.9	0.2539	mg/L	0.00406	0.2539	mg/L	0.00406	1.60%
Pb 220.353†	3856.2	0.5101	mg/L	0.00228	0.5101	mg/L	0.00228	0.45%
Cd 226.502†	6341.1	0.0521	mg/L	0.00036	0.0521	mg/L	0.00036	0.69%
Co 228.616†	14753.1	0.5241	mg/L	0.00329	0.5241	mg/L	0.00329	0.63%
Ni 232.003†	10013.4	0.5225	mg/L	0.00154	0.5225	mg/L	0.00154	0.29%
Ba 233.527†	241552.8	2.169	mg/L	0.0121	2.169	mg/L	0.0121	0.56%
Mn 257.610†	320504.8	0.5326	mg/L	0.00320	0.5326	mg/L	0.00320	0.60%
Cr 267.716†	22562.4	0.2153	mg/L	0.00101	0.2153	mg/L	0.00101	0.47%
Fe 273.955†	16264.2	1.067	mg/L	0.0070	1.067	mg/L	0.0070	0.66%

Mg 279.077†	43240.4	3.278 mg/L	0.0195	3.278 mg/L	0.0195	0.59%
V 292.402†	156281.0	0.5185 mg/L	0.00399	0.5185 mg/L	0.00399	0.77%
Al 308.215†	61693.7	1.909 mg/L	0.0112	1.909 mg/L	0.0112	0.59%
Be 313.107†	199105.8	0.0511 mg/L	0.00028	0.0511 mg/L	0.00028	0.55%
Cu 324.752†	118888.3	0.3506 mg/L	0.00234	0.3506 mg/L	0.00234	0.67%
Ag 338.289†	8325.8	0.0472 mg/L	0.00035	0.0472 mg/L	0.00035	0.74%
Na 330.237†	10897.1	8.423 mg/L	0.0353	8.423 mg/L	0.0353	0.42%
Ca 227.546†	9839.0	17.34 mg/L	0.065	17.34 mg/L	0.065	0.37%
Al RADIAL†	3649.9	2.042 mg/L	0.0043	2.042 mg/L	0.0043	0.21%
Fe RADIAL†	66.1	1.033 mg/L	0.0205	1.033 mg/L	0.0205	1.98%
Ca RADIAL†	24470.0	18.35 mg/L	0.028	18.35 mg/L	0.028	0.15%
K RADIAL†	1273.2	0.9811 mg/L	0.00412	0.9811 mg/L	0.00412	0.42%
Mg RADIAL†	302.0	3.301 mg/L	0.0724	3.301 mg/L	0.0724	2.19%
Na RADIAL†	140464.5	10.63 mg/L	0.043	10.63 mg/L	0.043	0.40%

Sequence No.: 59

Sample ID: 14C0980-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 50

Date Collected: 4/1/2014 10:09:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0980-02

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16410461.0	4.958 mg/L	0.0248			0.50%
Y RADIAL	183606.4	4.962 mg/L	0.0458			0.92%
As 188.979†	-0.4	-0.0002 mg/L	0.00105	-0.0002 mg/L	0.00105	699.78%
Tl 190.801†	7.3	0.0020 mg/L	0.00200	0.0020 mg/L	0.00200	101.93%
Se 196.026†	1.3	0.0010 mg/L	0.00345	0.0010 mg/L	0.00345	339.80%
Zn 206.200†	1015.1	0.0206 mg/L	0.00006	0.0206 mg/L	0.00006	0.31%
Sb 206.836†	-3.4	-0.0008 mg/L	0.00110	-0.0008 mg/L	0.00110	136.38%
Pb 220.353†	-5.9	-0.0006 mg/L	0.00171	-0.0006 mg/L	0.00171	291.31%
Cd 226.502†	23.9	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	34.94%
Co 228.616†	3.2	0.0001 mg/L	0.00020	0.0001 mg/L	0.00020	174.68%
Ni 232.003†	95.7	0.0050 mg/L	0.00014	0.0050 mg/L	0.00014	2.72%
Ba 233.527†	2272.7	0.0204 mg/L	0.00012	0.0204 mg/L	0.00012	0.60%
Mn 257.610†	829.2	0.0013 mg/L	0.00001	0.0013 mg/L	0.00001	0.46%
Cr 267.716†	231.9	0.0022 mg/L	0.00010	0.0022 mg/L	0.00010	4.59%
Fe 273.955†	291.3	0.0191 mg/L	0.00105	0.0191 mg/L	0.00105	5.51%
Mg 279.077†	48742.1	3.695 mg/L	0.0414	3.695 mg/L	0.0414	1.12%
V 292.402†	10.1	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	83.33%
Al 308.215†	553.7	0.0169 mg/L	0.00329	0.0169 mg/L	0.00329	19.49%
Be 313.107†	-9.8	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	>999.9%
Cu 324.752†	21148.8	0.0621 mg/L	0.00047	0.0621 mg/L	0.00047	0.76%
Ag 338.289†	78.7	0.0003 mg/L	0.00017	0.0003 mg/L	0.00017	64.91%
Na 330.237†	9807.4	7.579 mg/L	0.0524	7.579 mg/L	0.0524	0.69%
Ca 227.546†	9642.2	16.99 mg/L	0.187	16.99 mg/L	0.187	1.10%
Al RADIAL†	37.9	0.0212 mg/L	0.00149	0.0212 mg/L	0.00149	7.02%
Fe RADIAL†	0.1	0.0013 mg/L	0.03184	0.0013 mg/L	0.03184	>999.9%
Ca RADIAL†	23727.8	17.79 mg/L	0.028	17.79 mg/L	0.028	0.16%
K RADIAL†	1216.7	0.9376 mg/L	0.01494	0.9376 mg/L	0.01494	1.59%
Mg RADIAL†	325.5	3.558 mg/L	0.0858	3.558 mg/L	0.0858	2.41%
Na RADIAL†	133016.8	10.07 mg/L	0.042	10.07 mg/L	0.042	0.42%

Sequence No.: 60

Sample ID: 14C0985-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 51

Date Collected: 4/1/2014 10:14:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0985-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15289223.8	4.619 mg/L	0.0376			0.81%
Y RADIAL	181362.2	4.902 mg/L	0.0272			0.55%
As 188.979†	4.9	0.0019 mg/L	0.00364	0.0019 mg/L	0.00364	189.81%
Tl 190.801†	7.3	0.0020 mg/L	0.00104	0.0020 mg/L	0.00104	51.33%
Se 196.026†	5.4	0.0043 mg/L	0.00186	0.0043 mg/L	0.00186	43.41%

Zn 206.200†	3246.5	0.0659 mg/L	0.00036	0.0659 mg/L	0.00036	0.55%
Sb 206.836†	-7.6	-0.0019 mg/L	0.00124	-0.0019 mg/L	0.00124	64.45%
Pb 220.353†	27.7	0.0060 mg/L	0.00095	0.0060 mg/L	0.00095	15.90%
Cd 226.502†	-1.5	0.0000 mg/L	0.00014	0.0000 mg/L	0.00014	584.36%
Co 228.616†	31.4	0.0011 mg/L	0.00027	0.0011 mg/L	0.00027	24.27%
Ni 232.003†	113.3	0.0059 mg/L	0.00058	0.0059 mg/L	0.00058	9.84%
Ba 233.527†	1131.8	0.0102 mg/L	0.00008	0.0102 mg/L	0.00008	0.76%
Mn 257.610†	17030.8	0.0283 mg/L	0.00033	0.0283 mg/L	0.00033	1.18%
Cr 267.716†	1089.3	0.0104 mg/L	0.00008	0.0104 mg/L	0.00008	0.75%
Fe 273.955†	903.5	0.0593 mg/L	0.00132	0.0593 mg/L	0.00132	2.22%
Mg 279.077†	10054.1	0.7590 mg/L	0.01176	0.7590 mg/L	0.01176	1.55%
V 292.402†	3350.3	0.0111 mg/L	0.00010	0.0111 mg/L	0.00010	0.90%
Al 308.215†	206383.7	6.385 mg/L	0.1256	6.385 mg/L	0.1256	1.97%
Be 313.107†	-322.6	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	37.52%
Cu 324.752†	2366.6	0.0041 mg/L	0.00031	0.0041 mg/L	0.00031	7.76%
Ag 338.289†	241.4	-0.0002 mg/L	0.00024	-0.0002 mg/L	0.00024	146.92%
Na 330.237†	86578.9	66.90 mg/L	1.505	66.90 mg/L	1.505	2.25%
Ca 227.546†	82749.9	145.8 mg/L	2.58	145.8 mg/L	2.58	1.77%
Al RADIAL†	11053.3	6.183 mg/L	0.0158	6.183 mg/L	0.0158	0.26%
Fe RADIAL†	2.2	0.0344 mg/L	0.02262	0.0344 mg/L	0.02262	65.67%
Ca RADIAL†	185530.2	139.1 mg/L	1.43	139.1 mg/L	1.43	1.03%
K RADIAL†	32504.0	25.05 mg/L	0.212	25.05 mg/L	0.212	0.85%
Mg RADIAL†	68.2	0.7453 mg/L	0.01447	0.7453 mg/L	0.01447	1.94%
Na RADIAL†	863346.0	65.33 mg/L	0.394	65.33 mg/L	0.394	0.60%

Sequence No.: 61

Sample ID: 14C0985-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 52

Date Collected: 4/1/2014 10:19:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0985-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	15779279.1	4.767 mg/L		0.0144			0.30%
Y RADIAL	182922.2	4.944 mg/L		0.0226			0.46%
As 188.979†	-6.0	-0.0023 mg/L		0.00191	-0.0023 mg/L	0.00191	81.93%
Tl 190.801†	4.4	0.0013 mg/L		0.00071	0.0013 mg/L	0.00071	56.28%
Se 196.026†	8.4	0.0067 mg/L		0.00358	0.0067 mg/L	0.00358	53.35%
Zn 206.200†	922.9	0.0187 mg/L		0.00031	0.0187 mg/L	0.00031	1.64%
Sb 206.836†	-0.5	-0.0002 mg/L		0.00011	-0.0002 mg/L	0.00011	50.32%
Pb 220.353†	-19.9	-0.0011 mg/L		0.00147	-0.0011 mg/L	0.00147	136.14%
Cd 226.502†	11.7	0.0001 mg/L		0.00011	0.0001 mg/L	0.00011	117.03%
Co 228.616†	27.7	0.0010 mg/L		0.00006	0.0010 mg/L	0.00006	6.10%
Ni 232.003†	127.1	0.0066 mg/L		0.00058	0.0066 mg/L	0.00058	8.67%
Ba 233.527†	2344.6	0.0210 mg/L		0.00004	0.0210 mg/L	0.00004	0.21%
Mn 257.610†	2514.4	0.0042 mg/L		0.00004	0.0042 mg/L	0.00004	0.86%
Cr 267.716†	1447.5	0.0138 mg/L		0.00016	0.0138 mg/L	0.00016	1.17%
Fe 273.955†	144.3	0.0095 mg/L		0.00034	0.0095 mg/L	0.00034	3.64%
Mg 279.077†	399.7	0.0284 mg/L		0.00062	0.0284 mg/L	0.00062	2.18%
V 292.402†	2848.2	0.0095 mg/L		0.00009	0.0095 mg/L	0.00009	0.94%
Al 308.215†	188270.0	5.825 mg/L		0.0166	5.825 mg/L	0.0166	0.29%
Be 313.107†	-256.5	-0.0001 mg/L		0.00000	-0.0001 mg/L	0.00000	7.17%
Cu 324.752†	1217.1	0.0019 mg/L		0.00019	0.0019 mg/L	0.00019	10.31%
Ag 338.289†	119.2	-0.0002 mg/L		0.00021	-0.0002 mg/L	0.00021	94.95%
Na 330.237†	50704.1	39.18 mg/L		0.094	39.18 mg/L	0.094	0.24%
Ca 227.546†	48352.8	85.19 mg/L		0.171	85.19 mg/L	0.171	0.20%
Al RADIAL†	10361.1	5.796 mg/L		0.0370	5.796 mg/L	0.0370	0.64%
Fe RADIAL†	0.5	0.0072 mg/L		0.02306	0.0072 mg/L	0.02306	318.49%
Ca RADIAL†	117372.2	88.01 mg/L		0.374	88.01 mg/L	0.374	0.42%
K RADIAL†	32682.2	25.18 mg/L		0.102	25.18 mg/L	0.102	0.41%
Mg RADIAL†	1.6	0.0170 mg/L		0.00835	0.0170 mg/L	0.00835	49.01%
Na RADIAL†	551640.6	41.74 mg/L		0.513	41.74 mg/L	0.513	1.23%

Sequence No.: 62

Sample ID: 14C0987-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 53

Date Collected: 4/1/2014 10:24:08 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0987-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15339759.3	4.634	mg/L	0.0014				0.03%
Y RADIAL	175670.0	4.748	mg/L	0.0884				1.86%
As 188.979†	-29.5	-0.0025	mg/L	0.00216	-0.0025	mg/L	0.00216	85.16%
Tl 190.801†	-70.3	-0.0136	mg/L	0.00087	-0.0136	mg/L	0.00087	6.37%
Se 196.026†	-52.8	0.0013	mg/L	0.00284	0.0013	mg/L	0.00284	218.57%
Zn 206.200†	6268.0	0.1239	mg/L	0.00055	0.1239	mg/L	0.00055	0.45%
Sb 206.836†	-1.6	-0.0009	mg/L	0.00108	-0.0009	mg/L	0.00108	122.59%
Pb 220.353†	504.9	0.0627	mg/L	0.00134	0.0627	mg/L	0.00134	2.13%
Cd 226.502†	1733.4	0.0027	mg/L	0.00032	0.0027	mg/L	0.00032	11.80%
Co 228.616†	2719.9	0.0966	mg/L	0.00132	0.0966	mg/L	0.00132	1.37%
Ni 232.003†	2139.4	0.1216	mg/L	0.00069	0.1216	mg/L	0.00069	0.57%
Ba 233.527†	115576.1	1.038	mg/L	0.0042	1.038	mg/L	0.0042	0.40%
Mn 257.610†	5189018.8	8.626	mg/L	0.0752	8.626	mg/L	0.0752	0.87%
Cr 267.716†	15416.6	0.1471	mg/L	0.00027	0.1471	mg/L	0.00027	0.18%
Fe 273.955†	936349.4	61.44	mg/L	0.597	61.44	mg/L	0.597	0.97%
Mg 279.077†	458580.2	34.77	mg/L	0.291	34.77	mg/L	0.291	0.84%
V 292.402†	24064.1	0.0749	mg/L	0.00032	0.0749	mg/L	0.00032	0.43%
Al 308.215†	1087621.5	33.66	mg/L	0.313	33.66	mg/L	0.313	0.93%
Be 313.107†	128.1	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	77.08%
Cu 324.752†	20112.7	0.0601	mg/L	0.00035	0.0601	mg/L	0.00035	0.58%
Ag 338.289†	-1381.6	-0.0086	mg/L	0.00029	-0.0086	mg/L	0.00029	3.36%
Na 330.237†	84332.1	65.35	mg/L	0.519	65.35	mg/L	0.519	0.79%
Ca 227.546†	40689.9	71.99	mg/L	0.460	71.99	mg/L	0.460	0.64%
Al RADIAL†	60941.0	34.09	mg/L	0.131	34.09	mg/L	0.131	0.38%
Fe RADIAL†	3979.5	62.19	mg/L	1.488	62.19	mg/L	1.488	2.39%
Ca RADIAL†	96110.2	72.07	mg/L	0.155	72.07	mg/L	0.155	0.21%
K RADIAL†	14399.6	11.10	mg/L	0.262	11.10	mg/L	0.262	2.36%
Mg RADIAL†	3280.5	35.86	mg/L	0.799	35.86	mg/L	0.799	2.23%
Na RADIAL†	906662.8	68.61	mg/L	0.571	68.61	mg/L	0.571	0.83%

Sequence No.: 63

Sample ID: 14C0987-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 54

Date Collected: 4/1/2014 10:29:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0987-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15318853.8	4.628	mg/L	0.0193				0.42%
Y RADIAL	175721.9	4.749	mg/L	0.0548				1.15%
As 188.979†	-35.6	0.0000	mg/L	0.00080	0.0000	mg/L	0.00080	>999.9%
Tl 190.801†	-101.8	-0.0191	mg/L	0.00138	-0.0191	mg/L	0.00138	7.24%
Se 196.026†	-87.4	-0.0027	mg/L	0.00418	-0.0027	mg/L	0.00418	154.00%
Zn 206.200†	10089.1	0.1995	mg/L	0.00097	0.1995	mg/L	0.00097	0.48%
Sb 206.836†	-5.2	-0.0021	mg/L	0.00089	-0.0021	mg/L	0.00089	41.68%
Pb 220.353†	961.7	0.1213	mg/L	0.00119	0.1213	mg/L	0.00119	0.98%
Cd 226.502†	2724.0	0.0046	mg/L	0.00015	0.0046	mg/L	0.00015	3.25%
Co 228.616†	4180.3	0.1485	mg/L	0.00106	0.1485	mg/L	0.00106	0.71%
Ni 232.003†	3261.6	0.1856	mg/L	0.00136	0.1856	mg/L	0.00136	0.73%
Ba 233.527†	258170.6	2.318	mg/L	0.0216	2.318	mg/L	0.0216	0.93%
Mn 257.610†	7829294.5	13.01	mg/L	0.012	13.01	mg/L	0.012	0.09%
Cr 267.716†	20193.5	0.1927	mg/L	0.00136	0.1927	mg/L	0.00136	0.71%
Fe 273.955†	1444715.2	94.79	mg/L	0.946	94.79	mg/L	0.946	1.00%
Mg 279.077†	654239.5	49.61	mg/L	0.529	49.61	mg/L	0.529	1.07%
V 292.402†	37581.2	0.1170	mg/L	0.00146	0.1170	mg/L	0.00146	1.25%
Al 308.215†	1895682.7	58.67	mg/L	0.754	58.67	mg/L	0.754	1.29%
Be 313.107†	9805.6	0.0025	mg/L	0.00003	0.0025	mg/L	0.00003	1.22%
Cu 324.752†	34913.1	0.1047	mg/L	0.00144	0.1047	mg/L	0.00144	1.37%
Ag 338.289†	-1652.9	-0.0103	mg/L	0.00005	-0.0103	mg/L	0.00005	0.51%
Na 330.237†	86218.9	66.99	mg/L	1.102	66.99	mg/L	1.102	1.65%
Ca 227.546†	48718.2	86.31	mg/L	1.052	86.31	mg/L	1.052	1.22%
Al RADIAL†	103026.8	57.63	mg/L	0.278	57.63	mg/L	0.278	0.48%
Fe RADIAL†	6219.4	97.19	mg/L	1.831	97.19	mg/L	1.831	1.88%
Ca RADIAL†	113616.9	85.19	mg/L	0.249	85.19	mg/L	0.249	0.29%

K RADIAL†	16981.4	13.08 mg/L	0.261	13.08 mg/L	0.261	1.99%
Mg RADIAL†	4717.8	51.57 mg/L	0.957	51.57 mg/L	0.957	1.86%
Na RADIAL†	914101.0	69.17 mg/L	0.128	69.17 mg/L	0.128	0.18%

Sequence No.: 64

Sample ID: 14C0992-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 55

Date Collected: 4/1/2014 10:33:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0992-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15940739.0	4.816 mg/L	0.0114			0.24%
Y RADIAL	178988.6	4.838 mg/L	0.0376			0.78%
As 188.979†	-2.7	-0.0009 mg/L	0.00068	-0.0009 mg/L	0.00068	71.98%
Tl 190.801†	-6.5	-0.0017 mg/L	0.00135	-0.0017 mg/L	0.00135	81.77%
Se 196.026†	8.9	0.0077 mg/L	0.00622	0.0077 mg/L	0.00622	81.09%
Zn 206.200†	875.9	0.0178 mg/L	0.00055	0.0178 mg/L	0.00055	3.09%
Sb 206.836†	-3.9	-0.0009 mg/L	0.00070	-0.0009 mg/L	0.00070	74.34%
Pb 220.353†	-60.5	-0.0075 mg/L	0.00032	-0.0075 mg/L	0.00032	4.22%
Cd 226.502†	6.0	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008	71.72%
Co 228.616†	44.2	0.0016 mg/L	0.00023	0.0016 mg/L	0.00023	14.49%
Ni 232.003†	72.1	0.0039 mg/L	0.00022	0.0039 mg/L	0.00022	5.65%
Ba 233.527†	4968.5	0.0446 mg/L	0.00038	0.0446 mg/L	0.00038	0.85%
Mn 257.610†	128498.0	0.2132 mg/L	0.00095	0.2132 mg/L	0.00095	0.45%
Cr 267.716†	131.9	0.0013 mg/L	0.00003	0.0013 mg/L	0.00003	2.32%
Fe 273.955†	13380.8	0.8779 mg/L	0.00402	0.8779 mg/L	0.00402	0.46%
Mg 279.077†	245846.9	18.64 mg/L	0.087	18.64 mg/L	0.087	0.47%
V 292.402†	829.0	0.0027 mg/L	0.00024	0.0027 mg/L	0.00024	8.99%
Al 308.215†	24930.3	0.7706 mg/L	0.00639	0.7706 mg/L	0.00639	0.83%
Be 313.107†	-274.8	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	25.77%
Cu 324.752†	2090.8	0.0051 mg/L	0.00009	0.0051 mg/L	0.00009	1.84%
Ag 338.289†	-8.0	-0.0005 mg/L	0.00018	-0.0005 mg/L	0.00018	35.86%
Na 330.237†	29154.8	22.52 mg/L	0.117	22.52 mg/L	0.117	0.52%
Ca 227.546†	24186.7	42.62 mg/L	0.251	42.62 mg/L	0.251	0.59%
Al RADIAL†	1505.0	0.8419 mg/L	0.01080	0.8419 mg/L	0.01080	1.28%
Fe RADIAL†	55.0	0.8590 mg/L	0.03268	0.8590 mg/L	0.03268	3.80%
Ca RADIAL†	59863.2	44.89 mg/L	0.575	44.89 mg/L	0.575	1.28%
K RADIAL†	9030.1	6.958 mg/L	0.0708	6.958 mg/L	0.0708	1.02%
Mg RADIAL†	1709.5	18.69 mg/L	0.160	18.69 mg/L	0.160	0.86%
Na RADIAL†	351241.3	26.58 mg/L	0.163	26.58 mg/L	0.163	0.61%

Sequence No.: 65

Sample ID: 14C0992-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 56

Date Collected: 4/1/2014 10:38:38 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0992-02

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16026127.5	4.842 mg/L	0.0458			0.95%
Y RADIAL	185476.9	5.013 mg/L	0.0163			0.32%
As 188.979†	-6.3	-0.0024 mg/L	0.00173	-0.0024 mg/L	0.00173	71.57%
Tl 190.801†	2.9	0.0008 mg/L	0.00063	0.0008 mg/L	0.00063	78.10%
Se 196.026†	8.8	0.0072 mg/L	0.00609	0.0072 mg/L	0.00609	84.27%
Zn 206.200†	805.6	0.0164 mg/L	0.00005	0.0164 mg/L	0.00005	0.28%
Sb 206.836†	-1.5	-0.0004 mg/L	0.00084	-0.0004 mg/L	0.00084	232.10%
Pb 220.353†	2.8	0.0011 mg/L	0.00006	0.0011 mg/L	0.00006	5.62%
Cd 226.502†	42.4	0.0003 mg/L	0.00020	0.0003 mg/L	0.00020	72.54%
Co 228.616†	26.4	0.0009 mg/L	0.00022	0.0009 mg/L	0.00022	23.74%
Ni 232.003†	58.0	0.0031 mg/L	0.00021	0.0031 mg/L	0.00021	6.64%
Ba 233.527†	5058.0	0.0454 mg/L	0.00033	0.0454 mg/L	0.00033	0.73%
Mn 257.610†	55336.7	0.0917 mg/L	0.00044	0.0917 mg/L	0.00044	0.48%
Cr 267.716†	64.3	0.0006 mg/L	0.00015	0.0006 mg/L	0.00015	24.46%
Fe 273.955†	5729.0	0.3759 mg/L	0.00410	0.3759 mg/L	0.00410	1.09%
Mg 279.077†	196507.6	14.90 mg/L	0.085	14.90 mg/L	0.085	0.57%

V 292.402†	261.3	0.0008 mg/L	0.00004	0.0008 mg/L	0.00004	4.74%
Al 308.215†	14479.9	0.4470 mg/L	0.00272	0.4470 mg/L	0.00272	0.61%
Be 313.107†	-353.1	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	3.38%
Cu 324.752†	1131.0	0.0019 mg/L	0.00014	0.0019 mg/L	0.00014	7.73%
Ag 338.289†	108.6	-0.0001 mg/L	0.00019	-0.0001 mg/L	0.00019	231.22%
Na 330.237†	86547.3	66.74 mg/L	0.279	66.74 mg/L	0.279	0.42%
Ca 227.546†	37755.1	66.52 mg/L	0.387	66.52 mg/L	0.387	0.58%
Al RADIAL†	837.3	0.4684 mg/L	0.00289	0.4684 mg/L	0.00289	0.62%
Fe RADIAL†	24.3	0.3796 mg/L	0.04491	0.3796 mg/L	0.04491	11.83%
Ca RADIAL†	92642.8	69.47 mg/L	0.170	69.47 mg/L	0.170	0.24%
K RADIAL†	15524.2	11.96 mg/L	0.102	11.96 mg/L	0.102	0.85%
Mg RADIAL†	1347.2	14.73 mg/L	0.073	14.73 mg/L	0.073	0.49%
Na RADIAL†	913212.4	69.10 mg/L	0.750	69.10 mg/L	0.750	1.09%

Sequence No.: 66

Sample ID: 14C1018-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 57

Date Collected: 4/1/2014 10:43:35 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1018-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16498082.4	4.984 mg/L		0.0138			0.28%
Y RADIAL	185682.7	5.019 mg/L		0.0413			0.82%
As 188.979†	-10.7	-0.0036 mg/L		0.00160	-0.0036 mg/L	0.00160	44.00%
Tl 190.801†	5.4	0.0017 mg/L		0.00108	0.0017 mg/L	0.00108	61.89%
Se 196.026†	-3.3	0.0000 mg/L		0.00239	0.0000 mg/L	0.00239	>999.9%
Zn 206.200†	1287.5	0.0260 mg/L		0.00009	0.0260 mg/L	0.00009	0.33%
Sb 206.836†	-4.2	-0.0010 mg/L		0.00121	-0.0010 mg/L	0.00121	121.42%
Pb 220.353†	42.4	0.0055 mg/L		0.00165	0.0055 mg/L	0.00165	30.22%
Cd 226.502†	136.5	0.0004 mg/L		0.00009	0.0004 mg/L	0.00009	21.18%
Co 228.616†	11.3	0.0004 mg/L		0.00030	0.0004 mg/L	0.00030	75.29%
Ni 232.003†	46.1	0.0030 mg/L		0.00035	0.0030 mg/L	0.00035	11.64%
Ba 233.527†	183.3	0.0016 mg/L		0.00008	0.0016 mg/L	0.00008	5.06%
Mn 257.610†	242104.3	0.4024 mg/L		0.00174	0.4024 mg/L	0.00174	0.43%
Cr 267.716†	-17.5	-0.0002 mg/L		0.00005	-0.0002 mg/L	0.00005	30.71%
Fe 273.955†	56962.1	3.737 mg/L		0.0209	3.737 mg/L	0.0209	0.56%
Mg 279.077†	80271.6	6.086 mg/L		0.0224	6.086 mg/L	0.0224	0.37%
V 292.402†	38.0	-0.0002 mg/L		0.00007	-0.0002 mg/L	0.00007	36.99%
Al 308.215†	46.0	0.0013 mg/L		0.00198	0.0013 mg/L	0.00198	155.08%
Be 313.107†	522.9	0.0001 mg/L		0.00003	0.0001 mg/L	0.00003	19.04%
Cu 324.752†	14621.9	0.0427 mg/L		0.00032	0.0427 mg/L	0.00032	0.75%
Ag 338.289†	4.7	-0.0003 mg/L		0.00019	-0.0003 mg/L	0.00019	67.74%
Na 330.237†	47241.8	36.43 mg/L		0.159	36.43 mg/L	0.159	0.44%
Ca 227.546†	16260.5	28.66 mg/L		0.121	28.66 mg/L	0.121	0.42%
Al RADIAL†	6.2	0.0035 mg/L		0.00331	0.0035 mg/L	0.00331	95.17%
Fe RADIAL†	239.4	3.741 mg/L		0.0289	3.741 mg/L	0.0289	0.77%
Ca RADIAL†	41228.7	30.91 mg/L		0.122	30.91 mg/L	0.122	0.39%
K RADIAL†	4916.4	3.788 mg/L		0.0096	3.788 mg/L	0.0096	0.25%
Mg RADIAL†	559.2	6.112 mg/L		0.0435	6.112 mg/L	0.0435	0.71%
Na RADIAL†	562206.5	42.54 mg/L		0.124	42.54 mg/L	0.124	0.29%

Sequence No.: 67

Sample ID: SEQ-SRD2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 58

Date Collected: 4/1/2014 10:48:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-SRD2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16619381.5	5.021 mg/L		0.0843			1.68%
Y RADIAL	185528.4	5.014 mg/L		0.0521			1.04%
As 188.979†	-10.0	-0.0010 mg/L		0.00199	-0.0010 mg/L	0.00199	209.79%
Tl 190.801†	-16.4	-0.0027 mg/L		0.00134	-0.0027 mg/L	0.00134	50.00%
Se 196.026†	-17.5	0.0003 mg/L		0.00253	0.0003 mg/L	0.00253	775.83%
Zn 206.200†	2257.0	0.0447 mg/L		0.00041	0.0447 mg/L	0.00041	0.91%

Sb 206.836†	-5.9	-0.0016 mg/L	0.00162	-0.0016 mg/L	0.00162	102.61%
Pb 220.353†	199.8	0.0250 mg/L	0.00198	0.0250 mg/L	0.00198	7.91%
Cd 226.502†	543.2	0.0007 mg/L	0.00013	0.0007 mg/L	0.00013	20.44%
Co 228.616†	889.4	0.0316 mg/L	0.00037	0.0316 mg/L	0.00037	1.17%
Ni 232.003†	737.0	0.0418 mg/L	0.00078	0.0418 mg/L	0.00078	1.87%
Ba 233.527†	53259.3	0.4781 mg/L	0.00484	0.4781 mg/L	0.00484	1.01%
Mn 257.610†	1706753.8	2.837 mg/L	0.0157	2.837 mg/L	0.0157	0.55%
Cr 267.716†	4216.9	0.0402 mg/L	0.00031	0.0402 mg/L	0.00031	0.77%
Fe 273.955†	308413.8	20.24 mg/L	0.108	20.24 mg/L	0.108	0.53%
Mg 279.077†	138983.6	10.54 mg/L	0.109	10.54 mg/L	0.109	1.04%
V 292.402†	7836.7	0.0244 mg/L	0.00027	0.0244 mg/L	0.00027	1.12%
Al 308.215†	357558.5	11.07 mg/L	0.051	11.07 mg/L	0.051	0.46%
Be 313.107†	2006.4	0.0005 mg/L	0.00001	0.0005 mg/L	0.00001	2.67%
Cu 324.752†	5937.0	0.0179 mg/L	0.00059	0.0179 mg/L	0.00059	3.31%
Ag 338.289†	-364.5	-0.0022 mg/L	0.00016	-0.0022 mg/L	0.00016	7.21%
Na 330.237†	13887.9	10.82 mg/L	0.132	10.82 mg/L	0.132	1.22%
Ca 227.546†	9236.5	16.37 mg/L	0.078	16.37 mg/L	0.078	0.47%
Al RADIAL†	20522.8	11.48 mg/L	0.032	11.48 mg/L	0.032	0.28%
Fe RADIAL†	1293.2	20.21 mg/L	0.188	20.21 mg/L	0.188	0.93%
Ca RADIAL†	22959.4	17.22 mg/L	0.053	17.22 mg/L	0.053	0.31%
K RADIAL†	3426.2	2.640 mg/L	0.0151	2.640 mg/L	0.0151	0.57%
Mg RADIAL†	936.4	10.23 mg/L	0.064	10.23 mg/L	0.064	0.63%
Na RADIAL†	180507.7	13.66 mg/L	0.037	13.66 mg/L	0.037	0.27%

Sequence No.: 68

Sample ID: SEQ-CCV6

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 4/1/2014 10:53:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV6

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16256507.6	4.911 mg/L	0.0055			0.11%
Y RADIAL	182358.2	4.929 mg/L	0.0310			0.63%
As 188.979†	632.2	0.2490 mg/L	0.00139	0.2490 mg/L	0.00139	0.56%
Tl 190.801†	997.8	0.2685 mg/L	0.00128	0.2685 mg/L	0.00128	0.48%
Se 196.026†	316.6	0.2547 mg/L	0.00912	0.2547 mg/L	0.00912	3.58%
Zn 206.200†	127337.5	2.590 mg/L	0.0101	2.590 mg/L	0.0101	0.39%
Sb 206.836†	1075.2	0.2570 mg/L	0.00155	0.2570 mg/L	0.00155	0.60%
Pb 220.353†	1906.0	0.2525 mg/L	0.00210	0.2525 mg/L	0.00210	0.83%
Cd 226.502†	15597.1	0.1276 mg/L	0.00135	0.1276 mg/L	0.00135	1.06%
Co 228.616†	70549.9	2.506 mg/L	0.0203	2.506 mg/L	0.0203	0.81%
Ni 232.003†	48215.7	2.516 mg/L	0.0209	2.516 mg/L	0.0209	0.83%
Ba 233.527†	1136601.1	10.20 mg/L	0.131	10.20 mg/L	0.131	1.28%
Mn 257.610†	1511700.1	2.512 mg/L	0.0327	2.512 mg/L	0.0327	1.30%
Cr 267.716†	108865.5	1.039 mg/L	0.0077	1.039 mg/L	0.0077	0.74%
Fe 273.955†	76747.7	5.036 mg/L	0.0385	5.036 mg/L	0.0385	0.77%
Mg 279.077†	327962.8	24.87 mg/L	0.301	24.87 mg/L	0.301	1.21%
V 292.402†	751126.6	2.492 mg/L	0.0352	2.492 mg/L	0.0352	1.41%
Al 308.215†	305119.3	9.441 mg/L	0.1159	9.441 mg/L	0.1159	1.23%
Be 313.107†	947639.6	0.2434 mg/L	0.00333	0.2434 mg/L	0.00333	1.37%
Cu 324.752†	411305.6	1.214 mg/L	0.0138	1.214 mg/L	0.0138	1.14%
Ag 338.289†	214382.5	1.221 mg/L	0.0160	1.221 mg/L	0.0160	1.31%
Na 330.237†	29996.5	23.16 mg/L	0.419	23.16 mg/L	0.419	1.81%
Ca 227.546†	13283.2	23.43 mg/L	0.176	23.43 mg/L	0.176	0.75%
Al RADIAL†	17979.7	10.06 mg/L	0.072	10.06 mg/L	0.072	0.72%
Fe RADIAL†	318.7	4.981 mg/L	0.0799	4.981 mg/L	0.0799	1.60%
Ca RADIAL†	33891.3	25.41 mg/L	0.233	25.41 mg/L	0.233	0.92%
K RADIAL†	6321.2	4.871 mg/L	0.0453	4.871 mg/L	0.0453	0.93%
Mg RADIAL†	2337.9	25.55 mg/L	0.243	25.55 mg/L	0.243	0.95%
Na RADIAL†	325145.7	24.60 mg/L	0.085	24.60 mg/L	0.085	0.35%

Sequence No.: 69

Sample ID: SEQ-CCB6

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 4/1/2014 11:01:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB6

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16721036.4	5.052 mg/L	0.0656			1.30%
Y RADIAL	182040.9	4.920 mg/L	0.0175			0.36%
As 188.979†	-2.5	-0.0010 mg/L	0.00210	-0.0010 mg/L	0.00210	217.08%
Tl 190.801†	5.3	0.0014 mg/L	0.00156	0.0014 mg/L	0.00156	108.84%
Se 196.026†	0.8	0.0007 mg/L	0.00351	0.0007 mg/L	0.00351	524.55%
Zn 206.200†	-24.1	-0.0005 mg/L	0.00005	-0.0005 mg/L	0.00005	11.15%
Sb 206.836†	1.1	0.0003 mg/L	0.00115	0.0003 mg/L	0.00115	421.75%
Pb 220.353†	-11.2	-0.0015 mg/L	0.00103	-0.0015 mg/L	0.00103	69.77%
Cd 226.502†	18.2	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	52.98%
Co 228.616†	9.3	0.0003 mg/L	0.00012	0.0003 mg/L	0.00012	37.29%
Ni 232.003†	23.1	0.0012 mg/L	0.00014	0.0012 mg/L	0.00014	11.40%
Ba 233.527†	15.5	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	31.80%
Mn 257.610†	6.6	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	115.14%
Cr 267.716†	-12.4	-0.0001 mg/L	0.00020	-0.0001 mg/L	0.00020	166.02%
Fe 273.955†	9.0	0.0006 mg/L	0.00028	0.0006 mg/L	0.00028	48.47%
Mg 279.077†	-17.4	-0.0013 mg/L	0.00035	-0.0013 mg/L	0.00035	26.85%
V 292.402†	-20.1	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	64.27%
Al 308.215†	-241.3	-0.0075 mg/L	0.00254	-0.0075 mg/L	0.00254	34.08%
Be 313.107†	66.9	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	20.88%
Cu 324.752†	-628.0	-0.0019 mg/L	0.00005	-0.0019 mg/L	0.00005	2.86%
Ag 338.289†	68.2	0.0004 mg/L	0.00022	0.0004 mg/L	0.00022	55.83%
Na 330.237†	-105.7	-0.0815 mg/L	0.00762	-0.0815 mg/L	0.00762	9.36%
Ca 227.546†	-32.9	-0.0580 mg/L	0.01939	-0.0580 mg/L	0.01939	33.43%
Al RADIAL†	-4.9	-0.0028 mg/L	0.00548	-0.0028 mg/L	0.00548	198.63%
Fe RADIAL†	0.3	0.0041 mg/L	0.01845	0.0041 mg/L	0.01845	448.86%
Ca RADIAL†	12.5	0.0094 mg/L	0.00595	0.0094 mg/L	0.00595	63.33%
K RADIAL†	19.3	0.0148 mg/L	0.00970	0.0148 mg/L	0.00970	65.38%
Mg RADIAL†	-1.5	-0.0163 mg/L	0.01021	-0.0163 mg/L	0.01021	62.78%
Na RADIAL†	-821.7	-0.0622 mg/L	0.00312	-0.0622 mg/L	0.00312	5.02%

Sequence No.: 70

Sample ID: BD40040-BLK1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 59

Date Collected: 4/1/2014 11:06:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40040-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16522988.8	4.992 mg/L	0.0228			0.46%
Y RADIAL	180883.9	4.889 mg/L	0.0409			0.84%
As 188.979†	-5.5	-0.0022 mg/L	0.00229	-0.0022 mg/L	0.00229	105.64%
Tl 190.801†	7.7	0.0021 mg/L	0.00200	0.0021 mg/L	0.00200	97.00%
Se 196.026†	3.4	0.0027 mg/L	0.00075	0.0027 mg/L	0.00075	27.81%
Zn 206.200†	-21.2	-0.0004 mg/L	0.00011	-0.0004 mg/L	0.00011	25.26%
Sb 206.836†	-6.8	-0.0016 mg/L	0.00111	-0.0016 mg/L	0.00111	68.35%
Pb 220.353†	-13.0	-0.0017 mg/L	0.00090	-0.0017 mg/L	0.00090	52.60%
Cd 226.502†	5.0	0.0000 mg/L	0.00010	0.0000 mg/L	0.00010	242.97%
Co 228.616†	10.5	0.0004 mg/L	0.00021	0.0004 mg/L	0.00021	56.25%
Ni 232.003†	18.5	0.0010 mg/L	0.00038	0.0010 mg/L	0.00038	39.70%
Ba 233.527†	4.5	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	91.44%
Mn 257.610†	7.6	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	148.58%
Cr 267.716†	-8.3	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	45.66%
Fe 273.955†	28.1	0.0018 mg/L	0.00223	0.0018 mg/L	0.00223	121.32%
Mg 279.077†	-7.4	-0.0006 mg/L	0.00046	-0.0006 mg/L	0.00046	81.32%
V 292.402†	-25.6	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006	73.07%
Al 308.215†	-154.3	-0.0048 mg/L	0.00179	-0.0048 mg/L	0.00179	37.45%
Be 313.107†	19.0	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	48.62%
Cu 324.752†	-924.7	-0.0027 mg/L	0.00005	-0.0027 mg/L	0.00005	1.70%
Ag 338.289†	-39.8	-0.0002 mg/L	0.00020	-0.0002 mg/L	0.00020	88.55%
Na 330.237†	-144.3	-0.1111 mg/L	0.02206	-0.1111 mg/L	0.02206	19.85%
Ca 227.546†	-11.2	-0.0198 mg/L	0.03753	-0.0198 mg/L	0.03753	189.77%
Al RADIAL†	-10.3	-0.0057 mg/L	0.00564	-0.0057 mg/L	0.00564	98.36%
Fe RADIAL†	-0.1	-0.0023 mg/L	0.01607	-0.0023 mg/L	0.01607	712.41%
Ca RADIAL†	6.8	0.0051 mg/L	0.00937	0.0051 mg/L	0.00937	184.57%
K RADIAL†	20.6	0.0158 mg/L	0.00708	0.0158 mg/L	0.00708	44.69%

Mg RADIAL†	-0.1	-0.0011 mg/L	0.03320	-0.0011 mg/L	0.03320	>999.9%
Na RADIAL†	-855.6	-0.0647 mg/L	0.00287	-0.0647 mg/L	0.00287	4.43%

Sequence No.: 71

Sample ID: BD40040-SRM1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 60

Date Collected: 4/1/2014 11:11:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40040-SRM1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16427254.4	4.963 mg/L		0.0258			0.52%
Y RADIAL	190931.1	5.160 mg/L		0.0210			0.41%
As 188.979†	2401.7	0.9605 mg/L		0.00862	0.9605 mg/L	0.00862	0.90%
Tl 190.801†	5981.5	1.617 mg/L		0.0132	1.617 mg/L	0.0132	0.81%
Se 196.026†	1699.9	1.431 mg/L		0.0090	1.431 mg/L	0.0090	0.63%
Zn 206.200†	73832.6	1.494 mg/L		0.0052	1.494 mg/L	0.0052	0.35%
Sb 206.836†	6210.4	1.484 mg/L		0.0100	1.484 mg/L	0.0100	0.67%
Pb 220.353†	7756.0	1.019 mg/L		0.0043	1.019 mg/L	0.0043	0.43%
Cd 226.502†	202666.4	1.648 mg/L		0.0075	1.648 mg/L	0.0075	0.46%
Co 228.616†	33991.2	1.208 mg/L		0.0073	1.208 mg/L	0.0073	0.61%
Ni 232.003†	28908.6	1.527 mg/L		0.0067	1.527 mg/L	0.0067	0.44%
Ba 233.527†	323599.5	2.905 mg/L		0.0099	2.905 mg/L	0.0099	0.34%
Mn 257.610†	1831786.1	3.050 mg/L		0.0106	3.050 mg/L	0.0106	0.35%
Cr 267.716†	133583.4	1.275 mg/L		0.0055	1.275 mg/L	0.0055	0.44%
Fe 273.955†	1792060.1	117.6 mg/L		0.55	117.6 mg/L	0.55	0.47%
Mg 279.077†	375043.0	28.44 mg/L		0.102	28.44 mg/L	0.102	0.36%
V 292.402†	281390.1	0.9243 mg/L		0.00239	0.9243 mg/L	0.00239	0.26%
Al 308.215†	2803215.6	86.75 mg/L		0.657	86.75 mg/L	0.657	0.76%
Be 313.107†	2567660.6	0.6595 mg/L		0.00062	0.6595 mg/L	0.00062	0.09%
Cu 324.752†	345378.7	1.023 mg/L		0.0068	1.023 mg/L	0.0068	0.67%
Ag 338.289†	60777.0	0.3455 mg/L		0.00229	0.3455 mg/L	0.00229	0.66%
Na 330.237†	34061.4	26.90 mg/L		0.206	26.90 mg/L	0.206	0.77%
Ca 227.546†	34000.6	60.50 mg/L		0.284	60.50 mg/L	0.284	0.47%
Al RADIAL†	147684.4	82.61 mg/L		0.133	82.61 mg/L	0.133	0.16%
Fe RADIAL†	7724.3	120.7 mg/L		0.67	120.7 mg/L	0.67	0.56%
Ca RADIAL†	80230.2	60.16 mg/L		0.113	60.16 mg/L	0.113	0.19%
K RADIAL†	33763.2	26.02 mg/L		0.023	26.02 mg/L	0.023	0.09%
Mg RADIAL†	2616.3	28.60 mg/L		0.158	28.60 mg/L	0.158	0.55%
Na RADIAL†	391643.5	29.64 mg/L		0.282	29.64 mg/L	0.282	0.95%

Sequence No.: 72

Sample ID: 14C0926-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 61

Date Collected: 4/1/2014 11:19:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0926-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16694710.7	5.044 mg/L		0.0759			1.50%
Y RADIAL	192124.5	5.193 mg/L		0.0631			1.22%
As 188.979†	39.7	0.0299 mg/L		0.00396	0.0299 mg/L	0.00396	13.27%
Tl 190.801†	-29.5	0.0003 mg/L		0.00099	0.0003 mg/L	0.00099	334.54%
Se 196.026†	-90.2	-0.0032 mg/L		0.00197	-0.0032 mg/L	0.00197	60.77%
Zn 206.200†	15439.0	0.3085 mg/L		0.00369	0.3085 mg/L	0.00369	1.19%
Sb 206.836†	14.7	0.0029 mg/L		0.00168	0.0029 mg/L	0.00168	58.57%
Pb 220.353†	474.8	0.0542 mg/L		0.00141	0.0542 mg/L	0.00141	2.60%
Cd 226.502†	2522.5	0.0025 mg/L		0.00055	0.0025 mg/L	0.00055	22.39%
Co 228.616†	1441.8	0.0512 mg/L		0.00114	0.0512 mg/L	0.00114	2.22%
Ni 232.003†	1999.0	0.1202 mg/L		0.00148	0.1202 mg/L	0.00148	1.23%
Ba 233.527†	45102.4	0.4049 mg/L		0.00464	0.4049 mg/L	0.00464	1.15%
Mn 257.610†	1800455.9	2.997 mg/L		0.0413	2.997 mg/L	0.0413	1.38%
Cr 267.716†	5875.6	0.0561 mg/L		0.00063	0.0561 mg/L	0.00063	1.13%
Fe 273.955†	1481187.8	97.18 mg/L		1.368	97.18 mg/L	1.368	1.41%
Mg 279.077†	205316.3	15.57 mg/L		0.205	15.57 mg/L	0.205	1.32%
V 292.402†	23218.6	0.0692 mg/L		0.00118	0.0692 mg/L	0.00118	1.70%

Al 308.215†	1401214.5	43.37 mg/L	0.602	43.37 mg/L	0.602	1.39%
Be 313.107†	6475.6	0.0017 mg/L	0.00003	0.0017 mg/L	0.00003	1.90%
Cu 324.752†	44929.5	0.1366 mg/L	0.00168	0.1366 mg/L	0.00168	1.23%
Ag 338.289†	-512.7	-0.0030 mg/L	0.00040	-0.0030 mg/L	0.00040	13.38%
Na 330.237†	2550.4	2.449 mg/L	0.1238	2.449 mg/L	0.1238	5.05%
Ca 227.546†	2673.8	5.191 mg/L	0.0494	5.191 mg/L	0.0494	0.95%
Al RADIAL†	79363.8	44.39 mg/L	0.169	44.39 mg/L	0.169	0.38%
Fe RADIAL†	6300.1	98.45 mg/L	1.731	98.45 mg/L	1.731	1.76%
Ca RADIAL†	7217.3	5.412 mg/L	0.0938	5.412 mg/L	0.0938	1.73%
K RADIAL†	6941.8	5.349 mg/L	0.0196	5.349 mg/L	0.0196	0.37%
Mg RADIAL†	1417.0	15.49 mg/L	0.182	15.49 mg/L	0.182	1.17%
Na RADIAL†	47415.1	3.588 mg/L	0.1426	3.588 mg/L	0.1426	3.97%

Sequence No.: 73

Sample ID: 14C0950-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 62

Date Collected: 4/1/2014 11:24:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0950-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16092060.2	4.862 mg/L		0.0449				0.92%
Y RADIAL	193939.8	5.242 mg/L		0.0134				0.26%
As 188.979†	-4.5	0.0128 mg/L		0.00213	0.0128 mg/L		0.00213	16.63%
Tl 190.801†	-70.4	-0.0103 mg/L		0.00031	-0.0103 mg/L		0.00031	3.02%
Se 196.026†	-30.4	0.0456 mg/L		0.00120	0.0456 mg/L		0.00120	2.64%
Zn 206.200†	213692.5	4.340 mg/L		0.0300	4.340 mg/L		0.0300	0.69%
Sb 206.836†	90.2	0.0205 mg/L		0.00140	0.0205 mg/L		0.00140	6.80%
Pb 220.353†	2715.4	0.3541 mg/L		0.00175	0.3541 mg/L		0.00175	0.50%
Cd 226.502†	4252.1	0.0164 mg/L		0.00032	0.0164 mg/L		0.00032	1.93%
Co 228.616†	851.5	0.0303 mg/L		0.00067	0.0303 mg/L		0.00067	2.21%
Ni 232.003†	4609.8	0.2567 mg/L		0.00218	0.2567 mg/L		0.00218	0.85%
Ba 233.527†	490865.7	4.407 mg/L		0.0262	4.407 mg/L		0.0262	0.60%
Mn 257.610†	4529571.6	7.532 mg/L		0.0495	7.532 mg/L		0.0495	0.66%
Cr 267.716†	51565.1	0.4920 mg/L		0.00218	0.4920 mg/L		0.00218	0.44%
Fe 273.955†	1510669.4	99.12 mg/L		0.732	99.12 mg/L		0.732	0.74%
Mg 279.077†	378622.1	28.71 mg/L		0.199	28.71 mg/L		0.199	0.69%
V 292.402†	41980.1	0.1313 mg/L		0.00039	0.1313 mg/L		0.00039	0.30%
Al 308.215†	2225667.3	68.88 mg/L		0.523	68.88 mg/L		0.523	0.76%
Be 313.107†	-779.0	-0.0002 mg/L		0.00005	-0.0002 mg/L		0.00005	26.13%
Cu 324.752†	1510434.8	4.460 mg/L		0.0373	4.460 mg/L		0.0373	0.84%
Ag 338.289†	6237.0	0.0342 mg/L		0.00036	0.0342 mg/L		0.00036	1.07%
Na 330.237†	14545.4	11.90 mg/L		0.128	11.90 mg/L		0.128	1.08%
Ca 227.546†	72817.2	128.8 mg/L		1.33	128.8 mg/L		1.33	1.03%
Al RADIAL†	119823.7	67.03 mg/L		0.046	67.03 mg/L		0.046	0.07%
Fe RADIAL†	6476.3	101.2 mg/L		0.17	101.2 mg/L		0.17	0.17%
Ca RADIAL†	178048.9	133.5 mg/L		0.21	133.5 mg/L		0.21	0.16%
K RADIAL†	38233.0	29.46 mg/L		0.127	29.46 mg/L		0.127	0.43%
Mg RADIAL†	2638.0	28.83 mg/L		0.115	28.83 mg/L		0.115	0.40%
Na RADIAL†	126746.1	9.591 mg/L		0.0360	9.591 mg/L		0.0360	0.38%

Sequence No.: 74

Sample ID: 14C0952-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 63

Date Collected: 4/1/2014 11:29:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0952-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15270626.7	4.613 mg/L		0.0676				1.47%
Y RADIAL	184781.3	4.994 mg/L		0.0433				0.87%
As 188.979†	-21.7	0.0055 mg/L		0.00088	0.0055 mg/L		0.00088	15.95%
Tl 190.801†	-145.4	-0.0309 mg/L		0.00495	-0.0309 mg/L		0.00495	16.03%
Se 196.026†	-93.8	-0.0072 mg/L		0.00645	-0.0072 mg/L		0.00645	89.97%
Zn 206.200†	16642.4	0.3329 mg/L		0.00448	0.3329 mg/L		0.00448	1.35%
Sb 206.836†	-0.6	-0.0009 mg/L		0.00090	-0.0009 mg/L		0.00090	98.56%

Pb 220.353†	1591.2	0.2057 mg/L	0.00467	0.2057 mg/L	0.00467	2.27%
Cd 226.502†	2783.9	0.0049 mg/L	0.00013	0.0049 mg/L	0.00013	2.56%
Co 228.616†	1676.3	0.0596 mg/L	0.00041	0.0596 mg/L	0.00041	0.69%
Ni 232.003†	2526.6	0.1474 mg/L	0.00142	0.1474 mg/L	0.00142	0.96%
Ba 233.527†	51647.6	0.4637 mg/L	0.00638	0.4637 mg/L	0.00638	1.38%
Mn 257.610†	586338.9	0.9771 mg/L	0.01353	0.9771 mg/L	0.01353	1.38%
Cr 267.716†	10864.1	0.1037 mg/L	0.00229	0.1037 mg/L	0.00229	2.21%
Fe 273.955†	1458584.6	95.70 mg/L	0.844	95.70 mg/L	0.844	0.88%
Mg 279.077†	1764591.4	133.8 mg/L	1.22	133.8 mg/L	1.22	0.91%
V 292.402†	48310.3	0.1526 mg/L	0.00299	0.1526 mg/L	0.00299	1.96%
Al 308.215†	1683534.1	52.10 mg/L	0.496	52.10 mg/L	0.496	0.95%
Be 313.107†	-36215.0	-0.0093 mg/L	0.00027	-0.0093 mg/L	0.00027	2.86%
Cu 324.752†	198249.4	0.5828 mg/L	0.00908	0.5828 mg/L	0.00908	1.56%
Ag 338.289†	-4156.8	-0.0262 mg/L	0.00073	-0.0262 mg/L	0.00073	2.78%
Na 330.237†	-661.0	0.3825 mg/L	0.04212	0.3825 mg/L	0.04212	11.01%
Ca 227.546†	138427.4	244.4 mg/L	3.17	244.4 mg/L	3.17	1.30%
Al RADIAL†	88735.3	49.64 mg/L	0.097	49.64 mg/L	0.097	0.20%
Fe RADIAL†	6126.7	95.74 mg/L	1.786	95.74 mg/L	1.786	1.87%
Ca RADIAL†	309320.0	231.9 mg/L	0.17	231.9 mg/L	0.17	0.07%
K RADIAL†	30497.4	23.50 mg/L	0.447	23.50 mg/L	0.447	1.90%
Mg RADIAL†	11771.9	128.7 mg/L	1.82	128.7 mg/L	1.82	1.41%
Na RADIAL†	44581.1	3.374 mg/L	0.0295	3.374 mg/L	0.0295	0.87%

Sequence No.: 75

Sample ID: 14C0952-03

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 64

Date Collected: 4/1/2014 11:33:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0952-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	14855634.1	4.488 mg/L		0.0129			0.29%
Y RADIAL	182183.8	4.924 mg/L		0.0514			1.04%
As 188.979†	-3.6	0.0104 mg/L		0.00568	0.0104 mg/L	0.00568	54.87%
Tl 190.801†	-132.2	-0.0285 mg/L		0.00142	-0.0285 mg/L	0.00142	5.00%
Se 196.026†	-89.9	-0.0150 mg/L		0.00632	-0.0150 mg/L	0.00632	42.05%
Zn 206.200†	14321.6	0.2863 mg/L		0.00070	0.2863 mg/L	0.00070	0.24%
Sb 206.836†	-15.6	-0.0046 mg/L		0.00153	-0.0046 mg/L	0.00153	33.32%
Pb 220.353†	675.2	0.0905 mg/L		0.00101	0.0905 mg/L	0.00101	1.12%
Cd 226.502†	2436.4	0.0050 mg/L		0.00018	0.0050 mg/L	0.00018	3.71%
Co 228.616†	1225.3	0.0435 mg/L		0.00002	0.0435 mg/L	0.00002	0.05%
Ni 232.003†	1911.4	0.1128 mg/L		0.00163	0.1128 mg/L	0.00163	1.45%
Ba 233.527†	41043.4	0.3685 mg/L		0.00027	0.3685 mg/L	0.00027	0.07%
Mn 257.610†	1030062.1	1.711 mg/L		0.0054	1.711 mg/L	0.0054	0.32%
Cr 267.716†	9075.3	0.0866 mg/L		0.00025	0.0866 mg/L	0.00025	0.29%
Fe 273.955†	1219871.5	80.04 mg/L		0.190	80.04 mg/L	0.190	0.24%
Mg 279.077†	3579776.5	271.4 mg/L		0.85	271.4 mg/L	0.85	0.31%
V 292.402†	43937.0	0.1393 mg/L		0.00026	0.1393 mg/L	0.00026	0.19%
Al 308.215†	1889928.9	58.48 mg/L		0.096	58.48 mg/L	0.096	0.16%
Be 313.107†	-23174.0	-0.0060 mg/L		0.00004	-0.0060 mg/L	0.00004	0.66%
Cu 324.752†	40595.8	0.1092 mg/L		0.00053	0.1092 mg/L	0.00053	0.49%
Ag 338.289†	-2789.1	-0.0214 mg/L		0.00074	-0.0214 mg/L	0.00074	3.44%
Na 330.237†	-113.8	1.215 mg/L		0.0800	1.215 mg/L	0.0800	6.59%
Ca 227.546†	298929.7	527.1 mg/L		1.48	527.1 mg/L	1.48	0.28%
Al RADIAL†	95959.3	53.68 mg/L		0.143	53.68 mg/L	0.143	0.27%
Fe RADIAL†	5147.1	80.43 mg/L		1.534	80.43 mg/L	1.534	1.91%
Ca RADIAL†	643245.1	482.3 mg/L		0.49	482.3 mg/L	0.49	0.10%
K RADIAL†	17162.0	13.22 mg/L		0.327	13.22 mg/L	0.327	2.48%
Mg RADIAL†	23840.2	260.6 mg/L		4.58	260.6 mg/L	4.58	1.76%
Na RADIAL†	42148.8	3.189 mg/L		0.0312	3.189 mg/L	0.0312	0.98%

Sequence No.: 76

Sample ID: 14C0952-04

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 65

Date Collected: 4/1/2014 11:38:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0952-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14775261.5	4.464	mg/L	0.0442				0.99%
Y RADIAL	182885.7	4.943	mg/L	0.0261				0.53%
As 188.979†	-17.8	0.0034	mg/L	0.00353	0.0034	mg/L	0.00353	103.11%
Tl 190.801†	-102.1	-0.0214	mg/L	0.00248	-0.0214	mg/L	0.00248	11.62%
Se 196.026†	-72.4	-0.0076	mg/L	0.00449	-0.0076	mg/L	0.00449	58.80%
Zn 206.200†	11507.3	0.2299	mg/L	0.00217	0.2299	mg/L	0.00217	0.95%
Sb 206.836†	-11.3	-0.0033	mg/L	0.00099	-0.0033	mg/L	0.00099	30.19%
Pb 220.353†	172.5	0.0232	mg/L	0.00182	0.0232	mg/L	0.00182	7.84%
Cd 226.502†	2085.9	0.0038	mg/L	0.00025	0.0038	mg/L	0.00025	6.46%
Co 228.616†	987.6	0.0351	mg/L	0.00021	0.0351	mg/L	0.00021	0.60%
Ni 232.003†	1204.3	0.0744	mg/L	0.00248	0.0744	mg/L	0.00248	3.34%
Ba 233.527†	21961.4	0.1972	mg/L	0.00194	0.1972	mg/L	0.00194	0.98%
Mn 257.610†	806066.1	1.339	mg/L	0.0035	1.339	mg/L	0.0035	0.26%
Cr 267.716†	6585.8	0.0628	mg/L	0.00085	0.0628	mg/L	0.00085	1.35%
Fe 273.955†	1079273.7	70.81	mg/L	0.131	70.81	mg/L	0.131	0.18%
Mg 279.077†	2884191.0	218.7	mg/L	0.66	218.7	mg/L	0.66	0.30%
V 292.402†	33661.3	0.1060	mg/L	0.00122	0.1060	mg/L	0.00122	1.15%
Al 308.215†	1233543.9	38.17	mg/L	0.374	38.17	mg/L	0.374	0.98%
Be 313.107†	-20443.3	-0.0053	mg/L	0.00008	-0.0053	mg/L	0.00008	1.49%
Cu 324.752†	29209.3	0.0764	mg/L	0.00060	0.0764	mg/L	0.00060	0.78%
Ag 338.289†	-2072.4	-0.0172	mg/L	0.00043	-0.0172	mg/L	0.00043	2.52%
Na 330.237†	-133.8	1.123	mg/L	0.0715	1.123	mg/L	0.0715	6.37%
Ca 227.546†	290457.5	512.1	mg/L	5.14	512.1	mg/L	5.14	1.00%
Al RADIAL†	62551.8	34.99	mg/L	0.037	34.99	mg/L	0.037	0.11%
Fe RADIAL†	4554.4	71.17	mg/L	1.021	71.17	mg/L	1.021	1.43%
Ca RADIAL†	640974.2	480.6	mg/L	0.58	480.6	mg/L	0.58	0.12%
K RADIAL†	9550.8	7.359	mg/L	0.1088	7.359	mg/L	0.1088	1.48%
Mg RADIAL†	19218.5	210.1	mg/L	1.16	210.1	mg/L	1.16	0.55%
Na RADIAL†	35807.7	2.710	mg/L	0.0021	2.710	mg/L	0.0021	0.08%

Sequence No.: 77

Sample ID: 14C0952-05

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 66

Date Collected: 4/1/2014 11:42:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0952-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14617290.9	4.416	mg/L	0.0421				0.95%
Y RADIAL	180339.5	4.874	mg/L	0.0256				0.53%
As 188.979†	-10.3	0.0123	mg/L	0.00466	0.0123	mg/L	0.00466	37.74%
Tl 190.801†	-198.5	-0.0435	mg/L	0.00070	-0.0435	mg/L	0.00070	1.60%
Se 196.026†	-121.4	-0.0180	mg/L	0.00975	-0.0180	mg/L	0.00975	54.21%
Zn 206.200†	25873.8	0.5192	mg/L	0.00654	0.5192	mg/L	0.00654	1.26%
Sb 206.836†	-8.3	-0.0033	mg/L	0.00149	-0.0033	mg/L	0.00149	45.47%
Pb 220.353†	393.2	0.0522	mg/L	0.00115	0.0522	mg/L	0.00115	2.20%
Cd 226.502†	3462.4	0.0075	mg/L	0.00032	0.0075	mg/L	0.00032	4.23%
Co 228.616†	1885.9	0.0670	mg/L	0.00078	0.0670	mg/L	0.00078	1.17%
Ni 232.003†	2973.2	0.1733	mg/L	0.00272	0.1733	mg/L	0.00272	1.57%
Ba 233.527†	68167.7	0.6120	mg/L	0.00785	0.6120	mg/L	0.00785	1.28%
Mn 257.610†	1303566.0	2.167	mg/L	0.0211	2.167	mg/L	0.0211	0.97%
Cr 267.716†	15416.3	0.1471	mg/L	0.00210	0.1471	mg/L	0.00210	1.43%
Fe 273.955†	1697754.5	111.4	mg/L	1.05	111.4	mg/L	1.05	0.94%
Mg 279.077†	3808468.3	288.7	mg/L	3.01	288.7	mg/L	3.01	1.04%
V 292.402†	65947.2	0.2098	mg/L	0.00262	0.2098	mg/L	0.00262	1.25%
Al 308.215†	2808154.5	86.89	mg/L	0.994	86.89	mg/L	0.994	1.14%
Be 313.107†	-41813.4	-0.0107	mg/L	0.00013	-0.0107	mg/L	0.00013	1.23%
Cu 324.752†	53749.2	0.1484	mg/L	0.00233	0.1484	mg/L	0.00233	1.57%
Ag 338.289†	-5444.2	-0.0369	mg/L	0.00048	-0.0369	mg/L	0.00048	1.32%
Na 330.237†	-1613.0	0.2647	mg/L	0.06935	0.2647	mg/L	0.06935	26.20%
Ca 227.546†	315138.1	555.8	mg/L	7.22	555.8	mg/L	7.22	1.30%
Al RADIAL†	141065.2	78.91	mg/L	0.156	78.91	mg/L	0.156	0.20%
Fe RADIAL†	7173.7	112.1	mg/L	0.50	112.1	mg/L	0.50	0.45%
Ca RADIAL†	673297.2	504.9	mg/L	1.03	504.9	mg/L	1.03	0.20%
K RADIAL†	33930.1	26.14	mg/L	0.091	26.14	mg/L	0.091	0.35%
Mg RADIAL†	25414.3	277.8	mg/L	0.71	277.8	mg/L	0.71	0.26%

Na RADIAL† 46938.9 3.552 mg/L 0.0268 3.552 mg/L 0.0268 0.76%

Sequence No.: 78

Sample ID: 14C0952-06

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 67

Date Collected: 4/1/2014 11:47:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0952-06

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Y 371.029	15138756.7	4.574 mg/L	0.0483			1.06%
Y RADIAL	184527.7	4.987 mg/L	0.0123			0.25%
As 188.979†	-13.6	0.0017 mg/L	0.00366	0.0017 mg/L	0.00366	217.77%
Tl 190.801†	-82.0	-0.0179 mg/L	0.00230	-0.0179 mg/L	0.00230	12.88%
Se 196.026†	-52.6	-0.0082 mg/L	0.00239	-0.0082 mg/L	0.00239	29.30%
Zn 206.200†	7287.5	0.1454 mg/L	0.00142	0.1454 mg/L	0.00142	0.98%
Sb 206.836†	-9.8	-0.0028 mg/L	0.00156	-0.0028 mg/L	0.00156	55.72%
Pb 220.353†	148.0	0.0222 mg/L	0.00189	0.0222 mg/L	0.00189	8.51%
Cd 226.502†	1458.9	0.0030 mg/L	0.00018	0.0030 mg/L	0.00018	5.81%
Co 228.616†	845.9	0.0301 mg/L	0.00015	0.0301 mg/L	0.00015	0.51%
Ni 232.003†	1095.8	0.0650 mg/L	0.00101	0.0650 mg/L	0.00101	1.55%
Ba 233.527†	16866.3	0.1514 mg/L	0.00222	0.1514 mg/L	0.00222	1.47%
Mn 257.610†	781810.3	1.299 mg/L	0.0184	1.299 mg/L	0.0184	1.41%
Cr 267.716†	5552.1	0.0530 mg/L	0.00058	0.0530 mg/L	0.00058	1.10%
Fe 273.955†	728115.1	47.77 mg/L	0.674	47.77 mg/L	0.674	1.41%
Mg 279.077†	2331949.7	176.8 mg/L	2.50	176.8 mg/L	2.50	1.41%
V 292.402†	31306.0	0.1000 mg/L	0.00131	0.1000 mg/L	0.00131	1.31%
Al 308.215†	965625.6	29.88 mg/L	0.467	29.88 mg/L	0.467	1.56%
Be 313.107†	-16799.1	-0.0043 mg/L	0.00019	-0.0043 mg/L	0.00019	4.32%
Cu 324.752†	26410.3	0.0675 mg/L	0.00126	0.0675 mg/L	0.00126	1.86%
Ag 338.289†	-1437.9	-0.0136 mg/L	0.00072	-0.0136 mg/L	0.00072	5.26%
Na 330.237†	-8.6	1.110 mg/L	0.0634	1.110 mg/L	0.0634	5.72%
Ca 227.546†	292948.0	516.4 mg/L	7.77	516.4 mg/L	7.77	1.50%
Al RADIAL†	49510.1	27.69 mg/L	0.065	27.69 mg/L	0.065	0.24%
Fe RADIAL†	3097.7	48.41 mg/L	0.363	48.41 mg/L	0.363	0.75%
Ca RADIAL†	644884.0	483.6 mg/L	1.03	483.6 mg/L	1.03	0.21%
K RADIAL†	6851.7	5.280 mg/L	0.0302	5.280 mg/L	0.0302	0.57%
Mg RADIAL†	15827.0	173.0 mg/L	1.13	173.0 mg/L	1.13	0.65%
Na RADIAL†	30961.1	2.343 mg/L	0.0105	2.343 mg/L	0.0105	0.45%

Sequence No.: 79

Sample ID: BD40040-DUP1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 68

Date Collected: 4/1/2014 11:52:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40040-DUP1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Y 371.029	15113997.1	4.566 mg/L	0.0288			0.63%
Y RADIAL	185048.4	5.001 mg/L	0.0199			0.40%
As 188.979†	-6.7	0.0044 mg/L	0.00494	0.0044 mg/L	0.00494	111.58%
Tl 190.801†	-77.4	-0.0166 mg/L	0.00154	-0.0166 mg/L	0.00154	9.28%
Se 196.026†	-50.5	-0.0064 mg/L	0.00179	-0.0064 mg/L	0.00179	28.02%
Zn 206.200†	7254.9	0.1447 mg/L	0.00090	0.1447 mg/L	0.00090	0.62%
Sb 206.836†	-17.3	-0.0046 mg/L	0.00335	-0.0046 mg/L	0.00335	73.16%
Pb 220.353†	152.9	0.0229 mg/L	0.00062	0.0229 mg/L	0.00062	2.70%
Cd 226.502†	1441.3	0.0028 mg/L	0.00021	0.0028 mg/L	0.00021	7.38%
Co 228.616†	837.6	0.0298 mg/L	0.00063	0.0298 mg/L	0.00063	2.13%
Ni 232.003†	1122.1	0.0664 mg/L	0.00089	0.0664 mg/L	0.00089	1.34%
Ba 233.527†	16962.2	0.1523 mg/L	0.00291	0.1523 mg/L	0.00291	1.91%
Mn 257.610†	784116.8	1.302 mg/L	0.0063	1.302 mg/L	0.0063	0.48%
Cr 267.716†	5503.5	0.0525 mg/L	0.00059	0.0525 mg/L	0.00059	1.13%
Fe 273.955†	730089.2	47.90 mg/L	0.203	47.90 mg/L	0.203	0.42%
Mg 279.077†	2340288.6	177.4 mg/L	0.84	177.4 mg/L	0.84	0.48%
V 292.402†	31683.2	0.1013 mg/L	0.00198	0.1013 mg/L	0.00198	1.95%
Al 308.215†	972478.8	30.09 mg/L	0.109	30.09 mg/L	0.109	0.36%

Be 313.107†	-17059.5	-0.0044 mg/L	0.00010	-0.0044 mg/L	0.00010	2.30%
Cu 324.752†	26328.6	0.0672 mg/L	0.00126	0.0672 mg/L	0.00126	1.88%
Ag 338.289†	-1504.1	-0.0140 mg/L	0.00070	-0.0140 mg/L	0.00070	5.01%
Na 330.237†	-97.4	1.049 mg/L	0.0601	1.049 mg/L	0.0601	5.73%
Ca 227.546†	295357.4	520.6 mg/L	9.75	520.6 mg/L	9.75	1.87%
Al RADIAL†	49501.4	27.69 mg/L	0.085	27.69 mg/L	0.085	0.31%
Fe RADIAL†	3057.1	47.77 mg/L	0.618	47.77 mg/L	0.618	1.29%
Ca RADIAL†	645748.2	484.2 mg/L	0.14	484.2 mg/L	0.14	0.03%
K RADIAL†	6756.6	5.206 mg/L	0.0524	5.206 mg/L	0.0524	1.01%
Mg RADIAL†	15661.5	171.2 mg/L	1.63	171.2 mg/L	1.63	0.95%
Na RADIAL†	29136.5	2.205 mg/L	0.0277	2.205 mg/L	0.0277	1.26%

Sequence No.: 80

Sample ID: SEQ-CCV7

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2014 11:57:27 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV7

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16294611.4	4.923 mg/L		0.0258			0.52%
Y RADIAL	187104.3	5.057 mg/L		0.0232			0.46%
As 188.979†	639.7	0.2520 mg/L		0.00295	0.2520 mg/L	0.00295	1.17%
Tl 190.801†	990.4	0.2665 mg/L		0.00047	0.2665 mg/L	0.00047	0.18%
Se 196.026†	312.3	0.2513 mg/L		0.00415	0.2513 mg/L	0.00415	1.65%
Zn 206.200†	125831.0	2.559 mg/L		0.0172	2.559 mg/L	0.0172	0.67%
Sb 206.836†	1080.1	0.2582 mg/L		0.00560	0.2582 mg/L	0.00560	2.17%
Pb 220.353†	1919.9	0.2544 mg/L		0.00313	0.2544 mg/L	0.00313	1.23%
Cd 226.502†	15421.3	0.1261 mg/L		0.00065	0.1261 mg/L	0.00065	0.51%
Co 228.616†	71427.9	2.538 mg/L		0.0117	2.538 mg/L	0.0117	0.46%
Ni 232.003†	48661.0	2.539 mg/L		0.0142	2.539 mg/L	0.0142	0.56%
Ba 233.527†	1148761.3	10.31 mg/L		0.068	10.31 mg/L	0.068	0.66%
Mn 257.610†	1533818.4	2.549 mg/L		0.0198	2.549 mg/L	0.0198	0.78%
Cr 267.716†	109100.1	1.041 mg/L		0.0057	1.041 mg/L	0.0057	0.54%
Fe 273.955†	77935.4	5.114 mg/L		0.0274	5.114 mg/L	0.0274	0.54%
Mg 279.077†	333503.7	25.29 mg/L		0.194	25.29 mg/L	0.194	0.77%
V 292.402†	760714.3	2.524 mg/L		0.0189	2.524 mg/L	0.0189	0.75%
Al 308.215†	312655.7	9.675 mg/L		0.0925	9.675 mg/L	0.0925	0.96%
Be 313.107†	971567.8	0.2496 mg/L		0.00200	0.2496 mg/L	0.00200	0.80%
Cu 324.752†	418674.3	1.235 mg/L		0.0143	1.235 mg/L	0.0143	1.16%
Ag 338.289†	217325.8	1.238 mg/L		0.0096	1.238 mg/L	0.0096	0.77%
Na 330.237†	30238.0	23.35 mg/L		0.214	23.35 mg/L	0.214	0.92%
Ca 227.546†	13584.7	23.96 mg/L		0.156	23.96 mg/L	0.156	0.65%
Al RADIAL†	17726.9	9.916 mg/L		0.0167	9.916 mg/L	0.0167	0.17%
Fe RADIAL†	319.8	4.998 mg/L		0.0587	4.998 mg/L	0.0587	1.17%
Ca RADIAL†	33294.8	24.97 mg/L		0.025	24.97 mg/L	0.025	0.10%
K RADIAL†	6242.6	4.810 mg/L		0.0227	4.810 mg/L	0.0227	0.47%
Mg RADIAL†	2310.5	25.25 mg/L		0.199	25.25 mg/L	0.199	0.79%
Na RADIAL†	329248.6	24.91 mg/L		0.238	24.91 mg/L	0.238	0.96%

Sequence No.: 81

Sample ID: SEQ-CCB7

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 4/2/2014 12:05:31 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB7

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16610313.9	5.018 mg/L		0.0262			0.52%
Y RADIAL	184317.7	4.982 mg/L		0.0349			0.70%
As 188.979†	1.6	0.0006 mg/L		0.00218	0.0006 mg/L	0.00218	357.56%
Tl 190.801†	10.4	0.0028 mg/L		0.00055	0.0028 mg/L	0.00055	19.59%
Se 196.026†	1.1	0.0009 mg/L		0.00436	0.0009 mg/L	0.00436	498.61%
Zn 206.200†	-25.8	-0.0005 mg/L		0.00017	-0.0005 mg/L	0.00017	31.78%
Sb 206.836†	-4.1	-0.0010 mg/L		0.00091	-0.0010 mg/L	0.00091	93.81%
Pb 220.353†	-10.0	-0.0013 mg/L		0.00066	-0.0013 mg/L	0.00066	49.70%

Cd 226.502†	7.7	0.0001 mg/L	0.00016	0.0001 mg/L	0.00016	258.24%
Co 228.616†	12.2	0.0004 mg/L	0.00016	0.0004 mg/L	0.00016	35.75%
Ni 232.003†	9.3	0.0005 mg/L	0.00055	0.0005 mg/L	0.00055	112.63%
Ba 233.527†	13.4	0.0001 mg/L	0.00011	0.0001 mg/L	0.00011	94.02%
Mn 257.610†	-5.8	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	144.60%
Cr 267.716†	-4.4	0.0000 mg/L	0.00007	0.0000 mg/L	0.00007	169.94%
Fe 273.955†	19.0	0.0012 mg/L	0.00018	0.0012 mg/L	0.00018	14.44%
Mg 279.077†	-4.2	-0.0003 mg/L	0.00065	-0.0003 mg/L	0.00065	205.13%
V 292.402†	4.4	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	313.95%
Al 308.215†	2.6	0.0001 mg/L	0.00987	0.0001 mg/L	0.00987	>999.9%
Be 313.107†	-2.5	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	>999.9%
Cu 324.752†	-664.3	-0.0020 mg/L	0.00012	-0.0020 mg/L	0.00012	6.09%
Ag 338.289†	109.9	0.0006 mg/L	0.00046	0.0006 mg/L	0.00046	73.70%
Na 330.237†	-152.2	-0.1172 mg/L	0.00472	-0.1172 mg/L	0.00472	4.02%
Ca 227.546†	-15.7	-0.0276 mg/L	0.00456	-0.0276 mg/L	0.00456	16.54%
Al RADIAL†	-4.4	-0.0024 mg/L	0.00054	-0.0024 mg/L	0.00054	21.96%
Fe RADIAL†	-0.1	-0.0023 mg/L	0.01281	-0.0023 mg/L	0.01281	554.80%
Ca RADIAL†	14.5	0.0109 mg/L	0.00513	0.0109 mg/L	0.00513	47.14%
K RADIAL†	3.8	0.0029 mg/L	0.01055	0.0029 mg/L	0.01055	363.14%
Mg RADIAL†	-0.7	-0.0082 mg/L	0.00699	-0.0082 mg/L	0.00699	85.64%
Na RADIAL†	-1877.6	-0.1421 mg/L	0.00705	-0.1421 mg/L	0.00705	4.96%

Sequence No.: 82

Sample ID: BD40040-MS1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 69

Date Collected: 4/2/2014 12:10:20 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40040-MS1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	14909168.0	4.504 mg/L	0.0076			0.17%
Y RADIAL	180997.4	4.892 mg/L	0.0761			1.56%
As 188.979†	5402.9	2.129 mg/L	0.0071	2.129 mg/L	0.0071	0.33%
Tl 190.801†	7267.0	1.956 mg/L	0.0089	1.956 mg/L	0.0089	0.46%
Se 196.026†	2651.6	2.138 mg/L	0.0175	2.138 mg/L	0.0175	0.82%
Zn 206.200†	30787.8	0.6233 mg/L	0.00160	0.6233 mg/L	0.00160	0.26%
Sb 206.836†	1100.6	0.2627 mg/L	0.00136	0.2627 mg/L	0.00136	0.52%
Pb 220.353†	3843.7	0.5108 mg/L	0.00113	0.5108 mg/L	0.00113	0.22%
Cd 226.502†	7372.8	0.0516 mg/L	0.00017	0.0516 mg/L	0.00017	0.33%
Co 228.616†	14675.2	0.5214 mg/L	0.00030	0.5214 mg/L	0.00030	0.06%
Ni 232.003†	11400.9	0.6027 mg/L	0.00170	0.6027 mg/L	0.00170	0.28%
Ba 233.527†	242294.8	2.175 mg/L	0.0235	2.175 mg/L	0.0235	1.08%
Mn 257.610†	1081368.3	1.796 mg/L	0.0170	1.796 mg/L	0.0170	0.95%
Cr 267.716†	27343.1	0.2609 mg/L	0.00082	0.2609 mg/L	0.00082	0.31%
Fe 273.955†	743171.7	48.76 mg/L	0.477	48.76 mg/L	0.477	0.98%
Mg 279.077†	2326059.2	176.4 mg/L	1.78	176.4 mg/L	1.78	1.01%
V 292.402†	180378.7	0.5947 mg/L	0.00540	0.5947 mg/L	0.00540	0.91%
Al 308.215†	1037930.5	32.11 mg/L	0.446	32.11 mg/L	0.446	1.39%
Be 313.107†	177985.4	0.0457 mg/L	0.00033	0.0457 mg/L	0.00033	0.73%
Cu 324.752†	119405.0	0.3423 mg/L	0.00440	0.3423 mg/L	0.00440	1.29%
Ag 338.289†	7822.2	0.0392 mg/L	0.00028	0.0392 mg/L	0.00028	0.71%
Na 330.237†	689.0	1.639 mg/L	0.0380	1.639 mg/L	0.0380	2.32%
Ca 227.546†	288618.6	508.7 mg/L	6.88	508.7 mg/L	6.88	1.35%
Al RADIAL†	53495.4	29.92 mg/L	0.068	29.92 mg/L	0.068	0.23%
Fe RADIAL†	3137.1	49.02 mg/L	0.416	49.02 mg/L	0.416	0.85%
Ca RADIAL†	647152.2	485.3 mg/L	0.39	485.3 mg/L	0.39	0.08%
K RADIAL†	6811.8	5.249 mg/L	0.0540	5.249 mg/L	0.0540	1.03%
Mg RADIAL†	15738.1	172.0 mg/L	1.04	172.0 mg/L	1.04	0.60%
Na RADIAL†	30775.6	2.329 mg/L	0.0172	2.329 mg/L	0.0172	0.74%

Sequence No.: 83

Sample ID: 14C0967-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 70

Date Collected: 4/2/2014 12:18:13 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0967-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	16293153.6	4.922 mg/L		0.0111			0.23%
Y RADIAL	197815.1	5.346 mg/L		0.0523			0.98%
As 188.979†	60.4	0.0423 mg/L		0.00241	0.0423 mg/L	0.00241	5.70%
Tl 190.801†	-119.6	-0.0213 mg/L		0.00148	-0.0213 mg/L	0.00148	6.94%
Se 196.026†	-126.8	-0.0117 mg/L		0.00250	-0.0117 mg/L	0.00250	21.44%
Zn 206.200†	99075.1	2.008 mg/L		0.0172	2.008 mg/L	0.0172	0.85%
Sb 206.836†	46.3	0.0100 mg/L		0.00160	0.0100 mg/L	0.00160	15.97%
Pb 220.353†	10694.9	1.405 mg/L		0.0023	1.405 mg/L	0.0023	0.16%
Cd 226.502†	3954.1	0.0087 mg/L		0.00063	0.0087 mg/L	0.00063	7.22%
Co 228.616†	1578.0	0.0561 mg/L		0.00026	0.0561 mg/L	0.00026	0.47%
Ni 232.003†	3196.2	0.1874 mg/L		0.00139	0.1874 mg/L	0.00139	0.74%
Ba 233.527†	60438.2	0.5426 mg/L		0.00339	0.5426 mg/L	0.00339	0.62%
Mn 257.610†	1258052.1	2.097 mg/L		0.0328	2.097 mg/L	0.0328	1.57%
Cr 267.716†	19402.9	0.1851 mg/L		0.00154	0.1851 mg/L	0.00154	0.83%
Fe 273.955†	1928325.2	126.5 mg/L		1.97	126.5 mg/L	1.97	1.56%
Mg 279.077†	674609.0	51.15 mg/L		0.771	51.15 mg/L	0.771	1.51%
V 292.402†	69971.6	0.2220 mg/L		0.00129	0.2220 mg/L	0.00129	0.58%
Al 308.215†	2213867.9	68.52 mg/L		0.955	68.52 mg/L	0.955	1.39%
Be 313.107†	-15765.7	-0.0040 mg/L		0.00010	-0.0040 mg/L	0.00010	2.56%
Cu 324.752†	150121.2	0.4458 mg/L		0.00197	0.4458 mg/L	0.00197	0.44%
Ag 338.289†	-2603.5	-0.0159 mg/L		0.00088	-0.0159 mg/L	0.00088	5.52%
Na 330.237†	2086.5	2.407 mg/L		0.0147	2.407 mg/L	0.0147	0.61%
Ca 227.546†	59480.2	105.4 mg/L		0.53	105.4 mg/L	0.53	0.50%
Al RADIAL†	117036.4	65.47 mg/L		0.156	65.47 mg/L	0.156	0.24%
Fe RADIAL†	7991.2	124.9 mg/L		2.05	124.9 mg/L	2.05	1.65%
Ca RADIAL†	138576.2	103.9 mg/L		0.19	103.9 mg/L	0.19	0.18%
K RADIAL†	8691.7	6.697 mg/L		0.1397	6.697 mg/L	0.1397	2.09%
Mg RADIAL†	4472.1	48.88 mg/L		0.811	48.88 mg/L	0.811	1.66%
Na RADIAL†	37182.2	2.814 mg/L		0.0158	2.814 mg/L	0.0158	0.56%

Sequence No.: 84

Sample ID: 14C0967-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 71

Date Collected: 4/2/2014 12:22:47 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0967-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	16318866.2	4.930 mg/L		0.0351			0.71%
Y RADIAL	196745.2	5.318 mg/L		0.0482			0.91%
As 188.979†	222.1	0.1100 mg/L		0.00207	0.1100 mg/L	0.00207	1.88%
Tl 190.801†	-148.1	-0.0265 mg/L		0.00125	-0.0265 mg/L	0.00125	4.72%
Se 196.026†	-153.5	-0.0127 mg/L		0.00447	-0.0127 mg/L	0.00447	35.30%
Zn 206.200†	194117.8	3.939 mg/L		0.0085	3.939 mg/L	0.0085	0.22%
Sb 206.836†	47.6	0.0102 mg/L		0.00106	0.0102 mg/L	0.00106	10.36%
Pb 220.353†	24743.9	3.259 mg/L		0.0060	3.259 mg/L	0.0060	0.18%
Cd 226.502†	5066.1	0.0125 mg/L		0.00035	0.0125 mg/L	0.00035	2.82%
Co 228.616†	1797.3	0.0639 mg/L		0.00043	0.0639 mg/L	0.00043	0.67%
Ni 232.003†	3779.2	0.2225 mg/L		0.00136	0.2225 mg/L	0.00136	0.61%
Ba 233.527†	220879.2	1.983 mg/L		0.0034	1.983 mg/L	0.0034	0.17%
Mn 257.610†	1599483.3	2.666 mg/L		0.0426	2.666 mg/L	0.0426	1.60%
Cr 267.716†	23965.1	0.2287 mg/L		0.00096	0.2287 mg/L	0.00096	0.42%
Fe 273.955†	2365959.8	155.2 mg/L		2.39	155.2 mg/L	2.39	1.54%
Mg 279.077†	424096.8	32.16 mg/L		0.545	32.16 mg/L	0.545	1.69%
V 292.402†	80221.0	0.2536 mg/L		0.00161	0.2536 mg/L	0.00161	0.63%
Al 308.215†	2557768.0	79.16 mg/L		1.653	79.16 mg/L	1.653	2.09%
Be 313.107†	-17117.1	-0.0044 mg/L		0.00015	-0.0044 mg/L	0.00015	3.49%
Cu 324.752†	958711.3	2.836 mg/L		0.0505	2.836 mg/L	0.0505	1.78%
Ag 338.289†	46131.7	0.2623 mg/L		0.00108	0.2623 mg/L	0.00108	0.41%
Na 330.237†	3419.4	3.476 mg/L		0.0220	3.476 mg/L	0.0220	0.63%
Ca 227.546†	26856.0	48.09 mg/L		0.054	48.09 mg/L	0.054	0.11%
Al RADIAL†	137978.1	77.18 mg/L		0.078	77.18 mg/L	0.078	0.10%
Fe RADIAL†	10112.0	158.0 mg/L		1.84	158.0 mg/L	1.84	1.16%
Ca RADIAL†	64509.7	48.37 mg/L		0.124	48.37 mg/L	0.124	0.26%
K RADIAL†	12769.4	9.839 mg/L		0.1181	9.839 mg/L	0.1181	1.20%
Mg RADIAL†	2912.6	31.84 mg/L		0.345	31.84 mg/L	0.345	1.08%
Na RADIAL†	34682.8	2.625 mg/L		0.0045	2.625 mg/L	0.0045	0.17%

Sequence No.: 85
 Sample ID: 14C0967-03
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 72
 Date Collected: 4/2/2014 12:27:46 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 14C0967-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16477203.1	4.978 mg/L		0.0110			0.22%
Y RADIAL	196337.4	5.306 mg/L		0.0334			0.63%
As 188.979†	245.7	0.1184 mg/L		0.00550	0.1184 mg/L	0.00550	4.64%
Tl 190.801†	-168.6	-0.0326 mg/L		0.00156	-0.0326 mg/L	0.00156	4.78%
Se 196.026†	-142.1	-0.0080 mg/L		0.00784	-0.0080 mg/L	0.00784	97.53%
Zn 206.200†	209167.1	4.246 mg/L		0.0100	4.246 mg/L	0.0100	0.24%
Sb 206.836†	43.0	0.0092 mg/L		0.00131	0.0092 mg/L	0.00131	14.18%
Pb 220.353†	20466.1	2.694 mg/L		0.0065	2.694 mg/L	0.0065	0.24%
Cd 226.502†	4958.6	0.0128 mg/L		0.00044	0.0128 mg/L	0.00044	3.47%
Co 228.616†	2005.3	0.0712 mg/L		0.00008	0.0712 mg/L	0.00008	0.11%
Ni 232.003†	3995.3	0.2328 mg/L		0.00185	0.2328 mg/L	0.00185	0.79%
Ba 233.527†	198855.3	1.785 mg/L		0.0032	1.785 mg/L	0.0032	0.18%
Mn 257.610†	1409196.8	2.349 mg/L		0.0135	2.349 mg/L	0.0135	0.57%
Cr 267.716†	26625.5	0.2541 mg/L		0.00096	0.2541 mg/L	0.00096	0.38%
Fe 273.955†	2270493.8	149.0 mg/L		0.73	149.0 mg/L	0.73	0.49%
Mg 279.077†	565038.3	42.85 mg/L		0.242	42.85 mg/L	0.242	0.57%
V 292.402†	83396.7	0.2647 mg/L		0.00142	0.2647 mg/L	0.00142	0.54%
Al 308.215†	2310291.1	71.50 mg/L		0.554	71.50 mg/L	0.554	0.78%
Be 313.107†	-29554.4	-0.0076 mg/L		0.00012	-0.0076 mg/L	0.00012	1.58%
Cu 324.752†	296455.6	0.8800 mg/L		0.00322	0.8800 mg/L	0.00322	0.37%
Ag 338.289†	-4450.4	-0.0259 mg/L		0.00015	-0.0259 mg/L	0.00015	0.58%
Na 330.237†	1950.2	2.327 mg/L		0.0266	2.327 mg/L	0.0266	1.14%
Ca 227.546†	30887.8	55.16 mg/L		0.395	55.16 mg/L	0.395	0.72%
Al RADIAL†	123301.0	68.97 mg/L		0.105	68.97 mg/L	0.105	0.15%
Fe RADIAL†	9597.0	150.0 mg/L		3.43	150.0 mg/L	3.43	2.29%
Ca RADIAL†	74954.5	56.20 mg/L		0.987	56.20 mg/L	0.987	1.76%
K RADIAL†	21362.6	16.46 mg/L		0.259	16.46 mg/L	0.259	1.57%
Mg RADIAL†	3832.4	41.89 mg/L		0.652	41.89 mg/L	0.652	1.56%
Na RADIAL†	23932.8	1.811 mg/L		0.0077	1.811 mg/L	0.0077	0.42%

Sequence No.: 86
 Sample ID: 14C0981-01
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 73
 Date Collected: 4/2/2014 12:32:20 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 14C0981-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	15768930.0	4.764 mg/L		0.0416			0.87%
Y RADIAL	187926.4	5.079 mg/L		0.0290			0.57%
As 188.979†	145.9	0.0725 mg/L		0.00534	0.0725 mg/L	0.00534	7.36%
Tl 190.801†	-100.6	-0.0182 mg/L		0.00074	-0.0182 mg/L	0.00074	4.07%
Se 196.026†	-93.2	-0.0014 mg/L		0.00710	-0.0014 mg/L	0.00710	508.73%
Zn 206.200†	496945.8	10.10 mg/L		0.124	10.10 mg/L	0.124	1.23%
Sb 206.836†	74.1	0.0169 mg/L		0.00190	0.0169 mg/L	0.00190	11.27%
Pb 220.353†	199464.5	26.37 mg/L		0.392	26.37 mg/L	0.392	1.49%
Cd 226.502†	4621.2	0.0186 mg/L		0.00039	0.0186 mg/L	0.00039	2.12%
Co 228.616†	841.8	0.0299 mg/L		0.00015	0.0299 mg/L	0.00015	0.50%
Ni 232.003†	2957.6	0.1711 mg/L		0.00111	0.1711 mg/L	0.00111	0.65%
Ba 233.527†	1758817.1	15.79 mg/L		0.224	15.79 mg/L	0.224	1.42%
Mn 257.610†	1182972.3	1.971 mg/L		0.0278	1.971 mg/L	0.0278	1.41%
Cr 267.716†	74549.2	0.7114 mg/L		0.00985	0.7114 mg/L	0.00985	1.38%
Fe 273.955†	1572871.7	103.2 mg/L		1.35	103.2 mg/L	1.35	1.31%
Mg 279.077†	355912.7	26.98 mg/L		0.417	26.98 mg/L	0.417	1.54%
V 292.402†	51941.6	0.1640 mg/L		0.00276	0.1640 mg/L	0.00276	1.68%
Al 308.215†	1765756.7	54.65 mg/L		0.818	54.65 mg/L	0.818	1.50%
Be 313.107†	-14289.2	-0.0037 mg/L		0.00016	-0.0037 mg/L	0.00016	4.28%

Cu 324.752†	93874.7	0.2758 mg/L	0.00603	0.2758 mg/L	0.00603	2.19%
Ag 338.289†	-3232.8	-0.0213 mg/L	0.00096	-0.0213 mg/L	0.00096	4.52%
Na 330.237†	10662.5	9.177 mg/L	0.2582	9.177 mg/L	0.2582	2.81%
Ca 227.546†	156065.6	275.5 mg/L	5.30	275.5 mg/L	5.30	1.92%
Al RADIAL†	93426.3	52.26 mg/L	0.098	52.26 mg/L	0.098	0.19%
Fe RADIAL†	6693.7	104.6 mg/L	0.45	104.6 mg/L	0.45	0.43%
Ca RADIAL†	350040.4	262.5 mg/L	0.32	262.5 mg/L	0.32	0.12%
K RADIAL†	7575.6	5.837 mg/L	0.0353	5.837 mg/L	0.0353	0.61%
Mg RADIAL†	2388.0	26.10 mg/L	0.141	26.10 mg/L	0.141	0.54%
Na RADIAL†	19392.6	1.467 mg/L	0.0082	1.467 mg/L	0.0082	0.56%

Sequence No.: 87

Sample ID: 14C0981-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 74

Date Collected: 4/2/2014 12:40:20 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0981-02

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	17028321.3	5.144 mg/L	0.0231			0.45%
Y RADIAL	197350.9	5.334 mg/L	0.0481			0.90%
As 188.979†	-25.9	0.0158 mg/L	0.00333	0.0158 mg/L	0.00333	21.07%
Tl 190.801†	-141.2	-0.0233 mg/L	0.00231	-0.0233 mg/L	0.00231	9.94%
Se 196.026†	-174.2	-0.0141 mg/L	0.00351	-0.0141 mg/L	0.00351	24.91%
Zn 206.200†	14091.4	0.2771 mg/L	0.00414	0.2771 mg/L	0.00414	1.49%
Sb 206.836†	-19.5	-0.0055 mg/L	0.00135	-0.0055 mg/L	0.00135	24.59%
Pb 220.353†	635.7	0.0662 mg/L	0.00314	0.0662 mg/L	0.00314	4.75%
Cd 226.502†	4529.7	0.0040 mg/L	0.00036	0.0040 mg/L	0.00036	9.01%
Co 228.616†	1692.3	0.0601 mg/L	0.00077	0.0601 mg/L	0.00077	1.28%
Ni 232.003†	2186.8	0.1429 mg/L	0.00354	0.1429 mg/L	0.00354	2.47%
Ba 233.527†	35206.8	0.3161 mg/L	0.00120	0.3161 mg/L	0.00120	0.38%
Mn 257.610†	2276386.6	3.792 mg/L	0.0350	3.792 mg/L	0.0350	0.92%
Cr 267.716†	14300.1	0.1365 mg/L	0.00087	0.1365 mg/L	0.00087	0.64%
Fe 273.955†	2690820.9	176.6 mg/L	1.67	176.6 mg/L	1.67	0.94%
Mg 279.077†	186018.4	14.11 mg/L	0.071	14.11 mg/L	0.071	0.51%
V 292.402†	78622.9	0.2466 mg/L	0.00107	0.2466 mg/L	0.00107	0.43%
Al 308.215†	1749063.3	54.14 mg/L	0.656	54.14 mg/L	0.656	1.21%
Be 313.107†	-12314.2	-0.0032 mg/L	0.00005	-0.0032 mg/L	0.00005	1.48%
Cu 324.752†	44385.4	0.1387 mg/L	0.00111	0.1387 mg/L	0.00111	0.80%
Ag 338.289†	-3571.8	-0.0204 mg/L	0.00019	-0.0204 mg/L	0.00019	0.91%
Na 330.237†	-2576.2	-1.109 mg/L	0.0111	-1.109 mg/L	0.0111	1.00%
Ca 227.546†	2892.7	5.955 mg/L	0.0602	5.955 mg/L	0.0602	1.01%
Al RADIAL†	97867.1	54.74 mg/L	0.103	54.74 mg/L	0.103	0.19%
Fe RADIAL†	11752.0	183.6 mg/L	1.73	183.6 mg/L	1.73	0.94%
Ca RADIAL†	8656.6	6.491 mg/L	0.0369	6.491 mg/L	0.0369	0.57%
K RADIAL†	10770.8	8.299 mg/L	0.0263	8.299 mg/L	0.0263	0.32%
Mg RADIAL†	1261.1	13.78 mg/L	0.120	13.78 mg/L	0.120	0.87%
Na RADIAL†	11653.7	0.8819 mg/L	0.01301	0.8819 mg/L	0.01301	1.48%

Sequence No.: 88

Sample ID: 14C0981-03

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 75

Date Collected: 4/2/2014 12:45:19 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0981-03

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16341990.9	4.937 mg/L	0.0431			0.87%
Y RADIAL	194605.9	5.260 mg/L	0.0700			1.33%
As 188.979†	48.9	0.0437 mg/L	0.00240	0.0437 mg/L	0.00240	5.50%
Tl 190.801†	-144.0	-0.0247 mg/L	0.00305	-0.0247 mg/L	0.00305	12.31%
Se 196.026†	-149.8	-0.0019 mg/L	0.00036	-0.0019 mg/L	0.00036	18.24%
Zn 206.200†	402290.8	8.174 mg/L	0.1155	8.174 mg/L	0.1155	1.41%
Sb 206.836†	11.4	0.0018 mg/L	0.00156	0.0018 mg/L	0.00156	86.41%
Pb 220.353†	116083.7	15.33 mg/L	0.232	15.33 mg/L	0.232	1.52%
Cd 226.502†	5314.9	0.0124 mg/L	0.00092	0.0124 mg/L	0.00092	7.41%

Co 228.616†	1444.4	0.0513 mg/L	0.00056	0.0513 mg/L	0.00056	1.09%
Ni 232.003†	3023.5	0.1849 mg/L	0.00234	0.1849 mg/L	0.00234	1.26%
Ba 233.527†	934757.0	8.392 mg/L	0.0664	8.392 mg/L	0.0664	0.79%
Mn 257.610†	1060097.6	1.770 mg/L	0.0108	1.770 mg/L	0.0108	0.61%
Cr 267.716†	19363.3	0.1848 mg/L	0.00290	0.1848 mg/L	0.00290	1.57%
Fe 273.955†	2534551.0	166.3 mg/L	1.06	166.3 mg/L	1.06	0.64%
Mg 279.077†	312403.1	23.69 mg/L	0.403	23.69 mg/L	0.403	1.70%
V 292.402†	93221.3	0.2959 mg/L	0.00518	0.2959 mg/L	0.00518	1.75%
Al 308.215†	1980436.3	61.30 mg/L	0.734	61.30 mg/L	0.734	1.20%
Be 313.107†	-15589.7	-0.0040 mg/L	0.00014	-0.0040 mg/L	0.00014	3.52%
Cu 324.752†	125232.7	0.3746 mg/L	0.00841	0.3746 mg/L	0.00841	2.24%
Ag 338.289†	-3148.3	-0.0191 mg/L	0.00017	-0.0191 mg/L	0.00017	0.87%
Na 330.237†	6957.6	6.364 mg/L	0.1730	6.364 mg/L	0.1730	2.72%
Ca 227.546†	64739.1	114.9 mg/L	2.51	114.9 mg/L	2.51	2.18%
Al RADIAL†	106574.6	59.61 mg/L	0.323	59.61 mg/L	0.323	0.54%
Fe RADIAL†	10917.1	170.6 mg/L	3.33	170.6 mg/L	3.33	1.95%
Ca RADIAL†	150205.0	112.6 mg/L	0.36	112.6 mg/L	0.36	0.32%
K RADIAL†	10831.3	8.346 mg/L	0.1282	8.346 mg/L	0.1282	1.54%
Mg RADIAL†	2080.0	22.74 mg/L	0.441	22.74 mg/L	0.441	1.94%
Na RADIAL†	16864.5	1.276 mg/L	0.0107	1.276 mg/L	0.0107	0.84%

Sequence No.: 89

Sample ID: 14C0981-04

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 76

Date Collected: 4/2/2014 12:53:18 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0981-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16475192.7	4.977 mg/L	0.0317				0.64%
Y RADIAL	193870.9	5.240 mg/L	0.0580				1.11%
As 188.979†	-60.2	0.0083 mg/L	0.00059		0.0083 mg/L	0.00059	7.14%
Tl 190.801†	-148.0	-0.0220 mg/L	0.00086		-0.0220 mg/L	0.00086	3.93%
Se 196.026†	-213.4	-0.0165 mg/L	0.00365		-0.0165 mg/L	0.00365	22.12%
Zn 206.200†	15709.4	0.3084 mg/L	0.00181		0.3084 mg/L	0.00181	0.59%
Sb 206.836†	-20.0	-0.0054 mg/L	0.00062		-0.0054 mg/L	0.00062	11.67%
Pb 220.353†	397.1	0.0277 mg/L	0.00195		0.0277 mg/L	0.00195	7.02%
Cd 226.502†	5674.6	0.0058 mg/L	0.00043		0.0058 mg/L	0.00043	7.42%
Co 228.616†	1788.8	0.0636 mg/L	0.00053		0.0636 mg/L	0.00053	0.84%
Ni 232.003†	2240.5	0.1524 mg/L	0.00349		0.1524 mg/L	0.00349	2.29%
Ba 233.527†	31750.1	0.2850 mg/L	0.00328		0.2850 mg/L	0.00328	1.15%
Mn 257.610†	2673402.5	4.454 mg/L	0.0364		4.454 mg/L	0.0364	0.82%
Cr 267.716†	12526.1	0.1195 mg/L	0.00230		0.1195 mg/L	0.00230	1.92%
Fe 273.955†	3313887.8	217.4 mg/L	0.33		217.4 mg/L	0.33	0.15%
Mg 279.077†	172548.9	13.09 mg/L	0.134		13.09 mg/L	0.134	1.03%
V 292.402†	74964.8	0.2312 mg/L	0.00288		0.2312 mg/L	0.00288	1.25%
Al 308.215†	1201494.5	37.20 mg/L	0.370		37.20 mg/L	0.370	0.99%
Be 313.107†	-8744.7	-0.0022 mg/L	0.00004		-0.0022 mg/L	0.00004	1.90%
Cu 324.752†	42833.4	0.1363 mg/L	0.00140		0.1363 mg/L	0.00140	1.03%
Ag 338.289†	-3128.2	-0.0179 mg/L	0.00019		-0.0179 mg/L	0.00019	1.07%
Na 330.237†	-2345.8	-0.7285 mg/L	0.03455		-0.7285 mg/L	0.03455	4.74%
Ca 227.546†	4447.5	8.877 mg/L	0.0379		8.877 mg/L	0.0379	0.43%
Al RADIAL†	67386.4	37.69 mg/L	0.052		37.69 mg/L	0.052	0.14%
Fe RADIAL†	14343.7	224.1 mg/L	0.96		224.1 mg/L	0.96	0.43%
Ca RADIAL†	12698.4	9.522 mg/L	0.0939		9.522 mg/L	0.0939	0.99%
K RADIAL†	7743.4	5.967 mg/L	0.0403		5.967 mg/L	0.0403	0.67%
Mg RADIAL†	1162.9	12.71 mg/L	0.163		12.71 mg/L	0.163	1.29%
Na RADIAL†	11541.0	0.8733 mg/L	0.00811		0.8733 mg/L	0.00811	0.93%

Sequence No.: 90

Sample ID: 14C0981-05

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 77

Date Collected: 4/2/2014 12:58:17 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0981-05

Mean Corrected

Calib.

Sample

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	16665876.3	5.035 mg/L	0.0494			0.98%
Y RADIAL	196325.8	5.306 mg/L	0.0399			0.75%
As 188.979†	181.4	0.0976 mg/L	0.00467	0.0976 mg/L	0.00467	4.79%
Tl 190.801†	-147.6	-0.0244 mg/L	0.00297	-0.0244 mg/L	0.00297	12.19%
Se 196.026†	-162.8	-0.0030 mg/L	0.00683	-0.0030 mg/L	0.00683	229.47%
Zn 206.200†	100498.9	2.034 mg/L	0.0212	2.034 mg/L	0.0212	1.04%
Sb 206.836†	84.4	0.0189 mg/L	0.00110	0.0189 mg/L	0.00110	5.81%
Pb 220.353†	45752.2	6.034 mg/L	0.0570	6.034 mg/L	0.0570	0.95%
Cd 226.502†	5140.1	0.0085 mg/L	0.00024	0.0085 mg/L	0.00024	2.78%
Co 228.616†	2210.0	0.0785 mg/L	0.00092	0.0785 mg/L	0.00092	1.17%
Ni 232.003†	4669.2	0.2729 mg/L	0.00373	0.2729 mg/L	0.00373	1.37%
Ba 233.527†	273906.4	2.459 mg/L	0.0261	2.459 mg/L	0.0261	1.06%
Mn 257.610†	1834386.1	3.058 mg/L	0.0582	3.058 mg/L	0.0582	1.90%
Cr 267.716†	26712.5	0.2549 mg/L	0.00283	0.2549 mg/L	0.00283	1.11%
Fe 273.955†	2736151.0	179.5 mg/L	3.07	179.5 mg/L	3.07	1.71%
Mg 279.077†	230408.3	17.48 mg/L	0.199	17.48 mg/L	0.199	1.14%
V 292.402†	112369.5	0.3584 mg/L	0.00339	0.3584 mg/L	0.00339	0.95%
Al 308.215†	2795469.1	86.52 mg/L	2.097	86.52 mg/L	2.097	2.42%
Be 313.107†	-11075.6	-0.0028 mg/L	0.00000	-0.0028 mg/L	0.00000	0.11%
Cu 324.752†	243936.4	0.7274 mg/L	0.00871	0.7274 mg/L	0.00871	1.20%
Ag 338.289†	-3290.4	-0.0189 mg/L	0.00026	-0.0189 mg/L	0.00026	1.40%
Na 330.237†	-230.5	0.7242 mg/L	0.04847	0.7242 mg/L	0.04847	6.69%
Ca 227.546†	6705.1	12.70 mg/L	0.086	12.70 mg/L	0.086	0.68%
Al RADIAL†	151987.7	85.02 mg/L	0.093	85.02 mg/L	0.093	0.11%
Fe RADIAL†	11762.3	183.8 mg/L	1.62	183.8 mg/L	1.62	0.88%
Ca RADIAL†	17661.0	13.24 mg/L	0.114	13.24 mg/L	0.114	0.86%
K RADIAL†	8242.0	6.351 mg/L	0.0490	6.351 mg/L	0.0490	0.77%
Mg RADIAL†	1559.4	17.04 mg/L	0.111	17.04 mg/L	0.111	0.65%
Na RADIAL†	13708.4	1.037 mg/L	0.0077	1.037 mg/L	0.0077	0.74%

Sequence No.: 91

Sample ID: 14C0981-06

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 78

Date Collected: 4/2/2014 1:03:16 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0981-06

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16618882.3	5.021 mg/L	0.0515			1.03%
Y RADIAL	196647.3	5.315 mg/L	0.0495			0.93%
As 188.979†	18.7	0.0351 mg/L	0.00296	0.0351 mg/L	0.00296	8.42%
Tl 190.801†	-171.6	-0.0301 mg/L	0.00108	-0.0301 mg/L	0.00108	3.59%
Se 196.026†	-181.8	-0.0115 mg/L	0.00895	-0.0115 mg/L	0.00895	77.52%
Zn 206.200†	39599.9	0.7948 mg/L	0.01518	0.7948 mg/L	0.01518	1.91%
Sb 206.836†	-0.9	-0.0014 mg/L	0.00181	-0.0014 mg/L	0.00181	125.33%
Pb 220.353†	7687.1	0.9996 mg/L	0.01046	0.9996 mg/L	0.01046	1.05%
Cd 226.502†	4981.5	0.0054 mg/L	0.00053	0.0054 mg/L	0.00053	9.76%
Co 228.616†	2003.0	0.0712 mg/L	0.00023	0.0712 mg/L	0.00023	0.33%
Ni 232.003†	3124.6	0.1938 mg/L	0.00446	0.1938 mg/L	0.00446	2.30%
Ba 233.527†	83338.3	0.7482 mg/L	0.01592	0.7482 mg/L	0.01592	2.13%
Mn 257.610†	2043294.0	3.405 mg/L	0.0387	3.405 mg/L	0.0387	1.14%
Cr 267.716†	27149.3	0.2591 mg/L	0.00504	0.2591 mg/L	0.00504	1.94%
Fe 273.955†	2877952.4	188.8 mg/L	1.82	188.8 mg/L	1.82	0.97%
Mg 279.077†	297949.4	22.60 mg/L	0.464	22.60 mg/L	0.464	2.05%
V 292.402†	112065.8	0.3566 mg/L	0.00619	0.3566 mg/L	0.00619	1.74%
Al 308.215†	2670112.5	82.64 mg/L	1.405	82.64 mg/L	1.405	1.70%
Be 313.107†	-20482.5	-0.0053 mg/L	0.00011	-0.0053 mg/L	0.00011	2.08%
Cu 324.752†	116255.6	0.3509 mg/L	0.00807	0.3509 mg/L	0.00807	2.30%
Ag 338.289†	-4555.3	-0.0261 mg/L	0.00035	-0.0261 mg/L	0.00035	1.34%
Na 330.237†	-1018.3	0.1662 mg/L	0.00875	0.1662 mg/L	0.00875	5.27%
Ca 227.546†	7601.0	14.32 mg/L	0.096	14.32 mg/L	0.096	0.67%
Al RADIAL†	145845.8	81.58 mg/L	0.183	81.58 mg/L	0.183	0.22%
Fe RADIAL†	12393.6	193.7 mg/L	2.39	193.7 mg/L	2.39	1.23%
Ca RADIAL†	19765.1	14.82 mg/L	0.198	14.82 mg/L	0.198	1.33%
K RADIAL†	11844.2	9.126 mg/L	0.1190	9.126 mg/L	0.1190	1.30%
Mg RADIAL†	2004.1	21.91 mg/L	0.255	21.91 mg/L	0.255	1.16%
Na RADIAL†	30937.3	2.341 mg/L	0.0036	2.341 mg/L	0.0036	0.15%

Sequence No.: 92
 Sample ID: SEQ-CCV8
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 4/2/2014 1:08:15 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: SEQ-CCV8

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16350989.3	4.940 mg/L		0.0406			0.82%
Y RADIAL	188595.9	5.097 mg/L		0.0220			0.43%
As 188.979†	629.8	0.2481 mg/L		0.00476	0.2481 mg/L	0.00476	1.92%
Tl 190.801†	976.8	0.2628 mg/L		0.00127	0.2628 mg/L	0.00127	0.48%
Se 196.026†	316.2	0.2545 mg/L		0.00717	0.2545 mg/L	0.00717	2.82%
Zn 206.200†	124096.2	2.524 mg/L		0.0235	2.524 mg/L	0.0235	0.93%
Sb 206.836†	1080.4	0.2582 mg/L		0.00243	0.2582 mg/L	0.00243	0.94%
Pb 220.353†	1918.8	0.2542 mg/L		0.00030	0.2542 mg/L	0.00030	0.12%
Cd 226.502†	15259.4	0.1248 mg/L		0.00157	0.1248 mg/L	0.00157	1.26%
Co 228.616†	71153.0	2.528 mg/L		0.0263	2.528 mg/L	0.0263	1.04%
Ni 232.003†	48282.5	2.519 mg/L		0.0215	2.519 mg/L	0.0215	0.85%
Ba 233.527†	1137293.8	10.21 mg/L		0.031	10.21 mg/L	0.031	0.30%
Mn 257.610†	1517429.6	2.521 mg/L		0.0066	2.521 mg/L	0.0066	0.26%
Cr 267.716†	108446.1	1.035 mg/L		0.0115	1.035 mg/L	0.0115	1.11%
Fe 273.955†	78067.6	5.122 mg/L		0.0585	5.122 mg/L	0.0585	1.14%
Mg 279.077†	329204.0	24.96 mg/L		0.074	24.96 mg/L	0.074	0.30%
V 292.402†	748859.7	2.485 mg/L		0.0096	2.485 mg/L	0.0096	0.39%
Al 308.215†	309022.6	9.562 mg/L		0.0518	9.562 mg/L	0.0518	0.54%
Be 313.107†	953450.4	0.2449 mg/L		0.00099	0.2449 mg/L	0.00099	0.40%
Cu 324.752†	414773.1	1.224 mg/L		0.0060	1.224 mg/L	0.0060	0.49%
Ag 338.289†	215256.3	1.226 mg/L		0.0049	1.226 mg/L	0.0049	0.40%
Na 330.237†	30006.5	23.17 mg/L		0.322	23.17 mg/L	0.322	1.39%
Ca 227.546†	13445.0	23.72 mg/L		0.293	23.72 mg/L	0.293	1.24%
Al RADIAL†	17681.9	9.891 mg/L		0.0211	9.891 mg/L	0.0211	0.21%
Fe RADIAL†	319.6	4.994 mg/L		0.0249	4.994 mg/L	0.0249	0.50%
Ca RADIAL†	33231.8	24.92 mg/L		0.052	24.92 mg/L	0.052	0.21%
K RADIAL†	6246.3	4.813 mg/L		0.0140	4.813 mg/L	0.0140	0.29%
Mg RADIAL†	2294.2	25.08 mg/L		0.067	25.08 mg/L	0.067	0.27%
Na RADIAL†	331729.8	25.10 mg/L		0.203	25.10 mg/L	0.203	0.81%

Sequence No.: 93
 Sample ID: SEQ-CCB8
 Analyst: MW
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 4/2/2014 1:16:21 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: SEQ-CCB8

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16862850.5	5.094 mg/L		0.0316			0.62%
Y RADIAL	186562.3	5.042 mg/L		0.0326			0.65%
As 188.979†	-5.8	-0.0023 mg/L		0.00215	-0.0023 mg/L	0.00215	94.29%
Tl 190.801†	12.2	0.0033 mg/L		0.00147	0.0033 mg/L	0.00147	44.84%
Se 196.026†	1.5	0.0012 mg/L		0.00123	0.0012 mg/L	0.00123	105.44%
Zn 206.200†	-9.9	-0.0002 mg/L		0.00013	-0.0002 mg/L	0.00013	67.23%
Sb 206.836†	-2.0	-0.0005 mg/L		0.00107	-0.0005 mg/L	0.00107	224.70%
Pb 220.353†	-1.6	-0.0002 mg/L		0.00041	-0.0002 mg/L	0.00041	191.86%
Cd 226.502†	12.8	0.0001 mg/L		0.00000	0.0001 mg/L	0.00000	3.64%
Co 228.616†	5.8	0.0002 mg/L		0.00008	0.0002 mg/L	0.00008	37.21%
Ni 232.003†	16.9	0.0009 mg/L		0.00032	0.0009 mg/L	0.00032	35.95%
Ba 233.527†	3.1	0.0000 mg/L		0.00005	0.0000 mg/L	0.00005	176.31%
Mn 257.610†	-5.4	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	235.84%
Cr 267.716†	-8.1	-0.0001 mg/L		0.00010	-0.0001 mg/L	0.00010	135.28%
Fe 273.955†	26.6	0.0017 mg/L		0.00025	0.0017 mg/L	0.00025	14.31%
Mg 279.077†	-20.4	-0.0015 mg/L		0.00065	-0.0015 mg/L	0.00065	42.22%
V 292.402†	-3.6	0.0000 mg/L		0.00003	0.0000 mg/L	0.00003	241.63%
Al 308.215†	-133.0	-0.0041 mg/L		0.00137	-0.0041 mg/L	0.00137	33.23%
Be 313.107†	100.8	0.0000 mg/L		0.00003	0.0000 mg/L	0.00003	110.89%
Cu 324.752†	-830.8	-0.0025 mg/L		0.00007	-0.0025 mg/L	0.00007	2.72%

Ag 338.289†	85.2	0.0005 mg/L	0.00039	0.0005 mg/L	0.00039	81.06%
Na 330.237†	-188.9	-0.1454 mg/L	0.01346	-0.1454 mg/L	0.01346	9.25%
Ca 227.546†	-7.2	-0.0127 mg/L	0.03408	-0.0127 mg/L	0.03408	268.15%
Al RADIAL†	0.3	0.0001 mg/L	0.00264	0.0001 mg/L	0.00264	>999.9%
Fe RADIAL†	0.0	0.0000 mg/L	0.02907	0.0000 mg/L	0.02907	>999.9%
Ca RADIAL†	0.5	0.0004 mg/L	0.00389	0.0004 mg/L	0.00389	994.30%
K RADIAL†	-0.1	-0.0001 mg/L	0.00995	-0.0001 mg/L	0.00995	>999.9%
Mg RADIAL†	-0.5	-0.0060 mg/L	0.02480	-0.0060 mg/L	0.02480	416.55%
Na RADIAL†	-3057.4	-0.2314 mg/L	0.00615	-0.2314 mg/L	0.00615	2.66%

Sequence No.: 94

Sample ID: SEQ-SRD3

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 79

Date Collected: 4/2/2014 1:21:10 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-SRD3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	17101943.7	5.167 mg/L		0.0299			0.58%
Y RADIAL	195753.9	5.291 mg/L		0.0740			1.40%
As 188.979†	1.4	0.0063 mg/L		0.00255	0.0063 mg/L	0.00255	40.54%
Tl 190.801†	-22.7	-0.0028 mg/L		0.00164	-0.0028 mg/L	0.00164	58.13%
Se 196.026†	-31.6	0.0025 mg/L		0.00320	0.0025 mg/L	0.00320	130.68%
Zn 206.200†	8124.2	0.1631 mg/L		0.00125	0.1631 mg/L	0.00125	0.77%
Sb 206.836†	-4.8	-0.0014 mg/L		0.00071	-0.0014 mg/L	0.00071	52.04%
Pb 220.353†	1556.2	0.2021 mg/L		0.00241	0.2021 mg/L	0.00241	1.19%
Cd 226.502†	1029.0	0.0011 mg/L		0.00008	0.0011 mg/L	0.00008	7.28%
Co 228.616†	402.2	0.0143 mg/L		0.00023	0.0143 mg/L	0.00023	1.63%
Ni 232.003†	641.3	0.0399 mg/L		0.00049	0.0399 mg/L	0.00049	1.23%
Ba 233.527†	16258.5	0.1460 mg/L		0.00163	0.1460 mg/L	0.00163	1.11%
Mn 257.610†	410157.1	0.6836 mg/L		0.00719	0.6836 mg/L	0.00719	1.05%
Cr 267.716†	5353.2	0.0511 mg/L		0.00041	0.0511 mg/L	0.00041	0.80%
Fe 273.955†	597129.1	39.18 mg/L		0.477	39.18 mg/L	0.477	1.22%
Mg 279.077†	58400.4	4.430 mg/L		0.0511	4.430 mg/L	0.0511	1.15%
V 292.402†	21706.0	0.0689 mg/L		0.00088	0.0689 mg/L	0.00088	1.28%
Al 308.215†	488945.0	15.13 mg/L		0.147	15.13 mg/L	0.147	0.97%
Be 313.107†	-3768.3	-0.0010 mg/L		0.00001	-0.0010 mg/L	0.00001	1.52%
Cu 324.752†	20148.5	0.0611 mg/L		0.00073	0.0611 mg/L	0.00073	1.19%
Ag 338.289†	-805.8	-0.0046 mg/L		0.00010	-0.0046 mg/L	0.00010	2.19%
Na 330.237†	-386.7	-0.1012 mg/L		0.01646	-0.1012 mg/L	0.01646	16.27%
Ca 227.546†	1407.8	2.673 mg/L		0.0249	2.673 mg/L	0.0249	0.93%
Al RADIAL†	28291.6	15.83 mg/L		0.047	15.83 mg/L	0.047	0.30%
Fe RADIAL†	2496.0	39.00 mg/L		0.349	39.00 mg/L	0.349	0.89%
Ca RADIAL†	3987.4	2.990 mg/L		0.0274	2.990 mg/L	0.0274	0.92%
K RADIAL†	2162.9	1.667 mg/L		0.0039	1.667 mg/L	0.0039	0.23%
Mg RADIAL†	400.8	4.381 mg/L		0.0775	4.381 mg/L	0.0775	1.77%
Na RADIAL†	3600.5	0.2725 mg/L		0.00540	0.2725 mg/L	0.00540	1.98%

Sequence No.: 95

Sample ID: BD40041-BLK1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 80

Date Collected: 4/2/2014 1:26:01 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40041-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16570546.5	5.006 mg/L		0.0537			1.07%
Y RADIAL	184505.5	4.987 mg/L		0.0739			1.48%
As 188.979†	-2.7	-0.0011 mg/L		0.00216	-0.0011 mg/L	0.00216	204.24%
Tl 190.801†	6.5	0.0017 mg/L		0.00105	0.0017 mg/L	0.00105	60.52%
Se 196.026†	3.0	0.0024 mg/L		0.00299	0.0024 mg/L	0.00299	124.39%
Zn 206.200†	-13.1	-0.0003 mg/L		0.00006	-0.0003 mg/L	0.00006	24.39%
Sb 206.836†	1.0	0.0002 mg/L		0.00169	0.0002 mg/L	0.00169	692.30%
Pb 220.353†	-10.9	-0.0014 mg/L		0.00182	-0.0014 mg/L	0.00182	126.36%
Cd 226.502†	3.3	0.0000 mg/L		0.00009	0.0000 mg/L	0.00009	351.87%
Co 228.616†	3.8	0.0001 mg/L		0.00024	0.0001 mg/L	0.00024	177.06%

Ni 232.003†	6.5	0.0003 mg/L	0.00061	0.0003 mg/L	0.00061	180.30%
Ba 233.527†	-8.0	-0.0001 mg/L	0.00010	-0.0001 mg/L	0.00010	142.04%
Mn 257.610†	-0.1	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	>999.9%
Cr 267.716†	-0.5	0.0000 mg/L	0.00014	0.0000 mg/L	0.00014	>999.9%
Fe 273.955†	48.1	0.0032 mg/L	0.00068	0.0032 mg/L	0.00068	21.63%
Mg 279.077†	-14.8	-0.0011 mg/L	0.00060	-0.0011 mg/L	0.00060	53.19%
V 292.402†	-8.5	0.0000 mg/L	0.00007	0.0000 mg/L	0.00007	242.69%
Al 308.215†	29.5	0.0009 mg/L	0.00113	0.0009 mg/L	0.00113	123.79%
Be 313.107†	2.7	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	>999.9%
Cu 324.752†	-1303.8	-0.0038 mg/L	0.00008	-0.0038 mg/L	0.00008	2.07%
Ag 338.289†	39.4	0.0002 mg/L	0.00025	0.0002 mg/L	0.00025	109.95%
Na 330.237†	-189.9	-0.1462 mg/L	0.00908	-0.1462 mg/L	0.00908	6.21%
Ca 227.546†	-16.9	-0.0298 mg/L	0.01288	-0.0298 mg/L	0.01288	43.19%
Al RADIAL†	3.3	0.0019 mg/L	0.00212	0.0019 mg/L	0.00212	114.02%
Fe RADIAL†	-0.3	-0.0054 mg/L	0.02871	-0.0054 mg/L	0.02871	533.35%
Ca RADIAL†	8.8	0.0066 mg/L	0.01124	0.0066 mg/L	0.01124	170.61%
K RADIAL†	5.7	0.0044 mg/L	0.00883	0.0044 mg/L	0.00883	201.92%
Mg RADIAL†	0.8	0.0090 mg/L	0.02162	0.0090 mg/L	0.02162	240.38%
Na RADIAL†	-3093.1	-0.2341 mg/L	0.00340	-0.2341 mg/L	0.00340	1.45%

Sequence No.: 96

Sample ID: BD40041-SRM1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 81

Date Collected: 4/2/2014 1:30:53 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40041-SRM1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16385605.2	4.950	mg/L	0.0289				0.58%
Y RADIAL	189322.7	5.117	mg/L	0.0264				0.52%
As 188.979†	2357.0	0.9427	mg/L	0.00701	0.9427	mg/L	0.00701	0.74%
Tl 190.801†	5791.0	1.565	mg/L	0.0130	1.565	mg/L	0.0130	0.83%
Se 196.026†	1650.8	1.392	mg/L	0.0144	1.392	mg/L	0.0144	1.04%
Zn 206.200†	71796.5	1.453	mg/L	0.0162	1.453	mg/L	0.0162	1.12%
Sb 206.836†	6050.1	1.446	mg/L	0.0137	1.446	mg/L	0.0137	0.95%
Pb 220.353†	7676.2	1.008	mg/L	0.0089	1.008	mg/L	0.0089	0.89%
Cd 226.502†	197578.4	1.607	mg/L	0.0201	1.607	mg/L	0.0201	1.25%
Co 228.616†	33766.4	1.200	mg/L	0.0077	1.200	mg/L	0.0077	0.64%
Ni 232.003†	29213.7	1.543	mg/L	0.0108	1.543	mg/L	0.0108	0.70%
Ba 233.527†	316116.0	2.838	mg/L	0.0349	2.838	mg/L	0.0349	1.23%
Mn 257.610†	1796108.4	2.991	mg/L	0.0379	2.991	mg/L	0.0379	1.27%
Cr 267.716†	130442.3	1.245	mg/L	0.0149	1.245	mg/L	0.0149	1.19%
Fe 273.955†	1775276.5	116.5	mg/L	1.52	116.5	mg/L	1.52	1.30%
Mg 279.077†	367556.6	27.87	mg/L	0.360	27.87	mg/L	0.360	1.29%
V 292.402†	275018.0	0.9032	mg/L	0.01086	0.9032	mg/L	0.01086	1.20%
Al 308.215†	2753771.9	85.22	mg/L	1.317	85.22	mg/L	1.317	1.54%
Be 313.107†	2549543.5	0.6549	mg/L	0.00259	0.6549	mg/L	0.00259	0.40%
Cu 324.752†	338358.0	1.002	mg/L	0.0146	1.002	mg/L	0.0146	1.46%
Ag 338.289†	59940.5	0.3408	mg/L	0.00401	0.3408	mg/L	0.00401	1.18%
Na 330.237†	30627.1	24.25	mg/L	0.263	24.25	mg/L	0.263	1.09%
Ca 227.546†	34436.9	61.26	mg/L	0.453	61.26	mg/L	0.453	0.74%
Al RADIAL†	148066.2	82.82	mg/L	0.097	82.82	mg/L	0.097	0.12%
Fe RADIAL†	7782.1	121.6	mg/L	0.88	121.6	mg/L	0.88	0.72%
Ca RADIAL†	79937.8	59.94	mg/L	0.089	59.94	mg/L	0.089	0.15%
K RADIAL†	34017.3	26.21	mg/L	0.146	26.21	mg/L	0.146	0.56%
Mg RADIAL†	2621.9	28.66	mg/L	0.164	28.66	mg/L	0.164	0.57%
Na RADIAL†	342403.1	25.91	mg/L	0.014	25.91	mg/L	0.014	0.05%

Sequence No.: 97

Sample ID: 14C0978-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 82

Date Collected: 4/2/2014 1:38:48 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0978-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y 371.029	16550550.7	5.000 mg/L	0.0196			0.39%
Y RADIAL	197065.0	5.326 mg/L	0.0142			0.27%
As 188.979†	47.0	0.0396 mg/L	0.00089	0.0396 mg/L	0.00089	2.24%
Tl 190.801†	-127.4	-0.0219 mg/L	0.00139	-0.0219 mg/L	0.00139	6.34%
Se 196.026†	-143.4	-0.0128 mg/L	0.00374	-0.0128 mg/L	0.00374	29.17%
Zn 206.200†	64182.8	1.297 mg/L	0.0208	1.297 mg/L	0.0208	1.60%
Sb 206.836†	9.6	0.0012 mg/L	0.00212	0.0012 mg/L	0.00212	181.25%
Pb 220.353†	20463.6	2.694 mg/L	0.0409	2.694 mg/L	0.0409	1.52%
Cd 226.502†	3799.5	0.0042 mg/L	0.00069	0.0042 mg/L	0.00069	16.27%
Co 228.616†	1665.7	0.0592 mg/L	0.00055	0.0592 mg/L	0.00055	0.93%
Ni 232.003†	2374.6	0.1473 mg/L	0.00124	0.1473 mg/L	0.00124	0.84%
Ba 233.527†	104458.5	0.9378 mg/L	0.01409	0.9378 mg/L	0.01409	1.50%
Mn 257.610†	1899575.8	3.164 mg/L	0.0329	3.164 mg/L	0.0329	1.04%
Cr 267.716†	14834.4	0.1416 mg/L	0.00198	0.1416 mg/L	0.00198	1.40%
Fe 273.955†	2189279.9	143.6 mg/L	1.51	143.6 mg/L	1.51	1.05%
Mg 279.077†	246610.4	18.70 mg/L	0.244	18.70 mg/L	0.244	1.30%
V 292.402†	71151.9	0.2245 mg/L	0.00410	0.2245 mg/L	0.00410	1.83%
Al 308.215†	2437052.5	75.43 mg/L	0.848	75.43 mg/L	0.848	1.12%
Be 313.107†	-12439.7	-0.0032 mg/L	0.00017	-0.0032 mg/L	0.00017	5.36%
Cu 324.752†	99437.3	0.2987 mg/L	0.00395	0.2987 mg/L	0.00395	1.32%
Ag 338.289†	-3136.5	-0.0183 mg/L	0.00087	-0.0183 mg/L	0.00087	4.77%
Na 330.237†	-805.5	0.1495 mg/L	0.03518	0.1495 mg/L	0.03518	23.53%
Ca 227.546†	21428.5	38.47 mg/L	0.490	38.47 mg/L	0.490	1.27%
Al RADIAL†	132543.0	74.14 mg/L	0.187	74.14 mg/L	0.187	0.25%
Fe RADIAL†	9297.9	145.3 mg/L	0.44	145.3 mg/L	0.44	0.30%
Ca RADIAL†	52020.0	39.01 mg/L	0.121	39.01 mg/L	0.121	0.31%
K RADIAL†	9401.5	7.244 mg/L	0.0376	7.244 mg/L	0.0376	0.52%
Mg RADIAL†	1632.3	17.84 mg/L	0.168	17.84 mg/L	0.168	0.94%
Na RADIAL†	15870.6	1.201 mg/L	0.0089	1.201 mg/L	0.0089	0.74%

Sequence No.: 98

Sample ID: 14C0978-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 83

Date Collected: 4/2/2014 1:43:47 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0978-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16633644.9	5.025 mg/L		0.0248				0.49%
Y RADIAL	192567.0	5.205 mg/L		0.0149				0.29%
As 188.979†	12.3	0.0239 mg/L		0.00229	0.0239 mg/L		0.00229	9.58%
Tl 190.801†	-124.5	-0.0222 mg/L		0.00070	-0.0222 mg/L		0.00070	3.16%
Se 196.026†	-121.6	-0.0053 mg/L		0.00484	-0.0053 mg/L		0.00484	91.54%
Zn 206.200†	15377.5	0.3050 mg/L		0.00181	0.3050 mg/L		0.00181	0.59%
Sb 206.836†	-0.9	-0.0014 mg/L		0.00157	-0.0014 mg/L		0.00157	108.94%
Pb 220.353†	2431.7	0.3126 mg/L		0.00234	0.3126 mg/L		0.00234	0.75%
Cd 226.502†	3354.2	0.0032 mg/L		0.00015	0.0032 mg/L		0.00015	4.62%
Co 228.616†	1484.6	0.0527 mg/L		0.00037	0.0527 mg/L		0.00037	0.69%
Ni 232.003†	1861.6	0.1183 mg/L		0.00098	0.1183 mg/L		0.00098	0.82%
Ba 233.527†	58585.3	0.5260 mg/L		0.00518	0.5260 mg/L		0.00518	0.98%
Mn 257.610†	1839196.8	3.063 mg/L		0.0188	3.063 mg/L		0.0188	0.61%
Cr 267.716†	15978.0	0.1525 mg/L		0.00182	0.1525 mg/L		0.00182	1.19%
Fe 273.955†	1976644.1	129.7 mg/L		0.65	129.7 mg/L		0.65	0.50%
Mg 279.077†	198728.5	15.07 mg/L		0.176	15.07 mg/L		0.176	1.17%
V 292.402†	63858.0	0.2014 mg/L		0.00259	0.2014 mg/L		0.00259	1.29%
Al 308.215†	2672592.1	82.71 mg/L		0.234	82.71 mg/L		0.234	0.28%
Be 313.107†	-12753.6	-0.0033 mg/L		0.00005	-0.0033 mg/L		0.00005	1.52%
Cu 324.752†	53999.7	0.1643 mg/L		0.00270	0.1643 mg/L		0.00270	1.64%
Ag 338.289†	-3182.8	-0.0183 mg/L		0.00017	-0.0183 mg/L		0.00017	0.93%
Na 330.237†	-2036.7	-0.9034 mg/L		0.01554	-0.9034 mg/L		0.01554	1.72%
Ca 227.546†	8877.9	16.30 mg/L		0.083	16.30 mg/L		0.083	0.51%
Al RADIAL†	149013.0	83.35 mg/L		0.062	83.35 mg/L		0.062	0.07%
Fe RADIAL†	8597.6	134.4 mg/L		0.99	134.4 mg/L		0.99	0.74%
Ca RADIAL†	21930.8	16.44 mg/L		0.025	16.44 mg/L		0.025	0.15%
K RADIAL†	4982.3	3.839 mg/L		0.0267	3.839 mg/L		0.0267	0.70%
Mg RADIAL†	1356.9	14.83 mg/L		0.038	14.83 mg/L		0.038	0.26%
Na RADIAL†	11346.3	0.8586 mg/L		0.01194	0.8586 mg/L		0.01194	1.39%

Sequence No.: 99
Sample ID: 14C0978-03
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 84
Date Collected: 4/2/2014 1:48:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 14C0978-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16960534.6	5.124 mg/L	0.0207			0.40%
Y RADIAL	197041.1	5.325 mg/L	0.0183			0.34%
As 188.979†	2.7	0.0214 mg/L	0.00475	0.0214 mg/L	0.00475	22.19%
Tl 190.801†	-124.3	-0.0216 mg/L	0.00243	-0.0216 mg/L	0.00243	11.27%
Se 196.026†	-127.9	-0.0043 mg/L	0.00777	-0.0043 mg/L	0.00777	181.21%
Zn 206.200†	12321.4	0.2427 mg/L	0.00078	0.2427 mg/L	0.00078	0.32%
Sb 206.836†	-6.0	-0.0025 mg/L	0.00230	-0.0025 mg/L	0.00230	93.76%
Pb 220.353†	1414.7	0.1755 mg/L	0.00187	0.1755 mg/L	0.00187	1.06%
Cd 226.502†	3560.9	0.0033 mg/L	0.00020	0.0033 mg/L	0.00020	6.27%
Co 228.616†	1508.7	0.0536 mg/L	0.00104	0.0536 mg/L	0.00104	1.93%
Ni 232.003†	1962.8	0.1250 mg/L	0.00167	0.1250 mg/L	0.00167	1.33%
Ba 233.527†	41183.6	0.3697 mg/L	0.00241	0.3697 mg/L	0.00241	0.65%
Mn 257.610†	1608009.5	2.679 mg/L	0.0143	2.679 mg/L	0.0143	0.53%
Cr 267.716†	14052.6	0.1341 mg/L	0.00074	0.1341 mg/L	0.00074	0.55%
Fe 273.955†	2107652.0	138.3 mg/L	0.89	138.3 mg/L	0.89	0.64%
Mg 279.077†	186559.0	14.15 mg/L	0.085	14.15 mg/L	0.085	0.60%
V 292.402†	74318.5	0.2354 mg/L	0.00204	0.2354 mg/L	0.00204	0.87%
Al 308.215†	2193844.9	67.90 mg/L	0.494	67.90 mg/L	0.494	0.73%
Be 313.107†	-16516.6	-0.0042 mg/L	0.00007	-0.0042 mg/L	0.00007	1.60%
Cu 324.752†	44013.4	0.1355 mg/L	0.00077	0.1355 mg/L	0.00077	0.57%
Ag 338.289†	-3421.8	-0.0196 mg/L	0.00021	-0.0196 mg/L	0.00021	1.07%
Na 330.237†	-2460.3	-1.201 mg/L	0.0116	-1.201 mg/L	0.0116	0.97%
Ca 227.546†	4683.8	8.939 mg/L	0.0767	8.939 mg/L	0.0767	0.86%
Al RADIAL†	122893.9	68.74 mg/L	0.071	68.74 mg/L	0.071	0.10%
Fe RADIAL†	9201.1	143.8 mg/L	0.25	143.8 mg/L	0.25	0.18%
Ca RADIAL†	12780.8	9.584 mg/L	0.0260	9.584 mg/L	0.0260	0.27%
K RADIAL†	7669.5	5.910 mg/L	0.0473	5.910 mg/L	0.0473	0.80%
Mg RADIAL†	1263.2	13.81 mg/L	0.055	13.81 mg/L	0.055	0.40%
Na RADIAL†	9658.5	0.7309 mg/L	0.00530	0.7309 mg/L	0.00530	0.72%

Sequence No.: 100
Sample ID: 14C0978-04
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 85
Date Collected: 4/2/2014 1:53:45 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 14C0978-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16661455.1	5.034 mg/L	0.0701			1.39%
Y RADIAL	195155.1	5.275 mg/L	0.0504			0.96%
As 188.979†	44.1	0.0456 mg/L	0.00402	0.0456 mg/L	0.00402	8.82%
Tl 190.801†	-142.0	-0.0213 mg/L	0.00204	-0.0213 mg/L	0.00204	9.59%
Se 196.026†	-196.0	-0.0205 mg/L	0.00683	-0.0205 mg/L	0.00683	33.36%
Zn 206.200†	18074.8	0.3558 mg/L	0.00343	0.3558 mg/L	0.00343	0.96%
Sb 206.836†	-1.2	-0.0023 mg/L	0.00039	-0.0023 mg/L	0.00039	16.62%
Pb 220.353†	460.7	0.0489 mg/L	0.00259	0.0489 mg/L	0.00259	5.31%
Cd 226.502†	4998.9	0.0050 mg/L	0.00031	0.0050 mg/L	0.00031	6.16%
Co 228.616†	2038.1	0.0724 mg/L	0.00117	0.0724 mg/L	0.00117	1.62%
Ni 232.003†	2482.5	0.1609 mg/L	0.00174	0.1609 mg/L	0.00174	1.08%
Ba 233.527†	33881.1	0.3042 mg/L	0.00246	0.3042 mg/L	0.00246	0.81%
Mn 257.610†	1926052.2	3.211 mg/L	0.0255	3.211 mg/L	0.0255	0.79%
Cr 267.716†	17118.3	0.1633 mg/L	0.00100	0.1633 mg/L	0.00100	0.61%
Fe 273.955†	2927111.6	192.1 mg/L	1.29	192.1 mg/L	1.29	0.67%
Mg 279.077†	341862.1	25.93 mg/L	0.209	25.93 mg/L	0.209	0.81%
V 292.402†	90672.4	0.2853 mg/L	0.00262	0.2853 mg/L	0.00262	0.92%
Al 308.215†	4433995.5	137.2 mg/L	0.48	137.2 mg/L	0.48	0.35%
Be 313.107†	-11715.4	-0.0030 mg/L	0.00000	-0.0030 mg/L	0.00000	0.13%
Cu 324.752†	34093.8	0.1079 mg/L	0.00117	0.1079 mg/L	0.00117	1.08%
Ag 338.289†	-3496.8	-0.0200 mg/L	0.00048	-0.0200 mg/L	0.00048	2.42%

Na 330.237†	-2688.8	-1.108 mg/L	0.0120	-1.108 mg/L	0.0120	1.08%
Ca 227.546†	5132.2	10.02 mg/L	0.106	10.02 mg/L	0.106	1.06%
Al RADIAL†	246277.2	137.8 mg/L	0.23	137.8 mg/L	0.23	0.17%
Fe RADIAL†	12851.4	200.8 mg/L	1.59	200.8 mg/L	1.59	0.79%
Ca RADIAL†	14344.6	10.76 mg/L	0.083	10.76 mg/L	0.083	0.77%
K RADIAL†	9221.2	7.105 mg/L	0.0477	7.105 mg/L	0.0477	0.67%
Mg RADIAL†	2303.5	25.18 mg/L	0.221	25.18 mg/L	0.221	0.88%
Na RADIAL†	8944.4	0.6768 mg/L	0.00135	0.6768 mg/L	0.00135	0.20%

Sequence No.: 101

Sample ID: 14C0978-05

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 86

Date Collected: 4/2/2014 1:58:45 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0978-05

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16473881.7	4.977 mg/L	0.0674			1.35%
Y RADIAL	195567.7	5.286 mg/L	0.0147			0.28%
As 188.979†	89.7	0.0582 mg/L	0.00502	0.0582 mg/L	0.00502	8.63%
Tl 190.801†	-133.4	-0.0224 mg/L	0.00181	-0.0224 mg/L	0.00181	8.07%
Se 196.026†	-155.8	-0.0140 mg/L	0.00504	-0.0140 mg/L	0.00504	36.09%
Zn 206.200†	110471.6	2.238 mg/L	0.0268	2.238 mg/L	0.0268	1.20%
Sb 206.836†	9.5	0.0009 mg/L	0.00146	0.0009 mg/L	0.00146	156.70%
Pb 220.353†	22549.2	2.970 mg/L	0.0408	2.970 mg/L	0.0408	1.37%
Cd 226.502†	4704.7	0.0094 mg/L	0.00054	0.0094 mg/L	0.00054	5.77%
Co 228.616†	1716.8	0.0610 mg/L	0.00046	0.0610 mg/L	0.00046	0.76%
Ni 232.003†	3538.3	0.2101 mg/L	0.00618	0.2101 mg/L	0.00618	2.94%
Ba 233.527†	167472.4	1.504 mg/L	0.0161	1.504 mg/L	0.0161	1.07%
Mn 257.610†	1981441.7	3.301 mg/L	0.0159	3.301 mg/L	0.0159	0.48%
Cr 267.716†	21299.8	0.2032 mg/L	0.00274	0.2032 mg/L	0.00274	1.35%
Fe 273.955†	2377557.9	156.0 mg/L	0.62	156.0 mg/L	0.62	0.40%
Mg 279.077†	432155.5	32.77 mg/L	0.151	32.77 mg/L	0.151	0.46%
V 292.402†	94552.8	0.3011 mg/L	0.00458	0.3011 mg/L	0.00458	1.52%
Al 308.215†	2875373.7	88.99 mg/L	0.915	88.99 mg/L	0.915	1.03%
Be 313.107†	-11376.5	-0.0029 mg/L	0.00004	-0.0029 mg/L	0.00004	1.39%
Cu 324.752†	189900.2	0.5652 mg/L	0.00587	0.5652 mg/L	0.00587	1.04%
Ag 338.289†	-3110.6	-0.0186 mg/L	0.00059	-0.0186 mg/L	0.00059	3.18%
Na 330.237†	845.5	1.554 mg/L	0.0128	1.554 mg/L	0.0128	0.82%
Ca 227.546†	45442.8	80.84 mg/L	1.063	80.84 mg/L	1.063	1.31%
Al RADIAL†	155480.5	86.97 mg/L	0.200	86.97 mg/L	0.200	0.23%
Fe RADIAL†	10170.3	158.9 mg/L	0.71	158.9 mg/L	0.71	0.45%
Ca RADIAL†	107209.9	80.39 mg/L	0.220	80.39 mg/L	0.220	0.27%
K RADIAL†	9808.6	7.558 mg/L	0.0242	7.558 mg/L	0.0242	0.32%
Mg RADIAL†	2965.4	32.41 mg/L	0.204	32.41 mg/L	0.204	0.63%
Na RADIAL†	23788.2	1.800 mg/L	0.0136	1.800 mg/L	0.0136	0.76%

Sequence No.: 102

Sample ID: 14C0978-06

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 87

Date Collected: 4/2/2014 2:03:43 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0978-06

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16548812.2	5.000 mg/L	0.0156			0.31%
Y RADIAL	194364.4	5.253 mg/L	0.0466			0.89%
As 188.979†	13.9	0.0296 mg/L	0.00175	0.0296 mg/L	0.00175	5.93%
Tl 190.801†	-131.0	-0.0207 mg/L	0.00084	-0.0207 mg/L	0.00084	4.04%
Se 196.026†	-170.3	-0.0199 mg/L	0.00136	-0.0199 mg/L	0.00136	6.87%
Zn 206.200†	14777.6	0.2902 mg/L	0.00208	0.2902 mg/L	0.00208	0.72%
Sb 206.836†	-0.1	-0.0020 mg/L	0.00126	-0.0020 mg/L	0.00126	64.06%
Pb 220.353†	448.4	0.0502 mg/L	0.00267	0.0502 mg/L	0.00267	5.32%
Cd 226.502†	4117.2	0.0030 mg/L	0.00017	0.0030 mg/L	0.00017	5.50%
Co 228.616†	1924.9	0.0684 mg/L	0.00115	0.0684 mg/L	0.00115	1.68%
Ni 232.003†	2222.7	0.1427 mg/L	0.00492	0.1427 mg/L	0.00492	3.45%

Ba 233.527†	30741.5	0.2760 mg/L	0.00192	0.2760 mg/L	0.00192	0.70%
Mn 257.610†	1413713.8	2.358 mg/L	0.0028	2.358 mg/L	0.0028	0.12%
Cr 267.716†	15183.4	0.1449 mg/L	0.00092	0.1449 mg/L	0.00092	0.64%
Fe 273.955†	2499051.0	164.0 mg/L	0.32	164.0 mg/L	0.32	0.20%
Mg 279.077†	309317.1	23.46 mg/L	0.102	23.46 mg/L	0.102	0.43%
V 292.402†	77755.1	0.2448 mg/L	0.00031	0.2448 mg/L	0.00031	0.13%
Al 308.215†	4188113.6	129.6 mg/L	0.36	129.6 mg/L	0.36	0.27%
Be 313.107†	-15201.3	-0.0039 mg/L	0.00006	-0.0039 mg/L	0.00006	1.48%
Cu 324.752†	23799.0	0.0763 mg/L	0.00069	0.0763 mg/L	0.00069	0.91%
Ag 338.289†	-3316.7	-0.0190 mg/L	0.00029	-0.0190 mg/L	0.00029	1.55%
Na 330.237†	-2475.0	-1.083 mg/L	0.0340	-1.083 mg/L	0.0340	3.14%
Ca 227.546†	4503.5	8.775 mg/L	0.0187	8.775 mg/L	0.0187	0.21%
Al RADIAL†	233873.2	130.8 mg/L	0.19	130.8 mg/L	0.19	0.14%
Fe RADIAL†	10693.8	167.1 mg/L	1.38	167.1 mg/L	1.38	0.83%
Ca RADIAL†	12433.9	9.323 mg/L	0.0745	9.323 mg/L	0.0745	0.80%
K RADIAL†	8094.5	6.237 mg/L	0.0485	6.237 mg/L	0.0485	0.78%
Mg RADIAL†	2089.5	22.84 mg/L	0.164	22.84 mg/L	0.164	0.72%
Na RADIAL†	7870.8	0.5956 mg/L	0.00265	0.5956 mg/L	0.00265	0.44%

Sequence No.: 103

Sample ID: 14C0978-07

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 88

Date Collected: 4/2/2014 2:08:42 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0978-07

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16635379.5	5.026 mg/L	0.0309			0.61%
Y RADIAL	196756.1	5.318 mg/L	0.0255			0.48%
As 188.979†	0.3	0.0288 mg/L	0.00251	0.0288 mg/L	0.00251	8.71%
Tl 190.801†	-144.8	-0.0225 mg/L	0.00327	-0.0225 mg/L	0.00327	14.55%
Se 196.026†	-198.4	-0.0202 mg/L	0.00506	-0.0202 mg/L	0.00506	25.06%
Zn 206.200†	19080.2	0.3772 mg/L	0.00110	0.3772 mg/L	0.00110	0.29%
Sb 206.836†	66.3	0.0147 mg/L	0.00240	0.0147 mg/L	0.00240	16.33%
Pb 220.353†	1524.3	0.1841 mg/L	0.00227	0.1841 mg/L	0.00227	1.23%
Cd 226.502†	5112.7	0.0053 mg/L	0.00020	0.0053 mg/L	0.00020	3.72%
Co 228.616†	1611.3	0.0572 mg/L	0.00062	0.0572 mg/L	0.00062	1.09%
Ni 232.003†	2463.7	0.1604 mg/L	0.00183	0.1604 mg/L	0.00183	1.14%
Ba 233.527†	65050.7	0.5840 mg/L	0.00278	0.5840 mg/L	0.00278	0.48%
Mn 257.610†	1909292.5	3.183 mg/L	0.0206	3.183 mg/L	0.0206	0.65%
Cr 267.716†	15524.5	0.1481 mg/L	0.00100	0.1481 mg/L	0.00100	0.67%
Fe 273.955†	2974850.6	195.2 mg/L	1.40	195.2 mg/L	1.40	0.72%
Mg 279.077†	236822.8	17.96 mg/L	0.093	17.96 mg/L	0.093	0.52%
V 292.402†	76445.1	0.2379 mg/L	0.00228	0.2379 mg/L	0.00228	0.96%
Al 308.215†	2576557.3	79.75 mg/L	0.459	79.75 mg/L	0.459	0.58%
Be 313.107†	-10456.7	-0.0027 mg/L	0.00008	-0.0027 mg/L	0.00008	3.15%
Cu 324.752†	50040.6	0.1551 mg/L	0.00129	0.1551 mg/L	0.00129	0.83%
Ag 338.289†	-3303.5	-0.0193 mg/L	0.00041	-0.0193 mg/L	0.00041	2.15%
Na 330.237†	-2613.2	-0.9723 mg/L	0.00378	-0.9723 mg/L	0.00378	0.39%
Ca 227.546†	27572.8	49.54 mg/L	0.179	49.54 mg/L	0.179	0.36%
Al RADIAL†	139639.0	78.11 mg/L	0.286	78.11 mg/L	0.286	0.37%
Fe RADIAL†	12850.8	200.8 mg/L	2.11	200.8 mg/L	2.11	1.05%
Ca RADIAL†	67184.4	50.38 mg/L	0.054	50.38 mg/L	0.054	0.11%
K RADIAL†	7560.0	5.825 mg/L	0.1027	5.825 mg/L	0.1027	1.76%
Mg RADIAL†	1591.7	17.40 mg/L	0.135	17.40 mg/L	0.135	0.78%
Na RADIAL†	9021.9	0.6827 mg/L	0.00722	0.6827 mg/L	0.00722	1.06%

Sequence No.: 104

Sample ID: SEQ-CCV9

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/2/2014 2:13:40 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV9

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16520878.8	4.991 mg/L	0.0776			1.55%

Y RADIAL	190449.1	5.147 mg/L	0.0316			0.61%
As 188.979†	634.0	0.2497 mg/L	0.00461	0.2497 mg/L	0.00461	1.84%
Tl 190.801†	981.9	0.2642 mg/L	0.00262	0.2642 mg/L	0.00262	0.99%
Se 196.026†	310.7	0.2501 mg/L	0.00281	0.2501 mg/L	0.00281	1.12%
Zn 206.200†	125413.3	2.551 mg/L	0.0326	2.551 mg/L	0.0326	1.28%
Sb 206.836†	1065.3	0.2546 mg/L	0.00160	0.2546 mg/L	0.00160	0.63%
Pb 220.353†	1908.9	0.2529 mg/L	0.00421	0.2529 mg/L	0.00421	1.67%
Cd 226.502†	15352.0	0.1256 mg/L	0.00100	0.1256 mg/L	0.00100	0.80%
Co 228.616†	71114.2	2.527 mg/L	0.0338	2.527 mg/L	0.0338	1.34%
Ni 232.003†	48112.3	2.510 mg/L	0.0250	2.510 mg/L	0.0250	1.00%
Ba 233.527†	1138844.7	10.22 mg/L	0.198	10.22 mg/L	0.198	1.93%
Mn 257.610†	1522395.9	2.530 mg/L	0.0466	2.530 mg/L	0.0466	1.84%
Cr 267.716†	108461.7	1.035 mg/L	0.0146	1.035 mg/L	0.0146	1.41%
Fe 273.955†	77811.8	5.105 mg/L	0.0767	5.105 mg/L	0.0767	1.50%
Mg 279.077†	330545.2	25.06 mg/L	0.495	25.06 mg/L	0.495	1.97%
V 292.402†	752718.8	2.498 mg/L	0.0448	2.498 mg/L	0.0448	1.79%
Al 308.215†	308584.9	9.549 mg/L	0.1907	9.549 mg/L	0.1907	2.00%
Be 313.107†	967404.8	0.2485 mg/L	0.00460	0.2485 mg/L	0.00460	1.85%
Cu 324.752†	413377.0	1.220 mg/L	0.0211	1.220 mg/L	0.0211	1.73%
Ag 338.289†	215070.6	1.225 mg/L	0.0220	1.225 mg/L	0.0220	1.80%
Na 330.237†	29571.1	22.83 mg/L	0.419	22.83 mg/L	0.419	1.83%
Ca 227.546†	13313.0	23.49 mg/L	0.351	23.49 mg/L	0.351	1.49%
Al RADIAL†	17677.9	9.888 mg/L	0.0628	9.888 mg/L	0.0628	0.63%
Fe RADIAL†	323.7	5.058 mg/L	0.0749	5.058 mg/L	0.0749	1.48%
Ca RADIAL†	33546.3	25.15 mg/L	0.174	25.15 mg/L	0.174	0.69%
K RADIAL†	6248.7	4.815 mg/L	0.0361	4.815 mg/L	0.0361	0.75%
Mg RADIAL†	2312.2	25.27 mg/L	0.236	25.27 mg/L	0.236	0.94%
Na RADIAL†	326878.4	24.74 mg/L	0.455	24.74 mg/L	0.455	1.84%

Sequence No.: 105

Sample ID: SEQ-CCB9

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 4/2/2014 2:21:42 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB9

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	17291958.6	5.224 mg/L		0.0396			0.76%
Y RADIAL	192487.7	5.202 mg/L		0.0589			1.13%
As 188.979†	-1.4	-0.0005 mg/L		0.00137	-0.0005 mg/L	0.00137	251.65%
Tl 190.801†	11.1	0.0030 mg/L		0.00074	0.0030 mg/L	0.00074	24.60%
Se 196.026†	5.2	0.0041 mg/L		0.00220	0.0041 mg/L	0.00220	53.38%
Zn 206.200†	-29.0	-0.0006 mg/L		0.00010	-0.0006 mg/L	0.00010	16.85%
Sb 206.836†	2.0	0.0005 mg/L		0.00035	0.0005 mg/L	0.00035	75.28%
Pb 220.353†	3.2	0.0004 mg/L		0.00077	0.0004 mg/L	0.00077	180.54%
Cd 226.502†	10.5	0.0001 mg/L		0.00009	0.0001 mg/L	0.00009	99.40%
Co 228.616†	5.6	0.0002 mg/L		0.00012	0.0002 mg/L	0.00012	61.99%
Ni 232.003†	25.9	0.0014 mg/L		0.00044	0.0014 mg/L	0.00044	32.57%
Ba 233.527†	2.9	0.0000 mg/L		0.00007	0.0000 mg/L	0.00007	253.42%
Mn 257.610†	-9.2	0.0000 mg/L		0.00001	0.0000 mg/L	0.00001	82.31%
Cr 267.716†	-0.6	0.0000 mg/L		0.00017	0.0000 mg/L	0.00017	>999.9%
Fe 273.955†	29.5	0.0019 mg/L		0.00047	0.0019 mg/L	0.00047	24.18%
Mg 279.077†	-14.6	-0.0011 mg/L		0.00046	-0.0011 mg/L	0.00046	41.54%
V 292.402†	5.5	0.0000 mg/L		0.00006	0.0000 mg/L	0.00006	330.31%
Al 308.215†	-237.7	-0.0074 mg/L		0.00282	-0.0074 mg/L	0.00282	38.33%
Be 313.107†	128.4	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	64.25%
Cu 324.752†	-1052.9	-0.0031 mg/L		0.00017	-0.0031 mg/L	0.00017	5.35%
Ag 338.289†	141.9	0.0008 mg/L		0.00020	0.0008 mg/L	0.00020	24.68%
Na 330.237†	-213.9	-0.1646 mg/L		0.01713	-0.1646 mg/L	0.01713	10.40%
Ca 227.546†	-7.4	-0.0130 mg/L		0.01175	-0.0130 mg/L	0.01175	90.63%
Al RADIAL†	2.2	0.0012 mg/L		0.00177	0.0012 mg/L	0.00177	144.85%
Fe RADIAL†	-0.5	-0.0075 mg/L		0.00278	-0.0075 mg/L	0.00278	37.09%
Ca RADIAL†	3.3	0.0025 mg/L		0.01046	0.0025 mg/L	0.01046	423.25%
K RADIAL†	-13.7	-0.0106 mg/L		0.00614	-0.0106 mg/L	0.00614	58.20%
Mg RADIAL†	-2.6	-0.0280 mg/L		0.00829	-0.0280 mg/L	0.00829	29.64%
Na RADIAL†	-3329.0	-0.2519 mg/L		0.00425	-0.2519 mg/L	0.00425	1.69%

Sequence No.: 106

Autosampler Location: 89

Sample ID: 14C0978-08
Analyst: MW
Initial Sample Wt:
Dilution:

Date Collected: 4/2/2014 2:26:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 14C0978-08

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Y 371.029	16379702.3	4.949 mg/L	0.0294				0.59%
Y RADIAL	189304.1	5.116 mg/L	0.0200				0.39%
As 188.979†	23.0	0.0326 mg/L	0.00178		0.0326 mg/L	0.00178	5.47%
Tl 190.801†	-122.5	-0.0189 mg/L	0.00196		-0.0189 mg/L	0.00196	10.40%
Se 196.026†	-151.6	-0.0078 mg/L	0.00372		-0.0078 mg/L	0.00372	47.94%
Zn 206.200†	13450.6	0.2636 mg/L	0.00092		0.2636 mg/L	0.00092	0.35%
Sb 206.836†	15.6	0.0020 mg/L	0.00249		0.0020 mg/L	0.00249	125.63%
Pb 220.353†	579.9	0.0668 mg/L	0.00147		0.0668 mg/L	0.00147	2.20%
Cd 226.502†	4015.4	0.0029 mg/L	0.00040		0.0029 mg/L	0.00040	13.94%
Co 228.616†	1836.6	0.0653 mg/L	0.00025		0.0653 mg/L	0.00025	0.38%
Ni 232.003†	2125.3	0.1370 mg/L	0.00468		0.1370 mg/L	0.00468	3.41%
Ba 233.527†	56772.8	0.5097 mg/L	0.00423		0.5097 mg/L	0.00423	0.83%
Mn 257.610†	2042656.4	3.403 mg/L	0.0379		3.403 mg/L	0.0379	1.11%
Cr 267.716†	16908.9	0.1613 mg/L	0.00102		0.1613 mg/L	0.00102	0.64%
Fe 273.955†	2440048.4	160.1 mg/L	1.90		160.1 mg/L	1.90	1.19%
Mg 279.077†	225763.1	17.13 mg/L	0.139		17.13 mg/L	0.139	0.81%
V 292.402†	75498.2	0.2376 mg/L	0.00247		0.2376 mg/L	0.00247	1.04%
Al 308.215†	3755342.9	116.2 mg/L	1.13		116.2 mg/L	1.13	0.97%
Be 313.107†	-9674.6	-0.0025 mg/L	0.00007		-0.0025 mg/L	0.00007	2.91%
Cu 324.752†	24024.4	0.0770 mg/L	0.00076		0.0770 mg/L	0.00076	0.99%
Ag 338.289†	-2743.2	-0.0157 mg/L	0.00030		-0.0157 mg/L	0.00030	1.94%
Na 330.237†	-2251.0	-0.9294 mg/L	0.01427		-0.9294 mg/L	0.01427	1.54%
Ca 227.546†	5120.7	9.837 mg/L	0.0802		9.837 mg/L	0.0802	0.81%
Al RADIAL†	207250.7	115.9 mg/L	0.10		115.9 mg/L	0.10	0.08%
Fe RADIAL†	10581.0	165.3 mg/L	0.40		165.3 mg/L	0.40	0.24%
Ca RADIAL†	14034.7	10.52 mg/L	0.030		10.52 mg/L	0.030	0.29%
K RADIAL†	5992.9	4.618 mg/L	0.0228		4.618 mg/L	0.0228	0.49%
Mg RADIAL†	1559.4	17.04 mg/L	0.115		17.04 mg/L	0.115	0.67%
Na RADIAL†	7964.7	0.6027 mg/L	0.00457		0.6027 mg/L	0.00457	0.76%

Sequence No.: 107
Sample ID: 14C0978-09
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 90
Date Collected: 4/2/2014 2:31:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 14C0978-09

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Y 371.029	16367672.1	4.945 mg/L	0.0199				0.40%
Y RADIAL	193735.3	5.236 mg/L	0.0164				0.31%
As 188.979†	-15.2	0.0302 mg/L	0.00168		0.0302 mg/L	0.00168	5.56%
Tl 190.801†	-218.4	-0.0381 mg/L	0.00131		-0.0381 mg/L	0.00131	3.43%
Se 196.026†	-253.6	-0.0285 mg/L	0.00589		-0.0285 mg/L	0.00589	20.68%
Zn 206.200†	31356.1	0.6244 mg/L	0.00622		0.6244 mg/L	0.00622	1.00%
Sb 206.836†	-16.8	-0.0053 mg/L	0.00138		-0.0053 mg/L	0.00138	25.85%
Pb 220.353†	2203.0	0.2677 mg/L	0.00234		0.2677 mg/L	0.00234	0.87%
Cd 226.502†	6785.1	0.0096 mg/L	0.00111		0.0096 mg/L	0.00111	11.65%
Co 228.616†	2240.8	0.0796 mg/L	0.00052		0.0796 mg/L	0.00052	0.66%
Ni 232.003†	3200.4	0.2071 mg/L	0.00306		0.2071 mg/L	0.00306	1.48%
Ba 233.527†	66395.6	0.5961 mg/L	0.00406		0.5961 mg/L	0.00406	0.68%
Mn 257.610†	3509526.6	5.845 mg/L	0.0440		5.845 mg/L	0.0440	0.75%
Cr 267.716†	16575.8	0.1582 mg/L	0.00090		0.1582 mg/L	0.00090	0.57%
Fe 273.955†	3745375.5	245.7 mg/L	0.30		245.7 mg/L	0.30	0.12%
Mg 279.077†	316146.1	23.98 mg/L	0.173		23.98 mg/L	0.173	0.72%
V 292.402†	101146.7	0.3158 mg/L	0.00358		0.3158 mg/L	0.00358	1.14%
Al 308.215†	2800667.7	86.69 mg/L	0.509		86.69 mg/L	0.509	0.59%
Be 313.107†	-22744.7	-0.0058 mg/L	0.00021		-0.0058 mg/L	0.00021	3.55%
Cu 324.752†	110927.5	0.3375 mg/L	0.00213		0.3375 mg/L	0.00213	0.63%
Ag 338.289†	-5138.2	-0.0296 mg/L	0.00110		-0.0296 mg/L	0.00110	3.72%
Na 330.237†	-4018.6	-1.833 mg/L	0.0295		-1.833 mg/L	0.0295	1.61%

Ca 227.546†	18657.0	34.07 mg/L	0.310	34.07 mg/L	0.310	0.91%
Al RADIAL†	153822.7	86.04 mg/L	0.118	86.04 mg/L	0.118	0.14%
Fe RADIAL†	16771.5	262.1 mg/L	1.29	262.1 mg/L	1.29	0.49%
Ca RADIAL†	46016.2	34.50 mg/L	0.066	34.50 mg/L	0.066	0.19%
K RADIAL†	13601.5	10.48 mg/L	0.061	10.48 mg/L	0.061	0.58%
Mg RADIAL†	2142.7	23.42 mg/L	0.116	23.42 mg/L	0.116	0.49%
Na RADIAL†	11430.3	0.8650 mg/L	0.00494	0.8650 mg/L	0.00494	0.57%

Sequence No.: 108

Sample ID: 14C0978-10

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 91

Date Collected: 4/2/2014 2:36:29 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0978-10

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16959659.7	5.124 mg/L	0.0244			0.48%
Y RADIAL	198745.0	5.372 mg/L	0.0368			0.68%
As 188.979†	35.2	0.0450 mg/L	0.00120	0.0450 mg/L	0.00120	2.67%
Tl 190.801†	-182.7	-0.0310 mg/L	0.00071	-0.0310 mg/L	0.00071	2.28%
Se 196.026†	-212.0	-0.0192 mg/L	0.00705	-0.0192 mg/L	0.00705	36.74%
Zn 206.200†	37985.1	0.7604 mg/L	0.00404	0.7604 mg/L	0.00404	0.53%
Sb 206.836†	-12.0	-0.0045 mg/L	0.00272	-0.0045 mg/L	0.00272	60.73%
Pb 220.353†	5475.5	0.7065 mg/L	0.00353	0.7065 mg/L	0.00353	0.50%
Cd 226.502†	5621.6	0.0064 mg/L	0.00058	0.0064 mg/L	0.00058	9.11%
Co 228.616†	2201.4	0.0782 mg/L	0.00051	0.0782 mg/L	0.00051	0.65%
Ni 232.003†	3019.3	0.1921 mg/L	0.00291	0.1921 mg/L	0.00291	1.51%
Ba 233.527†	70412.5	0.6321 mg/L	0.00424	0.6321 mg/L	0.00424	0.67%
Mn 257.610†	2204196.6	3.674 mg/L	0.0149	3.674 mg/L	0.0149	0.41%
Cr 267.716†	21989.9	0.2098 mg/L	0.00173	0.2098 mg/L	0.00173	0.82%
Fe 273.955†	3230383.0	212.0 mg/L	0.84	212.0 mg/L	0.84	0.40%
Mg 279.077†	284357.1	21.57 mg/L	0.176	21.57 mg/L	0.176	0.82%
V 292.402†	100610.2	0.3167 mg/L	0.00330	0.3167 mg/L	0.00330	1.04%
Al 308.215†	3464670.3	107.2 mg/L	0.49	107.2 mg/L	0.49	0.45%
Be 313.107†	-18484.1	-0.0047 mg/L	0.00018	-0.0047 mg/L	0.00018	3.87%
Cu 324.752†	68375.2	0.2104 mg/L	0.00233	0.2104 mg/L	0.00233	1.11%
Ag 338.289†	-4673.9	-0.0268 mg/L	0.00079	-0.0268 mg/L	0.00079	2.95%
Na 330.237†	-3121.9	-1.340 mg/L	0.0362	-1.340 mg/L	0.0362	2.70%
Ca 227.546†	7521.2	14.31 mg/L	0.094	14.31 mg/L	0.094	0.65%
Al RADIAL†	188275.8	105.3 mg/L	0.14	105.3 mg/L	0.14	0.13%
Fe RADIAL†	14300.9	223.5 mg/L	2.62	223.5 mg/L	2.62	1.17%
Ca RADIAL†	20329.4	15.24 mg/L	0.192	15.24 mg/L	0.192	1.26%
K RADIAL†	11306.5	8.712 mg/L	0.0975	8.712 mg/L	0.0975	1.12%
Mg RADIAL†	1934.2	21.14 mg/L	0.236	21.14 mg/L	0.236	1.12%
Na RADIAL†	9223.2	0.6979 mg/L	0.00491	0.6979 mg/L	0.00491	0.70%

Sequence No.: 109

Sample ID: 14C0991-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 92

Date Collected: 4/2/2014 2:41:27 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0991-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	17574825.0	5.310 mg/L	0.0422			0.79%
Y RADIAL	202157.5	5.464 mg/L	0.0660			1.21%
As 188.979†	-4.6	-0.0018 mg/L	0.00211	-0.0018 mg/L	0.00211	119.05%
Tl 190.801†	9.2	0.0025 mg/L	0.00127	0.0025 mg/L	0.00127	50.74%
Se 196.026†	0.8	0.0008 mg/L	0.00199	0.0008 mg/L	0.00199	249.97%
Zn 206.200†	24801.5	0.5045 mg/L	0.00232	0.5045 mg/L	0.00232	0.46%
Sb 206.836†	-6.7	-0.0016 mg/L	0.00027	-0.0016 mg/L	0.00027	16.97%
Pb 220.353†	71.3	0.0094 mg/L	0.00080	0.0094 mg/L	0.00080	8.52%
Cd 226.502†	45.2	0.0003 mg/L	0.00011	0.0003 mg/L	0.00011	33.89%
Co 228.616†	-4.9	-0.0002 mg/L	0.00018	-0.0002 mg/L	0.00018	103.02%
Ni 232.003†	106.6	0.0056 mg/L	0.00041	0.0056 mg/L	0.00041	7.37%
Ba 233.527†	199.5	0.0018 mg/L	0.00004	0.0018 mg/L	0.00004	2.43%

Mn 257.610†	1611.2	0.0027 mg/L	0.00004	0.0027 mg/L	0.00004	1.39%
Cr 267.716†	122.7	0.0012 mg/L	0.00011	0.0012 mg/L	0.00011	9.50%
Fe 273.955†	3771.5	0.2475 mg/L	0.00349	0.2475 mg/L	0.00349	1.41%
Mg 279.077†	1071.0	0.0812 mg/L	0.00024	0.0812 mg/L	0.00024	0.30%
V 292.402†	-372.5	-0.0013 mg/L	0.00001	-0.0013 mg/L	0.00001	0.89%
Al 308.215†	484.9	0.0150 mg/L	0.00286	0.0150 mg/L	0.00286	19.05%
Be 313.107†	-116.9	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	63.97%
Cu 324.752†	5769.3	0.0170 mg/L	0.00035	0.0170 mg/L	0.00035	2.06%
Ag 338.289†	-9.4	-0.0001 mg/L	0.00017	-0.0001 mg/L	0.00017	270.38%
Na 330.237†	2058.5	1.588 mg/L	0.0440	1.588 mg/L	0.0440	2.77%
Ca 227.546†	575.9	1.016 mg/L	0.0069	1.016 mg/L	0.0069	0.68%
Al RADIAL†	34.8	0.0195 mg/L	0.00542	0.0195 mg/L	0.00542	27.83%
Fe RADIAL†	16.2	0.2534 mg/L	0.02257	0.2534 mg/L	0.02257	8.91%
Ca RADIAL†	1377.3	1.033 mg/L	0.0188	1.033 mg/L	0.0188	1.82%
K RADIAL†	154.6	0.1191 mg/L	0.00533	0.1191 mg/L	0.00533	4.48%
Mg RADIAL†	6.4	0.0702 mg/L	0.02372	0.0702 mg/L	0.02372	33.78%
Na RADIAL†	20795.6	1.574 mg/L	0.0072	1.574 mg/L	0.0072	0.45%

Sequence No.: 110

Sample ID: BD40041-DUP1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 93

Date Collected: 4/2/2014 2:46:19 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40041-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	17619071.0	5.323 mg/L	0.0214			0.40%
Y RADIAL	197211.0	5.330 mg/L	0.0236			0.44%
As 188.979†	-1.8	-0.0007 mg/L	0.00150	-0.0007 mg/L	0.00150	221.01%
Tl 190.801†	9.4	0.0025 mg/L	0.00091	0.0025 mg/L	0.00091	35.87%
Se 196.026†	4.8	0.0040 mg/L	0.00451	0.0040 mg/L	0.00451	112.83%
Zn 206.200†	24540.2	0.4991 mg/L	0.00513	0.4991 mg/L	0.00513	1.03%
Sb 206.836†	-2.4	-0.0006 mg/L	0.00131	-0.0006 mg/L	0.00131	228.52%
Pb 220.353†	67.2	0.0089 mg/L	0.00029	0.0089 mg/L	0.00029	3.26%
Cd 226.502†	45.3	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	22.21%
Co 228.616†	-3.2	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008	70.67%
Ni 232.003†	106.1	0.0056 mg/L	0.00024	0.0056 mg/L	0.00024	4.38%
Ba 233.527†	191.5	0.0017 mg/L	0.00004	0.0017 mg/L	0.00004	2.16%
Mn 257.610†	1532.3	0.0026 mg/L	0.00003	0.0026 mg/L	0.00003	1.12%
Cr 267.716†	112.7	0.0011 mg/L	0.00002	0.0011 mg/L	0.00002	1.74%
Fe 273.955†	3610.0	0.2369 mg/L	0.00090	0.2369 mg/L	0.00090	0.38%
Mg 279.077†	1062.5	0.0805 mg/L	0.00060	0.0805 mg/L	0.00060	0.75%
V 292.402†	-357.9	-0.0012 mg/L	0.00011	-0.0012 mg/L	0.00011	9.28%
Al 308.215†	268.7	0.0083 mg/L	0.00210	0.0083 mg/L	0.00210	25.24%
Be 313.107†	-57.1	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	68.40%
Cu 324.752†	5266.9	0.0155 mg/L	0.00026	0.0155 mg/L	0.00026	1.66%
Ag 338.289†	67.8	0.0004 mg/L	0.00027	0.0004 mg/L	0.00027	71.01%
Na 330.237†	2054.8	1.585 mg/L	0.0699	1.585 mg/L	0.0699	4.41%
Ca 227.546†	568.2	1.002 mg/L	0.0129	1.002 mg/L	0.0129	1.29%
Al RADIAL†	23.1	0.0129 mg/L	0.00349	0.0129 mg/L	0.00349	26.99%
Fe RADIAL†	15.1	0.2353 mg/L	0.03889	0.2353 mg/L	0.03889	16.53%
Ca RADIAL†	1386.9	1.040 mg/L	0.0074	1.040 mg/L	0.0074	0.71%
K RADIAL†	144.0	0.1110 mg/L	0.01037	0.1110 mg/L	0.01037	9.35%
Mg RADIAL†	8.4	0.0915 mg/L	0.02428	0.0915 mg/L	0.02428	26.54%
Na RADIAL†	20650.6	1.563 mg/L	0.0036	1.563 mg/L	0.0036	0.23%

Sequence No.: 111

Sample ID: BD40041-MS1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 94

Date Collected: 4/2/2014 2:51:10 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40041-MS1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	17485082.1	5.282 mg/L	0.0360			0.68%
Y RADIAL	199534.4	5.393 mg/L	0.0490			0.91%

As 188.979†	5059.9	1.987 mg/L	0.0128	1.987 mg/L	0.0128	0.64%
Tl 190.801†	8122.9	2.181 mg/L	0.0160	2.181 mg/L	0.0160	0.73%
Se 196.026†	2431.9	1.930 mg/L	0.0171	1.930 mg/L	0.0171	0.88%
Zn 206.200†	50047.6	1.018 mg/L	0.0077	1.018 mg/L	0.0077	0.75%
Sb 206.836†	1053.7	0.2519 mg/L	0.00236	0.2519 mg/L	0.00236	0.94%
Pb 220.353†	4020.7	0.5316 mg/L	0.00495	0.5316 mg/L	0.00495	0.93%
Cd 226.502†	6427.0	0.0527 mg/L	0.00030	0.0527 mg/L	0.00030	0.58%
Co 228.616†	14881.9	0.5287 mg/L	0.00400	0.5287 mg/L	0.00400	0.76%
Ni 232.003†	10234.8	0.5341 mg/L	0.00344	0.5341 mg/L	0.00344	0.65%
Ba 233.527†	237084.0	2.128 mg/L	0.0215	2.128 mg/L	0.0215	1.01%
Mn 257.610†	320495.0	0.5327 mg/L	0.00464	0.5327 mg/L	0.00464	0.87%
Cr 267.716†	22304.7	0.2128 mg/L	0.00148	0.2128 mg/L	0.00148	0.69%
Fe 273.955†	19593.2	1.286 mg/L	0.0077	1.286 mg/L	0.0077	0.60%
Mg 279.077†	988.4	0.0750 mg/L	0.00078	0.0750 mg/L	0.00078	1.05%
V 292.402†	152152.6	0.5048 mg/L	0.00454	0.5048 mg/L	0.00454	0.90%
Al 308.215†	60826.0	1.882 mg/L	0.0287	1.882 mg/L	0.0287	1.53%
Be 313.107†	200200.7	0.0514 mg/L	0.00031	0.0514 mg/L	0.00031	0.59%
Cu 324.752†	99709.2	0.2944 mg/L	0.00416	0.2944 mg/L	0.00416	1.41%
Ag 338.289†	8543.8	0.0487 mg/L	0.00036	0.0487 mg/L	0.00036	0.74%
Na 330.237†	2699.1	2.086 mg/L	0.0143	2.086 mg/L	0.0143	0.69%
Ca 227.546†	586.4	1.040 mg/L	0.0161	1.040 mg/L	0.0161	1.55%
Al RADIAL†	3480.2	1.947 mg/L	0.0095	1.947 mg/L	0.0095	0.49%
Fe RADIAL†	78.3	1.223 mg/L	0.0248	1.223 mg/L	0.0248	2.03%
Ca RADIAL†	1379.0	1.034 mg/L	0.0152	1.034 mg/L	0.0152	1.47%
K RADIAL†	149.1	0.1149 mg/L	0.00580	0.1149 mg/L	0.00580	5.04%
Mg RADIAL†	7.2	0.0783 mg/L	0.01658	0.0783 mg/L	0.01658	21.18%
Na RADIAL†	20741.5	1.570 mg/L	0.0129	1.570 mg/L	0.0129	0.82%

Sequence No.: 112

Sample ID: 14C0994-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 95

Date Collected: 4/2/2014 2:59:03 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C0994-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	17759742.8	5.365 mg/L	0.0245			0.46%
Y RADIAL	202588.9	5.475 mg/L	0.0160			0.29%
As 188.979†	-1.3	-0.0005 mg/L	0.00028	-0.0005 mg/L	0.00028	58.09%
Tl 190.801†	8.5	0.0023 mg/L	0.00055	0.0023 mg/L	0.00055	23.94%
Se 196.026†	8.5	0.0069 mg/L	0.00071	0.0069 mg/L	0.00071	10.34%
Zn 206.200†	21819.8	0.4438 mg/L	0.00557	0.4438 mg/L	0.00557	1.25%
Sb 206.836†	-1.8	-0.0004 mg/L	0.00074	-0.0004 mg/L	0.00074	171.81%
Pb 220.353†	104.8	0.0138 mg/L	0.00012	0.0138 mg/L	0.00012	0.87%
Cd 226.502†	38.3	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	19.89%
Co 228.616†	-0.9	0.0000 mg/L	0.00028	0.0000 mg/L	0.00028	850.86%
Ni 232.003†	104.6	0.0055 mg/L	0.00044	0.0055 mg/L	0.00044	7.93%
Ba 233.527†	166.1	0.0015 mg/L	0.00008	0.0015 mg/L	0.00008	5.12%
Mn 257.610†	1724.0	0.0029 mg/L	0.00002	0.0029 mg/L	0.00002	0.56%
Cr 267.716†	129.7	0.0012 mg/L	0.00006	0.0012 mg/L	0.00006	5.20%
Fe 273.955†	3393.7	0.2227 mg/L	0.00187	0.2227 mg/L	0.00187	0.84%
Mg 279.077†	1168.4	0.0886 mg/L	0.00056	0.0886 mg/L	0.00056	0.64%
V 292.402†	-319.5	-0.0011 mg/L	0.00008	-0.0011 mg/L	0.00008	7.80%
Al 308.215†	130.3	0.0040 mg/L	0.00426	0.0040 mg/L	0.00426	105.57%
Be 313.107†	71.7	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	87.52%
Cu 324.752†	4156.0	0.0123 mg/L	0.00069	0.0123 mg/L	0.00069	5.62%
Ag 338.289†	2.9	0.0000 mg/L	0.00017	0.0000 mg/L	0.00017	>999.9%
Na 330.237†	2334.4	1.800 mg/L	0.0447	1.800 mg/L	0.0447	2.48%
Ca 227.546†	511.2	0.9017 mg/L	0.02443	0.9017 mg/L	0.02443	2.71%
Al RADIAL†	16.7	0.0093 mg/L	0.00211	0.0093 mg/L	0.00211	22.61%
Fe RADIAL†	13.1	0.2047 mg/L	0.01946	0.2047 mg/L	0.01946	9.51%
Ca RADIAL†	1257.8	0.9431 mg/L	0.01249	0.9431 mg/L	0.01249	1.32%
K RADIAL†	101.9	0.0785 mg/L	0.00474	0.0785 mg/L	0.00474	6.03%
Mg RADIAL†	6.8	0.0744 mg/L	0.01600	0.0744 mg/L	0.01600	21.50%
Na RADIAL†	26296.4	1.990 mg/L	0.0080	1.990 mg/L	0.0080	0.40%

Sequence No.: 113

Sample ID: 14C1000-07

Autosampler Location: 96

Date Collected: 4/2/2014 3:03:55 AM

Analyst: MW
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 14C1000-07

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16303456.6	4.925 mg/L	0.0660			1.34%
Y RADIAL	188738.5	5.101 mg/L	0.0374			0.73%
As 188.979†	74.2	0.0585 mg/L	0.00788	0.0585 mg/L	0.00788	13.47%
Tl 190.801†	-369.6	-0.0819 mg/L	0.00530	-0.0819 mg/L	0.00530	6.48%
Se 196.026†	-195.4	-0.0145 mg/L	0.01384	-0.0145 mg/L	0.01384	95.39%
Zn 206.200†	101443.9	2.051 mg/L	0.0260	2.051 mg/L	0.0260	1.27%
Sb 206.836†	-11.1	-0.0046 mg/L	0.00134	-0.0046 mg/L	0.00134	28.89%
Pb 220.353†	11788.4	1.545 mg/L	0.0260	1.545 mg/L	0.0260	1.68%
Cd 226.502†	5869.5	0.0107 mg/L	0.00068	0.0107 mg/L	0.00068	6.34%
Co 228.616†	3479.7	0.1236 mg/L	0.00202	0.1236 mg/L	0.00202	1.64%
Ni 232.003†	4583.7	0.2718 mg/L	0.00560	0.2718 mg/L	0.00560	2.06%
Ba 233.527†	156460.1	1.405 mg/L	0.0217	1.405 mg/L	0.0217	1.55%
Mn 257.610†	2298030.0	3.828 mg/L	0.0341	3.828 mg/L	0.0341	0.89%
Cr 267.716†	41045.7	0.3917 mg/L	0.00694	0.3917 mg/L	0.00694	1.77%
Fe 273.955†	3046721.6	199.9 mg/L	1.74	199.9 mg/L	1.74	0.87%
Mg 279.077†	834930.4	63.31 mg/L	0.607	63.31 mg/L	0.607	0.96%
V 292.402†	149216.0	0.4790 mg/L	0.00766	0.4790 mg/L	0.00766	1.60%
Al 308.215†	4283286.4	132.6 mg/L	0.08	132.6 mg/L	0.08	0.06%
Be 313.107†	-101302.1	-0.0260 mg/L	0.00067	-0.0260 mg/L	0.00067	2.58%
Cu 324.752†	119772.6	0.3605 mg/L	0.00702	0.3605 mg/L	0.00702	1.95%
Ag 338.289†	-12424.7	-0.0710 mg/L	0.00260	-0.0710 mg/L	0.00260	3.66%
Na 330.237†	-7531.8	-4.769 mg/L	0.0798	-4.769 mg/L	0.0798	1.67%
Ca 227.546†	13745.4	25.23 mg/L	0.187	25.23 mg/L	0.187	0.74%
Al RADIAL†	235057.9	131.5 mg/L	0.39	131.5 mg/L	0.39	0.30%
Fe RADIAL†	13280.0	207.5 mg/L	2.30	207.5 mg/L	2.30	1.11%
Ca RADIAL†	34474.0	25.85 mg/L	0.241	25.85 mg/L	0.241	0.93%
K RADIAL†	48621.0	37.46 mg/L	0.456	37.46 mg/L	0.456	1.22%
Mg RADIAL†	5795.2	63.34 mg/L	0.594	63.34 mg/L	0.594	0.94%
Na RADIAL†	17949.6	1.358 mg/L	0.0027	1.358 mg/L	0.0027	0.20%

Sequence No.: 114
Sample ID: 14C1000-08
Analyst: MW
Initial Sample Wt:
Dilution:

Autosampler Location: 97
Date Collected: 4/2/2014 3:08:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 14C1000-08

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16436804.3	4.966 mg/L	0.0262			0.53%
Y RADIAL	194012.2	5.244 mg/L	0.0385			0.73%
As 188.979†	29.8	0.0399 mg/L	0.00475	0.0399 mg/L	0.00475	11.91%
Tl 190.801†	-267.0	-0.0550 mg/L	0.00551	-0.0550 mg/L	0.00551	10.02%
Se 196.026†	-193.6	-0.0192 mg/L	0.00583	-0.0192 mg/L	0.00583	30.44%
Zn 206.200†	35680.1	0.7140 mg/L	0.00678	0.7140 mg/L	0.00678	0.95%
Sb 206.836†	-8.0	-0.0039 mg/L	0.00150	-0.0039 mg/L	0.00150	38.71%
Pb 220.353†	2017.4	0.2543 mg/L	0.00170	0.2543 mg/L	0.00170	0.67%
Cd 226.502†	5215.9	0.0069 mg/L	0.00049	0.0069 mg/L	0.00049	7.15%
Co 228.616†	2860.6	0.1016 mg/L	0.00113	0.1016 mg/L	0.00113	1.11%
Ni 232.003†	4563.5	0.2693 mg/L	0.00050	0.2693 mg/L	0.00050	0.19%
Ba 233.527†	137025.7	1.230 mg/L	0.0098	1.230 mg/L	0.0098	0.80%
Mn 257.610†	2363758.3	3.937 mg/L	0.0398	3.937 mg/L	0.0398	1.01%
Cr 267.716†	34782.0	0.3319 mg/L	0.00291	0.3319 mg/L	0.00291	0.88%
Fe 273.955†	2915653.4	191.3 mg/L	2.04	191.3 mg/L	2.04	1.07%
Mg 279.077†	798642.3	60.56 mg/L	0.640	60.56 mg/L	0.640	1.06%
V 292.402†	121322.3	0.3871 mg/L	0.00361	0.3871 mg/L	0.00361	0.93%
Al 308.215†	4228765.9	130.9 mg/L	0.32	130.9 mg/L	0.32	0.24%
Be 313.107†	-61238.0	-0.0157 mg/L	0.00058	-0.0157 mg/L	0.00058	3.71%
Cu 324.752†	79434.9	0.2412 mg/L	0.00188	0.2412 mg/L	0.00188	0.78%
Ag 338.289†	-8720.7	-0.0498 mg/L	0.00152	-0.0498 mg/L	0.00152	3.04%
Na 330.237†	-6452.2	-3.997 mg/L	0.0221	-3.997 mg/L	0.0221	0.55%
Ca 227.546†	8307.7	15.61 mg/L	0.030	15.61 mg/L	0.030	0.19%

Al RADIAL†	231780.4	129.6 mg/L	0.07	129.6 mg/L	0.07	0.05%
Fe RADIAL†	12629.6	197.4 mg/L	2.37	197.4 mg/L	2.37	1.20%
Ca RADIAL†	21196.8	15.89 mg/L	0.203	15.89 mg/L	0.203	1.28%
K RADIAL†	36098.3	27.82 mg/L	0.542	27.82 mg/L	0.542	1.95%
Mg RADIAL†	5518.6	60.32 mg/L	0.542	60.32 mg/L	0.542	0.90%
Na RADIAL†	8004.4	0.6057 mg/L	0.00717	0.6057 mg/L	0.00717	1.18%

Sequence No.: 115

Sample ID: 14C1037-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 98

Date Collected: 4/2/2014 3:13:06 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1037-01

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16896574.3	5.105 mg/L	0.0141			0.28%
Y RADIAL	194043.6	5.244 mg/L	0.0790			1.51%
As 188.979†	9.2	0.0114 mg/L	0.00121	0.0114 mg/L	0.00121	10.60%
Tl 190.801†	-72.6	-0.0150 mg/L	0.00245	-0.0150 mg/L	0.00245	16.32%
Se 196.026†	-46.5	0.0002 mg/L	0.00146	0.0002 mg/L	0.00146	668.44%
Zn 206.200†	6649.1	0.1322 mg/L	0.00022	0.1322 mg/L	0.00022	0.16%
Sb 206.836†	0.5	-0.0003 mg/L	0.00265	-0.0003 mg/L	0.00265	944.52%
Pb 220.353†	157.5	0.0165 mg/L	0.00074	0.0165 mg/L	0.00074	4.48%
Cd 226.502†	1403.3	0.0016 mg/L	0.00031	0.0016 mg/L	0.00031	19.16%
Co 228.616†	913.1	0.0324 mg/L	0.00008	0.0324 mg/L	0.00008	0.26%
Ni 232.003†	1355.6	0.0793 mg/L	0.00061	0.0793 mg/L	0.00061	0.77%
Ba 233.527†	12332.5	0.1107 mg/L	0.00112	0.1107 mg/L	0.00112	1.01%
Mn 257.610†	453989.9	0.7571 mg/L	0.00727	0.7571 mg/L	0.00727	0.96%
Cr 267.716†	27062.2	0.2582 mg/L	0.00326	0.2582 mg/L	0.00326	1.26%
Fe 273.955†	804602.8	52.79 mg/L	0.449	52.79 mg/L	0.449	0.85%
Mg 279.077†	103376.7	7.841 mg/L	0.0929	7.841 mg/L	0.0929	1.19%
V 292.402†	24131.2	0.0758 mg/L	0.00110	0.0758 mg/L	0.00110	1.45%
Al 308.215†	857184.4	26.53 mg/L	0.430	26.53 mg/L	0.430	1.62%
Be 313.107†	-12736.0	-0.0033 mg/L	0.00016	-0.0033 mg/L	0.00016	4.74%
Cu 324.752†	130313.7	0.3868 mg/L	0.00468	0.3868 mg/L	0.00468	1.21%
Ag 338.289†	-2168.9	-0.0124 mg/L	0.00069	-0.0124 mg/L	0.00069	5.54%
Na 330.237†	-1615.5	-0.9783 mg/L	0.06072	-0.9783 mg/L	0.06072	6.21%
Ca 227.546†	1909.0	3.626 mg/L	0.0209	3.626 mg/L	0.0209	0.58%
Al RADIAL†	48573.6	27.17 mg/L	0.078	27.17 mg/L	0.078	0.29%
Fe RADIAL†	3350.8	52.36 mg/L	0.949	52.36 mg/L	0.949	1.81%
Ca RADIAL†	5206.2	3.904 mg/L	0.0714	3.904 mg/L	0.0714	1.83%
K RADIAL†	5200.9	4.007 mg/L	0.0569	4.007 mg/L	0.0569	1.42%
Mg RADIAL†	682.4	7.459 mg/L	0.1021	7.459 mg/L	0.1021	1.37%
Na RADIAL†	2959.9	0.2240 mg/L	0.00399	0.2240 mg/L	0.00399	1.78%

Sequence No.: 116

Sample ID: SEQ-CCVA

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/2/2014 3:18:04 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCVA

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16589461.9	5.012 mg/L	0.0165			0.33%
Y RADIAL	189935.8	5.133 mg/L	0.0048			0.09%
As 188.979†	636.0	0.2505 mg/L	0.00467	0.2505 mg/L	0.00467	1.86%
Tl 190.801†	985.2	0.2651 mg/L	0.00192	0.2651 mg/L	0.00192	0.72%
Se 196.026†	322.1	0.2592 mg/L	0.00223	0.2592 mg/L	0.00223	0.86%
Zn 206.200†	125880.9	2.560 mg/L	0.0058	2.560 mg/L	0.0058	0.23%
Sb 206.836†	1083.0	0.2589 mg/L	0.00143	0.2589 mg/L	0.00143	0.55%
Pb 220.353†	1909.1	0.2529 mg/L	0.00022	0.2529 mg/L	0.00022	0.09%
Cd 226.502†	15495.1	0.1267 mg/L	0.00102	0.1267 mg/L	0.00102	0.81%
Co 228.616†	71805.7	2.551 mg/L	0.0120	2.551 mg/L	0.0120	0.47%
Ni 232.003†	48795.2	2.546 mg/L	0.0120	2.546 mg/L	0.0120	0.47%
Ba 233.527†	1146439.9	10.29 mg/L	0.056	10.29 mg/L	0.056	0.55%
Mn 257.610†	1532690.4	2.547 mg/L	0.0110	2.547 mg/L	0.0110	0.43%

Cr 267.716†	109600.3	1.046 mg/L	0.0049	1.046 mg/L	0.0049	0.47%
Fe 273.955†	78652.8	5.161 mg/L	0.0366	5.161 mg/L	0.0366	0.71%
Mg 279.077†	333102.6	25.26 mg/L	0.087	25.26 mg/L	0.087	0.34%
V 292.402†	758880.0	2.518 mg/L	0.0051	2.518 mg/L	0.0051	0.20%
Al 308.215†	312040.3	9.656 mg/L	0.0379	9.656 mg/L	0.0379	0.39%
Be 313.107†	969975.9	0.2491 mg/L	0.00145	0.2491 mg/L	0.00145	0.58%
Cu 324.752†	417717.2	1.233 mg/L	0.0051	1.233 mg/L	0.0051	0.42%
Ag 338.289†	217038.3	1.236 mg/L	0.0017	1.236 mg/L	0.0017	0.14%
Na 330.237†	30434.9	23.50 mg/L	0.228	23.50 mg/L	0.228	0.97%
Ca 227.546†	13673.8	24.12 mg/L	0.106	24.12 mg/L	0.106	0.44%
Al RADIAL†	17774.3	9.942 mg/L	0.0267	9.942 mg/L	0.0267	0.27%
Fe RADIAL†	319.9	5.000 mg/L	0.0387	5.000 mg/L	0.0387	0.77%
Ca RADIAL†	33279.3	24.95 mg/L	0.058	24.95 mg/L	0.058	0.23%
K RADIAL†	6268.1	4.830 mg/L	0.0138	4.830 mg/L	0.0138	0.29%
Mg RADIAL†	2306.4	25.21 mg/L	0.122	25.21 mg/L	0.122	0.48%
Na RADIAL†	325495.0	24.63 mg/L	0.218	24.63 mg/L	0.218	0.88%

Sequence No.: 117

Sample ID: SEQ-CCBA

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 4/2/2014 3:26:07 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCBA

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	17151385.3	5.182 mg/L	0.0687			1.33%
Y RADIAL	191154.9	5.166 mg/L	0.0623			1.21%
As 188.979†	-7.3	-0.0029 mg/L	0.00096	-0.0029 mg/L	0.00096	33.57%
Tl 190.801†	11.4	0.0031 mg/L	0.00091	0.0031 mg/L	0.00091	29.63%
Se 196.026†	3.5	0.0028 mg/L	0.00094	0.0028 mg/L	0.00094	33.77%
Zn 206.200†	-22.7	-0.0005 mg/L	0.00002	-0.0005 mg/L	0.00002	3.45%
Sb 206.836†	-3.8	-0.0009 mg/L	0.00223	-0.0009 mg/L	0.00223	245.21%
Pb 220.353†	2.7	0.0004 mg/L	0.00057	0.0004 mg/L	0.00057	159.58%
Cd 226.502†	17.7	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	5.21%
Co 228.616†	6.1	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	20.10%
Ni 232.003†	36.6	0.0019 mg/L	0.00011	0.0019 mg/L	0.00011	5.81%
Ba 233.527†	3.6	0.0000 mg/L	0.00009	0.0000 mg/L	0.00009	273.92%
Mn 257.610†	-15.8	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	6.64%
Cr 267.716†	-12.7	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008	65.92%
Fe 273.955†	16.4	0.0011 mg/L	0.00018	0.0011 mg/L	0.00018	16.85%
Mg 279.077†	-18.3	-0.0014 mg/L	0.00092	-0.0014 mg/L	0.00092	66.41%
V 292.402†	24.0	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	31.64%
Al 308.215†	-273.8	-0.0085 mg/L	0.00276	-0.0085 mg/L	0.00276	32.57%
Be 313.107†	135.5	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	61.17%
Cu 324.752†	-1098.7	-0.0032 mg/L	0.00007	-0.0032 mg/L	0.00007	2.24%
Ag 338.289†	125.3	0.0007 mg/L	0.00024	0.0007 mg/L	0.00024	33.54%
Na 330.237†	-195.8	-0.1508 mg/L	0.02927	-0.1508 mg/L	0.02927	19.42%
Ca 227.546†	-4.7	-0.0083 mg/L	0.01054	-0.0083 mg/L	0.01054	127.33%
Al RADIAL†	-6.2	-0.0035 mg/L	0.00693	-0.0035 mg/L	0.00693	199.60%
Fe RADIAL†	-1.1	-0.0173 mg/L	0.01546	-0.0173 mg/L	0.01546	89.57%
Ca RADIAL†	6.7	0.0050 mg/L	0.00863	0.0050 mg/L	0.00863	171.17%
K RADIAL†	-7.4	-0.0057 mg/L	0.01305	-0.0057 mg/L	0.01305	230.26%
Mg RADIAL†	0.5	0.0055 mg/L	0.00441	0.0055 mg/L	0.00441	79.79%
Na RADIAL†	-3615.5	-0.2736 mg/L	0.00109	-0.2736 mg/L	0.00109	0.40%

Sequence No.: 118

Sample ID: 14D0046-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 99

Date Collected: 4/2/2014 3:30:56 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14D0046-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16634546.0	5.026 mg/L	0.0249			0.49%
Y RADIAL	190675.2	5.153 mg/L	0.0395			0.77%
As 188.979†	34.8	0.0280 mg/L	0.00357	0.0280 mg/L	0.00357	12.74%

Tl 190.801†	-62.6	-0.0086 mg/L	0.00263	-0.0086 mg/L	0.00263	30.78%
Se 196.026†	-86.8	-0.0002 mg/L	0.00446	-0.0002 mg/L	0.00446	>999.9%
Zn 206.200†	12645.3	0.2517 mg/L	0.00202	0.2517 mg/L	0.00202	0.80%
Sb 206.836†	7.4	0.0011 mg/L	0.00037	0.0011 mg/L	0.00037	33.38%
Pb 220.353†	315.2	0.0331 mg/L	0.00086	0.0331 mg/L	0.00086	2.60%
Cd 226.502†	2495.5	0.0022 mg/L	0.00023	0.0022 mg/L	0.00023	10.56%
Co 228.616†	1218.7	0.0433 mg/L	0.00050	0.0433 mg/L	0.00050	1.16%
Ni 232.003†	1707.6	0.1050 mg/L	0.00178	0.1050 mg/L	0.00178	1.70%
Ba 233.527†	18837.3	0.1691 mg/L	0.00125	0.1691 mg/L	0.00125	0.74%
Mn 257.610†	743617.4	1.241 mg/L	0.0058	1.241 mg/L	0.0058	0.47%
Cr 267.716†	6521.8	0.0622 mg/L	0.00058	0.0622 mg/L	0.00058	0.93%
Fe 273.955†	1487587.8	97.60 mg/L	0.553	97.60 mg/L	0.553	0.57%
Mg 279.077†	213396.7	16.18 mg/L	0.082	16.18 mg/L	0.082	0.51%
V 292.402†	30181.6	0.0923 mg/L	0.00078	0.0923 mg/L	0.00078	0.84%
Al 308.215†	1408496.9	43.59 mg/L	0.268	43.59 mg/L	0.268	0.61%
Be 313.107†	-1612.3	-0.0004 mg/L	0.00003	-0.0004 mg/L	0.00003	6.42%
Cu 324.752†	33492.6	0.1028 mg/L	0.00024	0.1028 mg/L	0.00024	0.24%
Ag 338.289†	-1212.0	-0.0069 mg/L	0.00069	-0.0069 mg/L	0.00069	9.87%
Na 330.237†	-561.8	0.0547 mg/L	0.05231	0.0547 mg/L	0.05231	95.67%
Ca 227.546†	2424.1	4.754 mg/L	0.0249	4.754 mg/L	0.0249	0.52%
Al RADIAL†	79711.8	44.59 mg/L	0.103	44.59 mg/L	0.103	0.23%
Fe RADIAL†	6311.1	98.62 mg/L	0.703	98.62 mg/L	0.703	0.71%
Ca RADIAL†	6802.9	5.101 mg/L	0.0334	5.101 mg/L	0.0334	0.66%
K RADIAL†	5533.7	4.264 mg/L	0.0143	4.264 mg/L	0.0143	0.33%
Mg RADIAL†	1488.9	16.27 mg/L	0.105	16.27 mg/L	0.105	0.64%
Na RADIAL†	8680.5	0.6569 mg/L	0.00684	0.6569 mg/L	0.00684	1.04%

Sequence No.: 119

Sample ID: SEQ-SRD4

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 100

Date Collected: 4/2/2014 3:35:55 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-SRD4

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	17393910.4	5.255 mg/L		0.0197			0.38%
Y RADIAL	197432.5	5.336 mg/L		0.0049			0.09%
As 188.979†	2.1	0.0037 mg/L		0.00197	0.0037 mg/L	0.00197	52.71%
Tl 190.801†	-8.6	-0.0006 mg/L		0.00075	-0.0006 mg/L	0.00075	119.70%
Se 196.026†	-17.5	0.0001 mg/L		0.00154	0.0001 mg/L	0.00154	>999.9%
Zn 206.200†	2488.5	0.0495 mg/L		0.00042	0.0495 mg/L	0.00042	0.86%
Sb 206.836†	-5.0	-0.0013 mg/L		0.00008	-0.0013 mg/L	0.00008	6.07%
Pb 220.353†	62.2	0.0064 mg/L		0.00130	0.0064 mg/L	0.00130	20.19%
Cd 226.502†	519.5	0.0005 mg/L		0.00005	0.0005 mg/L	0.00005	9.23%
Co 228.616†	243.5	0.0087 mg/L		0.00015	0.0087 mg/L	0.00015	1.77%
Ni 232.003†	382.5	0.0232 mg/L		0.00039	0.0232 mg/L	0.00039	1.68%
Ba 233.527†	3818.0	0.0343 mg/L		0.00025	0.0343 mg/L	0.00025	0.73%
Mn 257.610†	149567.0	0.2496 mg/L		0.00095	0.2496 mg/L	0.00095	0.38%
Cr 267.716†	1336.6	0.0128 mg/L		0.00014	0.0128 mg/L	0.00014	1.06%
Fe 273.955†	303946.1	19.94 mg/L		0.104	19.94 mg/L	0.104	0.52%
Mg 279.077†	43193.4	3.276 mg/L		0.0217	3.276 mg/L	0.0217	0.66%
V 292.402†	5845.1	0.0178 mg/L		0.00015	0.0178 mg/L	0.00015	0.85%
Al 308.215†	269653.5	8.346 mg/L		0.0627	8.346 mg/L	0.0627	0.75%
Be 313.107†	-129.8	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	57.24%
Cu 324.752†	4920.3	0.0153 mg/L		0.00004	0.0153 mg/L	0.00004	0.29%
Ag 338.289†	-267.0	-0.0015 mg/L		0.00042	-0.0015 mg/L	0.00042	27.72%
Na 330.237†	-297.6	-0.1296 mg/L		0.00518	-0.1296 mg/L	0.00518	4.00%
Ca 227.546†	478.0	0.9406 mg/L		0.00388	0.9406 mg/L	0.00388	0.41%
Al RADIAL†	15611.6	8.733 mg/L		0.0237	8.733 mg/L	0.0237	0.27%
Fe RADIAL†	1244.4	19.45 mg/L		0.235	19.45 mg/L	0.235	1.21%
Ca RADIAL†	1363.2	1.022 mg/L		0.0053	1.022 mg/L	0.0053	0.52%
K RADIAL†	1129.5	0.8703 mg/L		0.00563	0.8703 mg/L	0.00563	0.65%
Mg RADIAL†	293.7	3.210 mg/L		0.0322	3.210 mg/L	0.0322	1.00%
Na RADIAL†	-1419.4	-0.1074 mg/L		0.00478	-0.1074 mg/L	0.00478	4.45%

Sequence No.: 120

Sample ID: BD40042-BLK1

Analyst: MW

Autosampler Location: 101

Date Collected: 4/2/2014 3:40:48 AM

Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: BD40042-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	16606933.1	5.017 mg/L		0.0349				0.69%
Y RADIAL	185379.2	5.010 mg/L		0.0059				0.12%
As 188.979†	-8.7	-0.0034 mg/L		0.00232	-0.0034 mg/L		0.00232	67.77%
Tl 190.801†	3.2	0.0008 mg/L		0.00038	0.0008 mg/L		0.00038	45.29%
Se 196.026†	5.3	0.0042 mg/L		0.00145	0.0042 mg/L		0.00145	34.18%
Zn 206.200†	-26.7	-0.0005 mg/L		0.00008	-0.0005 mg/L		0.00008	15.23%
Sb 206.836†	-4.5	-0.0011 mg/L		0.00161	-0.0011 mg/L		0.00161	149.31%
Pb 220.353†	-5.4	-0.0007 mg/L		0.00122	-0.0007 mg/L		0.00122	169.54%
Cd 226.502†	10.8	0.0001 mg/L		0.00011	0.0001 mg/L		0.00011	128.87%
Co 228.616†	9.9	0.0004 mg/L		0.00003	0.0004 mg/L		0.00003	8.08%
Ni 232.003†	23.4	0.0012 mg/L		0.00032	0.0012 mg/L		0.00032	26.40%
Ba 233.527†	-3.4	0.0000 mg/L		0.00009	0.0000 mg/L		0.00009	308.41%
Mn 257.610†	-12.4	0.0000 mg/L		0.00001	0.0000 mg/L		0.00001	66.60%
Cr 267.716†	-14.9	-0.0001 mg/L		0.00010	-0.0001 mg/L		0.00010	70.46%
Fe 273.955†	45.7	0.0030 mg/L		0.00030	0.0030 mg/L		0.00030	9.95%
Mg 279.077†	-19.1	-0.0014 mg/L		0.00036	-0.0014 mg/L		0.00036	24.66%
V 292.402†	-13.6	0.0000 mg/L		0.00011	0.0000 mg/L		0.00011	249.59%
Al 308.215†	-16.9	-0.0005 mg/L		0.00336	-0.0005 mg/L		0.00336	645.51%
Be 313.107†	-11.6	0.0000 mg/L		0.00003	0.0000 mg/L		0.00003	>999.9%
Cu 324.752†	-1628.5	-0.0048 mg/L		0.00011	-0.0048 mg/L		0.00011	2.38%
Ag 338.289†	-35.6	-0.0002 mg/L		0.00006	-0.0002 mg/L		0.00006	31.26%
Na 330.237†	-206.4	-0.1589 mg/L		0.01990	-0.1589 mg/L		0.01990	12.53%
Ca 227.546†	-20.5	-0.0361 mg/L		0.01023	-0.0361 mg/L		0.01023	28.30%
Al RADIAL†	4.9	0.0027 mg/L		0.00296	0.0027 mg/L		0.00296	108.59%
Fe RADIAL†	-2.1	-0.0327 mg/L		0.00651	-0.0327 mg/L		0.00651	19.90%
Ca RADIAL†	4.7	0.0036 mg/L		0.00484	0.0036 mg/L		0.00484	136.39%
K RADIAL†	-6.0	-0.0046 mg/L		0.00350	-0.0046 mg/L		0.00350	75.73%
Mg RADIAL†	-2.2	-0.0245 mg/L		0.02315	-0.0245 mg/L		0.02315	94.50%
Na RADIAL†	-3883.4	-0.2939 mg/L		0.00134	-0.2939 mg/L		0.00134	0.46%

Sequence No.: 121

Sample ID: BD40042-SRM1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 102

Date Collected: 4/2/2014 3:45:41 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40042-SRM1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	17223464.6	5.203 mg/L		0.0179				0.34%
Y RADIAL	193436.2	5.228 mg/L		0.0111				0.21%
As 188.979†	810.7	0.3186 mg/L		0.00176	0.3186 mg/L		0.00176	0.55%
Tl 190.801†	1361.1	0.3657 mg/L		0.00154	0.3657 mg/L		0.00154	0.42%
Se 196.026†	420.8	0.3350 mg/L		0.00266	0.3350 mg/L		0.00266	0.79%
Zn 206.200†	82122.6	1.670 mg/L		0.0173	1.670 mg/L		0.0173	1.04%
Sb 206.836†	1817.0	0.4345 mg/L		0.00162	0.4345 mg/L		0.00162	0.37%
Pb 220.353†	3920.0	0.5181 mg/L		0.00246	0.5181 mg/L		0.00246	0.48%
Cd 226.502†	9972.8	0.0819 mg/L		0.00080	0.0819 mg/L		0.00080	0.98%
Co 228.616†	10156.0	0.3608 mg/L		0.00393	0.3608 mg/L		0.00393	1.09%
Ni 232.003†	28241.5	1.473 mg/L		0.0202	1.473 mg/L		0.0202	1.37%
Ba 233.527†	135855.6	1.220 mg/L		0.0151	1.220 mg/L		0.0151	1.24%
Mn 257.610†	1059393.9	1.761 mg/L		0.0068	1.761 mg/L		0.0068	0.39%
Cr 267.716†	68273.2	0.6515 mg/L		0.00714	0.6515 mg/L		0.00714	1.10%
Fe 273.955†	23026.8	1.511 mg/L		0.0203	1.511 mg/L		0.0203	1.34%
Mg 279.077†	-192.4	-0.0145 mg/L		0.00123	-0.0145 mg/L		0.00123	8.46%
V 292.402†	434355.8	1.441 mg/L		0.0083	1.441 mg/L		0.0083	0.57%
Al 308.215†	13447.9	0.4163 mg/L		0.01033	0.4163 mg/L		0.01033	2.48%
Be 313.107†	275161.9	0.0707 mg/L		0.00026	0.0707 mg/L		0.00026	0.37%
Cu 324.752†	168534.0	0.4976 mg/L		0.00266	0.4976 mg/L		0.00266	0.53%
Ag 338.289†	34831.7	0.1984 mg/L		0.00288	0.1984 mg/L		0.00288	1.45%
Na 330.237†	1652.0	1.279 mg/L		0.0092	1.279 mg/L		0.0092	0.72%
Ca 227.546†	33.6	0.0666 mg/L		0.03561	0.0666 mg/L		0.03561	53.48%
Al RADIAL†	812.2	0.4543 mg/L		0.00294	0.4543 mg/L		0.00294	0.65%

Fe RADIAL†	94.6	1.478 mg/L	0.0468	1.478 mg/L	0.0468	3.17%
Ca RADIAL†	-6.6	-0.0050 mg/L	0.00587	-0.0050 mg/L	0.00587	118.39%
K RADIAL†	2.6	0.0020 mg/L	0.00721	0.0020 mg/L	0.00721	362.96%
Mg RADIAL†	-0.9	-0.0101 mg/L	0.00655	-0.0101 mg/L	0.00655	64.59%
Na RADIAL†	-3179.2	-0.2406 mg/L	0.00052	-0.2406 mg/L	0.00052	0.22%

Sequence No.: 122

Sample ID: 14C1014-01

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 4/2/2014 3:53:40 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1014-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	14282053.8	4.315 mg/L	0.0297			0.69%
Y RADIAL	185138.5	5.004 mg/L	0.0208			0.42%
As 188.979†	-9.5	-0.0037 mg/L	0.00258	-0.0037 mg/L	0.00258	69.60%
Tl 190.801†	-0.6	-0.0001 mg/L	0.00123	-0.0001 mg/L	0.00123	817.54%
Se 196.026†	-4.8	-0.0038 mg/L	0.00458	-0.0038 mg/L	0.00458	119.20%
Zn 206.200†	568.8	0.0116 mg/L	0.00038	0.0116 mg/L	0.00038	3.30%
Sb 206.836†	-9.4	-0.0022 mg/L	0.00182	-0.0022 mg/L	0.00182	81.14%
Pb 220.353†	-38.3	-0.0043 mg/L	0.00084	-0.0043 mg/L	0.00084	19.51%
Cd 226.502†	-0.1	0.0000 mg/L	0.00012	0.0000 mg/L	0.00012	>999.9%
Co 228.616†	10.6	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	18.22%
Ni 232.003†	-49.3	-0.0026 mg/L	0.00047	-0.0026 mg/L	0.00047	18.35%
Ba 233.527†	2018.3	0.0181 mg/L	0.00033	0.0181 mg/L	0.00033	1.82%
Mn 257.610†	7785.7	0.0107 mg/L	0.00012	0.0107 mg/L	0.00012	1.08%
Cr 267.716†	-150.9	-0.0014 mg/L	0.00018	-0.0014 mg/L	0.00018	12.80%
Fe 273.955†	177.7	0.0117 mg/L	0.00068	0.0117 mg/L	0.00068	5.81%
Mg 279.077†	1613432.2	122.3 mg/L	1.23	122.3 mg/L	1.23	1.01%
V 292.402†	6.7	0.0000 mg/L	0.00012	0.0000 mg/L	0.00012	552.30%
Al 308.215†	1549.4	0.0444 mg/L	0.00243	0.0444 mg/L	0.00243	5.46%
Be 313.107†	-948.6	-0.0002 mg/L	0.00002	-0.0002 mg/L	0.00002	6.94%
Cu 324.752†	1426.7	0.0014 mg/L	0.00023	0.0014 mg/L	0.00023	16.66%
Ag 338.289†	126.8	0.0001 mg/L	0.00040	0.0001 mg/L	0.00040	725.97%
Na 330.237†	1852508.7	1426 mg/L	20.1	1426 mg/L	20.1	1.41%
Ca 227.546†	35951.9	63.35 mg/L	0.675	63.35 mg/L	0.675	1.07%
Al RADIAL†	6.6	0.0037 mg/L	0.00207	0.0037 mg/L	0.00207	55.90%
Fe RADIAL†	-0.3	-0.0048 mg/L	0.03255	-0.0048 mg/L	0.03255	674.20%
Ca RADIAL†	76765.8	57.56 mg/L	0.259	57.56 mg/L	0.259	0.45%
K RADIAL†	54228.7	41.79 mg/L	0.331	41.79 mg/L	0.331	0.79%
Mg RADIAL†	10597.5	115.8 mg/L	0.79	115.8 mg/L	0.79	0.68%
Na RADIAL†	8623200.5	652.5 mg/L	2.07	652.5 mg/L	2.07	0.32%

Sequence No.: 123

Sample ID: BD40042-DUP1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 104

Date Collected: 4/2/2014 3:58:47 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40042-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	14335021.1	4.331 mg/L	0.0160			0.37%
Y RADIAL	186286.8	5.035 mg/L	0.0373			0.74%
As 188.979†	-2.8	-0.0011 mg/L	0.00064	-0.0011 mg/L	0.00064	58.27%
Tl 190.801†	2.1	0.0006 mg/L	0.00093	0.0006 mg/L	0.00093	162.91%
Se 196.026†	5.7	0.0045 mg/L	0.00047	0.0045 mg/L	0.00047	10.40%
Zn 206.200†	558.8	0.0114 mg/L	0.00017	0.0114 mg/L	0.00017	1.47%
Sb 206.836†	-9.3	-0.0022 mg/L	0.00086	-0.0022 mg/L	0.00086	38.65%
Pb 220.353†	-24.9	-0.0025 mg/L	0.00149	-0.0025 mg/L	0.00149	58.57%
Cd 226.502†	7.2	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	31.46%
Co 228.616†	17.4	0.0006 mg/L	0.00014	0.0006 mg/L	0.00014	22.23%
Ni 232.003†	-43.5	-0.0023 mg/L	0.00012	-0.0023 mg/L	0.00012	5.31%
Ba 233.527†	2032.1	0.0182 mg/L	0.00018	0.0182 mg/L	0.00018	1.00%
Mn 257.610†	8142.0	0.0113 mg/L	0.00007	0.0113 mg/L	0.00007	0.59%
Cr 267.716†	-156.2	-0.0015 mg/L	0.00012	-0.0015 mg/L	0.00012	8.11%

Fe 273.955†	182.6	0.0120 mg/L	0.00042	0.0120 mg/L	0.00042	3.50%
Mg 279.077†	1611498.1	122.2 mg/L	0.97	122.2 mg/L	0.97	0.80%
V 292.402†	-2.5	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	300.40%
Al 308.215†	1530.6	0.0438 mg/L	0.00159	0.0438 mg/L	0.00159	3.63%
Be 313.107†	-955.3	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	0.96%
Cu 324.752†	658.9	-0.0009 mg/L	0.00022	-0.0009 mg/L	0.00022	24.48%
Ag 338.289†	141.8	0.0001 mg/L	0.00064	0.0001 mg/L	0.00064	475.79%
Na 330.237†	1859017.8	1431 mg/L	15.6	1431 mg/L	15.6	1.09%
Ca 227.546†	36347.9	64.05 mg/L	0.933	64.05 mg/L	0.933	1.46%
Al RADIAL†	20.8	0.0116 mg/L	0.00375	0.0116 mg/L	0.00375	32.26%
Fe RADIAL†	0.5	0.0080 mg/L	0.02085	0.0080 mg/L	0.02085	261.17%
Ca RADIAL†	76941.7	57.69 mg/L	0.155	57.69 mg/L	0.155	0.27%
K RADIAL†	55015.7	42.39 mg/L	0.377	42.39 mg/L	0.377	0.89%
Mg RADIAL†	10618.2	116.1 mg/L	0.84	116.1 mg/L	0.84	0.73%
Na RADIAL†	8462576.9	640.4 mg/L	5.41	640.4 mg/L	5.41	0.85%

Sequence No.: 124

Sample ID: BD40042-MS1

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 105

Date Collected: 4/2/2014 4:03:55 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BD40042-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	14207598.1	4.292 mg/L		0.0221			0.52%
Y RADIAL	184453.4	4.985 mg/L		0.0253			0.51%
As 188.979†	5825.4	2.288 mg/L		0.0112	2.288 mg/L	0.0112	0.49%
Tl 190.801†	6978.7	1.874 mg/L		0.0053	1.874 mg/L	0.0053	0.28%
Se 196.026†	2842.6	2.256 mg/L		0.0090	2.256 mg/L	0.0090	0.40%
Zn 206.200†	26981.3	0.5487 mg/L		0.00197	0.5487 mg/L	0.00197	0.36%
Sb 206.836†	1114.1	0.2664 mg/L		0.00181	0.2664 mg/L	0.00181	0.68%
Pb 220.353†	3634.5	0.4814 mg/L		0.00124	0.4814 mg/L	0.00124	0.26%
Cd 226.502†	6113.4	0.0502 mg/L		0.00031	0.0502 mg/L	0.00031	0.61%
Co 228.616†	14264.2	0.5068 mg/L		0.00258	0.5068 mg/L	0.00258	0.51%
Ni 232.003†	10639.8	0.5552 mg/L		0.00303	0.5552 mg/L	0.00303	0.55%
Ba 233.527†	237181.1	2.129 mg/L		0.0158	2.129 mg/L	0.0158	0.74%
Mn 257.610†	317296.6	0.5251 mg/L		0.00453	0.5251 mg/L	0.00453	0.86%
Cr 267.716†	22167.0	0.2115 mg/L		0.00087	0.2115 mg/L	0.00087	0.41%
Fe 273.955†	15821.3	1.038 mg/L		0.0037	1.038 mg/L	0.0037	0.36%
Mg 279.077†	1599534.8	121.3 mg/L		1.04	121.3 mg/L	1.04	0.86%
V 292.402†	152491.1	0.5060 mg/L		0.00464	0.5060 mg/L	0.00464	0.92%
Al 308.215†	74729.0	2.309 mg/L		0.0303	2.309 mg/L	0.0303	1.31%
Be 313.107†	195119.3	0.0501 mg/L		0.00030	0.0501 mg/L	0.00030	0.60%
Cu 324.752†	95769.1	0.2799 mg/L		0.00311	0.2799 mg/L	0.00311	1.11%
Ag 338.289†	9435.2	0.0531 mg/L		0.00024	0.0531 mg/L	0.00024	0.45%
Na 330.237†	1827024.3	1407 mg/L		19.1	1407 mg/L	19.1	1.36%
Ca 227.546†	36217.9	63.82 mg/L		0.271	63.82 mg/L	0.271	0.42%
Al RADIAL†	3592.7	2.010 mg/L		0.0127	2.010 mg/L	0.0127	0.63%
Fe RADIAL†	63.2	0.9881 mg/L		0.03975	0.9881 mg/L	0.03975	4.02%
Ca RADIAL†	76671.5	57.49 mg/L		0.050	57.49 mg/L	0.050	0.09%
K RADIAL†	54369.6	41.89 mg/L		0.306	41.89 mg/L	0.306	0.73%
Mg RADIAL†	10585.7	115.7 mg/L		0.54	115.7 mg/L	0.54	0.46%
Na RADIAL†	8473707.2	641.2 mg/L		5.11	641.2 mg/L	5.11	0.80%

Sequence No.: 125

Sample ID: 14C1014-02

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 106

Date Collected: 4/2/2014 4:11:57 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1014-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	14029422.7	4.238 mg/L		0.0188			0.44%
Y RADIAL	182283.4	4.927 mg/L		0.1189			2.41%
As 188.979†	-7.4	-0.0029 mg/L		0.00210	-0.0029 mg/L	0.00210	72.60%
Tl 190.801†	4.4	0.0012 mg/L		0.00157	0.0012 mg/L	0.00157	133.36%

Se 196.026†	7.9	0.0063 mg/L	0.00116	0.0063 mg/L	0.00116	18.44%
Zn 206.200†	648.1	0.0132 mg/L	0.00016	0.0132 mg/L	0.00016	1.24%
Sb 206.836†	-3.1	-0.0007 mg/L	0.00076	-0.0007 mg/L	0.00076	103.43%
Pb 220.353†	-38.9	-0.0044 mg/L	0.00070	-0.0044 mg/L	0.00070	15.99%
Cd 226.502†	3.0	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	83.53%
Co 228.616†	14.8	0.0005 mg/L	0.00012	0.0005 mg/L	0.00012	23.03%
Ni 232.003†	-40.7	-0.0021 mg/L	0.00091	-0.0021 mg/L	0.00091	42.79%
Ba 233.527†	2024.5	0.0182 mg/L	0.00005	0.0182 mg/L	0.00005	0.26%
Mn 257.610†	7936.9	0.0109 mg/L	0.00008	0.0109 mg/L	0.00008	0.69%
Cr 267.716†	-160.7	-0.0015 mg/L	0.00009	-0.0015 mg/L	0.00009	5.62%
Fe 273.955†	142.1	0.0093 mg/L	0.00085	0.0093 mg/L	0.00085	9.15%
Mg 279.077†	1624106.7	123.1 mg/L	0.07	123.1 mg/L	0.07	0.05%
V 292.402†	14.3	0.0000 mg/L	0.00022	0.0000 mg/L	0.00022	468.28%
Al 308.215†	3100.8	0.0924 mg/L	0.00203	0.0924 mg/L	0.00203	2.19%
Be 313.107†	-1085.6	-0.0003 mg/L	0.00001	-0.0003 mg/L	0.00001	5.06%
Cu 324.752†	475.0	-0.0015 mg/L	0.00019	-0.0015 mg/L	0.00019	12.61%
Ag 338.289†	114.0	0.0000 mg/L	0.00031	0.0000 mg/L	0.00031	>999.9%
Na 330.237†	1874217.7	1443 mg/L	10.1	1443 mg/L	10.1	0.70%
Ca 227.546†	36465.1	64.25 mg/L	0.331	64.25 mg/L	0.331	0.51%
Al RADIAL†	77.6	0.0434 mg/L	0.00432	0.0434 mg/L	0.00432	9.96%
Fe RADIAL†	1.5	0.0242 mg/L	0.00986	0.0242 mg/L	0.00986	40.73%
Ca RADIAL†	76108.0	57.07 mg/L	0.291	57.07 mg/L	0.291	0.51%
K RADIAL†	54089.4	41.68 mg/L	0.212	41.68 mg/L	0.212	0.51%
Mg RADIAL†	10559.7	115.4 mg/L	0.20	115.4 mg/L	0.20	0.17%
Na RADIAL†	8533547.9	645.7 mg/L	11.37	645.7 mg/L	11.37	1.76%

Sequence No.: 126

Sample ID: 14C1014-03

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 107

Date Collected: 4/2/2014 4:17:05 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1014-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	14260532.6	4.308 mg/L		0.0197			0.46%
Y RADIAL	187674.9	5.072 mg/L		0.0466			0.92%
As 188.979†	-7.9	-0.0031 mg/L		0.00054	-0.0031 mg/L	0.00054	17.55%
Tl 190.801†	-6.1	-0.0016 mg/L		0.00113	-0.0016 mg/L	0.00113	69.25%
Se 196.026†	1.8	0.0014 mg/L		0.00564	0.0014 mg/L	0.00564	397.45%
Zn 206.200†	580.5	0.0118 mg/L		0.00021	0.0118 mg/L	0.00021	1.82%
Sb 206.836†	-5.0	-0.0012 mg/L		0.00227	-0.0012 mg/L	0.00227	190.35%
Pb 220.353†	-40.5	-0.0046 mg/L		0.00171	-0.0046 mg/L	0.00171	36.99%
Cd 226.502†	2.6	0.0000 mg/L		0.00007	0.0000 mg/L	0.00007	377.93%
Co 228.616†	18.8	0.0007 mg/L		0.00034	0.0007 mg/L	0.00034	51.12%
Ni 232.003†	-44.6	-0.0023 mg/L		0.00064	-0.0023 mg/L	0.00064	27.40%
Ba 233.527†	1967.3	0.0177 mg/L		0.00007	0.0177 mg/L	0.00007	0.38%
Mn 257.610†	7296.4	0.0100 mg/L		0.00007	0.0100 mg/L	0.00007	0.68%
Cr 267.716†	-146.4	-0.0014 mg/L		0.00003	-0.0014 mg/L	0.00003	2.17%
Fe 273.955†	175.4	0.0115 mg/L		0.00103	0.0115 mg/L	0.00103	8.95%
Mg 279.077†	1522199.6	115.4 mg/L		0.53	115.4 mg/L	0.53	0.46%
V 292.402†	21.1	0.0001 mg/L		0.00021	0.0001 mg/L	0.00021	302.09%
Al 308.215†	1685.9	0.0488 mg/L		0.01254	0.0488 mg/L	0.01254	25.69%
Be 313.107†	-847.2	-0.0002 mg/L		0.00003	-0.0002 mg/L	0.00003	15.44%
Cu 324.752†	285.2	-0.0019 mg/L		0.00013	-0.0019 mg/L	0.00013	6.79%
Ag 338.289†	82.6	-0.0002 mg/L		0.00054	-0.0002 mg/L	0.00054	320.57%
Na 330.237†	1734895.0	1336 mg/L		13.2	1336 mg/L	13.2	0.99%
Ca 227.546†	34498.2	60.79 mg/L		0.574	60.79 mg/L	0.574	0.94%
Al RADIAL†	16.0	0.0089 mg/L		0.00089	0.0089 mg/L	0.00089	9.97%
Fe RADIAL†	1.1	0.0172 mg/L		0.01502	0.0172 mg/L	0.01502	87.33%
Ca RADIAL†	74501.3	55.86 mg/L		0.191	55.86 mg/L	0.191	0.34%
K RADIAL†	51104.9	39.38 mg/L		0.166	39.38 mg/L	0.166	0.42%
Mg RADIAL†	10002.1	109.3 mg/L		0.60	109.3 mg/L	0.60	0.55%
Na RADIAL†	8147968.0	616.6 mg/L		3.69	616.6 mg/L	3.69	0.60%

Sequence No.: 127

Sample ID: 14C1014-04

Analyst: MW

Initial Sample Wt:

Autosampler Location: 108

Date Collected: 4/2/2014 4:22:12 AM

Data Type: Original

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: 14C1014-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14393342.7	4.348	mg/L	0.0151				0.35%
Y RADIAL	185035.5	5.001	mg/L	0.0142				0.28%
As 188.979†	-3.5	-0.0014	mg/L	0.00214	-0.0014	mg/L	0.00214	155.63%
Tl 190.801†	-2.0	-0.0005	mg/L	0.00116	-0.0005	mg/L	0.00116	215.58%
Se 196.026†	2.4	0.0019	mg/L	0.00446	0.0019	mg/L	0.00446	238.09%
Zn 206.200†	1179.2	0.0240	mg/L	0.00032	0.0240	mg/L	0.00032	1.32%
Sb 206.836†	-3.5	-0.0008	mg/L	0.00116	-0.0008	mg/L	0.00116	139.64%
Pb 220.353†	-45.2	-0.0052	mg/L	0.00041	-0.0052	mg/L	0.00041	7.83%
Cd 226.502†	2.4	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	552.71%
Co 228.616†	3.1	0.0001	mg/L	0.00046	0.0001	mg/L	0.00046	414.91%
Ni 232.003†	-34.5	-0.0018	mg/L	0.00012	-0.0018	mg/L	0.00012	6.86%
Ba 233.527†	2004.1	0.0180	mg/L	0.00011	0.0180	mg/L	0.00011	0.64%
Mn 257.610†	7305.3	0.0100	mg/L	0.00007	0.0100	mg/L	0.00007	0.75%
Cr 267.716†	-152.3	-0.0015	mg/L	0.00005	-0.0015	mg/L	0.00005	3.37%
Fe 273.955†	141.1	0.0093	mg/L	0.00039	0.0093	mg/L	0.00039	4.24%
Mg 279.077†	1527873.0	115.8	mg/L	0.49	115.8	mg/L	0.49	0.42%
V 292.402†	57.7	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	51.64%
Al 308.215†	1550.4	0.0446	mg/L	0.00325	0.0446	mg/L	0.00325	7.28%
Be 313.107†	-1011.5	-0.0003	mg/L	0.00001	-0.0003	mg/L	0.00001	4.87%
Cu 324.752†	247.5	-0.0020	mg/L	0.00016	-0.0020	mg/L	0.00016	8.06%
Ag 338.289†	128.6	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	188.79%
Na 330.237†	1735133.4	1336	mg/L	8.8	1336	mg/L	8.8	0.66%
Ca 227.546†	34860.8	61.42	mg/L	0.873	61.42	mg/L	0.873	1.42%
Al RADIAL†	7.8	0.0044	mg/L	0.00386	0.0044	mg/L	0.00386	88.16%
Fe RADIAL†	-0.9	-0.0140	mg/L	0.01934	-0.0140	mg/L	0.01934	138.43%
Ca RADIAL†	74285.7	55.70	mg/L	0.251	55.70	mg/L	0.251	0.45%
K RADIAL†	50819.2	39.16	mg/L	0.180	39.16	mg/L	0.180	0.46%
Mg RADIAL†	10045.5	109.8	mg/L	0.25	109.8	mg/L	0.25	0.23%
Na RADIAL†	8091278.1	612.3	mg/L	5.48	612.3	mg/L	5.48	0.90%

Sequence No.: 128

Sample ID: SEQ-CCVB

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/2/2014 4:27:20 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCVB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16408820.1	4.957	mg/L	0.0288				0.58%
Y RADIAL	187501.4	5.068	mg/L	0.0530				1.05%
As 188.979†	626.7	0.2469	mg/L	0.00315	0.2469	mg/L	0.00315	1.28%
Tl 190.801†	974.6	0.2622	mg/L	0.00134	0.2622	mg/L	0.00134	0.51%
Se 196.026†	315.7	0.2541	mg/L	0.00519	0.2541	mg/L	0.00519	2.04%
Zn 206.200†	126414.5	2.571	mg/L	0.0188	2.571	mg/L	0.0188	0.73%
Sb 206.836†	1079.7	0.2581	mg/L	0.00429	0.2581	mg/L	0.00429	1.66%
Pb 220.353†	1893.4	0.2508	mg/L	0.00224	0.2508	mg/L	0.00224	0.89%
Cd 226.502†	15512.0	0.1269	mg/L	0.00072	0.1269	mg/L	0.00072	0.56%
Co 228.616†	71523.2	2.541	mg/L	0.0260	2.541	mg/L	0.0260	1.03%
Ni 232.003†	48572.4	2.534	mg/L	0.0239	2.534	mg/L	0.0239	0.94%
Ba 233.527†	1139981.7	10.23	mg/L	0.127	10.23	mg/L	0.127	1.24%
Mn 257.610†	1524294.5	2.533	mg/L	0.0290	2.533	mg/L	0.0290	1.15%
Cr 267.716†	109214.2	1.042	mg/L	0.0089	1.042	mg/L	0.0089	0.85%
Fe 273.955†	78237.3	5.133	mg/L	0.0399	5.133	mg/L	0.0399	0.78%
Mg 279.077†	330799.6	25.08	mg/L	0.297	25.08	mg/L	0.297	1.19%
V 292.402†	751943.2	2.495	mg/L	0.0245	2.495	mg/L	0.0245	0.98%
Al 308.215†	309851.8	9.588	mg/L	0.1146	9.588	mg/L	0.1146	1.19%
Be 313.107†	962014.0	0.2471	mg/L	0.00283	0.2471	mg/L	0.00283	1.15%
Cu 324.752†	415522.4	1.226	mg/L	0.0134	1.226	mg/L	0.0134	1.10%
Ag 338.289†	216052.1	1.230	mg/L	0.0116	1.230	mg/L	0.0116	0.94%
Na 330.237†	30186.6	23.31	mg/L	0.134	23.31	mg/L	0.134	0.58%
Ca 227.546†	13473.3	23.77	mg/L	0.246	23.77	mg/L	0.246	1.03%
Al RADIAL†	17774.3	9.942	mg/L	0.0633	9.942	mg/L	0.0633	0.64%
Fe RADIAL†	323.4	5.054	mg/L	0.0691	5.054	mg/L	0.0691	1.37%

Ca RADIAL†	33435.4	25.07 mg/L	0.092	25.07 mg/L	0.092	0.37%
K RADIAL†	6327.5	4.876 mg/L	0.0313	4.876 mg/L	0.0313	0.64%
Mg RADIAL†	2327.7	25.44 mg/L	0.299	25.44 mg/L	0.299	1.18%
Na RADIAL†	332352.0	25.15 mg/L	0.142	25.15 mg/L	0.142	0.57%

Sequence No.: 129

Sample ID: SEQ-CCBB

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 4/2/2014 4:35:24 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCBB

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units			
Y 371.029	17264217.7	5.216 mg/L	0.0427				0.82%	
Y RADIAL	190933.2	5.160 mg/L	0.0366				0.71%	
As 188.979†	-7.9	-0.0031 mg/L	0.00152	-0.0031 mg/L	0.00152	49.35%		
Tl 190.801†	9.3	0.0025 mg/L	0.00086	0.0025 mg/L	0.00086	34.39%		
Se 196.026†	2.4	0.0019 mg/L	0.00327	0.0019 mg/L	0.00327	171.91%		
Zn 206.200†	-22.8	-0.0005 mg/L	0.00009	-0.0005 mg/L	0.00009	20.47%		
Sb 206.836†	-1.0	-0.0002 mg/L	0.00036	-0.0002 mg/L	0.00036	150.91%		
Pb 220.353†	-5.3	-0.0007 mg/L	0.00017	-0.0007 mg/L	0.00017	24.62%		
Cd 226.502†	25.5	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	7.84%		
Co 228.616†	5.9	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	35.39%		
Ni 232.003†	38.0	0.0020 mg/L	0.00053	0.0020 mg/L	0.00053	26.90%		
Ba 233.527†	4.4	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	100.84%		
Mn 257.610†	-15.2	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	92.78%		
Cr 267.716†	-8.4	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	45.48%		
Fe 273.955†	14.4	0.0009 mg/L	0.00036	0.0009 mg/L	0.00036	38.08%		
Mg 279.077†	-3.2	-0.0002 mg/L	0.00112	-0.0002 mg/L	0.00112	458.21%		
V 292.402†	13.6	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	37.40%		
Al 308.215†	-290.0	-0.0090 mg/L	0.00381	-0.0090 mg/L	0.00381	42.42%		
Be 313.107†	153.5	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	41.51%		
Cu 324.752†	-951.3	-0.0028 mg/L	0.00005	-0.0028 mg/L	0.00005	1.80%		
Ag 338.289†	121.7	0.0007 mg/L	0.00020	0.0007 mg/L	0.00020	28.30%		
Na 330.237†	-133.8	-0.1030 mg/L	0.02422	-0.1030 mg/L	0.02422	23.50%		
Ca 227.546†	-12.7	-0.0224 mg/L	0.00228	-0.0224 mg/L	0.00228	10.21%		
Al RADIAL†	-1.6	-0.0009 mg/L	0.00371	-0.0009 mg/L	0.00371	414.33%		
Fe RADIAL†	0.5	0.0077 mg/L	0.01321	0.0077 mg/L	0.01321	171.11%		
Ca RADIAL†	11.9	0.0089 mg/L	0.00849	0.0089 mg/L	0.00849	95.46%		
K RADIAL†	28.3	0.0218 mg/L	0.00608	0.0218 mg/L	0.00608	27.85%		
Mg RADIAL†	-2.5	-0.0273 mg/L	0.04368	-0.0273 mg/L	0.04368	160.27%		
Na RADIAL†	-99.1	-0.0075 mg/L	0.00439	-0.0075 mg/L	0.00439	58.49%		

Sequence No.: 130

Sample ID: 14D1014-05

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 109

Date Collected: 4/2/2014 4:40:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14D1014-05

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units			
Y 371.029	14428237.5	4.359 mg/L	0.0173				0.40%	
Y RADIAL	186436.2	5.039 mg/L	0.0443				0.88%	
As 188.979†	-10.0	-0.0039 mg/L	0.00209	-0.0039 mg/L	0.00209	53.48%		
Tl 190.801†	4.7	0.0013 mg/L	0.00018	0.0013 mg/L	0.00018	13.73%		
Se 196.026†	0.4	0.0003 mg/L	0.00458	0.0003 mg/L	0.00458	>999.9%		
Zn 206.200†	770.6	0.0157 mg/L	0.00024	0.0157 mg/L	0.00024	1.54%		
Sb 206.836†	1.9	0.0004 mg/L	0.00025	0.0004 mg/L	0.00025	56.56%		
Pb 220.353†	-39.6	-0.0045 mg/L	0.00178	-0.0045 mg/L	0.00178	39.55%		
Cd 226.502†	4.2	0.0000 mg/L	0.00011	0.0000 mg/L	0.00011	330.31%		
Co 228.616†	11.6	0.0004 mg/L	0.00010	0.0004 mg/L	0.00010	24.72%		
Ni 232.003†	-31.1	-0.0016 mg/L	0.00123	-0.0016 mg/L	0.00123	75.71%		
Ba 233.527†	1982.9	0.0178 mg/L	0.00015	0.0178 mg/L	0.00015	0.86%		
Mn 257.610†	7423.9	0.0102 mg/L	0.00005	0.0102 mg/L	0.00005	0.54%		
Cr 267.716†	-133.6	-0.0013 mg/L	0.00017	-0.0013 mg/L	0.00017	13.09%		
Fe 273.955†	179.4	0.0118 mg/L	0.00042	0.0118 mg/L	0.00042	3.56%		

Mg 279.077†	1554904.7	117.9 mg/L	1.14	117.9 mg/L	1.14	0.97%
V 292.402†	73.6	0.0002 mg/L	0.00027	0.0002 mg/L	0.00027	110.13%
Al 308.215†	1436.7	0.0411 mg/L	0.00361	0.0411 mg/L	0.00361	8.80%
Be 313.107†	-844.5	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	14.08%
Cu 324.752†	646.3	-0.0008 mg/L	0.00008	-0.0008 mg/L	0.00008	9.16%
Ag 338.289†	139.3	0.0001 mg/L	0.00026	0.0001 mg/L	0.00026	173.41%
Na 330.237†	1779859.0	1370 mg/L	10.0	1370 mg/L	10.0	0.73%
Ca 227.546†	34707.5	61.16 mg/L	0.619	61.16 mg/L	0.619	1.01%
Al RADIAL†	8.5	0.0047 mg/L	0.00192	0.0047 mg/L	0.00192	40.65%
Fe RADIAL†	-1.3	-0.0206 mg/L	0.05308	-0.0206 mg/L	0.05308	257.59%
Ca RADIAL†	74816.8	56.10 mg/L	0.173	56.10 mg/L	0.173	0.31%
K RADIAL†	52151.1	40.18 mg/L	0.119	40.18 mg/L	0.119	0.30%
Mg RADIAL†	10181.2	111.3 mg/L	0.18	111.3 mg/L	0.18	0.16%
Na RADIAL†	8286237.5	627.0 mg/L	5.99	627.0 mg/L	5.99	0.96%

Sequence No.: 131

Sample ID: 14C1014-06

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 110

Date Collected: 4/2/2014 4:45:20 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1014-06

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	14291102.0	4.318 mg/L	0.0587			1.36%
Y RADIAL	185068.1	5.002 mg/L	0.0461			0.92%
As 188.979†	-7.4	-0.0029 mg/L	0.00266	-0.0029 mg/L	0.00266	92.05%
Tl 190.801†	1.0	0.0003 mg/L	0.00100	0.0003 mg/L	0.00100	364.97%
Se 196.026†	1.8	0.0015 mg/L	0.00511	0.0015 mg/L	0.00511	352.00%
Zn 206.200†	788.2	0.0160 mg/L	0.00014	0.0160 mg/L	0.00014	0.86%
Sb 206.836†	-0.9	-0.0002 mg/L	0.00168	-0.0002 mg/L	0.00168	760.71%
Pb 220.353†	-34.5	-0.0038 mg/L	0.00104	-0.0038 mg/L	0.00104	27.11%
Cd 226.502†	8.2	0.0001 mg/L	0.00011	0.0001 mg/L	0.00011	167.53%
Co 228.616†	12.4	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	11.55%
Ni 232.003†	-31.9	-0.0017 mg/L	0.00059	-0.0017 mg/L	0.00059	35.16%
Ba 233.527†	1998.2	0.0179 mg/L	0.00014	0.0179 mg/L	0.00014	0.78%
Mn 257.610†	7448.1	0.0102 mg/L	0.00005	0.0102 mg/L	0.00005	0.47%
Cr 267.716†	-132.5	-0.0013 mg/L	0.00010	-0.0013 mg/L	0.00010	8.06%
Fe 273.955†	180.2	0.0118 mg/L	0.00060	0.0118 mg/L	0.00060	5.07%
Mg 279.077†	1550325.6	117.5 mg/L	0.40	117.5 mg/L	0.40	0.34%
V 292.402†	55.3	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	30.42%
Al 308.215†	1493.1	0.0428 mg/L	0.00440	0.0428 mg/L	0.00440	10.28%
Be 313.107†	-928.6	-0.0002 mg/L	0.00004	-0.0002 mg/L	0.00004	17.25%
Cu 324.752†	649.9	-0.0008 mg/L	0.00034	-0.0008 mg/L	0.00034	41.18%
Ag 338.289†	156.0	0.0002 mg/L	0.00019	0.0002 mg/L	0.00019	81.81%
Na 330.237†	1765278.5	1359 mg/L	10.0	1359 mg/L	10.0	0.74%
Ca 227.546†	35249.0	62.11 mg/L	0.971	62.11 mg/L	0.971	1.56%
Al RADIAL†	3.8	0.0021 mg/L	0.00610	0.0021 mg/L	0.00610	290.20%
Fe RADIAL†	0.7	0.0116 mg/L	0.01360	0.0116 mg/L	0.01360	117.00%
Ca RADIAL†	74765.7	56.06 mg/L	0.269	56.06 mg/L	0.269	0.48%
K RADIAL†	51846.0	39.95 mg/L	0.138	39.95 mg/L	0.138	0.35%
Mg RADIAL†	10134.9	110.8 mg/L	0.40	110.8 mg/L	0.40	0.36%
Na RADIAL†	8215891.9	621.7 mg/L	2.52	621.7 mg/L	2.52	0.41%

Sequence No.: 132

Sample ID: 14C1014-07

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 111

Date Collected: 4/2/2014 4:50:28 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1014-07

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	14176346.7	4.283 mg/L	0.0176			0.41%
Y RADIAL	184288.5	4.981 mg/L	0.0352			0.71%
As 188.979†	-10.1	-0.0040 mg/L	0.00465	-0.0040 mg/L	0.00465	116.81%
Tl 190.801†	-3.3	-0.0009 mg/L	0.00216	-0.0009 mg/L	0.00216	245.84%
Se 196.026†	2.8	0.0023 mg/L	0.00906	0.0023 mg/L	0.00906	400.43%

Zn 206.200†	570.9	0.0116 mg/L	0.00036	0.0116 mg/L	0.00036	3.13%
Sb 206.836†	-6.3	-0.0015 mg/L	0.00137	-0.0015 mg/L	0.00137	91.42%
Pb 220.353†	-30.7	-0.0033 mg/L	0.00080	-0.0033 mg/L	0.00080	24.16%
Cd 226.502†	7.6	0.0001 mg/L	0.00014	0.0001 mg/L	0.00014	229.77%
Co 228.616†	14.8	0.0005 mg/L	0.00026	0.0005 mg/L	0.00026	48.64%
Ni 232.003†	-46.3	-0.0024 mg/L	0.00062	-0.0024 mg/L	0.00062	25.50%
Ba 233.527†	2029.8	0.0182 mg/L	0.00023	0.0182 mg/L	0.00023	1.26%
Mn 257.610†	8011.1	0.0110 mg/L	0.00009	0.0110 mg/L	0.00009	0.80%
Cr 267.716†	-163.9	-0.0016 mg/L	0.00013	-0.0016 mg/L	0.00013	8.13%
Fe 273.955†	138.0	0.0091 mg/L	0.00080	0.0091 mg/L	0.00080	8.84%
Mg 279.077†	1626415.6	123.3 mg/L	0.35	123.3 mg/L	0.35	0.29%
V 292.402†	-41.0	-0.0001 mg/L	0.00010	-0.0001 mg/L	0.00010	75.49%
Al 308.215†	1592.1	0.0457 mg/L	0.00156	0.0457 mg/L	0.00156	3.41%
Be 313.107†	-890.8	-0.0002 mg/L	0.00002	-0.0002 mg/L	0.00002	8.77%
Cu 324.752†	477.4	-0.0015 mg/L	0.00008	-0.0015 mg/L	0.00008	5.62%
Ag 338.289†	125.2	0.0000 mg/L	0.00013	0.0000 mg/L	0.00013	360.37%
Na 330.237†	1874104.5	1443 mg/L	4.0	1443 mg/L	4.0	0.28%
Ca 227.546†	36578.5	64.45 mg/L	0.570	64.45 mg/L	0.570	0.88%
Al RADIAL†	13.0	0.0072 mg/L	0.00153	0.0072 mg/L	0.00153	21.14%
Fe RADIAL†	0.8	0.0132 mg/L	0.01412	0.0132 mg/L	0.01412	106.85%
Ca RADIAL†	76872.7	57.64 mg/L	0.158	57.64 mg/L	0.158	0.27%
K RADIAL†	54624.6	42.09 mg/L	0.134	42.09 mg/L	0.134	0.32%
Mg RADIAL†	10656.9	116.5 mg/L	0.82	116.5 mg/L	0.82	0.70%
Na RADIAL†	8293998.2	627.6 mg/L	4.50	627.6 mg/L	4.50	0.72%

Sequence No.: 133

Sample ID: 14C1014-08

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 112

Date Collected: 4/2/2014 4:55:36 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 14C1014-08

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14121332.1	4.266	mg/L	0.0219				0.51%
Y RADIAL	182929.8	4.944	mg/L	0.0672				1.36%
As 188.979†	-9.6	-0.0038	mg/L	0.00113	-0.0038	mg/L	0.00113	30.21%
Tl 190.801†	1.3	0.0004	mg/L	0.00066	0.0004	mg/L	0.00066	184.00%
Se 196.026†	6.4	0.0051	mg/L	0.00329	0.0051	mg/L	0.00329	64.62%
Zn 206.200†	596.9	0.0121	mg/L	0.00025	0.0121	mg/L	0.00025	2.03%
Sb 206.836†	2.0	0.0005	mg/L	0.00014	0.0005	mg/L	0.00014	28.12%
Pb 220.353†	-28.6	-0.0031	mg/L	0.00118	-0.0031	mg/L	0.00118	38.72%
Cd 226.502†	-0.4	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	>999.9%
Co 228.616†	6.6	0.0002	mg/L	0.00021	0.0002	mg/L	0.00021	90.79%
Ni 232.003†	-43.4	-0.0023	mg/L	0.00051	-0.0023	mg/L	0.00051	22.54%
Ba 233.527†	1999.6	0.0180	mg/L	0.00022	0.0180	mg/L	0.00022	1.20%
Mn 257.610†	7800.1	0.0108	mg/L	0.00016	0.0108	mg/L	0.00016	1.52%
Cr 267.716†	-151.9	-0.0014	mg/L	0.00022	-0.0014	mg/L	0.00022	15.21%
Fe 273.955†	173.1	0.0114	mg/L	0.00065	0.0114	mg/L	0.00065	5.69%
Mg 279.077†	1578876.5	119.7	mg/L	0.27	119.7	mg/L	0.27	0.23%
V 292.402†	109.2	0.0004	mg/L	0.00010	0.0004	mg/L	0.00010	27.19%
Al 308.215†	1540.4	0.0442	mg/L	0.00260	0.0442	mg/L	0.00260	5.88%
Be 313.107†	-901.2	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	9.80%
Cu 324.752†	396.5	-0.0016	mg/L	0.00008	-0.0016	mg/L	0.00008	5.19%
Ag 338.289†	139.9	0.0001	mg/L	0.00024	0.0001	mg/L	0.00024	163.18%
Na 330.237†	1798808.6	1385	mg/L	7.2	1385	mg/L	7.2	0.52%
Ca 227.546†	35140.9	61.92	mg/L	0.952	61.92	mg/L	0.952	1.54%
Al RADIAL†	11.3	0.0063	mg/L	0.00379	0.0063	mg/L	0.00379	60.27%
Fe RADIAL†	2.0	0.0310	mg/L	0.02848	0.0310	mg/L	0.02848	91.81%
Ca RADIAL†	74647.9	55.97	mg/L	0.142	55.97	mg/L	0.142	0.25%
K RADIAL†	52309.6	40.31	mg/L	0.022	40.31	mg/L	0.022	0.06%
Mg RADIAL†	10246.7	112.0	mg/L	0.34	112.0	mg/L	0.34	0.31%
Na RADIAL†	8274652.5	626.2	mg/L	7.27	626.2	mg/L	7.27	1.16%

Sequence No.: 134

Sample ID: SEQ-SRD5

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 113

Date Collected: 4/2/2014 5:00:44 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-SRD5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16045252.5	4.847	mg/L	0.0236				0.49%
Y RADIAL	194336.3	5.252	mg/L	0.0585				1.11%
As 188.979†	-4.1	-0.0016	mg/L	0.00302	-0.0016	mg/L	0.00302	186.82%
Tl 190.801†	7.1	0.0019	mg/L	0.00181	0.0019	mg/L	0.00181	95.32%
Se 196.026†	1.7	0.0014	mg/L	0.00477	0.0014	mg/L	0.00477	351.67%
Zn 206.200†	189.5	0.0039	mg/L	0.00021	0.0039	mg/L	0.00021	5.47%
Sb 206.836†	-11.5	-0.0027	mg/L	0.00116	-0.0027	mg/L	0.00116	42.26%
Pb 220.353†	0.2	0.0002	mg/L	0.00019	0.0002	mg/L	0.00019	112.75%
Cd 226.502†	20.2	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	61.96%
Co 228.616†	8.5	0.0003	mg/L	0.00014	0.0003	mg/L	0.00014	45.48%
Ni 232.003†	-5.9	-0.0003	mg/L	0.00054	-0.0003	mg/L	0.00054	178.04%
Ba 233.527†	384.6	0.0035	mg/L	0.00006	0.0035	mg/L	0.00006	1.65%
Mn 257.610†	1678.5	0.0024	mg/L	0.00001	0.0024	mg/L	0.00001	0.53%
Cr 267.716†	-28.5	-0.0003	mg/L	0.00019	-0.0003	mg/L	0.00019	69.34%
Fe 273.955†	68.0	0.0045	mg/L	0.00012	0.0045	mg/L	0.00012	2.78%
Mg 279.077†	311838.9	23.64	mg/L	0.274	23.64	mg/L	0.274	1.16%
V 292.402†	11.0	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	139.62%
Al 308.215†	972.7	0.0294	mg/L	0.00316	0.0294	mg/L	0.00316	10.72%
Be 313.107†	-194.8	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	49.42%
Cu 324.752†	-970.1	-0.0034	mg/L	0.00010	-0.0034	mg/L	0.00010	2.91%
Ag 338.289†	1.1	-0.0001	mg/L	0.00034	-0.0001	mg/L	0.00034	295.82%
Na 330.237†	263470.6	202.8	mg/L	1.93	202.8	mg/L	1.93	0.95%
Ca 227.546†	6470.3	11.40	mg/L	0.082	11.40	mg/L	0.082	0.72%
Al RADIAL†	34.0	0.0190	mg/L	0.00168	0.0190	mg/L	0.00168	8.81%
Fe RADIAL†	-0.2	-0.0029	mg/L	0.01090	-0.0029	mg/L	0.01090	370.08%
Ca RADIAL†	14531.0	10.90	mg/L	0.031	10.90	mg/L	0.031	0.28%
K RADIAL†	8784.0	6.768	mg/L	0.0491	6.768	mg/L	0.0491	0.72%
Mg RADIAL†	2059.2	22.51	mg/L	0.274	22.51	mg/L	0.274	1.22%
Na RADIAL†	2295121.2	173.7	mg/L	1.96	173.7	mg/L	1.96	1.13%

Sequence No.: 135

Sample ID: SEQ-CRL2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 4/2/2014 5:05:43 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CRL2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16789052.0	5.072	mg/L	0.0283				0.56%
Y RADIAL	188590.3	5.097	mg/L	0.0155				0.30%
As 188.979†	23.0	0.0090	mg/L	0.00049	0.0090	mg/L	0.00049	5.46%
Tl 190.801†	47.4	0.0127	mg/L	0.00191	0.0127	mg/L	0.00191	14.98%
Se 196.026†	15.2	0.0121	mg/L	0.00233	0.0121	mg/L	0.00233	19.27%
Zn 206.200†	227.5	0.0046	mg/L	0.00034	0.0046	mg/L	0.00034	7.24%
Sb 206.836†	35.3	0.0084	mg/L	0.00072	0.0084	mg/L	0.00072	8.56%
Pb 220.353†	34.4	0.0045	mg/L	0.00111	0.0045	mg/L	0.00111	24.36%
Cd 226.502†	625.2	0.0052	mg/L	0.00003	0.0052	mg/L	0.00003	0.64%
Co 228.616†	152.1	0.0054	mg/L	0.00014	0.0054	mg/L	0.00014	2.59%
Ni 232.003†	112.6	0.0059	mg/L	0.00025	0.0059	mg/L	0.00025	4.18%
Ba 233.527†	1198.4	0.0108	mg/L	0.00005	0.0108	mg/L	0.00005	0.44%
Mn 257.610†	3197.6	0.0053	mg/L	0.00002	0.0053	mg/L	0.00002	0.41%
Cr 267.716†	554.3	0.0053	mg/L	0.00008	0.0053	mg/L	0.00008	1.49%
Fe 273.955†	96.1	0.0063	mg/L	0.00012	0.0063	mg/L	0.00012	1.95%
Mg 279.077†	24.6	0.0019	mg/L	0.00045	0.0019	mg/L	0.00045	24.41%
V 292.402†	1561.7	0.0052	mg/L	0.00002	0.0052	mg/L	0.00002	0.34%
Al 308.215†	330.0	0.0102	mg/L	0.00285	0.0102	mg/L	0.00285	27.91%
Be 313.107†	19538.3	0.0050	mg/L	0.00001	0.0050	mg/L	0.00001	0.27%
Cu 324.752†	144.2	0.0004	mg/L	0.00013	0.0004	mg/L	0.00013	29.80%
Ag 338.289†	853.4	0.0049	mg/L	0.00019	0.0049	mg/L	0.00019	3.92%
Na 330.237†	-42.5	-0.0326	mg/L	0.00843	-0.0326	mg/L	0.00843	25.83%
Ca 227.546†	8.2	0.0145	mg/L	0.00820	0.0145	mg/L	0.00820	56.50%
Al RADIAL†	23.1	0.0129	mg/L	0.00499	0.0129	mg/L	0.00499	38.57%
Fe RADIAL†	1.1	0.0171	mg/L	0.01071	0.0171	mg/L	0.01071	62.47%
Ca RADIAL†	7.3	0.0055	mg/L	0.00343	0.0055	mg/L	0.00343	62.72%

K RADIAL†	58.6	0.0452 mg/L	0.00345	0.0452 mg/L	0.00345	7.63%
Mg RADIAL†	-0.8	-0.0087 mg/L	0.01753	-0.0087 mg/L	0.01753	200.60%
Na RADIAL†	2689.7	0.2035 mg/L	0.00532	0.2035 mg/L	0.00532	2.62%

Sequence No.: 136

Sample ID: SEQ-IFA2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 4/2/2014 5:10:36 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	13871879.8	4.191 mg/L	0.0209			0.50%
Y RADIAL	173527.3	4.690 mg/L	0.0487			1.04%
As 188.979†	-57.1	0.0029 mg/L	0.00038	0.0029 mg/L	0.00038	13.33%
Tl 190.801†	-78.3	-0.0014 mg/L	0.00245	-0.0014 mg/L	0.00245	177.24%
Se 196.026†	-219.8	-0.0535 mg/L	0.00601	-0.0535 mg/L	0.00601	11.22%
Zn 206.200†	757.6	-0.0034 mg/L	0.00022	-0.0034 mg/L	0.00022	6.54%
Sb 206.836†	6.8	-0.0063 mg/L	0.00620	-0.0063 mg/L	0.00620	97.92%
Pb 220.353†	-565.4	-0.0407 mg/L	0.00136	-0.0407 mg/L	0.00136	3.35%
Cd 226.502†	5091.9	0.0095 mg/L	0.00004	0.0095 mg/L	0.00004	0.44%
Co 228.616†	-86.1	-0.0031 mg/L	0.00019	-0.0031 mg/L	0.00019	6.35%
Ni 232.003†	-8.4	0.0277 mg/L	0.00147	0.0277 mg/L	0.00147	5.31%
Ba 233.527†	256.1	0.0023 mg/L	0.00028	0.0023 mg/L	0.00028	12.34%
Mn 257.610†	-4475.3	-0.0072 mg/L	0.00008	-0.0072 mg/L	0.00008	1.15%
Cr 267.716†	-936.8	-0.0089 mg/L	0.00026	-0.0089 mg/L	0.00026	2.87%
Fe 273.955†	2620754.4	172.0 mg/L	1.11	172.0 mg/L	1.11	0.65%
Mg 279.077†	6464264.4	490.1 mg/L	0.56	490.1 mg/L	0.56	0.11%
V 292.402†	5863.7	0.0055 mg/L	0.00057	0.0055 mg/L	0.00057	10.28%
Al 308.215†	17208324.0	532.5 mg/L	0.59	532.5 mg/L	0.59	0.11%
Be 313.107†	-1117.0	-0.0003 mg/L	0.00003	-0.0003 mg/L	0.00003	11.51%
Cu 324.752†	-4754.6	-0.0287 mg/L	0.00005	-0.0287 mg/L	0.00005	0.19%
Ag 338.289†	816.3	-0.0010 mg/L	0.00021	-0.0010 mg/L	0.00021	22.38%
Na 330.237†	-1616.9	0.5604 mg/L	0.01796	0.5604 mg/L	0.01796	3.20%
Ca 227.546†	302231.1	533.6 mg/L	3.80	533.6 mg/L	3.80	0.71%
Al RADIAL†	907584.2	507.7 mg/L	1.06	507.7 mg/L	1.06	0.21%
Fe RADIAL†	11543.6	180.4 mg/L	1.90	180.4 mg/L	1.90	1.05%
Ca RADIAL†	631963.6	473.9 mg/L	0.73	473.9 mg/L	0.73	0.15%
K RADIAL†	63.3	0.0488 mg/L	0.01695	0.0488 mg/L	0.01695	34.75%
Mg RADIAL†	45946.0	502.2 mg/L	3.78	502.2 mg/L	3.78	0.75%
Na RADIAL†	9542.8	0.7221 mg/L	0.00695	0.7221 mg/L	0.00695	0.96%

Sequence No.: 137

Sample ID: SEQ-IFB2

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/2/2014 5:18:04 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	13922841.7	4.206 mg/L	0.0399			0.95%
Y RADIAL	174781.3	4.724 mg/L	0.0373			0.79%
As 188.979†	1352.7	0.5568 mg/L	0.00879	0.5568 mg/L	0.00879	1.58%
Tl 190.801†	1725.3	0.4832 mg/L	0.00495	0.4832 mg/L	0.00495	1.02%
Se 196.026†	455.5	0.4838 mg/L	0.00493	0.4838 mg/L	0.00493	1.02%
Zn 206.200†	47493.6	0.9471 mg/L	0.01118	0.9471 mg/L	0.01118	1.18%
Sb 206.836†	2350.4	0.5540 mg/L	0.01177	0.5540 mg/L	0.01177	2.12%
Pb 220.353†	6579.7	0.9044 mg/L	0.00765	0.9044 mg/L	0.00765	0.85%
Cd 226.502†	119231.7	0.9499 mg/L	0.00959	0.9499 mg/L	0.00959	1.01%
Co 228.616†	13156.6	0.4674 mg/L	0.00557	0.4674 mg/L	0.00557	1.19%
Ni 232.003†	20332.6	1.089 mg/L	0.0095	1.089 mg/L	0.0095	0.87%
Ba 233.527†	57900.3	0.5198 mg/L	0.00438	0.5198 mg/L	0.00438	0.84%
Mn 257.610†	297427.5	0.4944 mg/L	0.00476	0.4944 mg/L	0.00476	0.96%
Cr 267.716†	50931.4	0.4860 mg/L	0.00493	0.4860 mg/L	0.00493	1.02%
Fe 273.955†	2653819.1	174.1 mg/L	2.61	174.1 mg/L	2.61	1.50%
Mg 279.077†	6656393.6	504.7 mg/L	6.74	504.7 mg/L	6.74	1.33%

V 292.402†	154537.7	0.4987 mg/L	0.00460	0.4987 mg/L	0.00460	0.92%
Al 308.215†	17385409.3	538.0 mg/L	1.05	538.0 mg/L	1.05	0.19%
Be 313.107†	1911271.8	0.4909 mg/L	0.00837	0.4909 mg/L	0.00837	1.70%
Cu 324.752†	183560.5	0.5268 mg/L	0.00571	0.5268 mg/L	0.00571	1.08%
Ag 338.289†	202230.5	1.146 mg/L	0.0125	1.146 mg/L	0.0125	1.09%
Na 330.237†	-439.9	1.502 mg/L	0.0320	1.502 mg/L	0.0320	2.13%
Ca 227.546†	309937.2	547.2 mg/L	5.63	547.2 mg/L	5.63	1.03%
Al RADIAL†	920078.7	514.7 mg/L	1.34	514.7 mg/L	1.34	0.26%
Fe RADIAL†	11606.8	181.4 mg/L	2.69	181.4 mg/L	2.69	1.49%
Ca RADIAL†	637790.8	478.2 mg/L	1.89	478.2 mg/L	1.89	0.39%
K RADIAL†	42.5	0.0328 mg/L	0.02106	0.0328 mg/L	0.02106	64.29%
Mg RADIAL†	46208.0	505.1 mg/L	6.46	505.1 mg/L	6.46	1.28%
Na RADIAL†	7501.9	0.5677 mg/L	0.00375	0.5677 mg/L	0.00375	0.66%

Sequence No.: 138

Sample ID: SEQ-CCVC

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/2/2014 5:25:40 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCVC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	16538466.4	4.996 mg/L	0.0176			0.35%
Y RADIAL	187125.8	5.058 mg/L	0.0436			0.86%
As 188.979†	623.5	0.2456 mg/L	0.00126	0.2456 mg/L	0.00126	0.51%
Tl 190.801†	976.0	0.2626 mg/L	0.00308	0.2626 mg/L	0.00308	1.17%
Se 196.026†	314.2	0.2528 mg/L	0.00622	0.2528 mg/L	0.00622	2.46%
Zn 206.200†	127109.4	2.585 mg/L	0.0333	2.585 mg/L	0.0333	1.29%
Sb 206.836†	1084.0	0.2591 mg/L	0.00514	0.2591 mg/L	0.00514	1.99%
Pb 220.353†	1902.5	0.2520 mg/L	0.00110	0.2520 mg/L	0.00110	0.44%
Cd 226.502†	15447.1	0.1264 mg/L	0.00111	0.1264 mg/L	0.00111	0.88%
Co 228.616†	70956.5	2.521 mg/L	0.0327	2.521 mg/L	0.0327	1.30%
Ni 232.003†	47997.0	2.504 mg/L	0.0285	2.504 mg/L	0.0285	1.14%
Ba 233.527†	1137865.3	10.22 mg/L	0.128	10.22 mg/L	0.128	1.26%
Mn 257.610†	1517594.4	2.522 mg/L	0.0316	2.522 mg/L	0.0316	1.25%
Cr 267.716†	108705.8	1.037 mg/L	0.0112	1.037 mg/L	0.0112	1.08%
Fe 273.955†	77784.8	5.104 mg/L	0.0454	5.104 mg/L	0.0454	0.89%
Mg 279.077†	328427.9	24.90 mg/L	0.327	24.90 mg/L	0.327	1.31%
V 292.402†	750165.1	2.489 mg/L	0.0308	2.489 mg/L	0.0308	1.24%
Al 308.215†	303876.5	9.403 mg/L	0.1249	9.403 mg/L	0.1249	1.33%
Be 313.107†	956225.1	0.2456 mg/L	0.00285	0.2456 mg/L	0.00285	1.16%
Cu 324.752†	408526.6	1.205 mg/L	0.0138	1.205 mg/L	0.0138	1.15%
Ag 338.289†	214445.4	1.221 mg/L	0.0148	1.221 mg/L	0.0148	1.21%
Na 330.237†	29630.9	22.88 mg/L	0.330	22.88 mg/L	0.330	1.44%
Ca 227.546†	13263.8	23.40 mg/L	0.424	23.40 mg/L	0.424	1.81%
Al RADIAL†	17714.7	9.909 mg/L	0.0449	9.909 mg/L	0.0449	0.45%
Fe RADIAL†	321.9	5.030 mg/L	0.0423	5.030 mg/L	0.0423	0.84%
Ca RADIAL†	33419.2	25.06 mg/L	0.022	25.06 mg/L	0.022	0.09%
K RADIAL†	6258.5	4.822 mg/L	0.0401	4.822 mg/L	0.0401	0.83%
Mg RADIAL†	2313.8	25.29 mg/L	0.299	25.29 mg/L	0.299	1.18%
Na RADIAL†	328134.9	24.83 mg/L	0.306	24.83 mg/L	0.306	1.23%

Sequence No.: 139

Sample ID: SEQ-CCBC

Analyst: MW

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 4/2/2014 5:33:44 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCBC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	17135013.5	5.177 mg/L	0.0576			1.11%
Y RADIAL	189986.3	5.135 mg/L	0.0510			0.99%
As 188.979†	-7.4	-0.0029 mg/L	0.00121	-0.0029 mg/L	0.00121	41.71%
Tl 190.801†	3.5	0.0010 mg/L	0.00112	0.0010 mg/L	0.00112	117.58%
Se 196.026†	4.7	0.0037 mg/L	0.00192	0.0037 mg/L	0.00192	51.71%
Zn 206.200†	-18.6	-0.0004 mg/L	0.00002	-0.0004 mg/L	0.00002	6.14%

Sb 206.836†	2.2	0.0005 mg/L	0.00144	0.0005 mg/L	0.00144	271.01%
Pb 220.353†	-7.3	-0.0010 mg/L	0.00065	-0.0010 mg/L	0.00065	67.15%
Cd 226.502†	15.1	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	22.32%
Co 228.616†	6.1	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	25.68%
Ni 232.003†	28.2	0.0015 mg/L	0.00032	0.0015 mg/L	0.00032	21.87%
Ba 233.527†	8.8	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	67.99%
Mn 257.610†	-22.8	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	64.32%
Cr 267.716†	-5.8	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006	109.33%
Fe 273.955†	16.0	0.0011 mg/L	0.00016	0.0011 mg/L	0.00016	14.97%
Mg 279.077†	1.0	0.0001 mg/L	0.00117	0.0001 mg/L	0.00117	>999.9%
V 292.402†	5.7	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	144.75%
Al 308.215†	-247.3	-0.0077 mg/L	0.00389	-0.0077 mg/L	0.00389	50.79%
Be 313.107†	187.7	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	36.30%
Cu 324.752†	-870.4	-0.0026 mg/L	0.00009	-0.0026 mg/L	0.00009	3.64%
Ag 338.289†	61.0	0.0003 mg/L	0.00036	0.0003 mg/L	0.00036	104.61%
Na 330.237†	-149.0	-0.1147 mg/L	0.00967	-0.1147 mg/L	0.00967	8.43%
Ca 227.546†	10.4	0.0183 mg/L	0.01084	0.0183 mg/L	0.01084	59.41%
Al RADIAL†	-9.3	-0.0052 mg/L	0.00046	-0.0052 mg/L	0.00046	8.78%
Fe RADIAL†	-0.9	-0.0140 mg/L	0.00784	-0.0140 mg/L	0.00784	56.13%
Ca RADIAL†	8.8	0.0066 mg/L	0.00690	0.0066 mg/L	0.00690	104.14%
K RADIAL†	17.6	0.0135 mg/L	0.00746	0.0135 mg/L	0.00746	55.07%
Mg RADIAL†	0.5	0.0059 mg/L	0.02529	0.0059 mg/L	0.02529	429.64%
Na RADIAL†	-1520.1	-0.1150 mg/L	0.00298	-0.1150 mg/L	0.00298	2.59%

York Analytical Laboratories, Inc.

SDG: 14C0922

CLASS: HG

METHOD: EPA 7473

DATA PACKAGE COVER PAGE

EPA 7473

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Client Sample Id:

KC-MW-01 0314

KC-MW-02 0314

KC-MW-05 0314

KC-FD-01

Lab Sample Id:

14C0922-01

14C0922-02

14C0922-03

14C0922-04

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 computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature:



Name:

Benjamin Gulizia

Date:

5/8/2014

Title:

Laboratory Director

FORM I

INORGANIC ANALYSIS DATA SHEET

KC-MW-01 0314

EPA 7473

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 14C0922-01

File ID:

Sampled: 03/26/14 18:40Prepared: 04/01/14 07:01Analyzed: 04/01/14 12:47Solids: 0.00Preparation: EPA 7473 waterInitial/Final: 0.1 mL / 0.1 mLBatch: BD40004

Sequence:

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I

INORGANIC ANALYSIS DATA SHEET

KC-MW-02 0314

EPA 7473

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 14C0922-02

File ID:

Sampled: 03/26/14 18:20Prepared: 04/01/14 07:01Analyzed: 04/01/14 12:47Solids: 0.00Preparation: EPA 7473 waterInitial/Final: 0.1 mL / 0.1 mLBatch: BD40004

Sequence:

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I

INORGANIC ANALYSIS DATA SHEET

KC-MW-05 0314

EPA 7473

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 14C0922-03

File ID:

Sampled: 03/26/14 18:00Prepared: 04/01/14 07:01Analyzed: 04/01/14 12:47Solids: 0.00Preparation: EPA 7473 waterInitial/Final: 0.1 mL / 0.1 mLBatch: BD40004

Sequence:

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I

INORGANIC ANALYSIS DATA SHEET

KC-FD-01

EPA 7473

Laboratory: York Analytical Laboratories, Inc.SDG: 14C0922Client: Chazen Environmental Services (Poughkeepsie)Project: 41103.00 Kingston CVSMatrix: WaterLaboratory ID: 14C0922-04

File ID:

Sampled: 03/26/14 15:00Prepared: 04/01/14 07:01Analyzed: 04/01/14 12:47Solids: 0.00Preparation: EPA 7473 waterInitial/Final: 0.1 mL / 0.1 mLBatch: BD40004

Sequence:

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

Form 2A
CONTINUING CALIBRATION VERIFICATION (Hg)

Lab Name: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services
(Poughkeepsie)

Project: 41103.00 Kingston CVS

I Cal Source: Inorganic Ventures

Sequence: QBHg033114

C Cal Source: Absolute Standards

Concentration units: mg/kG

Analyte	TRUE	CCV 2		TRUE	CCV 3			
		FOUND	%R(1)		FOUND	% R(1)		
Mercury	10.00000	10.10230	101.0	10.00000	8.44500	84.5		

(1) Control Limits Hg 80-120 %

**Form 3
BLANKS**

Lab Name: York Analytical Laboratories, Inc

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Preparation Blank Matrix: Aqueous

Prep Blank ID: BD40004-BLK1

Prep. Blank Conc. Units: ug/l

Sequence ID: QBHg033114

Analyte	Continuing Calibration Blanks (mg/kg)								Preparation Blank Result	C	M
	2	C	3	C							
Mercury	0.05000	U	0.05000	U					0.05000	U	CV

STANDARD REFERENCE MATERIAL RECOVERY

EPA 7473

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: General Bid 2010

Matrix: Water

Batch: BD40004

Laboratory ID: BD40004-SRM1

Preparation: EPA 7473 water

Initial/Final: 0.1 mL / 0.1 mL

ANALYTE	TRUE (mg/kg)	FOUND (mg/kg)	SRM % REC.	QC LIMITS REC.
Mercury	0.00230	0.00192	83.6	61.3 - 135

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 7473

KC-MW-01 0314

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
 Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
 Matrix: Water
 Batch: BD40004 Laboratory ID: BD40004-MS1
 Preparation: EPA 7473 water Initial/Final: 0.1 mL / 0.1 mL
 Source Sample Name: KC-MW-01 0314

COMPOUND	SPIKE ADDED (mg/kg)	SAMPLE CONCENTRATION (mg/kg)	MS CONCENTRATION (mg/kg)	MS % REC. #	QC LIMITS REC.
Mercury	0.00200	ND	0.00171	85.4	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

DUPLICATES

EPA 7473

KC-MW-01 0314

Laboratory: York Analytical Laboratories, Inc.

SDG: 14C0922

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 Kingston CVS

Matrix: Water

Laboratory ID: BD40004-DUP1

Batch: BD40004

Lab Source ID: 14C0922-01

Preparation: EPA 7473 water

Initial/Final: 0.1 mL / 0.1 mL

Source Sample Name: KC-MW-01 0314

% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Mercury	20	ND		ND				EPA 7473

* Values outside of QC limits

Empty PDFFilePath marker encountered

FORM IV**PREPARATION BATCH SUMMARY****EPA 7473**

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Batch: BD40004 Batch Matrix: Water Preparation: EPA 7473 water

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 0314	14C0922-01		04/01/14 07:01	
KC-MW-02 0314	14C0922-02		04/01/14 07:01	
KC-MW-05 0314	14C0922-03		04/01/14 07:01	
KC-FD-01	14C0922-04		04/01/14 07:01	
Blank	BD40004-BLK1		04/01/14 07:01	
KC-MW-01 0314	BD40004-DUP1		04/01/14 07:01	
KC-MW-01 0314	BD40004-MS1		04/01/14 07:01	
Reference	BD40004-SRM1		04/01/14 07:01	

FORM V**ANALYSIS BATCH (SEQUENCE) SUMMARY****EPA 7473**

Laboratory: York Analytical Laboratories, Inc. SDG: 14C0922
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 Kingston CVS
Sequence: Instrument:
 Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Reference	BD40004-SRM1		04/01/14 12:47
KC-MW-01 0314	BD40004-MS1		04/01/14 12:47
KC-MW-05 0314	14C0922-03		04/01/14 12:47
KC-MW-02 0314	14C0922-02		04/01/14 12:47
KC-MW-01 0314	14C0922-01		04/01/14 12:47
KC-FD-01	14C0922-04		04/01/14 12:47
KC-MW-01 0314	BD40004-DUP1		04/01/14 12:47
Blank	BD40004-BLK1		04/01/14 12:47



s	Sample name Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
1	AQ BLK	0.5000 g		31.03.2014 06:55:22	✓	0.0046	0.0477	0.0955	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
2	0.5 ng CCV-1	0.0501 g		31.03.2014 07:06:23	✓	0.0443	0.5619	11.2153	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
3	AQ BLK	0.5000 g		31.03.2014 07:16:01	✓	0.0016	0.0089	0.0179	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
4	CCB-1	0.5000 g		31.03.2014 07:16:06	✓	0.0005	0.0000	0.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
5	BC41239-BLK1	0.5000 g		31.03.2014 07:16:13	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
6	BC41239-BLK1	0.5000 g		31.03.2014 07:16:21	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
7	BC41239-BLK1	0.5000 g		31.03.2014 07:16:24	✓	0.0017	0.0102	0.0068	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
8	BC41239-SRM1	0.1010 g		31.03.2014 08:09:18	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
9	BC41239-SRM1	0.1004 g		31.03.2014 08:09:22	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
10	BC41239-SRM1	0.1009 g		31.03.2014 08:09:25	✓	0.0623	0.7957	2.6323	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
11	AQ BLK	0.5000 g		31.03.2014 08:42:54	✓	0.0012	0.0042	0.0083	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
12	AQ BLK	0.5000 g		31.03.2014 08:43:25	✓	0.0008	0.0000	0.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
13	14C0859-01	0.5000 g		31.03.2014 08:43:29	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14	14C0859-01	0.5000 g		31.03.2014 08:43:54	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
15	14C0859-01	0.5000 g		31.03.2014 08:43:57	✓	0.0023	0.0187	0.0124	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
16	BC41239-DUP1	0.5000 g		31.03.2014 08:44:08	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
17	BC41239-DUP1	0.5000 g		31.03.2014 08:44:12	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
18	BC41239-DUP1	0.5000 g		31.03.2014 08:44:15	✓	0.0027	0.0238	0.0159	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
19	BC41239-MS1	0.5000 g		31.03.2014 10:07:16	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
20	BC41239-MS1	0.5000 g		31.03.2014 10:07:22	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
21	BC41239-MS1	0.5000 g		31.03.2014 10:07:24	✓	0.1050	1.3492	0.8995	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
22	BC41239-MS1	0.5000 g		31.03.2014 10:38:25	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
23	BC41239-MS1	0.5000 g		31.03.2014 10:38:27	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
24	BC41239-MS1	0.5000 g		31.03.2014 10:38:28	✓	0.0722	0.9236	0.6157	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013



Sample name	Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
14C0859-01	AQ BLK	0.5000	g	31.03.2014 10:50:03	✓	0.0017	0.0102	0.0205	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-02		0.5000	g	31.03.2014 10:50:10	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-02		0.5000	g	31.03.2014 10:50:18	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-02		0.5000	g	31.03.2014 10:50:22	✓	0.0013	0.0055	0.0036	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-03		0.5000	g	31.03.2014 10:50:39	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-03		0.5000	g	31.03.2014 10:50:41	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-03		0.5000	g	31.03.2014 10:50:44	✓	0.0045	0.0466	0.0311	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-04		0.5000	g	31.03.2014 10:50:47	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-04		0.5000	g	31.03.2014 10:50:51	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-04		0.5000	g	31.03.2014 10:50:55	✓	0.0029	0.0263	0.0175	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-05		0.5000	g	31.03.2014 10:50:59	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-05		0.5000	g	31.03.2014 10:51:02	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-05		0.5000	g	31.03.2014 10:51:05	✓	0.0036	0.0354	0.0236	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-06		0.5000	g	31.03.2014 10:51:44	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-06		0.5000	g	31.03.2014 10:51:46	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-06		0.5000	g	31.03.2014 10:51:49	✓	0.0042	0.0431	0.0287	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-07		0.5000	g	31.03.2014 10:51:53	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-07		0.5000	g	31.03.2014 10:51:55	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-07		0.5000	g	31.03.2014 10:51:59	✓	0.0031	0.0289	0.0193	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-08		0.5000	g	31.03.2014 10:52:05	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-08		0.5000	g	31.03.2014 10:52:11	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-08		0.5000	g	31.03.2014 10:52:14	✓	0.0018	0.0111	0.0074	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-09		0.5000	g	31.03.2014 10:52:51	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0859-09		0.5000	g	31.03.2014 10:52:55	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013

Pos	Sample name	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
	14C0859-09	0.5000	g	31.03.2014 10:53:00	✓	0.0020	0.0143	0.0095	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-10	0.5000	g	31.03.2014 13:03:50	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-10	0.5000	g	31.03.2014 13:03:50	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-10	0.5000	g	31.03.2014 13:03:53	✓	0.0021	0.0159	0.0106	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-11	0.5000	g	31.03.2014 13:03:56	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-11	0.5000	g	31.03.2014 13:03:56	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-11	0.5000	g	31.03.2014 13:03:59	✓	0.0019	0.0128	0.0086	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-12	0.5000	g	31.03.2014 13:04:06	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-12	0.5000	g	31.03.2014 13:04:06	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-12	0.5000	g	31.03.2014 13:04:10	✓	0.0008	0.0000	0.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-13	0.5000	g	31.03.2014 13:58:52	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-13	0.5000	g	31.03.2014 13:58:52	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-13	0.5000	g	31.03.2014 13:58:55	✓	0.0016	0.0089	0.0060	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-14	0.5000	g	31.03.2014 13:58:58	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-14	0.5000	g	31.03.2014 13:58:59	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0859-14	0.5000	g	31.03.2014 13:59:02	✓	0.0019	0.0128	0.0086	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	AQ BLK	0.5000	g	01.04.2014 06:52:40	✓	0.0022	0.0164	0.0328	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	0.5 ng CCV-2	0.0502	g	01.04.2014 07:12:35	✓	0.0400	0.5071	10.1023	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	AQ BLK	0.5000	g	01.04.2014 07:22:35	✓	0.0019	0.0133	0.0266	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	CCV-2	0.5000	g	01.04.2014 07:22:40	✓	0.0007	0.0000	0.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	BD 0004-BLK	0.4000	g	01.04.2014 07:22:48	✓	0.0006	0.0000	0.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	BD 0004-BLK1	0.1010	g	01.04.2014 07:54:22	✓	0.0159	0.1943	1.9237	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	BD 0004-SRM1	0.4000	g	01.04.2014 08:06:49	✓	0.0007	0.0000	0.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	AQ BLK	0.4000	g	01.04.2014 08:06:54	✓	0.0006	0.0000	0.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	14C0922-01	0.4000	g	01.04.2014 08:06:54	✓	0.0006	0.0000	0.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
	TOTAL										



Sample Name	Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
BD40004-DUP1		0.4000 g		01.04.2014 08:07:04	✓	0.0005	0.0000	0.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
BD40004-MS1		0.4000 g		01.04.2014 08:38:36	✓	0.0536	0.6830	1.7074	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
AQ BLK		0.4000 g		01.04.2014 08:48:14	✓	0.0017	0.0102	0.0256	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0922-02 TOTAL		0.4000 g		01.04.2014 08:48:19	✓	0.0007	0.0000	0.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0922-03 TOTAL		0.4000 g		01.04.2014 08:48:33	✓	0.0006	0.0000	0.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0922-04 TOTAL		0.4000 g		01.04.2014 08:53:25	✓	0.0008	0.0000	0.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0941-01 TOTAL		0.4000 g		01.04.2014 08:53:34	✓	0.0010	0.0016	0.0041	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0941-02 TOTAL		0.4000 g		01.04.2014 08:53:39	✓	0.0014	0.0063	0.0159	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0963-01 TOTAL		0.4000 g		01.04.2014 08:53:48	✓	0.0024	0.0187	0.0468	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0980-01 TOTAL		0.4000 g		01.04.2014 08:53:54	✓	0.0016	0.0094	0.0236	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0980-02 TOTAL		0.4000 g		01.04.2014 08:53:59	✓	0.0010	0.0012	0.0029	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0987-01 TOTAL		0.4000 g		01.04.2014 08:54:06	✓	0.0016	0.0095	0.0237	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0987-02 TOTAL		0.4000 g		01.04.2014 08:54:13	✓	0.0024	0.0197	0.0494	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0992-01 TOTAL		0.4000 g		01.04.2014 08:54:18	✓	0.0008	0.0000	0.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0941-01 DISSOLVED		0.4000 g		01.04.2014 09:05:20	✓	0.0011	0.0027	0.0068	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0941-02 DISSOLVED		0.4000 g		01.04.2014 09:05:28	✓	0.0023	0.0186	0.0465	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
0.5 ng CCV-3		0.0501 g		01.04.2014 11:27:52	✓	0.0336	0.4231	8.4450	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
CCB-3		0.4000 g		01.04.2014 11:38:33	✓	0.0035	0.0330	0.0825	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0980-01		0.4000 g		01.04.2014 11:38:43	✓	0.0013	0.0046	0.0116	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0980-02		0.4000 g		01.04.2014 11:38:54	✓	0.0012	0.0043	0.0108	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0987-01		0.4000 g		01.04.2014 11:38:58	✓	0.0015	0.0081	0.0203	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14C0987-02		0.4000 g		01.04.2014 11:39:03	✓	0.0012	0.0041	0.0103	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
BD40014-BLK1		0.5000 g		01.04.2014 11:39:22	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
BD40014-BLK1		0.5000 g		01.04.2014 11:39:39	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013



Sample name	Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
BD40014-BLK1		0.5000 g		01.04.2014 11:39:41	✓	0.0017	0.0098	0.0065	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
BD40014-SRM1		0.1003 g		01.04.2014 13:03:07	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
BD40014-SRM1		0.1007 g		01.04.2014 13:03:13	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
BD40014-SRM1		0.1010 g		01.04.2014 13:03:15	✓	0.0526	0.6695	2.2170	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
AQ BLK		0.5000 g		01.04.2014 13:36:16	✓	0.0014	0.0067	0.0134	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0885-01		0.5000 g		01.04.2014 13:36:22	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0885-01		0.5000 g		01.04.2014 13:36:31	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0885-01		0.5000 g		01.04.2014 13:36:34	✓	0.0023	0.0186	0.0124	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
BD40014-DUP1		0.5000 g		01.04.2014 13:36:49	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
BD40014-DUP1		0.5000 g		01.04.2014 13:36:54	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
BD40014-DUP1		0.5000 g		01.04.2014 13:36:56	✓	0.0011	0.0018	0.0012	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
BD40014-MS1		0.5000 g		01.04.2014 14:49:40	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
BD40014-MS1		0.5000 g		01.04.2014 14:50:17	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
BD40014-MS1		0.5000 g		01.04.2014 14:50:21	✓	0.0935	1.1998	0.7998	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
BD40014-MS1		0.5000 g		01.04.2014 15:21:54	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
BD40014-MS1		0.5000 g		01.04.2014 15:22:00	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
BD40014-MS1 RE-RUN		0.5000 g		01.04.2014 15:22:04	✓	0.0709	0.9066	0.6044	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
AQ BLK		0.5000 g		01.04.2014 15:26:31	✓	0.0019	0.0133	0.0265	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0885-02		0.5000 g		01.04.2014 15:26:43	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0885-02		0.5000 g		01.04.2014 15:26:51	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0885-02		0.5000 g		01.04.2014 15:26:56	✓	0.0037	0.0367	0.0244	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0885-03		0.5000 g		01.04.2014 15:26:59	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0885-03		0.5000 g		01.04.2014 15:27:02	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14C0885-03		0.5000 g		01.04.2014 15:27:05	✓	0.0048	0.0504	0.0336	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013



Sl. No.	Sample Name	Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
1	14C0885-04		0.5000	g	01.04.2014 15:27:08	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
2	14C0885-04		0.5000	g	01.04.2014 15:27:11	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
3	14C0885-04		0.5000	g	01.04.2014 15:27:14	✓	0.0021	0.0159	0.0106	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
4	14C0885-05		0.5000	g	01.04.2014 15:27:42	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
5	14C0885-05		0.5000	g	01.04.2014 15:27:45	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
6	14C0885-05		0.5000	g	01.04.2014 15:27:50	✓	0.0038	0.0375	0.0250	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
7	14C0885-06		0.5000	g	01.04.2014 15:27:56	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
8	14C0885-06		0.5000	g	01.04.2014 15:28:01	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
9	14C0885-06		0.5000	g	01.04.2014 15:28:04	✓	0.0038	0.0381	0.0254	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
10	14C0885-07		0.5000	g	01.04.2014 15:28:07	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
1	14C0885-07		0.5000	g	01.04.2014 15:28:09	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
2	14C0885-07		0.5000	g	01.04.2014 15:28:12	✓	0.0036	0.0355	0.0237	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
3	14C0885-08		0.5000	g	01.04.2014 15:28:41	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
4	14C0885-08		0.5000	g	01.04.2014 15:28:43	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
5	14C0885-08		0.5000	g	01.04.2014 15:28:45	✓	0.0043	0.0439	0.0293	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
6	AQ BLK		0.5000	g	02.04.2014 06:43:17	✓	0.0029	0.0254	0.0507	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
7	0.5 ng CCV-4		0.0502	g	02.04.2014 06:52:11	✓	0.0331	0.4174	8.3141	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
8	AQ BLK		0.5000	g	02.04.2014 07:03:15	✓	0.0016	0.0089	0.0179	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
9	CCB-4		0.5000	g	02.04.2014 07:03:21	✓	0.0007	0.0000	0.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
10	BD40068-BLK1		0.5000	g	02.04.2014 07:03:29	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
1	BD40068-BLK1		0.5000	g	02.04.2014 07:03:44	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
2	BD40068-BLK1		0.5000	g	02.04.2014 07:03:47	✓	0.0009	0.0004	0.0003	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
3	BD40068-SRM1		0.1009	g	02.04.2014 09:35:02	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
4	BD40068-SRM1		0.1019	g	02.04.2014 09:35:06	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013



Sample Name	Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
5	BD40068-SRM1	0.1010	g	02.04.2014 09:35:09	✓	0.0437	0.5541	1.8240	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
6	AQ BLK	0.5000	g	02.04.2014 10:05:24	✓	0.0019	0.0132	0.0264	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
7	14C0949-01	0.5000	g	02.04.2014 10:05:32	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
8	14C0949-01	0.5000	g	02.04.2014 10:05:42	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
9	14C0949-01	0.5000	g	02.04.2014 10:05:45	✓	0.0025	0.0206	0.0137	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
10	BD40068-DUP1	0.5000	g	02.04.2014 10:05:55	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
11	BD40068-DUP1	0.5000	g	02.04.2014 10:06:01	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
12	BD40068-DUP1	0.5000	g	02.04.2014 10:06:03	✓	0.0029	0.0263	0.0175	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
13	BD40068-MS1	0.5000	g	02.04.2014 11:20:09	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14	BD40068-MS1	0.5000	g	02.04.2014 11:20:18	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
15	BD40068-MS1	0.5000	g	02.04.2014 11:20:20	✓	0.1208	1.5537	1.0358	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
16	BD40068-MS1	0.5000	g	02.04.2014 11:53:20	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
17	BD40068-MS1	0.5000	g	02.04.2014 11:53:25	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
18	BD40068-MS1	0.5000	g	02.04.2014 11:53:25	✓	0.0571	0.7277	0.4852	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
19	AQ BLK	0.5000	g	02.04.2014 12:24:26	✓	0.0026	0.0224	0.0449	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
20	14C0949-02	0.5000	g	02.04.2014 12:24:40	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
21	14C0949-02	0.5000	g	02.04.2014 12:24:49	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
22	14C0949-02	0.5000	g	02.04.2014 12:24:52	✓	0.0034	0.0319	0.0213	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
23	14C0949-03	0.5000	g	02.04.2014 12:24:55	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
24	14C0949-03	0.5000	g	02.04.2014 12:24:58	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
25	14C0949-03	0.5000	g	02.04.2014 12:25:00	✓	0.0030	0.0271	0.0181	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
26	14C0949-04	0.5000	g	02.04.2014 12:25:04	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
27	14C0949-04	0.5000	g	02.04.2014 12:25:10	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
28	14C0949-04	0.5000	g	02.04.2014 12:25:14	✓	0.0034	0.0328	0.0219	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013



S	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
1	14C0949-05	0.5000	g	02.04.2014 12:25:18	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
2	14C0949-05	0.5000	g	02.04.2014 12:25:21	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
3	14C0949-05	0.5000	g	02.04.2014 12:25:25	✓	0.0034	0.0327	0.0218	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
4	14C0949-06	0.5000	g	02.04.2014 12:25:29	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
5	14C0949-06	0.5000	g	02.04.2014 12:25:31	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
6	14C0949-06	0.5000	g	02.04.2014 12:25:34	✓	0.0037	0.0367	0.0245	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
7	14C0949-07	0.5000	g	02.04.2014 12:25:37	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
8	14C0949-07	0.5000	g	02.04.2014 12:25:40	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
9	14C0949-07	0.5000	g	02.04.2014 12:25:43	✓	0.0033	0.0315	0.0210	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
10	14C0949-08	0.5000	g	02.04.2014 12:25:47	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
11	14C0949-08	0.5000	g	02.04.2014 12:25:50	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
12	14C0949-08	0.5000	g	02.04.2014 12:25:53	✓	0.0018	0.0119	0.0079	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
13	14C0949-09	0.5000	g	02.04.2014 12:25:57	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
14	14C0949-09	0.5000	g	02.04.2014 12:25:59	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
15	14C0949-09	0.5000	g	02.04.2014 12:26:02	✓	0.0009	0.0002	0.0002	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
16	14C0949-10	0.5000	g	02.04.2014 13:27:33	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
17	14C0949-10	0.5000	g	02.04.2014 13:27:35	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
18	14C0949-10	0.5000	g	02.04.2014 13:27:37	✓	0.0019	0.0132	0.0088	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
19	14C0949-11	0.5000	g	02.04.2014 13:27:39	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
20	14C0949-11	0.5000	g	02.04.2014 13:27:39	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
21	14C0949-11	0.5000	g	02.04.2014 13:27:42	✓	0.0019	0.0128	0.0086	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
22	14C0949-12	0.5000	g	02.04.2014 13:56:52	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
23	14C0949-12	0.5000	g	02.04.2014 13:56:53	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
24	14C0949-12	0.5000	g	02.04.2014 13:56:55	✓	0.0041	0.0419	0.0279	1.0000	ical 022114 LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013



Sl. No.	Sample Name	Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
3	0.5 ng CCV-5		0.5001 g		02.04.2014 18:35:06	✓	0.0320	0.4030	8.0437	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
4	CCB-5		0.5000 g		02.04.2014 18:45:33	✓	0.0048	0.0510	0.1021	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
5	14C0949-13		0.5000 g		02.04.2014 18:45:39	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
6	14C0949-13		0.5000 g		02.04.2014 18:45:49	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
7	14C0949-13		0.5000 g		02.04.2014 18:45:52	✓	0.0025	0.0200	0.0133	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
8	14C0949-14		0.5000 g		02.04.2014 18:46:06	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
9	14C0949-14		0.5000 g		02.04.2014 18:46:06	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
10	14C0949-14		0.5000 g		02.04.2014 18:46:09	✓	0.0016	0.0089	0.0060	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
11	14C0949-15		0.5000 g		02.04.2014 18:46:11	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
12	14C0949-15		0.5000 g		02.04.2014 18:46:12	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
13	14C0949-15		0.5000 g		02.04.2014 18:46:14	✓	0.0013	0.0049	0.0033	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
14	14C0949-16		0.5000 g		02.04.2014 18:46:18	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
15	14C0949-16		0.5000 g		02.04.2014 18:46:18	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
16	14C0949-16		0.5000 g		02.04.2014 18:46:20	✓	0.0006	0.0000	0.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
17	14C0949-17		0.5000 g		02.04.2014 18:46:48	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
18	14C0949-17		0.5000 g		02.04.2014 18:46:48	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
19	14C0949-17		0.5000 g		02.04.2014 18:46:51	✓	0.0019	0.0128	0.0086	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
20	14C0949-18		0.5000 g		02.04.2014 18:46:54	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
1	14C0949-18		0.5000 g		02.04.2014 18:46:54	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
2	14C0949-18		0.5000 g		02.04.2014 18:47:03	✓	0.0021	0.0154	0.0103	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
3	14C0949-19		0.5000 g		02.04.2014 18:47:07	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
4	14C0949-19		0.5000 g		02.04.2014 18:47:07	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
5	14C0949-19		0.5000 g		02.04.2014 18:47:10	✓	0.0020	0.0146	0.0097	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013
6	14C0949-20		0.5000 g		02.04.2014 18:47:34	✓	0.0000	0.0000	10.0000	1.0000	ical 022114 LLaq c80 21.02.2014 10:24:36	aq samples m80 18.11.2013



Sample ID	Sample Name	Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
7	14C0949-20		0.5000 g		02.04.2014 18:47:35	✓	0.0000	0.0000	10.0000	1.0000	ical 022114.LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
8	14C0949-20		0.5000 g		02.04.2014 18:47:38	✓	0.0022	0.0167	0.0111	1.0000	ical 022114.LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
9	AQ BLK		0.5000 g		03.04.2014 06:44:46	✓	0.0026	0.0217	0.0433	1.0000	ical 022114.LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
10	0.5 ng CCV-6		0.0503 g		03.04.2014 06:54:57	✓	0.0388	0.4911	9.7641	1.0000	ical 022114.LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
11	AQ BLK		0.5000 g		03.04.2014 07:04:11	✓	0.0010	0.0012	0.0023	1.0000	ical 022114.LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013
12	CCB-6		0.5000 g		03.04.2014 07:04:16	✓	0.0006	0.0000	0.0000	1.0000	ical 022114.LLaq.c80 21.02.2014 10:24:36	aq samples.m80 18.11.2013



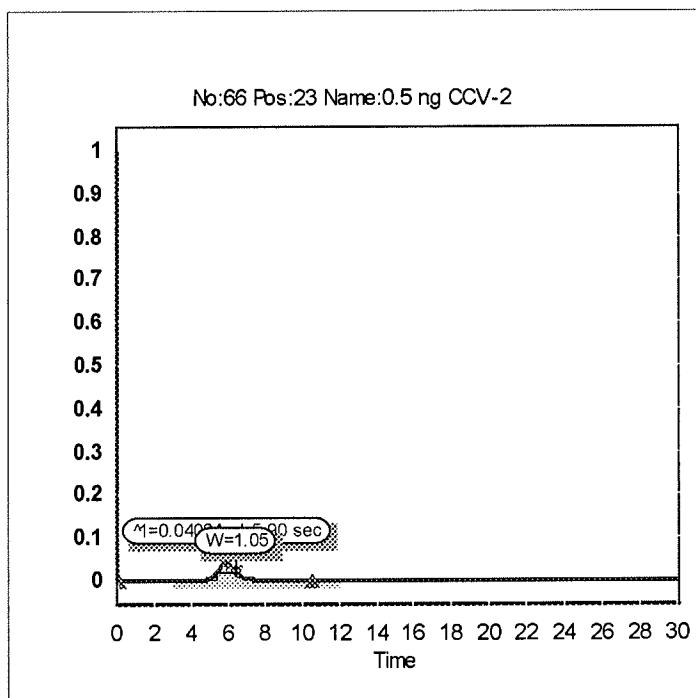
DMA Result Report

Created by: Administrator

5/10/2014 7:10:28 AM

Signal curve

E:\Data\OLD DMA RUNS\MAR 2014\QBHgDMA80-033114A.d80



Parameters

Position 66

Remarks

Method File

aq samples.m80

18.11.2013

Temperature

Max. start T 225

Purge time 250

Amalgamator heating time 12

Signal recording time 30

Weight of sample 0.0502 g

Calibration file ical 022114 LLaq.c80 21.02.2014 10:24:36

Calibration factor 1.0000

Results

Status o.k.

Height 0.0400

Concentration 10.1023 [µg/kg]

Absolute amount of Hg 0.5071 ng



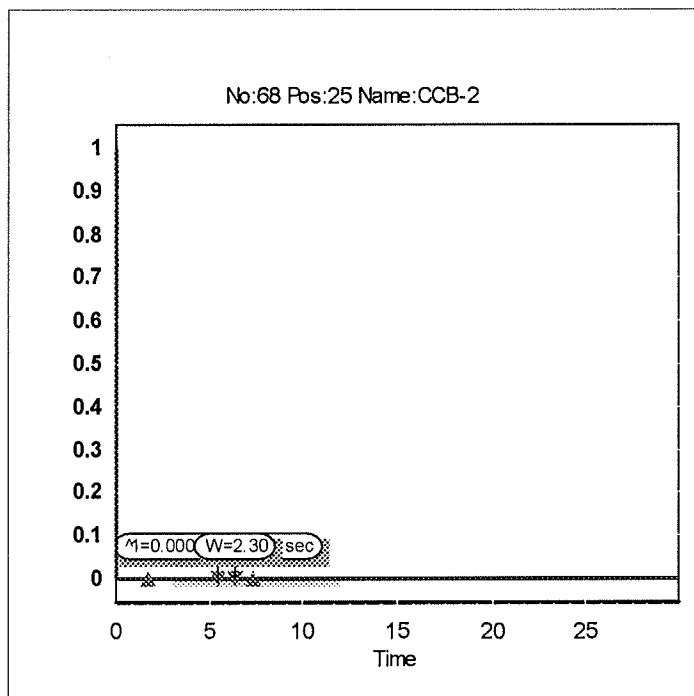
DMA Result Report

Created by: Administrator

5/10/2014 7:10:34 AM

Signal curve

E:\Data\OLD DMA RUNS\MAR 2014\QBHgDMA80-033114A.d80



Parameters

Position 68

Remarks

Method File

aq samples.m80

18.11.2013

Temperature

Max. start T 225

Purge time 250

Amalgamator heating time 12

Signal recording time 30

Weight of sample 0.5000 g

Calibration file ical.022114.LLaq.c80 21.02.2014 10:24:36

Calibration factor 1.0000

Results

Status o.k.

Height 0.0007

Concentration 0.0000 [µg/kg]

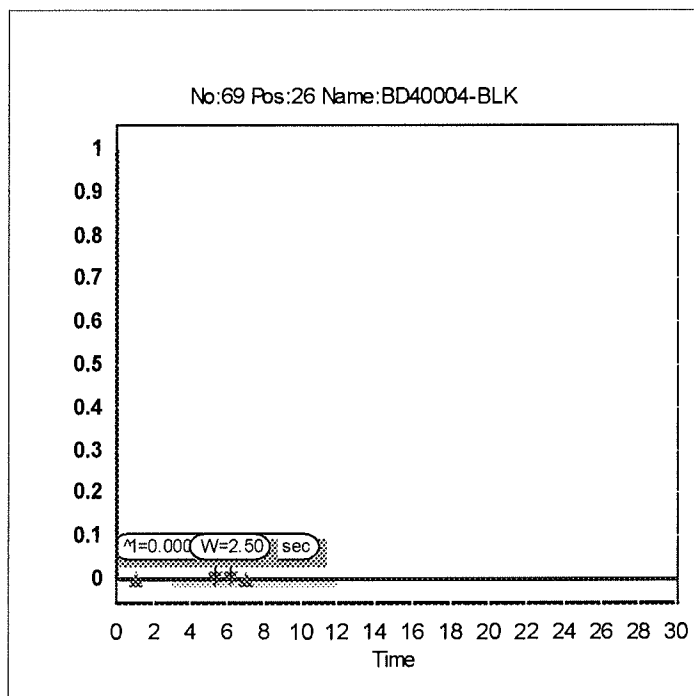
Absolute amount of Hg 0.0000 ng



DMA Result Report

Created by: Administrator
5/10/2014 7:10:39 AM

Signal curve E:\Data\OLD DMA RUNS\MAR 2014\QBHgDMA80-033114A.d80



Parameters

Position 69

Remarks BD40004-BLK1

Method File aq samples.m80 18.11.2013

Temperature

Max. start T 225

Purge time 250

Amalgamator heating time 12

Signal recording time 30

Weight of sample 0.4000 g

Calibration file ical 022114 LLaq.c80 21.02.2014 10:24:36

Calibration factor 1.0000

Results

Status o.k.

Height 0.0006

Concentration 0.0000 [µg/kg]

Absolute amount of Hg 0.0000 ng

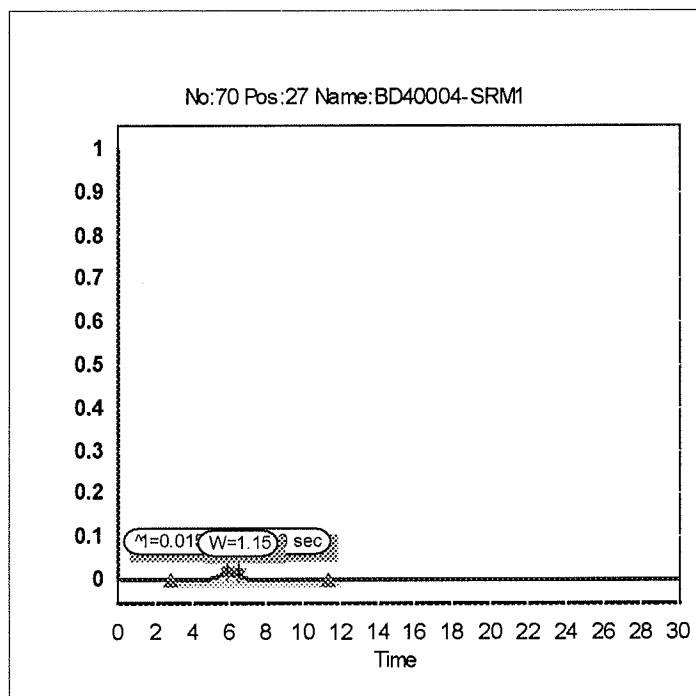


DMA Result Report

Created by: Administrator
5/10/2014 7:10:45 AM

Signal curve

E:\Data\OLD DMA RUNS\MAR 2014\QBHgDMA80-033114A.d80



Parameters

Position 70

Remarks

Method File aq samples.m80 18.11.2013

Temperature

Max. start T 225

Purge time 250

Amalgamator heating time 12

Signal recording time 30

Weight of sample 0.1010 g

Calibration file ical 022114 LLaq.c80 21.02.2014 10:24:36

Calibration factor 1.0000

Results

Status o.k.

Height 0.0159

Concentration 1.9237 $\mu\text{g/kg}$

Absolute amount of Hg 0.1943 ng



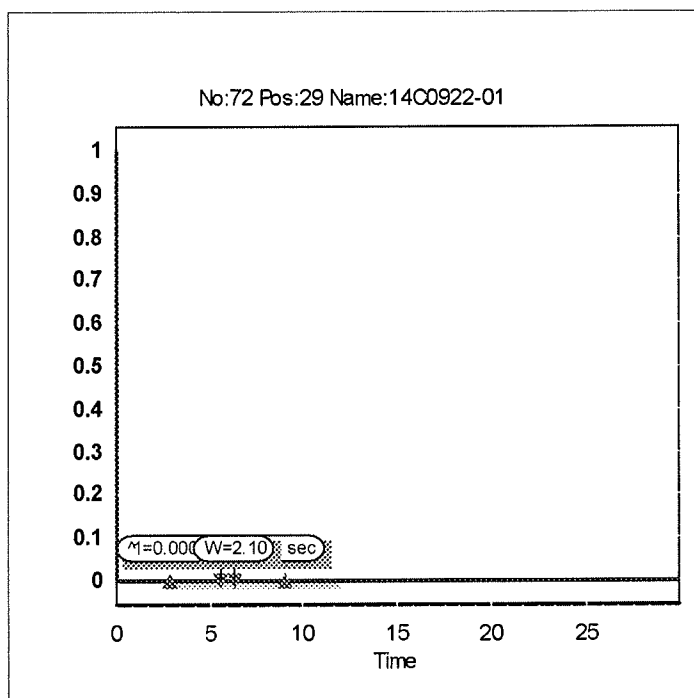
DMA Result Report

Created by: Administrator

5/10/2014 7:10:51 AM

Signal curve

E:\Data\OLD DMA RUNS\MAR 2014\QBHgDMA80-033114A.d80



Parameters

Position 72

Remarks TOTAL

Method File aq samples.m80 18.11.2013

Temperature

Max. start T 225

Purge time 250

Amalgamator heating time 12

Signal recording time 30

Weight of sample 0.4000 g

Calibration file ical 022114 LLaq.c80 21.02.2014 10:24:36

Calibration factor 1.0000

Results

Status o.k.

Height 0.0006

Concentration 0.0000 $\mu\text{g/kg}$

Absolute amount of Hg 0.0000 ng



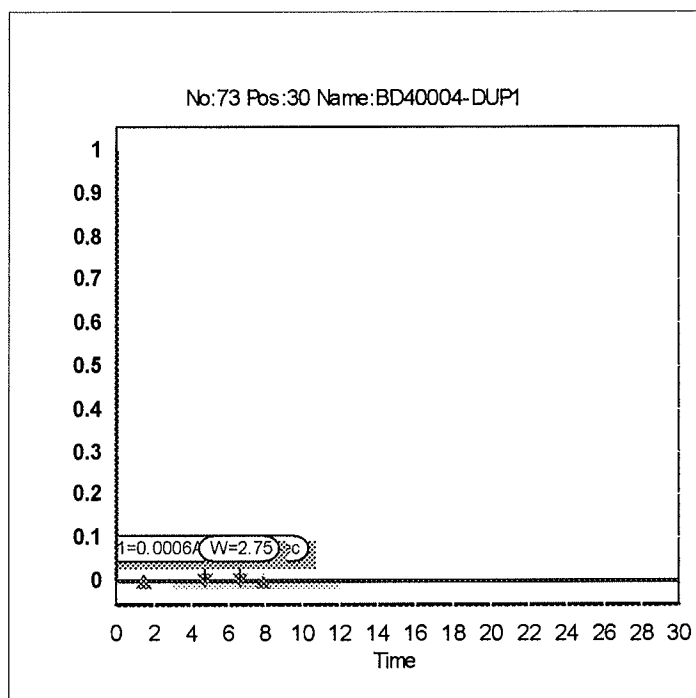
DMA Result Report

Created by: Administrator

5/10/2014 7:10:57 AM

Signal curve

E:\Data\OLD DMA RUNS\MAR 2014\QBHgDMA80-033114A.d80



Parameters

Position 73

Remarks

Method File

aq samples.m80

18.11.2013

Temperature

Max. start T 225

Purge time 250

Amalgamator heating time 12

Signal recording time 30

Weight of sample 0.4000 g

Calibration file ical 022114 LLaq.c80 21.02.2014 10:24:36

Calibration factor 1.0000

Results

Status o.k.

Height 0.0005

Concentration 0.0000 [µg/kg]

Absolute amount of Hg 0.0000 ng

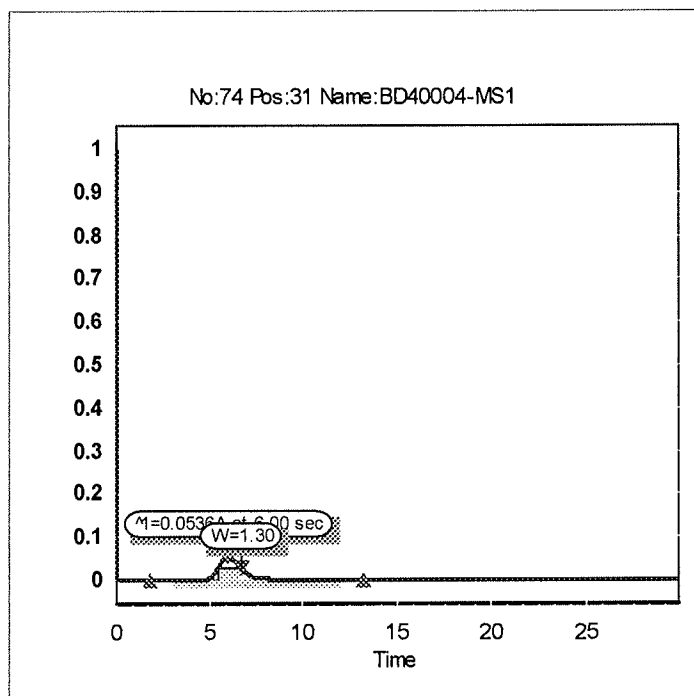


DMA Result Report

Created by: Administrator

5/10/2014 7:11:03 AM

Signal curve E:\Data\OLD DMA RUNS\MAR 2014\QBHgDMA80-033114A.d80



Parameters

Position 74

Remarks

Method File aq samples.m80 18.11.2013

Temperature

Max. start T 225

Purge time 250

Amalgamator heating time 12

Signal recording time 30

Weight of sample 0.4000 g

Calibration file ical 022114 LLaq.c80 21.02.2014 10:24:36

Calibration factor 1.0000

Results

Status o.k

Height 0.0536

Concentration 1.7074 [µg/kg]

Absolute amount of Hg 0.6830 ng



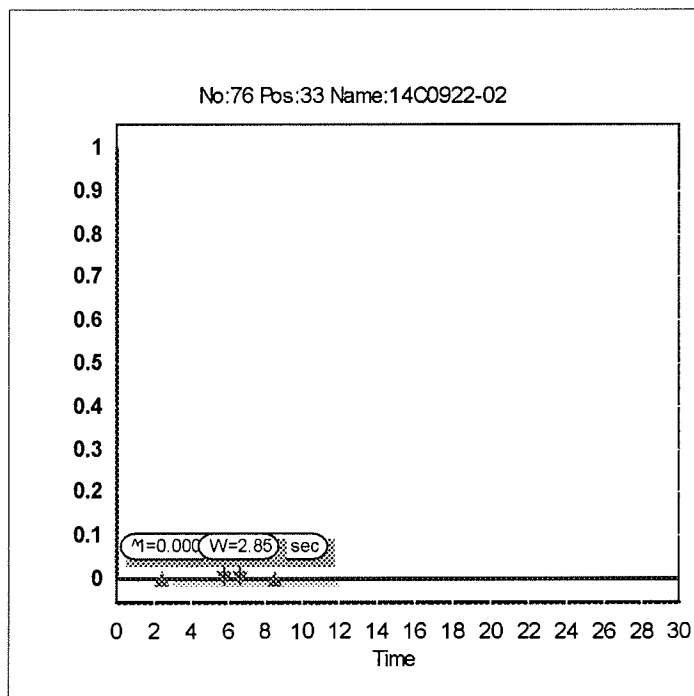
DMA Result Report

Created by: Administrator

5/10/2014 7:11:10 AM

Signal curve

E:\Data\OLD DMA RUNS\MAR 2014\QBHgDMA80-033114A.d80



Parameters

Position 76

Remarks TOTAL

Method File aq samples.m80 18.11.2013

Temperature

Max. start T 225

Purge time 250

Amalgamator heating time 12

Signal recording time 30

Weight of sample 0.4000 g

Calibration file ical 022114 LLaq.c80 21.02.2014 10:24:36

Calibration factor 1.0000

Results

Status o.k.

Height 0.0007

Concentration 0.0000 [µg/kg]

Absolute amount of Hg 0.0000 ng

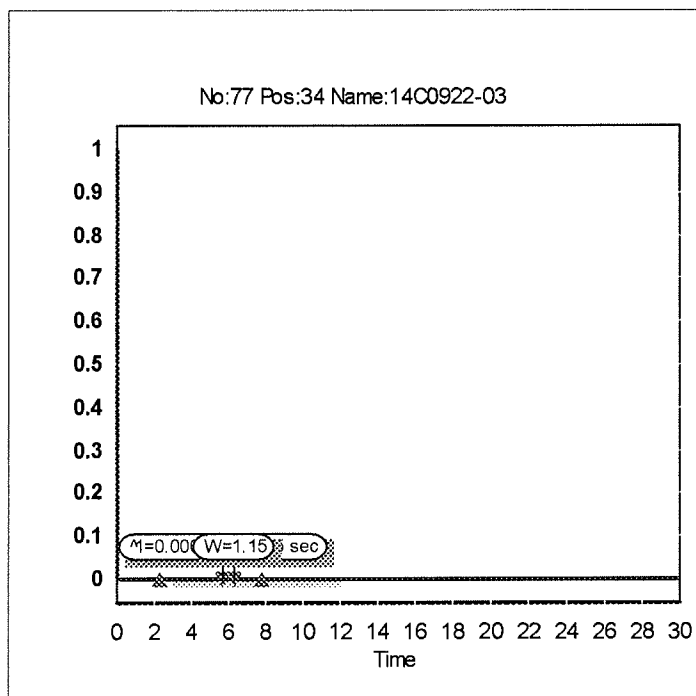


DMA Result Report

Created by: Administrator
5/10/2014 7:11:15 AM

Signal curve

E:\Data\OLD DMA RUNS\MAR 2014\QBHgDMA80-033114A.d80



Parameters

Position 77

Remarks TOTAL

Method File aq samples.m80 18.11.2013

Temperature

Max. start T 225

Purge time 250

Amalgamator heating time 12

Signal recording time 30

Weight of sample 0.4000 g

Calibration file ical 022114.LLaq.c80 21.02.2014 10:24:36

Calibration factor 1.0000

Results

Status o.k.

Height 0.0006

Concentration 0.0000 [µg/kg]

Absolute amount of Hg 0.0000 ng



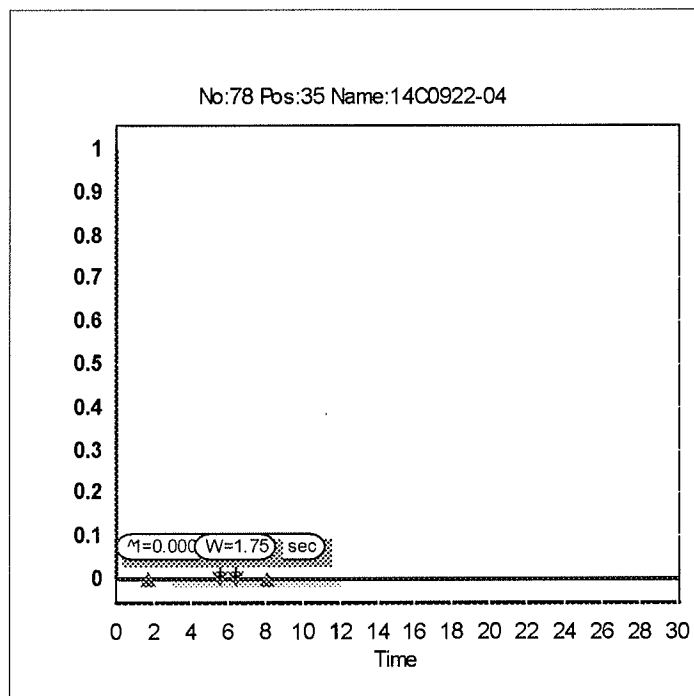
DMA Result Report

Created by: Administrator

5/10/2014 7:11:20 AM

Signal curve

E:\Data\OLD DMA RUNS\MAR 2014\QBHgDMA80-033114A.d80



Parameters

Position 78

Remarks TOTAL

Method File aq samples.m80 18.11.2013

Temperature

Max. start T 225

Purge time 250

Amalgamator heating time 12

Signal recording time 30

Weight of sample 0.4000 g

Calibration file ical 022114 LLaq.c80 21.02.2014 10:24:36

Calibration factor 1.0000

Results

Status o.k.

Height 0.0008

Concentration 0.0000 [µg/kg]

Absolute amount of Hg 0.0000 ng



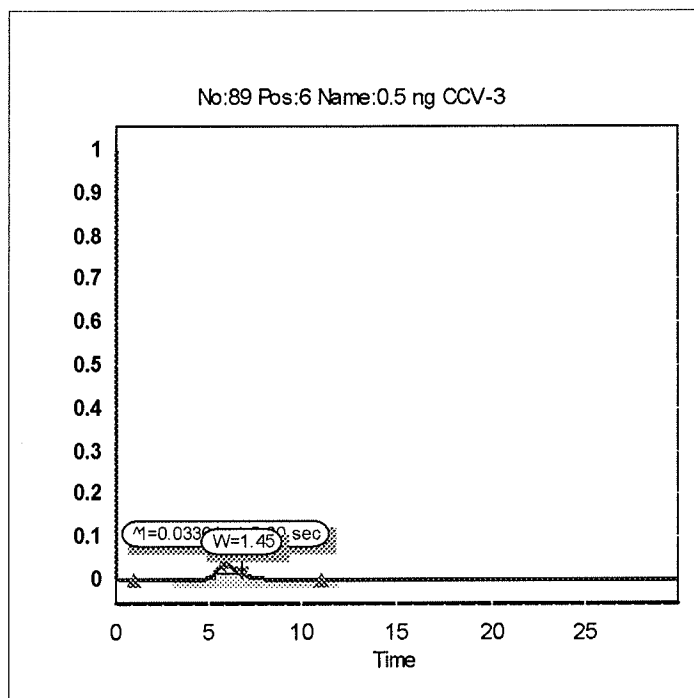
DMA Result Report

Created by: Administrator

5/10/2014 7:11:30 AM

Signal curve

E:\Data\OLD DMA RUNS\MAR 2014\QBHgDMA80-033114A.d80



Parameters

Position 89

Remarks

Method File

aq samples.m80

18.11.2013

Temperature

Max. start T 225

Purge time 250

Amalgamator heating time 12

Signal recording time 30

Weight of sample 0.0501 g

Calibration file ical 022114 LLaq.c80 21.02.2014 10:24:36

Calibration factor 1.0000

Results

Status o.k

Height 0.0336

Concentration 8.4450 [µg/kg]

Absolute amount of Hg 0.4231 ng



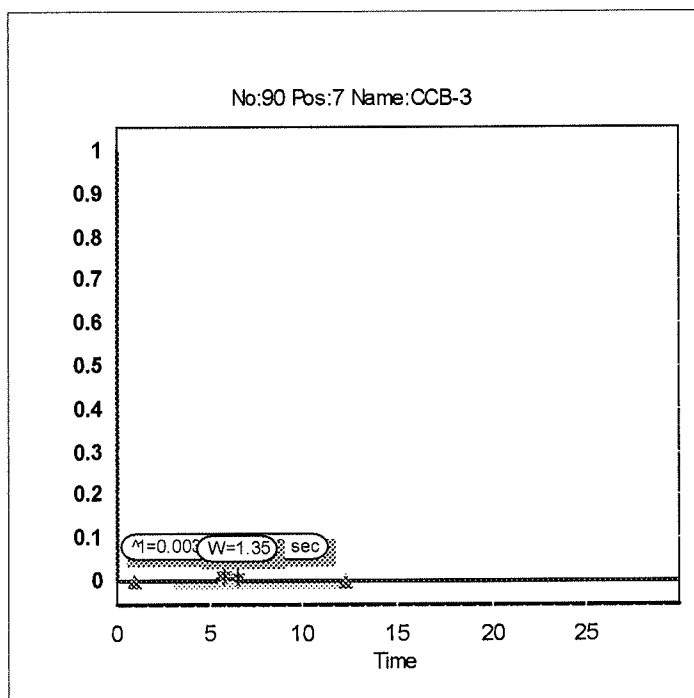
DMA Result Report

Created by: Administrator

5/10/2014 7:11:36 AM

Signal curve

E:\Data\OLD DMA RUNS\MAR 2014\QBHgDMA80-033114A.d80



Parameters

Position 90

Remarks

Method File

aq.samples.m80

18.11.2013

Temperature

Max. start T

225

Purge time

250

Amalgamator heating time

12

Signal recording time

30

Weight of sample

0.4000 g

Calibration file

ical.022114.LLaq.c80

21.02.2014 10:24:36

Calibration factor

1.0000

Results

Status

o.k.

Height

0.0035

Concentration

0.0825 [µg/kg]

Absolute amount of Hg

0.0330 ng

PREPARATION BENCH SHEET

BD40004

York Analytical Laboratories, Inc.

Printed: 5/10/2014 7:13:19AM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments
14C0922-01	Mercury by 7473, Dissolved	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	Added for BatchQC in: BD40004
14C0922-01	Mercury by 7473	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0922-02	Mercury by 7473	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0922-03	Mercury by 7473	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0922-04	Mercury by 7473	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0941-01	Mercury by 7473	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0941-01	Mercury by 7473, Dissolved	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0941-02	Mercury by 7473	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0941-02	Mercury by 7473, Dissolved	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0963-01	Mercury by 7473	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0980-01	Mercury by 7473, Dissolved	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0980-01	Mercury by 7473	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0980-02	Mercury by 7473, Dissolved	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0980-02	Mercury by 7473	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0987-01	Mercury by 7473	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0987-01	Mercury by 7473, Dissolved	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0987-02	Mercury by 7473	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0987-02	Mercury by 7473, Dissolved	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
14C0992-01	Mercury by 7473	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
BD40004-BLK1	QC	04/01/2014 07:0	ALD	0.1	0.1					EPA 7473 water	
BD40004-DUP1	QC	04/01/2014 07:0	ALD	0.1	0.1		14C0922-01			EPA 7473 water	
BD40004-MS1	QC	04/01/2014 07:0	ALD	0.1	0.1	Y13L032	14C0922-01	100		EPA 7473 water	
BD40004-SRM1	QC	04/01/2014 07:0	ALD	0.1	0.1	Y13L041		100		EPA 7473 water	

PREPARATION BENCH SHEET

BD40004

York Analytical Laboratories, Inc.

Printed: 5/10/2014 7:13:19AM

Matrix: Water

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Preparation	Sample Comments

Batch Comments: