2019 Periodic Review Report

Former Utility Platers and Kingston Diagnostics
BCP No. C356035

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

June 2019

Chazen Project No. 41103.00

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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, 2018 through April 19, 2019. The Site Management Periodic Review Report Notice and Institutional and Engineering Controls Certification Form, signed appropriately, are attached in **Appendix C**.

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 Platers building and adjacent areas, 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 site soil cover system.

1.2 Effectiveness of Remedial Program

- Source soil was removed in 2009. Remaining VOC concentrations in soils at the excavation margin were mostly below Part 375 Restricted Residential Use (RRU) Soil Cleanup Objectives (SCOs).
- Post-remedy groundwater monitoring data indicate that remaining impacts have been significantly reduced since implementation of the remedy. CVOC impacts in MW-2 have consistently been less than 50 parts per billion (ppb) since 2015. MW-5 showed a CVOC increase in 2014-2015 that has decreased subsequently. MW-1 identified CVOC increases in 2017 which have decreased over recent sampling rounds. In Spring 2018, new monitoring wells MW-6 and MW-7 were installed near MW-1. Sampling of these showed that the MW-1 concentrations did not appear to be migrating onto or off the Site. The most recent sampling CVOC data from MW-7 confirm this and are posted on Figure 2, and prior sampling data are provided in **Table 2**. NYSDEC has not required continued monitoring of MW-6.
- Post-remedy indoor air sampling was conducted in March 2017, with results demonstrating continued effectiveness of the SSDS. Based on previous correspondence with NYSDEC allowing a reduced schedule of air sampling, the next routine post-remedy air sample will be collected in March 2022. The operational condition of the SSDS is observed twice annually and screened with a photo-ionization detector.
- The site cover system remains in place to prevent human or ecological contact with soils or groundwater. The cover system consists of a building footprint and pavement.

1.3 Compliance

The 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 the site inspection conducted during this monitoring period.

1.4 Recommendations

Chazen recommends continued semi-annual monitoring of three wells MW-1, MW-2 and MW-5 in accordance with the current monitoring and inspection schedule, sufficient to monitor the continuing VOC attenuation occurring at this Site. We recommend continuing annual monitoring of well MW-7 for continued confirmation that CVOCs are not migrating towards the downgradient property boundary.

The SSDS appears to be functioning as designed/expected and no alterations are recommended at this time. As the required frequency of air quality sampling has been reduced to once every five years per the schedule defined in the SMP, the next air quality sample is due in March/April 2022.

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 Schwenck 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 the chlorinated solvents trichloroethylene (TCE). TCE as well as daughter products 1,2-dichloroethylene (1,2-DCE) and vinyl chloride (VC) are now present on site. Groundwater impacts extended from the Utility Platers parcel onto the adjacent Kingston Diagnostics parcel, both of which were combined to form the BCP site 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 Sub-slab 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 at the site, and to extend an impermeable surface over the SSDS footprint for vapor control optimization.
- Execution and recording 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

3.1 Routine Groundwater Monitoring

Routine groundwater monitoring was conducted 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. Semi-annual monitoring events included the collection and analysis of groundwater from three on-site monitoring wells (MW-1, MW-2, MW-5) and an annual sample from well MW-7 (see **Figure 2**).

Groundwater samples were collected on November 1, 2018 and March 28, 2019, using methodologies consistent with the approved Field Sampling Plan (FSP). The FSP was modified in 2018 following Department approval to switch from purging/sampling wells via disposable bailers to low-flow sampling techniques using a peristaltic pump. The field sampling sheets are in **Appendix A**. Samples were collected in laboratory-provided sample jars and immediately chilled. Duplicate samples were also collected from MW-1 during both sampling events.

The groundwater samples from wells MW-1, MW-2 and MW-5 were analyzed for VOCs via USEPA Method 8260 and for priority pollutant metals via USEPA Methods 6010 and 7473. The sample from well MW-7 was only analyzed for VOCs via USEPA Method 8260. NYSDEC has not required further monitoring of MW-6. 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. The laboratory reports and DUSRS are attached electronically in **Appendix D**.

Table 2 compares groundwater sampling results to groundwater quality standards and total CVOC concentrations are shown on **Figure 2**. Post-remedy groundwater monitoring data indicate that remaining impacts have been significantly reduced since implementation of the remedy.

- MW-1 showed rising CVOCs through 2017 followed by decreased concentrations in 2018 and 2019.
- Total CVOC concentrations in MW-2 have consistently been less than 50 ppb since 2015.
- MW-5 showed CVOC fluctuations in 2014 and 2016 that were followed by decreased concentrations. Total CVOC concentrations in MW-5 have consistently been less than 100 ppb for the last five sampling events.
- MW-7 data continue to demonstrate no migration of CVOC toward the downgradient (East) property boundary.

Analytical results show some metals concentrations greater than groundwater quality standards but generally within historic ranges for these analytes. Selenium concentrations were slightly greater than historic ranges in the three wells.

3.3 Site Inspection and Sub-Slab Depressurization 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 November 2018 and

March 2019 site visits, and results were 0.0 ppm for both events. 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. The next routine post-remedy air sample will be collected in March 2022.

4.0 INSTITUSTIONAL 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 2018 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 through an annual inspection of the system and through collection of an air quality sample once every five years. Copies of the annual system inspection forms are included in **Appendix A** and a figure of the SSDS design is included as **Figure 4**.
3. Groundwater Monitoring-Monitored Natural Attenuation – Post-remedy groundwater monitoring activities to assess ongoing natural attenuation are conducted semi-annually, and will continue until residual groundwater concentrations are less than groundwater quality standards or become asymptotic at an acceptable level to the NYSDEC. This report documents groundwater monitoring results.
4. The 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). The property continues to be used for commercial purposes.
5. Data and information pertinent to the SMP of the Controlled Property must be reported at the frequency and manner defined in the SMP. This report provides the required annual PRR submittal.
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 C**.

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. NYSDEC authorized the decommissioning of monitoring wells MW-3 and MW-4 in 2013, and reduced the indoor air sampling frequency to every five years in 2015 The remaining monitoring plan components are as follows:

1. Three monitoring wells (MW-1, MW-2 and MW-5) monitor up- and down-gradient conditions at the site. Groundwater sampling is typically conducted semi-annually in March/April and October/November. Well sampling activities are logged on field data sheets (**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 properly decommissioned and/or replaced. The NYSDEC will be notified prior to any well repair or decommissioning.

2. SSDS discharge monitoring is performed at least annually, by taking a PID reading of the effluent. IAQ sampling is conducted once every five years, 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 TO-15. In addition, the SSDS system is inspected twice-annually 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. The next indoor air sample will be collected in March 2022.

3. A site-wide inspection of the facility is conducted at least annually in April as well as after a 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, and compliance with the O&M Plan.

5.2 Summary of Monitoring Completed During Reporting Period

Monitoring completed during the reporting period (November 2018 and March 2019) has included two groundwater sampling events of three to four of the five remaining on-site wells, two inspections of the SSDS and two site-wide inspections. This report also includes results of an additional investigation (see Section 3.1). Groundwater sampling points are depicted on **Figure 2**. **Table 1** provides groundwater elevations for each sampling event. **Table 2** shows available pre-remediation groundwater data (2009), and post-remediation groundwater sampling data to the present. Field sampling sheets and copies of the Site-Wide Inspection Forms and SSDS Inspection Forms 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 post-excavation soil samples. Post-excavation soil sampling revealed that most remaining soil met Restricted Residential SCOs.
- Soil samples obtained from CB-1 (MW-6) and CB-2 (MW-7) during the March 2018 limited investigation did not identify CVOCs concentrations exceeding Part 375 SCOs.

Groundwater

- Dissolved CVOCs in sampled monitoring wells remain above groundwater standards (**Table 2**).
- MW-1 showed a few unusual CVOC spikes between 2014 and 2018, that were followed by decreased concentrations. This well exhibits significant chatter in CVOC concentrations which warrants further observation.
- Total CVOC concentrations in MW-2 have consistently been less than 50 ppb since 2015, with 1,2-DCE and Vinyl Chloride typically detected at low concentrations slightly greater than their respective groundwater quality standards. March 2019 data identified concentrations below standards and/or non-detect.
- MW-5 showed CVOC fluctuations in 2014 and 2016 that were followed by decreased concentrations. Total CVOC concentrations in MW-5 have consistently been less than 100 ppb for the last five sampling events.
- MW-7 again exhibited low levels of site COCs, continuing to confirm that impacts noted in well MW-1 do not appear to be migrating toward the downgradient (East) property boundary.
- Analytical results show some metals concentrations greater than groundwater quality standards but generally within historic ranges for these analytes. Selenium concentrations were slightly greater than historic ranges in the three wells.

Indoor Air

- The SSDS system was last inspected in March 2019 and appears to be functioning normally. The next air quality sample event is due to be conducted in March 2022.

5.4 Monitoring Deficiencies

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

5.5 Conclusions and Recommendations for Changes

Chazen recommends continued monitoring of wells MW-1, MW-2 and MW-5 in accordance with the current monitoring and inspection schedule, sufficient to monitor the continuing VOC attenuation occurring at this Site. We recommend continuing annual monitoring of well MW-7 for continued confirmation that CVOCs are not migrating towards the downgradient property boundary.

Indoor air quality sampling once every five years (next event March 2022) should be maintained as well as general O&M of the site's paved surfaces.

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

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 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 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 replacements), the Site owner will notify the NYSDEC within 24 hours and proceed with the needed maintenance and/or repair.

6.2 Summary of O&M Completed During Reporting Period

SSDS inspections were conducted in November 2018 and March 2019. No deficiencies in the system were noted which required maintenance or repair from the prior March 2018 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 changes to the O&M Plan 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.

- Inspection of the SSDS during November 2018 and March 2019 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.

- Site-wide inspections conducted in November 2018 and March 2019 indicate 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 allowed uses of the site.

- Groundwater monitoring was conducted in November 2018 and March 2019. The SMP schedule has been satisfied for this monitoring period.

7.2 Performance and Effectiveness of the Remedy and Recommendations

- Semi-annual groundwater monitoring suggests that remaining impacts have been reduced since implementation of the remedy, with some fluctuations in CVOC concentrations.
- SSDS monitoring and air quality results indicate that the SSDS is working effectively.

The combined results of the site inspection, groundwater sampling, and annual SSDS inspection suggest that the remedy continues to protect the environment and public health. November 2018 and March 2019 groundwater quality data indicate conditions remain stable (MW-2) or continue significant decreases noted in previous reports (MW-5). Well MW-1 results identified a spike in November 2017 followed by subsequent year-over-year decreasing concentrations. Results of a limited investigation in the area of MW-1 conducted in March 2018 suggest that impacts noted in MW-1 appear confined to a limited area around MW-1 and do not appear to be migrating onto or off of the Site.

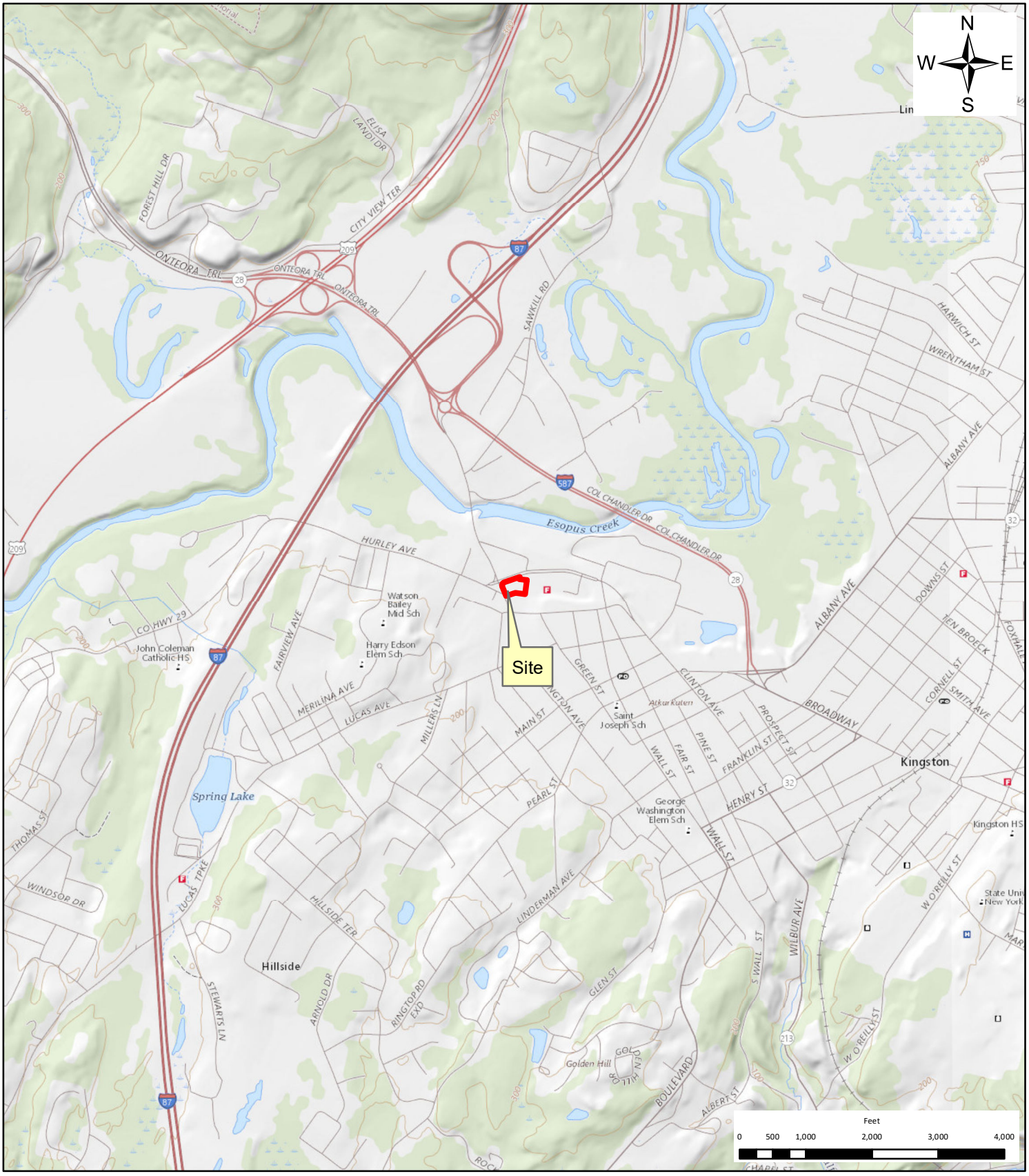
Chazen recommends performing scheduled semi-annual sampling in October/November 2019 and March/April 2020.

No other recommendations for changes to the O&M or monitoring plans are warranted at this time.

7.3 Future PRR Submittals

Monitoring for the ninth reporting period will include semi-annual groundwater monitoring, SSDS monitoring, and a site-wide inspection. An annual report will be submitted to the NYSDEC for these events in May 2020.

FIGURES



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Former Utility Platers/Kingston Diagnostics Site

Figure 1: Site Location Map

167 Schwenck Drive
City of Kingston, Ulster County, New York

Source: USGS National Map topographic map data (server-based), accessed 6/17/2019; Ulster County Office of Real Property Services tax parcel data, 2007.

Drawn:	EJO
Date:	June 2019
Scale:	1:24,000
Project:	41103.00
Figure:	1

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Former Utility Platers/Kingston Diagnostics Site

Figure 2: Site Layout Map

167 Schwenck Drive
City of Kingston, Ulster County, New York

Source: i-Cubed Nationwide Prime orthoimagery program eData, accessed 6/17/2019;
Ulster County Office of Real Property Services tax parcel data, 2007;
other site features mapped by Chazen based on field work conducted 2011-2019.

Drawn:	EJO
Date:	June 2019
Scale:	1:600
Project:	41103.00
Figure:	2

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Former Utility Platers/Kingston Diagnostics Site

Figure 3: Groundwater Contour Map

167 Schwenck Drive
City of Kingston, Ulster County, New York

Source: i-Cubed Nationwide Prime orthoimagery program eData, accessed 6/17/2019;
Ulster County Office of Real Property Services tax parcel data, 2009;
other site features mapped by Chazen based on field work conducted 2011-2019.

Drawn:	EJO
Date:	June 2019
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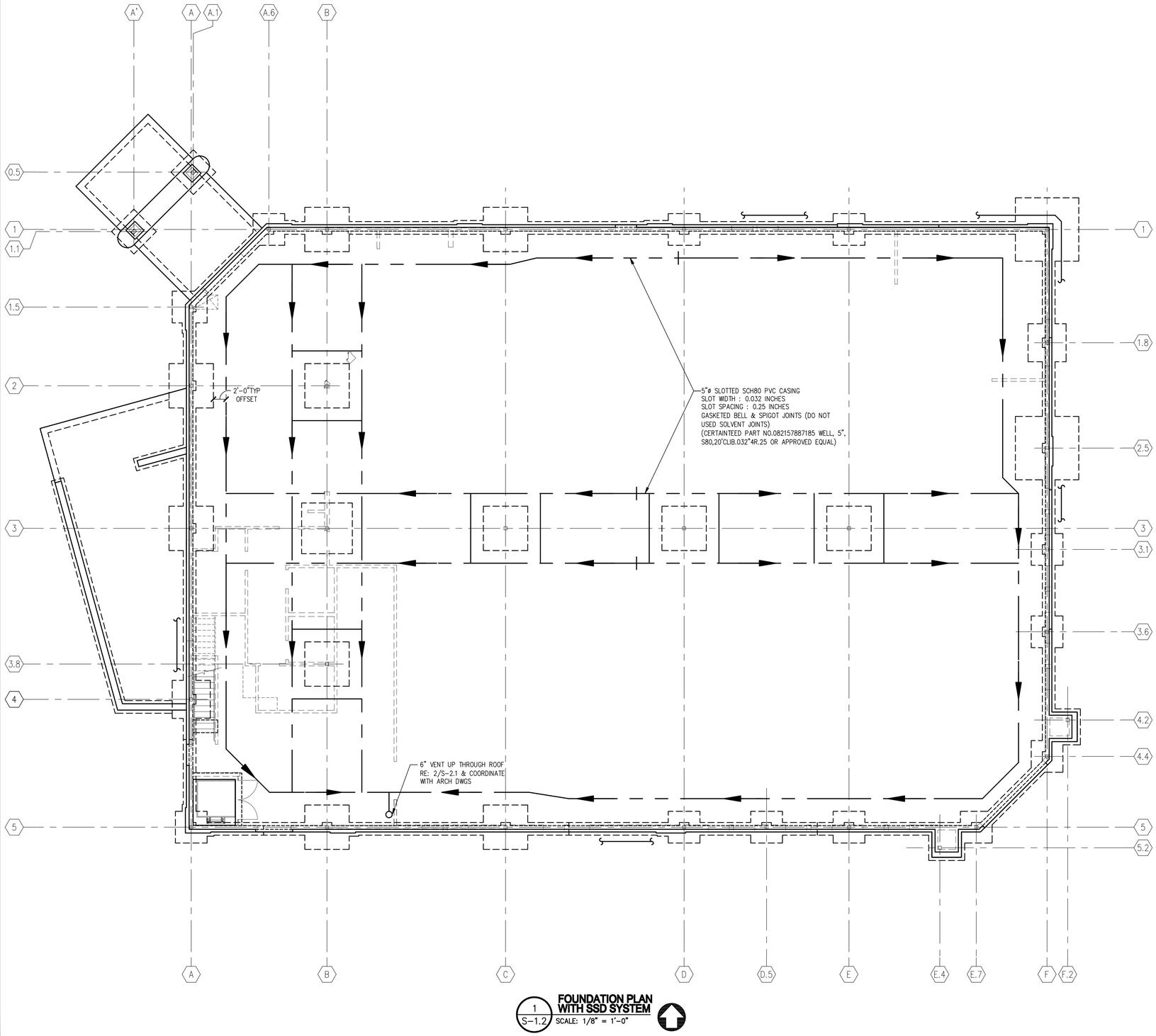
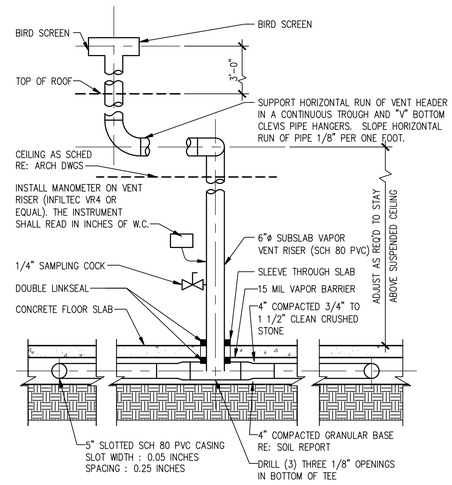
Project:	41103.00
Figure:	3



1 S-1.2 **FOUNDATION PLAN WITH SSD SYSTEM**
SCALE: 1/8" = 1'-0"



2 S-1.2 **SSD SYSTEM VAPOR VENT RISER**
SCALE: 1/2" = 1'-0"

NOTE: FOOTINGS ARE CENTERED ON COLUMNS, UNO

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SEAL:

CVS/pharmacy

PROJECT TYPE: NEW 12900 9.1.06 TYPE A

STORE NUMBER: 8945

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KINGSTON, NY 12401

DEVELOPER:

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& MANAGEMENT CO.
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WINDSOR, CT 06095
TEL (860) 683-9000
FAX (860) 683-1600

REVISIONS:

LAYOUT COORDINATOR:	T. MARTIN
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 4- 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	10/3/2014	4/6/2015	10/16/2015	3/16/2016	3/23/2017	11/13/2017	3/5/2018	11/1/2018	3/28/2019
MW-1	164.70	150.47	150.36	149.80	149.67	150.26	149.61	150.67	148.91	149.86	149.29	148.43	149.55	149.32	150.51	149.60	150.12
MW-2	160.56	148.06	148.02	143.37	143.91	145.70	142.34	147.19	145.02	145.06	143.00	143.23	146.45	142.96	147.72	146.09	146.93
MW-3	158.75	153.17	153.32	151.54	152.03	151.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	168.32	162.40	162.48	161.75	161.80	162.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	162.51	155.67	155.88	154.03	154.14	154.08	153.47	154.57	152.92	153.81	154.21	153.88	154.89	153.94	154.29	154.36	153.93
MW-6	165.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	151.05	NA	NA
MW-7	159.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	150.51	NA	150.00

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)	10/3/2014	10/3/2014 (MW-DUP)	4/6/2015	4/6/2015 (MW-DUP)	10/16/2015	10/16/2015 (MW-DUP)	3/16/2016	3/16/2016 (MW-DUP)	3/23/2017	3/23/2017 (MW-DUP)	11/13/2017	11/13/2017 (MW-DUP)	3/5/2018	3/5/2018 (MW-DUP2)	11/1/2018	11/1/18 (MW-DUP)	3/28/2019	3/28/19 (MW-DUP)
Analyte		**Units**	**Part 703 Groundwater**	**Pre-Remedy Results**	**Post-Remedy Results**																										
EPA Method 8260 Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	ug/L	5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane		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	ND	ND	ND	ND	2.0	1.7	ND	ND	ND	ND	ND	ND	2.4 J	2.2 J	ND	ND	2.8	2.7
	1,1,2,2-Tetrachloroethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	1,1-Dichloroethane		5*	**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	ND	ND	**7.3**	**7.1**	**7.7**	**9.2**	**6.8**	**6.5**	ND	ND	ND	ND	3.7 J	3.7 J	**6.4 D**	**5.7 J**	1.6	1.6
	1,1-Dichloroethylene		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	ND	ND	**11.0**	**11.0**	**28**	**37**	**22**	**21**	ND	ND	ND	ND	ND	ND	**24 D**	**18 J**	4.3	4.1
	1,1-Dichloropropylene		NS/5	--	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	1,2,3-Trichlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND J	ND J	ND J	ND J	ND	ND
	1,2,3-Trichloropropane		0.04	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trimethylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	1,2,4-Trichlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trimethylbenzene		5*	**16**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	1,2-Dibromo-3-chloropropane		0.04	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	1,2-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane		0.6	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethylene (Total)		5*	**8,435**	**1,026**	**629**	**1,624**	**1,324**	**1,975**	**2,070**	**1,029**	**572**	**710**	**2,457**	**568**	**216.6**	**18,260**	**9,720**	**4,397 J**	**4,093 J**	**7,840**	**9,690**	**6,570**	**5,850**	**5,530**	**5,140**	**27,630 DJ**	**26,620 DJ**	**750**	**802**	**8,470 D**	**15,300 D**	**920 D**	**956 D**
	1,2-Dichloropropane		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	1,3,5-Trimethylbenzene		5*	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	1,3-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichloropropane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	1,4-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Chlorohexane		NS	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	2,2-Dichloropropane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	2-Chlorotoluene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	4-Chlorotoluene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	Benzene		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33 J	ND	ND	0.23 J	ND	ND	ND	ND	ND	ND	ND	0.28 J	ND	ND
	Bromobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	Bromochloromethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	Bromoform		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J
	Bromomethane		5*	--	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J
	Carbon Tetrachloride		5	--	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform		7	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28 J	0.27 J
	Chloromethane		NS/5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropylene		0.4**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	Dibromochloromethane		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	Dibromomethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	Dichlorodifluoromethane		5*	--	ND	ND	ND	ND	R	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Hexachlorobutadiene		0.5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J
	Isopropylbenzene		5*	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	Methyl tert-butyl ether (MTBE)		NS/10	--	ND	ND	ND	ND	ND J	ND J	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methylene chloride		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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Naphthalene		10	1	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	6.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	--	--	--	--
	n-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J
	n-Propylbenzene		5*	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	o-Xylene		5*	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	p-&m-Xylenes		5*	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	p-Isopropyltoluene		5*	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	sec-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	Styrene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	tert-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	Tetrachloroethylene		5*	**12**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33 J	0.30 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34 J	0.35 J	0.28 J
	Toluene		5*	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56	0.76	0.34 J	0.32 J	ND	ND	ND	ND	ND	ND	0.64 JD	0.44 J	ND	ND
	trans-1,3-Dichloropropylene		0.4**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	Trichloroethylene		5*	**14,000**	**800**	**500**	**130**	**180**	**1,200**	**1,200**	**670 DJ**	**490**	**620**	**1,800**	**490**	**250**	**14,000**	**5,100**	**4200 J**	**3800 J**	**8,700**	**10,000**	**6,500 DJ**	**5,900 DJ**	**4,700**	**4,500**	**23,000 DJ**	**23,000 DJ**	**780**	**840**	**8,800 JD**	**15,000 JD**	**1,300 DJ**	**1,300 DJ**
	Trichlorofluoromethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride		2	**3,900**	**130**	**150**	**100**	**110**	**160 J**	**170 J**	**190 J**	**99**	**83**	ND	**84**	**30**	**1,000**	**1,500**	**450**	**480**	ND	ND	**930**	**930**	**580 DJ**	**570 DJ**	**2,500 DJ**	**2,300 DJ**	**110**	**120**	**1,400 D**	**1,500 D**	**150**	**140**
	TOTAL CVOCs			**26,451**	**1,964**	**1,287**	**1,866**	**1,626**	**3,351**	**3,455**	**1,904**	**1,167**	**1,418**	**4,270**	**1143**	**500**	**33,260**	**16,320**	**9,065.3**	**5,391**	**16,579**	**19,738**	**14,029**	**12,708**	**10,810**	**10,210**	**53,130**	**51,920**	**1,646.1**	**1,767.9**	**18,700.4**	**31,824.04**	**2,379.33**	**2,404.95**
			Sample Date	**12/23/2009**	**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**	**10/3/2014**	**10/3/2014**	**4/6/2015**	**4/6/2015**	**10/16/2015**	**10/16/2015**	**3/16/2016**	**3/16/2016**	**3/23/2017**	**3/23/2017**	**11/13/2017**	**11/13/2017**	**3/5/2018**	**3/5/2018**	**11/1/2018**	**11/1/2018**	**3/28/2019**	**3/28/2019**
EPA Method 6010 Priority Pollutant Metals	Antimony	ug/L	3	ND	ND	ND	**5**	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6**	**7**	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	Arsenic		25	ND	11	ND	10	ND	ND	ND	10	ND	5	7	ND	ND	**48**	**56**	15	14	**30**	23	16 J	16 J	19	17	**31 J**	21	ND	ND	ND	ND	ND	ND
	Beryllium		11***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	2	1	1	ND	ND	ND	2	3	ND	ND	ND	ND	ND	ND
	Cadmium		5	**31**	**63**	**59**	**114**	**126**	**47**	**42**	**7**	**120**	**95**	**33**	**121**	**103**	**116**	**116**	**75**	**78**	**91**	**78**	**64**	**33**	**28**	**24**	**82**	**87**	**77**	**78**	**6**	**8**	**60 J**	**59 J**
	Chromium		50	13	11	8	29	32	5	ND	ND	28	17	8	21	15	**85**	**113**	13	18	**74**	41	12	6	31	28	10	19	11	23	8	ND	**138 J**	**139 J**
	Copper		200	38	8	6	17	18	ND	ND	ND	13	5	20	R	R	128	167	26	33	101	71	108	31	45	39	78 J	**270 B**	9	17	ND	26	ND	ND
	Lead		25	**33**	4	3	7	6	3 J	ND	ND	5	ND	3	ND	ND	**71**	**92**	7	10	**51**	**39**	**70**	15	13	11	**84**	**124**	ND	6	ND	13	ND J	ND J
	Nickel		100	**257**	**309**	**307**	**660**	**703**	**749**	**748**	**266**	**288**	**286**	**477**	**307**	**319**	**933**	**897**	**870**	**857**	**367**	**321**	**226**	**185**	**184**	**188**	**394**	**449**	**190**	**184**	**178**	**182**	**145 J**	**139 J**
	Selenium		10	**14**	ND	ND	ND	ND	**22 J**	**16 J**	**15**	**13**	**11**	ND	**14**	ND	ND	ND	ND J	ND J	**15**	ND	ND	ND	ND	ND	ND	ND	**50**	**51**	**51 J**	**46 J**	**85 J**	**94 J**
	Silver		50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Thallium		8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	493	544	250	259	466	325	244	103	130	116	263	426	154	168	ND	36	138	129
	Mercury		0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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	10/3/2014	4/6/2015	10/16/2015	3/16/2016	3/23/2017	11/13/2017	3/5/2018	11/1/2018	3/28/2019
Analyte		Units	Part 703 Groundwater Standard	Pre-Remedy Results	Post-Remedy Results																
EPA Method 8260 Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	ug/L	5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	1,1-Dichloroethane		5*	ND	1.1 J	1.3 J	1.3 J	1.7 J	1.4 J	ND	ND	ND	1.3	ND	0.53	0.37 J	0.62	0.47 J	0.48 J	0.31 J	ND
	1,1-Dichloroethylene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41 J	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloropropylene		NS/5	--	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	1,2,3-Trichlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND
	1,2,3-Trichloropropane		0.04	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trimethylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	1,2,4-Trichlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND J	ND
	1,2,4-Trimethylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	1,2-Dibromo-3-chloropropane		0.04	--	ND	ND	ND	ND	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	ND	ND	ND J	ND
	1,2-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane		0.6	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethylene (Total)		5*	**33**	**17**	**25**	**29**	**48**	**45**	**27**	**18**	**20.28 J**	**34.42 J**	**25 J**	**11**	**7.2**	**17.2**	**11 .21 J**	**14**	**13.36 J**	0.96
	1,2-Dichloropropane		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	1,3,5-Trimethylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	1,3-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichloropropane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	1,4-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Chlorohexane		NS	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	2,2-Dichloropropane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	--	--
	2-Chlorotoluene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	4-Chlorotoluene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	Benzene		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	Bromochloromethane		5*	--	ND	ND	ND	ND	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	ND	ND	ND J	ND
	Bromoform		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
	Bromomethane		5*	--	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND J	ND J	ND J	ND J
	Carbon Tetrachloride		5	--	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform		7	--	ND	ND	ND	ND	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 J	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropylene		0.4**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Dibromochloromethane		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Dibromomethane		5*	--	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Dichlorodifluoromethane		5*	--	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Hexachlorobutadiene		0.5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J
	Isopropylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Methyl tert-butyl ether (MTBE)		NS/10	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methylene chloride		5*	4	3.6 JB	4.9 JB	ND	ND	ND	ND	ND	ND	ND	2.6 J	2.6 J	ND	ND	ND	ND	ND	ND
	Naphthalene		10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	n-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J
	n-Propylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	o-Xylene		5*	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND
	p-&m-Xylenes		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	p-Isopropyltoluene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	sec-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Styrene		5*	--	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND
	tert-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethylene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND
	Toluene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropylene		0.4**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Trichloroethylene		5*	**51**	3.6 J	3.2 J	ND	3.3 J	2.8 J	1.8 J	ND	1.4 J	2.2 J	ND J	1.6	0.83 J	1.60	0.88 J	1.7	6.0 J	2.2 J
	Trichlorofluoromethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride		2	**10**	**7.1**	**6.7**	**5.7**	**8.8**	**7.0**	ND	ND	**12**	**20**	**6.9**	**3.7**	1.1	**3.2**	1.4 J	**2.2**	2.7	ND
	TOTAL CVOCs			**94**	**28.8**	**36.2**	**36.0**	**61.8**	**56.2**	**28.8**	**18**	**33.68**	**58.33**	**31.9**	**16.83**	**9.5**	**22.65**	**13.96**	**18.38**	**22.39**	**3.16**
			Sample Date	**12/23/2009**	**4/20/2011**	**10/20/2011**	**3/27/2012**	**10/9/2012**	**10/9/2012**	**3/11/2013**	**10/25/2013**	**3/26/2014**	**10/3/2014**	**4/6/2015**	**10/16/2015**	**3/16/2016**	**3/23/2017**	**11/13/2017**	**3/5/2018**	**11/1/2018**	**3/28/2019**
EPA Method 6010 Priority Pollutant Metals	Antimony	ug/L	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6**	ND	ND J	ND	ND	ND
	Arsenic		25	**29**	ND	ND	ND	ND	ND	ND	**43**	ND	ND	5	6	ND	6	ND J	ND	ND	ND
	Beryllium		11***	**6**	ND	ND	ND	ND	ND	ND	**5**	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Cadmium		5	10	ND	ND	ND	ND	ND	4	**30**	4	ND	ND	ND	ND	5	ND	ND	ND	ND J
	Chromium		50	**58**	12	7	5	ND	ND	7	**160**	7	8	8	6	ND	13	ND	ND	7	ND J
	Copper		200	**430**	9	5	6 J	6	7	ND	ND	6 J	13	12	40	19	28	R	11	30	ND
	Lead		25	**552**	10	7	6 J	8	6	7	7	7	9	6	**30**	11	5	ND	ND	21	ND J
	Nickel		100	**113**	41	27	33	18	19	73	73	73	28	30	17	ND	27	28	ND	19	ND J
	Selenium		10	**28**	10	12	**21 J**	**18**	**17**	**19**	**19**	**19**	ND	ND J	ND	ND	ND	**23 J**	**80**	**56 J**	**37 J**
	Silver		50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Thallium		8	ND	ND	ND	ND	**21**	**21**	ND	ND	ND	ND	ND	8	7	27	ND	**34**	ND	ND
	Zinc		NS/2,000	431	44	26	35	34	43	57	57	57	43	26	127	26	60	57	ND	47	ND
	Mercury		0.7	**1.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND

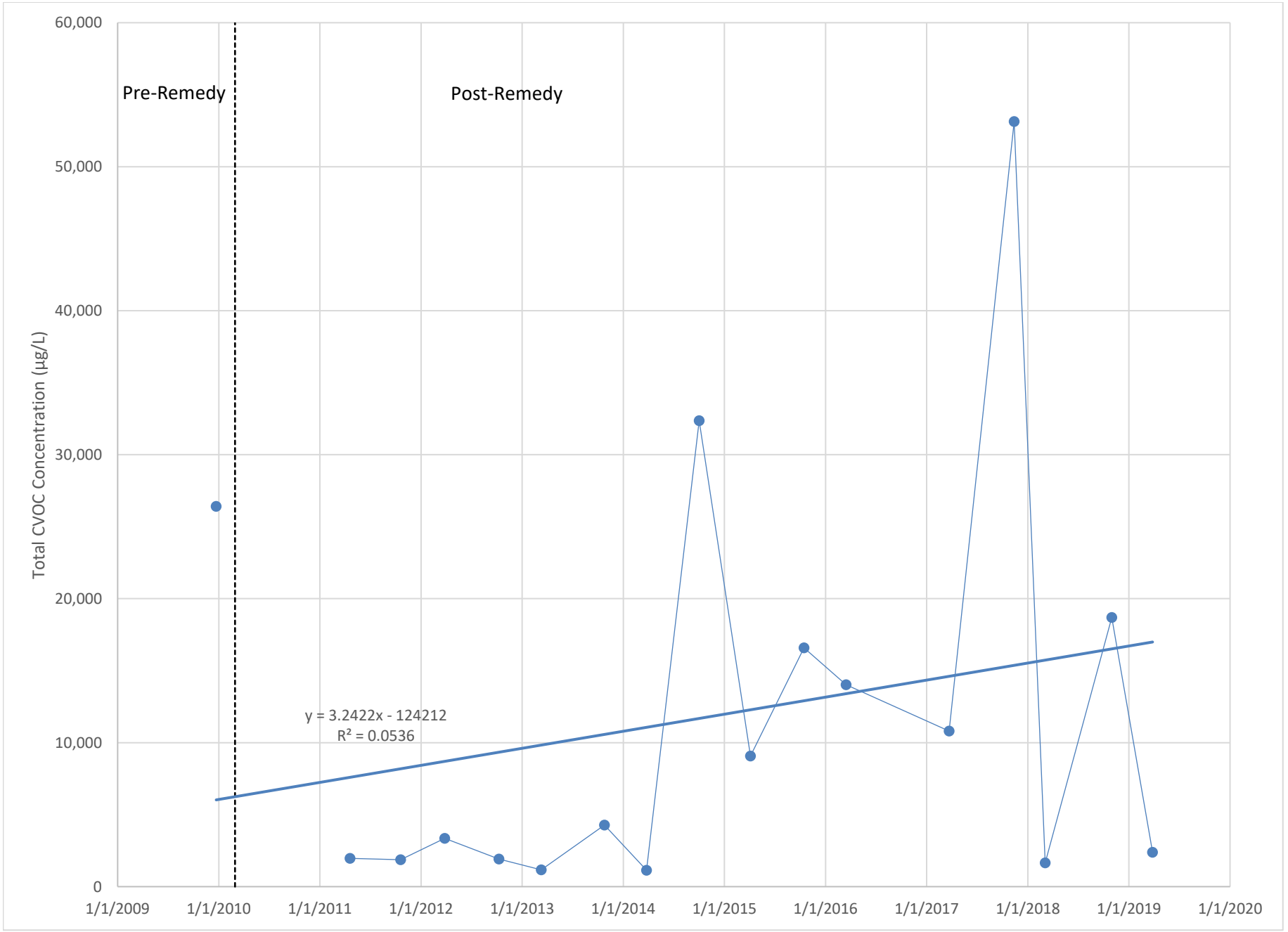
Table 2: Groundwater Monitoring Data
BCP Site No. C356035 - Former Utility Platers and Kingston Diagnostics Site (Current CVS Building)
Washington Avenue and Schwenk Drive, City of Kingston, Ulster County, New York

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	10/2/2014	4/6/2015	10/16/2015	3/16/2016	3/23/2017	11/13/2017	3/5/2018	11/1/2018	3/28/2019
Analyte		Units	Part 703 Groundwater Standard	Pre-Remedy Results	Post-Remedy Results															
EPA Method 8260 Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	ug/L	5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane		5*	ND	ND	ND	ND	ND	ND	ND	ND	0.47 J	ND	ND	0.69	0.27 J	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	1,1-Dichloroethane		5*	ND	ND	ND	ND	0.81 J	ND	ND	ND	0.85	2.1 J	ND	1.9	0.85	0.34 J	0.63 J	0.35 J	0.41 J	0.33 J
	1,1-Dichloroethylene		5*	ND	ND	ND	ND	**53**	ND	ND	ND	1.1	2.1 J	ND	2.9	1.1	0.37 J	ND	ND	0.46 J	0.32 J
	1,1-Dichloropropylene		NS/5	--	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	1,2,3-Trichlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND
	1,2,3-Trichloropropane		0.04	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trimethylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	1,2,4-Trichlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND J	ND
	1,2,4-Trimethylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	1,2-Dibromo-3-chloropropane		0.04	--	ND	ND	ND	ND	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	ND	ND	ND J	ND
	1,2-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane		0.6	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethylene (Total)		5*	ND	ND	3.4 J	ND	ND	**7.2**	**49**	**51**	**37.58**	**95**	**84 J**	**96.6**	**44.56**	**20.26**	**36.44 J**	**20.30 J**	**26.47 J**	**16.27 J**
	1,2-Dichloropropane		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	1,3,5-Trimethylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	1,3-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichloropropane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	1,4-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Chlorohexane		NS	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	2,2-Dichloropropane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	--	--
	2-Chlorotoluene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	4-Chlorotoluene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	Benzene		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	Bromochloromethane		5*	--	ND	ND	ND	ND	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	ND	ND	ND J	ND
	Bromoform		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
	Bromomethane		5*	--	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND J	ND J	ND J	ND J
	Carbon Tetrachloride		5	--	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56	0.21 J	ND	ND	ND	ND	ND
	Chloroform		7	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28 J	ND	ND	ND
	Chloromethane		NS/5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	1.1	ND
	cis-1,3-Dichloropropylene		0.4**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Dibromochloromethane		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Dibromomethane		5*	--	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Dichlorodifluoromethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Hexachlorobutadiene		0.5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J
	Isopropylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Methyl tert-butyl ether (MTBE)		NS/10	--	ND	ND	ND J	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methylene chloride		5*	2	3.9 JB	4.6 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Naphthalene		10	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
	n-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J
	n-Propylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	o-Xylene		5*	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND
	p-&m-Xylenes		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	p-Isopropyltoluene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	sec-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Styrene		5*	--	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND
	tert-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethylene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND
	Toluene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropylene		0.4**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Trichloroethylene		5*	ND	ND	**6.1**	ND	**45**	**9.4**	**78**	**84**	**110**	**230**	**290 J**	**400 E**	**150 J**	**39**	**56 J**	**51**	**70 J**	**31 J**
	Trichlorofluoromethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride		2	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	0.41 J	ND	ND	ND	ND	0.30 J	ND
	TOTAL CVOCs					**9.5**		**98.81**	**16.6**	**127**	**135**	**150.00**	**329.2**	**374**	**503.06**	**196.99**	**59.97**	**93.35**	**71.65**	**98.74**	**47.92**
			Sample Date	**1/14/2010**	**4/20/2011**	**10/20/2011**	**3/27/2012**	**10/9/2012**	**3/11/2013**	**10/25/2013**	**10/25/2013**	**3/26/2014**	**10/3/2014**	**4/6/2015**	**10/16/2015**	**3/16/2016**	**3/27/2017**	**11/13/2017**	**3/5/2018**	**11/1/2018**	**3/28/2019**
EPA Method 6010 Priority Pollutant Metals	Antimony	ug/L	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**7**	**8**	ND J	**9**	ND	ND
	Arsenic		25	ND	ND	ND	ND	ND	ND	ND	4	ND	7	9	**26**	ND	7	ND J	ND	ND	ND
	Beryllium		11***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Cadmium		5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
	Chromium		50	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	8	ND	6	ND	ND	ND	ND J
	Copper		200	94	ND	7	ND J	ND	ND	5	4	R	ND	10	46	14	24	R	13	ND	ND
	Lead		25	**47**	3	6	ND J	ND	ND	ND	4	ND	ND	3	**27**	6	4	ND	ND	ND	ND J
	Nickel		100	29	8	5	ND	ND	5	12	12	5	18	13	36	ND	ND	ND J	ND	11	ND J
	Selenium		10	ND	ND	ND	ND	ND	**11**	ND	ND	ND	**11**	ND J	ND	ND	ND	ND	**99**	35 J	**102 J**
	Silver		50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Thallium		8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**17**	ND	**9**	ND	ND	ND	ND
	Zinc		NS/2,000	80	35	25	ND	20	22	29	29	22	32	19	154	29	38	ND	ND	ND	ND
	Mercury		0.7	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND

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

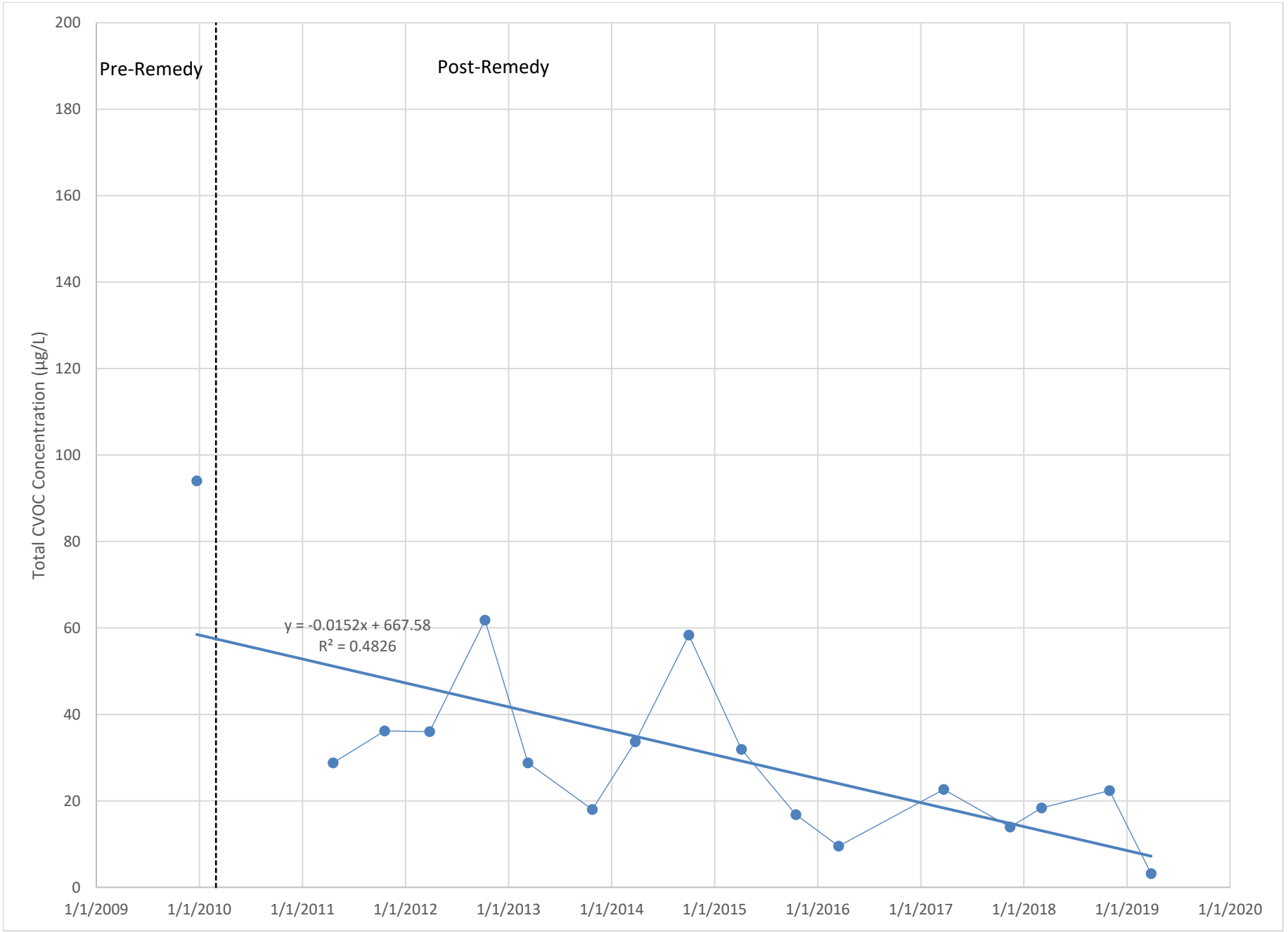
Sample ID				MW-7	
Sample Date				3/5/2018	3/28/2019
Analyte		Units	Part 703 Groundwater Standard	Post-Remedy Results	
EPA Method 8260 Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	ug/L	5*	ND	ND
	1,1,1-Trichloroethane		5*	1.5	0.28 J
	1,1,2,2-Tetrachloroethane		5*	ND	ND
	1,1,2-Trichloroethane		1	ND	ND
	1,1-Dichloroethane		5*	3.6	0.29 J
	1,1-Dichloroethylene		5*	0.25 J	ND
	1,1-Dichloropropylene		NS/5	--	--
	1,2,3-Trichlorobenzene		5*	ND J	ND
	1,2,3-Trichloropropane		0.04	ND	ND
	1,2,3-Trimethylbenzene		5*	--	--
	1,2,4-Trichlorobenzene		5*	ND	ND
	1,2,4-Trimethylbenzene		5*	ND	ND
	1,2-Dibromo-3-chloropropane		0.04	ND	ND
	1,2-Dibromoethane		NS/5	ND	ND
	1,2-Dichlorobenzene		3**	ND	ND
	1,2-Dichloroethane		0.6	ND	ND
	1,2-Dichloroethylene (Total)		5*	**11.35 J**	**8.70**
	1,2-Dichloropropane		1	ND	ND
	1,3,5-Trimethylbenzene		5*	ND	ND
	1,3-Dichlorobenzene		3**	ND	ND
	1,3-Dichloropropane		5*	--	--
	1,4-Dichlorobenzene		3**	ND	ND
	1-Chlorohexane		NS	--	--
	2,2-Dichloropropane		5*	--	--
	2-Chlorotoluene		5*	--	--
	4-Chlorotoluene		5*	--	--
	Benzene		1	ND	ND
	Bromobenzene		5*	--	--
	Bromochloromethane		5*	ND	ND
	Bromodichloromethane		NS/50	ND	ND
	Bromoform		NS/50	ND	ND J
	Bromomethane		5*	ND	ND J
	Carbon Tetrachloride		5	ND	ND
	Chlorobenzene		5*	ND	ND
	Chloroethane		5*	ND	ND
	Chloroform		7	0.32 J	ND
	Chloromethane		NS/5	ND	ND
	cis-1,3-Dichloropropylene		0.4**	ND	ND
	Dibromochloromethane		NS/50	ND	ND
	Dibromomethane		5*	ND	ND
	Dichlorodifluoromethane		5*	ND	ND
	Ethylbenzene		5*	ND	ND
	Hexachlorobutadiene		0.5	ND	ND J
	Isopropylbenzene		5*	ND	ND
	Methyl tert-butyl ether (MTBE)		NS/10	ND	ND
	Methylene chloride		5*	ND	ND
	Naphthalene		10	--	--
	n-Butylbenzene		5*	ND	ND J
	n-Propylbenzene		5*	ND	ND
	o-Xylene		5*	ND	ND
	p-&m-Xylenes		5*	ND	ND
	p-Isopropyltoluene		5*	ND	ND
	sec-Butylbenzene		5*	ND	ND
	Styrene		5*	ND	ND
	tert-Butylbenzene		5*	ND	ND
	Tetrachloroethylene		5*	ND	ND
	Toluene		5*	ND	ND
	trans-1,3-Dichloropropylene		0.4**	ND	ND
	Trichloroethylene		5*	**39**	**17**
	Trichlorofluoromethane		5*	ND	ND
	Vinyl chloride		2	**2.9**	ND
	TOTAL CVOCs			**58.92**	**26.27**

Graph 1: Linear Regression of Total CVOCs in Monitoring Well MW-1
Former Utility Platers/Kingston Diagnostics Site, 167 Schwenck Drive, City of Kingston, Ulster County, New York



The Chazen Companies
June 2019

Graph 2: Linear Regression of Total CVOCs in Monitoring Well MW-2
Former Utility Platers/Kingston Diagnostics Site, 167 Schwenck Drive, City of Kingston, Ulster County, New York



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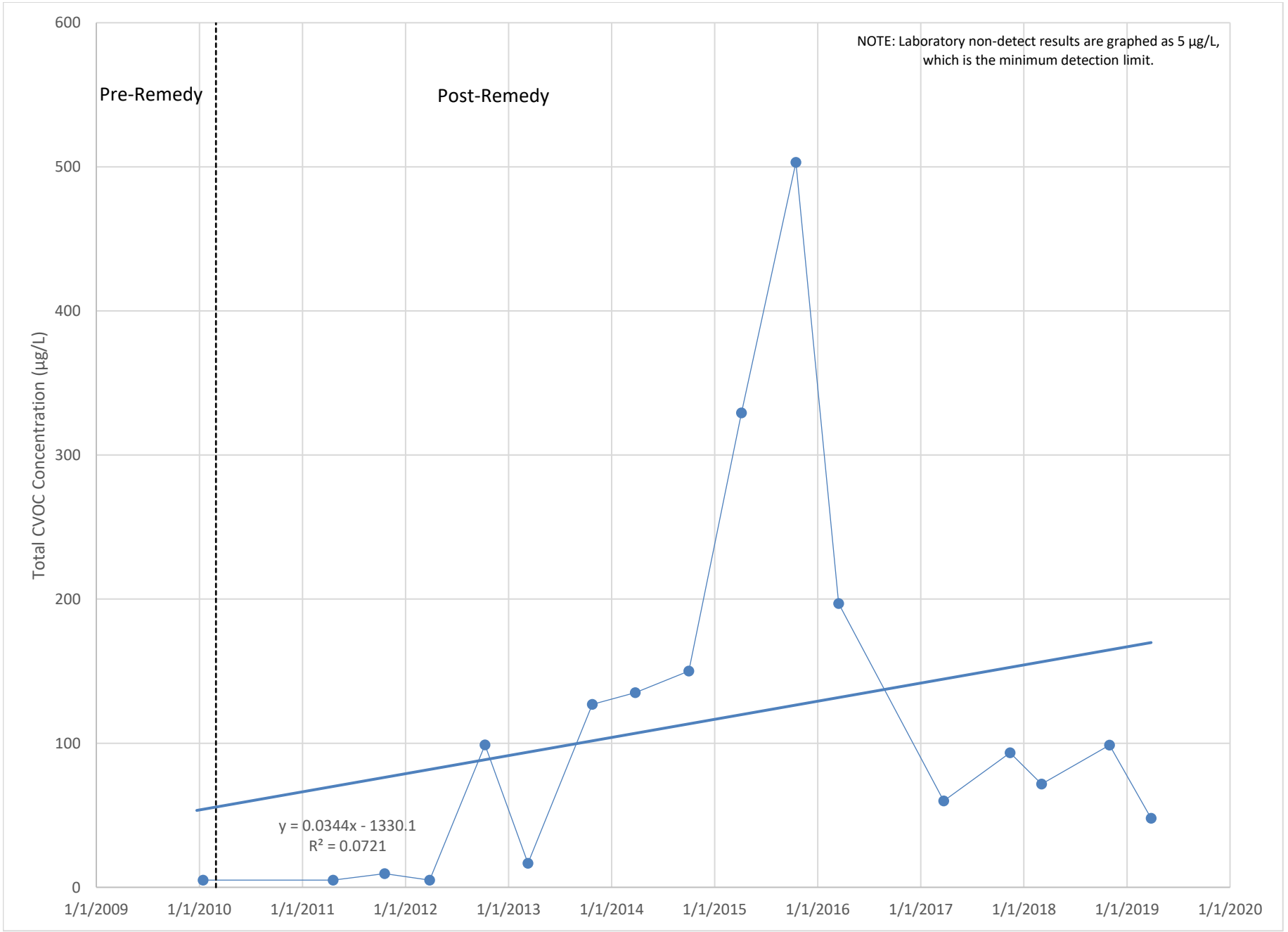
Graph 3: Linear Regression of Total CVOCs in Monitoring Well MW-5
Former Utility Platers/Kingston Diagnostics Site, 167 Schwenck Drive, City of Kingston, Ulster County, New York



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June 2019

Appendix A:
Field Sampling Data Sheets, SSDS Monitoring Forms, Site-Wide Inspection Forms

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-01 1118	Sample Time:	15:05	Sample Matrix *(circle)*:	
Well ID:	MW-01	Sample Date:	11/1/2018	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.00	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: GOOD - INSTALLED NEW COMPRESSION PLUG AND DEDICATED TUBING FOR LOW-FLOW SAMPLING.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point:	TOC-PVC		***(B)***	Purge Method:		PERISTALTIC - LOW FLOW	
Depth to Bottom:	26.20	Pipe Width	Gal/Foot	Start Date:		11/1/2018	
Depth to Water:	15.10	1.0"	0.041	Start Time:		1:19:00 PM	
Water Column Height: ***(A)***	11.10	1.5"	0.092	Stop Time:		2:46:00 PM	
(depth to bottom - depth to water)		**2.0"**	**0.163**	Purge Rate (gpm):		0.04	
		2.5"	0.255	Elapsed Time (min):		87	
# of Volumes to be Purged: ***(C)***		3.0"	0.367	Well Vol. Purged (#):		2.0	
3		4.0"	0.653	Purge Vol. (gal):		3.65	
		6.0"	1.469	Well went dry?	No	**Yes**	
Gal. to be Purged: ***(AxBxC)***		8.0"	2.611	Conditions:	**No Odor**	Odor	
5.43					**Clear**	Slightly-Turbid	Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	Visual	g/L		mg/L		mV	
0	13:19	15.10	14.9	3012	2432	slight	1.9565	none	4.81	6.92	311.6	
0.21	13:24	15.89	15.0	3013	2437	clear	1.9565	none	1.59	6.70	224.2	
0.42	13:29	16.52	15.1	3011	2449	clear	1.9565	none	1.14	6.59	148.8	
0.63	13:34	16.97	15.3	3011	2456	clear	1.9565	none	0.66	6.52	79.6	
0.84	13:39	17.31	15.5	3012	2462	clear	1.9565	none	0.60	6.49	53.7	
1.05	13:44	17.94	15.5	3011	2465	clear	1.9565	none	0.59	6.48	36.1	
1.26	13:49	18.52	15.6	2999	2461	clear	1.9500	none	0.65	6.48	21.1	
1.47	13:54	19.05	15.6	2926	2401	clear	1.8915	none	0.54	6.51	-5.8	
1.68	13:59	19.78	15.6	2506	2056	clear	1.6250	none	0.70	6.49	-13.2	
1.89	14:04	20.50	15.6	2326	1907	clear	1.5145	none	1.11	6.47	-1.5	
2.1	14:09	21.02	15.5	2347	1920	clear	1.5275	none	1.30	6.46	14.8	
2.31	14:14	21.54	15.3	2336	1904	clear	1.5210	none	1.42	6.46	36.9	
2.52	14:19	22.12	15.2	2321	1888	clear	1.5080	none	1.47	6.46	48.8	
2.73	14:24	22.79	15.2	2242	1822	clear	1.4560	none	1.80	6.35	70.8	
2.94	14:29	23.38	15.2	2074	1684	clear	1.3455	none	2.62	6.44	102.9	
3.15	14:34	23.91	15.2	2004	1630	clear	1.3000	none	2.78	6.44	147.8	
3.36	14:39	24.38	15.2	1987	1616	clear	1.2935	none	2.77	6.44	182.1	
3.57	14:44	24.93	15.2	2063	1677	clear	1.3390	none	2.62	6.44	198.2	
	Well Went Dry at 14:46											
SAMPLE	15:05	19.74	14.9	1911	1544	slight	1.2415	none	4.32	6.60	301.0	

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite Sample Depth:

Weather: OVERCAST Barometric Pres.: Wind: BREEZY

Air Temp.(°F): 60ISH

Notes:

FIELD DUPLICATE COLLECTED HERE (KC-MW-DUP 1118)

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD
	PRIORITY POLLUTANT METALS	

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-02 1118	Sample Time:	12:19	Sample Matrix *(circle)*:	
Well ID:	MW-02	Sample Date:	11/1/2018	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.00	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: GOOD - INSTALLED NEW COMPRESSION PLUG AND DEDICATED TUBING FOR LOW-FLOW SAMPLING.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point: TOC-PVC

Depth to Bottom: 24.50

Depth to Water: 14.47

Water Column Height: ***(A)*** 10.03

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** 3

Gal. to be Purged: ***(AxBxC)*** 4.90

Pipe Width	***(B)*** Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	**0.163**
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: PERISTALTIC - LOW FLOW

Start Date: 11/1/2018

Start Time: 11:38:00 AM

Stop Time: 12:18:00 PM

Purge Rate (gpm): 0.04

Elapsed Time (min): 40

Well Vol. Purged (#): 0.9

Purge Vol. (gal): 1.4

Well went dry? **No** Yes

Conditions: No Odor **Odor**

Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	Visual	g/L		mg/L		mV	
0	11:38	14.47	15.6	1939	2412	clear	1.9045	septic	2.68	7.03	380.5	
0.18	11:43	15.43	15.7	2900	2388	clear	1.8850	septic	1.58	6.75	333.9	
0.36	11:48	16.31	15.9	2879	2380	clear	1.8720	septic	1.03	6.53	287.7	
0.54	11:53	17.12	16.0	2851	2362	clear	1.8525	septic	0.81	6.44	238.3	
0.72	11:58	17.83	16.1	2834	2351	clear	1.8395	septic	0.69	6.40	186.2	
0.9	12:03	18.51	16.1	2830	2349	clear	1.8395	septic	0.62	6.37	146.3	
1.08	12:08	19.51	16.1	2831	2352	clear	1.8395	septic	0.59	6.36	114.6	
1.26	12:13	20.22	16.0	2858	2370	clear	1.8590	septic	0.57	6.34	102.5	
1.44	12:18	>20.50	16.0	2870	2373	clear	1.8720	septic	0.54	6.33	92.4	

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth:

Weather: OVERCAST

Barometric Pres.:

Wind: BREEZY

Air Temp.(°F): 60ISH

Notes:

WATER LEVEL CANNOT BE MEASURED BELOW 20.50 FEET - A BAILER WAS FORMERLY LOST IN THIS WELL AND REMAINS WITHIN.

SAMPLE TURBIDITY SLIGHTLY INCREASED WHEN THE FLOW-THROUGH CELL WAS DISCONNECTED.

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD
	PRIORITY POLLUTANT METALS	

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-05 1118	Sample Time:	11:00	Sample Matrix *(circle)*:	
Well ID:	MW-05	Sample Date:	11/1/2018	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.00	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: GOOD - INSTALLED NEW COMPRESSION PLUG AND DEDICATED TUBING FOR LOW-FLOW SAMPLING.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point: TOC-PVC

Depth to Bottom: 24.30

Depth to Water: 8.15

Water Column Height: ***(A)*** 16.15

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** 3

Gal. to be Purged: ***(AxBxC)*** 7.90

Pipe Width	***(B)*** Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	**0.163**
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: PERISTALTIC - LOW FLOW

Start Date: 11/1/2018

Start Time: 10:24:00 AM

Stop Time: 10:59:00 AM

Purge Rate (gpm): 0.04

Elapsed Time (min): 35

Well Vol. Purged (#): 0.5

Purge Vol. (gal): 1.3

Well went dry? **No** Yes

Conditions: **No Odor** Odor

Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm^c	uS/cm	Visual	g/L		mg/L		mV	
0	10:24	8.15	16.7	5032	4234	clear	3.7260	none	2.41	7.27	414.5	
0.19	10:29	8.92	16.8	5086	4288	clear	3.3085	none	1.69	7.09	416.8	
0.38	10:34	9.45	16.8	5126	4322	clear	3.3345	none	1.28	6.85	416.7	
0.57	10:39	9.99	16.8	5124	4321	clear	3.3280	none	1.08	6.74	415.8	
0.76	10:44	10.40	16.7	4124	4315	clear	3.3280	none	0.93	6.69	415.0	
0.95	10:49	10.83	16.6	5121	4303	clear	3.3280	none	0.83	6.67	414.2	
1.14	10:54	11.27	16.7	5117	4301	clear	3.3280	none	0.75	6.65	413.4	
1.33	10:59	11.53	16.6	5117	4292	clear	3.3280	none	0.72	6.64	412.9	

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth:

Weather: OVERCAST

Barometric Pres.:

Wind: BREEZY

Air Temp.(^{o}F): 60ISH

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD
	PRIORITY POLLUTANT METALS	

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

DT CONSULTING SERVICES, INC.

SITE INSPECTION REPORT

Person performing Inspection: Eric J. Orlowski, PG **Date:** 11/01/2018 **Weather:** Overcast, 60ish, breezy

Signature: _____ **Page:** 1 of 2

SOIL COVER SYSTEM INSPECTION

Chestlist Items:	Acceptable	Not Accpetable	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. soil cover system due to 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 J. Orlowski, P.G. **Date:** 11/01/2018 **Weather:** Overcast, 60ish, breezy
Signature: _____ **Page:** 2 of 2

MONITORING WELL INSPECTION

Chestlist Items:	Acceptable	Not Accpetable	Remarks/Locations
The monitoring wells are in generally good condition.	☒	☐	
Well Caps are installed on the wells.	☒	☐	
Locks present and secured.	☒	☐	

SITE ACCESSIBILITY INSPECTION

Site accessible and passable.	☒	☐	

INSTITUTIONAL CONTROL INSPECTION

The Site continues to be utilized for commerical 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: 11/1/2018	**Inspector:** Eric Orlowski, PG		
	Yes	**No**	**General Comments/Notes**
Is the system running normally?	X		
Is the indicator light functioning?	X		
Is the electrical/ control panel secure?	X		
Does the inlet pipe (copper) feel cool/cold to the touch?	X		
Does the outlet pipe (copper) feel warm but not hot?	X		
Is the stack clear and evenly discharging air?	X		
Is there any water being exhausted from the stack?		X	
Does the effluent air have any noticeable odor?		X	
Does the blower feel warm but not hot?	X		
Does the blower sound as if it's running smoothly?	X		

System Readings		
Time	Pressure (in WC)	PID (ppm)
1530	0.22	0.0

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-01 0319	Sample Time:	13:39	Sample Matrix *(circle)* :	
Well ID:	MW-01	Sample Date:	3/28/2019	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.00	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: Good.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point: TOC-PVC ***(B)***

Depth to Bottom: 26.20

Depth to Water: 14.58

Water Column Height: ***(A)*** 11.62

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** 3

Gal. to be Purged: ***(AxBxC)*** 5.68

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	**0.163**
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: PERISTALTIC - LOW FLOW

Start Date: 3/28/2019

Start Time: 12:58:00 PM

Stop Time: 1:38:00 PM

Purge Rate (gpm): 0.05

Elapsed Time (min): 40

Well Vol. Purged (#): 1.1

Purge Vol. (gal): 2

Well went dry? **No** Yes

Conditions: **No Odor** Odor

Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	NTU	g/L		mg/L		mV	
0.0	12:58	14.58	11.8	2198	1648	155.5	1.4300	none	1.43	6.75	240.3	
0.25	13:03	14.78	12.1	2263	1704	49.16	1.4690	none	0.50	6.74	231.4	
0.50	13:08	14.78	11.9	2275	1708	25.97	1.4755	none	0.32	6.73	218.3	
0.75	13:13	14.78	11.9	2272	1704	26.57	1.4755	none	0.26	6.73	211.1	
1.00	13:18	14.78	11.9	2270	1704	23.37	1.4755	none	0.22	6.73	206.4	
1.25	13:23	14.79	12.0	2269	1704	22.47	1.4755	none	0.20	6.73	201.6	
1.50	13:28	14.79	11.2	1338	985	12.22	0.8645	none	3.80	6.87	214.4	
1.75	13:33	14.79	11.2	1232	908	9.37	0.7995	none	3.89	6.86	232.2	
2.00	13:38	14.79	11.2	1207	888	6.68	0.7865	none	3.91	6.87	243.8	

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth:

Weather: CLOUDY

Barometric Pres.:

Wind: WINDY

Air Temp.(°F): 40s

Notes: FIELD DUPLICATE COLLECTED HERE (KC-MW-DUP 0319)

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD
	PRIORITY POLLUTANT METALS	

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-02 0319	Sample Time:	14:15	Sample Matrix *(circle)*:	
Well ID:	MW-02	Sample Date:	3/28/2019	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.00	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: Good.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point: TOC-PVC

Depth to Bottom: 24.50

Depth to Water: 13.63

Water Column Height: ***(A)*** 10.87

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** 3

Gal. to be Purged: ***(AxBxC)*** 5.32

Pipe Width	***(B)*** Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	**0.163**
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: PERISTALTIC - LOW FLOW

Start Date: 3/28/2019

Start Time: 10:44:00 AM

Stop Time: 11:18:00 AM

Purge Rate (gpm): 0.05

Elapsed Time (min): 34

Well Vol. Purged (#): 1.0

Purge Vol. (gal): 1.7

Well went dry? No **Yes**

Conditions: **No Odor** Odor; **Clear** Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	NTU	g/L		mg/L		mV	
0	10:44	13.63	9.8	2901	2059	576.8	1.8915	none	2.01	6.81	320.8	
0.25	10:49	15.53	9.9	2937	2088	44.62	1.9110	none	1.30	6.61	333.0	
0.5	10:54	16.56	9.8	2980	2113	31.60	1.9370	none	0.78	6.58	339.1	
0.75	10:59	17.76	9.9	3095	2200	25.37	2.0150	none	0.68	6.57	341.2	
1	11:04	18.70	9.9	3204	2281	17.42	2.0800	none	0.45	6.56	342.0	
1.25	11:09	19.82	10.1	3194	2286	13.09	2.0735	none	0.38	6.59	340.8	
1.5	11:14	20.96	10.3	3068	2172	11.72	2.0550	none	0.35	6.58	337.9	
	Well Went Dry At 11:18											
SAMPLE	14:15	19.00	11.1	2870	2107	40.91	1.8655	none	2.31	6.84	286.4	

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth:

Weather: CLOUDY

Barometric Pres.:

Wind: BREEZY

Air Temp.(°F): 40ISH

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD
	PRIORITY POLLUTANT METALS	

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-05 0319	Sample Time:	10:18	Sample Matrix *(circle)*:	
Well ID:	MW-05	Sample Date:	3/28/2019	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.00	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: Good.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point: TOC-PVC

Depth to Bottom: 24.30

Depth to Water: 8.58

Water Column Height: ***(A)*** 15.72

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** 3

Gal. to be Purged: ***(AxBxC)*** 7.69

Pipe Width	***(B)*** Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	**0.163**
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: PERISTALTIC - LOW FLOW

Start Date: 3/28/2019

Start Time: 10:02:00 AM

Stop Time: 10:17:00 AM

Purge Rate (gpm): 0.05

Elapsed Time (min): 15

Well Vol. Purged (#): 0.3

Purge Vol. (gal): 0.75

Well went dry? **No** Yes

Conditions: **No Odor** Odor / **Clear** Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	NTU	g/L		mg/L		mV	
0	10:02	8.58	10.8	5023	3670	21.88	3.2630	none	5.71	6.95	340.5	
0.25	10:07	9.49	11.1	5023	4076	13.52	3.6050	none	3.55	6.93	344.5	
0.50	10:12	10.38	11.4	5568	4117	12.16	3.6205	none	3.39	6.93	344.3	
0.75	10:17	10.91	11.4	5566	4121	10.86	3.6205	none	3.46	6.93	343.4	

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth:

Weather: SUNNY, MOSTLY CLEAR

Barometric Pres.:

Wind: BREEZY

Air Temp.(^{o}F): HI 30s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD
	PRIORITY POLLUTANT METALS	

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-07 0319	Sample Time:	12:42	Sample Matrix *(circle)* :	
Well ID:	MW-07	Sample Date:	3/28/2019	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.00	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: Good.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point: TOC-PVC ***(B)***

Depth to Bottom: 27.60

Depth to Water: 9.93

Water Column Height: ***(A)*** 17.67

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** 3

Gal. to be Purged: ***(AxBxC)*** 2.17

Pipe Width	Gal/Foot
1.0"	**0.041**
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: PERISTALTIC - LOW FLOW

Start Date: 3/28/2019

Start Time: 11:56:00 AM

Stop Time: 12:41:00 PM

Purge Rate (gpm): 0.05

Elapsed Time (min): 45

Well Vol. Purged (#): 3.0

Purge Vol. (gal): 2.2

Well went dry? **No** Yes

Conditions: **No Odor** Odor

Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	NTU	g/L		mg/L		mV	
0.0	11:56	9.93	11.3	1639	1212	> 1100	1.0790	none	0.97	7.85	195.3	
0.25	12:01	9.94	11.6	1893	1407	300.0	1.2350	none	0.73	7.25	14.5	
0.50	12:06	9.94	11.3	2092	1543	179.7	1.3650	none	2.95	7.09	-66.0	
0.75	12:11	9.95	11.3	2180	1607	83.48	1.4170	none	3.87	7.05	11.1	
1.00	12:16	9.95	11.2	2207	1624	50.76	1.4365	none	4.53	7.04	85.3	
1.25	12:21	9.95	11.1	2217	1629	32.60	1.4430	none	4.87	7.02	119.7	
1.50	12:26	9.95	11.1	2222	1632	21.80	1.4430	none	4.98	7.03	151.5	
1.75	12:31	9.95	11.1	2225	1636	15.84	1.4495	none	5.17	7.04	174.7	
2.00	12:36	9.95	11.2	2230	1640	11.19	1.4495	none	5.19	7.01	188.5	
2.25	12:41	9.96	11.1	2231	1639	7.17	1.4495	none	5.28	7.01	200.2	

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth:

Weather: MOSTLY CLEAR, SUNNY

Barometric Pres.:

Wind: BREEZY

Air Temp.(^{o}F): 40s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

DT CONSULTING SERVICES, INC.

SITE INSPECTION REPORT

Person performing Inspection: Eric J. Orlowski **Date:** 3/28/2019 **Weather:** Cloudy, 40s, windy

Signature: EJOrlowski **Page:** 1 of 2

SOIL COVER SYSTEM INSPECTION

Chestlist Items:	Acceptable	Not Accpetable	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. soil cover system due to 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 J. Orlowski **Date:** 3/28/2019 **Weather:** Cloudy, 40s, windy
Signature:  **Page:** 2 of 2

MONITORING WELL INSPECTION

Chestlist Items:	Acceptable	Not Accpetable	Remarks/Locations
The monitoring wells are in generally good condition.	☒	☐	
Well Caps are installed on the wells.	☒	☐	
Locks present and secured.	☒	☐	

SITE ACCESSIBILITY INSPECTION

Site accessible and passable.	☒	☐	

INSTITUTIONAL CONTROL INSPECTION

The Site continues to be utilized for commerical 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: 3/28/2019	**Inspector:** Eric J. Orlowski, PG		
	Yes	**No**	**General Comments/Notes**
Is the system running normally?	X		
Is the indicator light functioning?	X		
Is the electrical/ control panel secure?	X		
Does the inlet pipe (copper) feel cool/cold to the touch?	X		
Does the outlet pipe (copper) feel warm but not hot?	X		
Is the stack clear and evenly discharging air?	X		
Is there any water being exhausted from the stack?		X	
Does the effluent air have any noticeable odor?		X	
Does the blower feel warm but not hot?	X		
Does the blower sound as if it's running smoothly?	X		

System Readings		
Time	Pressure (in WC)	PID (ppm)
1435	0.24	0.0

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: 1.730

Reporting Period: December 03, 2018 to December 03, 2018

	YES	NO
1. Is the information above correct?	X	☐
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?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
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?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

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

Parcel	Owner	Institutional Control
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

Parcel	Engineering Control
48.314-1-11.1	Cover System Vapor Mitigation

Box 5

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 compete.

YES	NO
X	☐

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
X	☐

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.

I Gedalia Oberlander (print name) at P.O. Box 367, Monsey, NY 10952 (print business address)

am certifying as Woodhaven National MGMT LLC (Owner or Remedial Party)

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

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

6/17/2019
Date

IC/EC CERTIFICATIONS

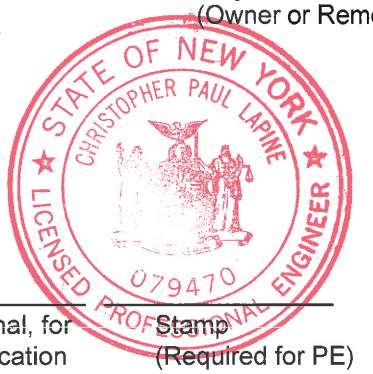
Box 7

Qualified Environmental Professional Signature

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

I Christopher Lapine (print name) at The Chazen Companies, 21 Fox Street, Poughkeepsie, NY 12601 (print business address)

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



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

Stamp (Required for PE)

6/26/19
Date

Appendix C:
Laboratory Data Reports (Digital File)

Table of Contents for York SDG 18K0078

Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Eric Orlowski

Report Date: 01/14/2019
Client Project ID: 41103.00 KINGSTON CVS
York Project (SDG) No.: 18K0078

Report Date: 01/14/2019
Client Project ID: 41103.00 KINGSTON CVS
York Project (SDG) No.: 18K0078

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 November 02, 2018 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 Sample and Analysis Qualifiers 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 Sample and Data Qualifiers Relating to This Work Order section of 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.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18K0078-01	KC-MW-01 1118	Water	11/01/2018	11/02/2018
18K0078-02	KC-MW-02 1118	Water	11/01/2018	11/02/2018
18K0078-03	KC-MW-05 1118	Water	11/01/2018	11/02/2018
18K0078-04	KC-FD-01 1118	Water	11/01/2018	11/02/2018
18K0078-05	KC-TB-01 1118	Water	11/01/2018	11/02/2018

General Notes for York Project (SDG) No.: 18K0078

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 analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 01/14/2019

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: KC-MW-01 1118 **York Sample ID:** 18K0078-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 3:45 pm	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**6.4**		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	**1,1-Dichloroethylene**	**24**		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	80	80	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-01 1118 **York Sample ID:** 18K0078-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 3:45 pm	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	2.0	4.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**8200**		ug/L	40	100	200	EPA 8260C	11/14/2018 12:33	11/14/2018 15:38	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-01 1118 **York Sample ID:** 18K0078-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 3:45 pm	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	2.0	4.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	2.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	1.0	2.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	**Toluene**	**0.64**	J	ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**270**		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**8800**		ug/L	40	100	200	EPA 8260C	11/14/2018 12:33	11/14/2018 15:38	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**1400**		ug/L	4.0	10	20	EPA 8260C	11/13/2018 11:40	11/13/2018 18:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	1.2	3.0	2	EPA 8260C	11/10/2018 03:58	11/10/2018 09:17	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*69.1 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*121 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-01 1118 **York Sample ID:** 18K0078-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 3:45 pm	11/02/2018

Metals, Priority Pollutant

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 11:58	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/L	0.017	1	EPA 6010D	11/06/2018 18:04	11/07/2018 11:58	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.0006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 11:58	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**0.006**		mg/L	0.003	1	EPA 6010D	11/06/2018 18:04	11/07/2018 11:58	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**0.008**		mg/L	0.006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 11:58	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.022	1	EPA 6010D	11/06/2018 18:04	11/07/2018 11:58	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 11:58	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**0.178**		mg/L	0.011	1	EPA 6010D	11/06/2018 18:04	11/07/2018 11:58	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**0.051**		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 11:58	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 11:58	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 11:58	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	Zinc	ND		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 11:58	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	11/07/2018 12:40	11/07/2018 17:12	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-02 1118 **York Sample ID:** 18K0078-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 12:19 pm	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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

Sample Information

Client Sample ID: KC-MW-02 1118 **York Sample ID:** 18K0078-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 12:19 pm	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**0.31**	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-02 1118 **York Sample ID:** 18K0078-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 12:19 pm	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	**Carbon disulfide**	**0.24**	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**13**		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-02 1118 **York Sample ID:** 18K0078-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 12:19 pm	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**0.36**	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**6.0**		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**2.7**		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/10/2018 03:58	11/10/2018 09:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*70.8 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*103 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*118 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-02 1118 **York Sample ID:** 18K0078-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 12:19 pm	11/02/2018

Metals, Priority Pollutant

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:00	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/L	0.017	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:00	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.0006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:00	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/L	0.003	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:00	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**0.007**		mg/L	0.006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:00	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**0.030**		mg/L	0.022	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:00	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**0.021**		mg/L	0.006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:00	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**0.019**		mg/L	0.011	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:00	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**0.056**		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:00	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:00	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:00	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**0.047**		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:00	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	11/07/2018 12:40	11/07/2018 17:22	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 1118 **York Sample ID:** 18K0078-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 11:00 am	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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

Sample Information

Client Sample ID: KC-MW-05 1118 **York Sample ID:** 18K0078-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 11:00 am	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**0.41**	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	**1,1-Dichloroethylene**	**0.46**	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 1118 **York Sample ID:** 18K0078-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 11:00 am	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	**Chloromethane**	**1.1**		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**26**		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 1118 **York Sample ID:** 18K0078-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 11:00 am	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**0.47**	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**70**		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**0.30**	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*80.8 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*120 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-05 1118 **York Sample ID:** 18K0078-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 11:00 am	11/02/2018

Metals, Priority Pollutant

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:03	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/L	0.017	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:03	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.0006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:03	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/L	0.003	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:03	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:03	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.022	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:03	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:03	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	Nickel	ND		mg/L	0.011	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:03	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**0.035**		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:03	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:03	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:03	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	Zinc	ND		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:03	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	11/07/2018 12:40	11/07/2018 17:33	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-FD-01 1118 **York Sample ID:** 18K0078-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 11:00 am	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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

Sample Information

Client Sample ID: KC-FD-01 1118 **York Sample ID:** 18K0078-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 11:00 am	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**5.7**		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	**1,1-Dichloroethylene**	**18**		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-FD-01 1118 **York Sample ID:** 18K0078-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 11:00 am	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	**Benzene**	**0.28**	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	**Carbon disulfide**	**0.37**	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**15000**		ug/L	40	100	200	EPA 8260C	11/14/2018 12:33	11/14/2018 16:04	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-FD-01 1118 **York Sample ID:** 18K0078-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 11:00 am	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	**Tetrachloroethylene**	**0.34**	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	**Toluene**	**0.44**	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**300**		ug/L	4.0	10	20	EPA 8260C	11/13/2018 11:40	11/13/2018 18:35	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**15000**		ug/L	40	100	200	EPA 8260C	11/14/2018 12:33	11/14/2018 16:04	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**1500**		ug/L	4.0	10	20	EPA 8260C	11/13/2018 11:40	11/13/2018 18:35	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/10/2018 03:58	11/10/2018 10:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*63.8 %*	S-08	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*111 %*		*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*112 %*		*79-122*

Sample Information

Client Sample ID: KC-FD-01 1118 **York Sample ID:** 18K0078-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 11:00 am	11/02/2018

Metals, Priority Pollutant

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:11	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/L	0.017	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:11	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.0006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:11	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**0.008**		mg/L	0.003	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:11	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:11	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**0.026**		mg/L	0.022	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:11	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**0.013**		mg/L	0.006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:11	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**0.182**		mg/L	0.011	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:11	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**0.046**		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:11	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.006	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:11	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:11	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**0.036**		mg/L	0.028	1	EPA 6010D	11/06/2018 18:04	11/07/2018 12:11	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	11/07/2018 12:40	11/07/2018 17:44	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-TB-01 1118 **York Sample ID:** 18K0078-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 9:45 am	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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

Sample Information

Client Sample ID: KC-TB-01 1118 **York Sample ID:** 18K0078-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 9:45 am	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-TB-01 1118 **York Sample ID:** 18K0078-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 9:45 am	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**7.3**		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-TB-01 1118 **York Sample ID:** 18K0078-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0078	41103.00 KINGSTON CVS	Water	November 1, 2018 9:45 am	11/02/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**0.28**	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**6.1**		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**0.65**		ug/L	0.20	0.50	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/10/2018 03:58	11/10/2018 11:03	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*69.7 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*120 %*	*79-122*

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 samples submitted to our laboratory on **11/02/2018 14:50** as detailed on the chain-of-custody form.

The 5 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (≤ 6°C) and documented as:

Cooler	Temp C°
Default Cooler	**2.2**

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

Methodology

All preparation and analyses were conducted according to the appropriate EPA methods detailed in the report.

Sample and Analysis Qualifiers

Sample Name	Matrix
KC-FD-01 1118	Water
KC-MW-01 1118	Water
KC-MW-02 1118	Water
KC-MW-05 1118	Water
KC-TB-01 1118	Water

Sample Name	Analysis	Analyte	Qualifier	Description
KC-FD-01 1118 (RE1)	Volatile Organics, 8260 - Comprehensive	ISTD: 1,2-Dichlorobenzene-d4	IS-01	This internal standard did not meet acceptance criteria. The sample was reanalyzed to confirm matrix interference. The associated compounds are flagged IS-Lo.

QC Sample Non-Conformances

Any QC sample non-conformances (CCV, LCS, DUP, MS) are detailed in the data package and in the attached tables.

No other problems were encountered during analysis.

York Project/SDG no.: 18K0078 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

Date: 1/14/2019

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

$$Cx\ (ug/m^3) = \frac{(ppbv \times Molecular\ wt.)}{(24.040)}$$

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

Soils/Waters

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

Medium Level Soils

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

4. Semi-Volatiles (waters and soils)

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

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

$$Cx = \frac{(Ax)(VE)(DF)}{(CF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

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

Case Narrative Non-Conformance Summary

Laboratory:	York Analytical Laboratories, Inc.	Client:	Chazen Environmental Services (Poughkeepsie)
Project:	41103.00 KINGSTON CVS	Lab Project No:	18K0078
Laboratory Sample ID(s):	18K0078-01 - 18K0078-05	Sampling Date(s):	11/01/2018 - 11/01/2018
Review Date(s):	01/14/2019 - 01/14/2019	Laboratory Reviewer(s):	KMB

QC Sample Nonconformances

Batch ID: BK80517 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BK80517-BS1	1,1,2-Trichloroethane - 79-00-5	7.6 ug/L	LCS	75.7	82-123	Low Bias				
BK80517-BS1	1,2-Dibromoethane - 106-93-4	7.6 ug/L	LCS	75.9	83-124	Low Bias				
BK80517-BS1	cis-1,3-Dichloropropylene - 10061-01-5	7.8 ug/L	LCS	78.3	80-131	Low Bias				
BK80517-BS1	Hexachlorobutadiene - 87-68-3	16 ug/L	LCS	161	67-146	High Bias				
BK80517-BS1	tert-Butyl alcohol (TBA) - 75-65-0	7.4 ug/L	LCS	14.7	25-162	Low Bias				
BK80517-BS1	trans-1,3-Dichloropropylene - 10061-02-6	7.4 ug/L	LCS	74.1	78-131	Low Bias				
BK80517-BSD1	1,1,2-Trichloroethane - 79-00-5	7.4 ug/L	LCS Dup	73.9	82-123	Low Bias	2.41	30		
BK80517-BSD1	Dibromochloromethane - 124-48-1	7.6 ug/L	LCS Dup	75.6	80-130	Low Bias	5.78	30		
BK80517-BSD1	Hexachlorobutadiene - 87-68-3	15 ug/L	LCS Dup	150	67-146	High Bias	7.52	30		
BK80517-BSD1	tert-Butyl alcohol (TBA) - 75-65-0	7.7 ug/L	LCS Dup	15.4	25-162	Low Bias	4.91	30		
BK80517-BSD1	trans-1,3-Dichloropropylene - 10061-02-6	6.9 ug/L	LCS Dup	69.4	78-131	Low Bias	6.55	30		

Batch ID: BK80632 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BK80632-BS1	1,1,2,2-Tetrachloroethane - 79-34-5	14 ug/L	LCS	136	76-129	High Bias				
BK80632-BS1	1,2,3-Trichloropropane - 96-18-4	14 ug/L	LCS	138	77-128	High Bias				
BK80632-BS1	Acetone - 67-64-1	16 ug/L	LCS	155	14-150	High Bias				
BK80632-BS1	Bromoform - 75-25-2	13 ug/L	LCS	133	78-133	High Bias				
BK80632-BS1	tert-Butyl alcohol (TBA) - 75-65-0	12 ug/L	LCS	24.7	25-162	Low Bias				
BK80632-BSD1	1,2,4-Trichlorobenzene - 120-82-1	7.4 ug/L	LCS Dup	74.1	76-137	Low Bias	18.0	30		
BK80632-BSD1	1,2-Dibromo-3-chloropropane - 96-12-8	4.5 ug/L	LCS Dup	44.8	45-147	Low Bias	83.7	30	Non-dir.	
BK80632-BSD1	1,4-Dioxane - 123-91-1	420 ug/L	LCS Dup	200	10-349		48.6	30	Non-dir.	
BK80632-BSD1	2-Butanone - 78-93-3	8.3 ug/L	LCS Dup	83.0	49-152		52.4	30	Non-dir.	
BK80632-BSD1	Acetone - 67-64-1	10 ug/L	LCS Dup	104	14-150		39.9	30	Non-dir.	
BK80632-BSD1	Acrolein - 107-02-8	2.6 ug/L	LCS Dup	25.6	10-153		124	30	Non-dir.	
BK80632-BSD1	tert-Butyl alcohol (TBA) - 75-65-0	62 ug/L	LCS Dup	123	25-162		133	30	Non-dir.	
BK80632-BSD1	Tetrachloroethylene - 127-18-4	7.8 ug/L	LCS Dup	78.5	82-131	Low Bias	14.6	30		

Batch ID: BK80724 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BK80724-BS1	tert-Butyl alcohol (TBA) - 75-65-0	9.2 ug/L	LCS	18.4	25-162	Low Bias				
BK80724-BSD1	1,2-Dichloropropane - 78-87-5	13 ug/L	LCS Dup	126	78-126	High Bias	6.97	30		
BK80724-BSD1	Dichlorodifluoromethane - 75-71-8	8.6 ug/L	LCS Dup	86.2	44-144		52.8	30	Non-dir.	
BK80724-BSD1	tert-Butyl alcohol (TBA) - 75-65-0	9.7 ug/L	LCS Dup	19.4	25-162	Low Bias	5.29	30		
BK80724-BSD1	Trichlorofluoromethane - 75-69-4	14 ug/L	LCS Dup	142	67-139	High Bias	19.9	30		

Batch ID: Y8K1229 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y8K1229-CCV1	1,1,2-Trichloroethane - 79-00-5	7.33 ug/L	Calibration Check	73.3	80-120	Low Bias				
Y8K1229-CCV1	1,2,4-Trimethylbenzene - 95-63-6	13.1 ug/L	Calibration Check	131	80-120	High Bias				
Y8K1229-CCV1	1,2-Dibromoethane - 106-93-4	7.45 ug/L	Calibration Check	74.5	80-120	Low Bias				
Y8K1229-CCV1	1,2-Dichloropropane - 78-87-5	7.81 ug/L	Calibration Check	78.1	80-120	Low Bias				
Y8K1229-CCV1	1,3,5-Trimethylbenzene - 108-67-8	14.0 ug/L	Calibration Check	140	80-120	High Bias				
Y8K1229-CCV1	2-Butanone - 78-93-3	7.49 ug/L	Calibration Check	74.9	80-120	Low Bias				
Y8K1229-CCV1	2-Hexanone - 591-78-6	5.21 ug/L	Calibration Check	52.1	80-120	Low Bias				
Y8K1229-CCV1	4-Methyl-2-pentanone - 108-10-1	5.17 ug/L	Calibration Check	51.7	80-120	Low Bias				
Y8K1229-CCV1	Acetone - 67-64-1	6.02 ug/L	Calibration Check	60.2	80-120	Low Bias				
Y8K1229-CCV1	Acrolein - 107-02-8	7.04 ug/L	Calibration Check	70.4	80-120	Low Bias				
Y8K1229-CCV1	Acrylonitrile - 107-13-1	7.86 ug/L	Calibration Check	78.6	80-120	Low Bias				
Y8K1229-CCV1	Bromodichloromethane - 75-27-4	7.77 ug/L	Calibration Check	77.7	80-120	Low Bias				
Y8K1229-CCV1	cis-1,3-Dichloropropylene - 10061-01-5	7.24 ug/L	Calibration Check	72.4	80-120	Low Bias				
Y8K1229-CCV1	Dibromochloromethane - 124-48-1	7.60 ug/L	Calibration Check	76.0	80-120	Low Bias				
Y8K1229-CCV1	Dibromomethane - 74-95-3	7.25 ug/L	Calibration Check	72.5	80-120	Low Bias				
Y8K1229-CCV1	Hexachlorobutadiene - 87-68-3	13.6 ug/L	Calibration Check	136	80-120	High Bias				
Y8K1229-CCV1	Isopropylbenzene - 98-82-8	13.7 ug/L	Calibration Check	137	80-120	High Bias				
Y8K1229-CCV1	n-Butylbenzene - 104-51-8	12.8 ug/L	Calibration Check	128	80-120	High Bias				
Y8K1229-CCV1	n-Propylbenzene - 103-65-1	13.6 ug/L	Calibration Check	136	80-120	High Bias				
Y8K1229-CCV1	p-Isopropyltoluene - 99-87-6	14.2 ug/L	Calibration Check	142	80-120	High Bias				
Y8K1229-CCV1	sec-Butylbenzene - 135-98-8	14.8 ug/L	Calibration Check	148	80-120	High Bias				
Y8K1229-CCV1	tert-Butyl alcohol (TBA) - 75-65-0	7.51 ug/L	Calibration Check	75.1	80-120	Low Bias				
Y8K1229-CCV1	tert-Butylbenzene - 98-06-6	14.9 ug/L	Calibration Check	149	80-120	High Bias				
Y8K1229-CCV1	trans-1,3-Dichloropropylene - 10061-02-6	6.53 ug/L	Calibration Check	65.3	80-120	Low Bias				

Batch ID: Y8K1339 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y8K1339-SCV1	1,2,3-Trichlorobenzene - 87-61-6	13.1 ug/L	Secondary Cal Check	131	70-130	High Bias				
Y8K1339-SCV1	1,4-Dioxane - 123-91-1	339 ug/L	Secondary Cal Check	162	70-130	High Bias				
Y8K1339-SCV1	Acrolein - 107-02-8	2.01 ug/L	Secondary Cal Check	20.1	70-130	Low Bias				
Y8K1339-SCV1	Bromomethane - 74-83-9	14.0 ug/L	Secondary Cal Check	140	70-130	High Bias				
Y8K1339-SCV1	sec-Butylbenzene - 135-98-8	13.2 ug/L	Secondary Cal Check	132	70-130	High Bias				

Batch ID: Y8K1410 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y8K1410-CCV1	1,1,2,2-Tetrachloroethane - 79-34-5	13.1 ug/L	Calibration Check	131	80-120	High Bias				
Y8K1410-CCV1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) - 76-13-1	12.1 ug/L	Calibration Check	121	80-120	High Bias				
Y8K1410-CCV1	1,2,3-Trichloropropane - 96-18-4	13.2 ug/L	Calibration Check	132	80-120	High Bias				
Y8K1410-CCV1	1,2-Dichloroethane - 107-06-2	12.3 ug/L	Calibration Check	123	80-120	High Bias				
Y8K1410-CCV1	1,4-Dioxane - 123-91-1	242 ug/L	Calibration Check	121	80-120	High Bias				
Y8K1410-CCV1	2-Butanone - 78-93-3	13.5 ug/L	Calibration Check	135	80-120	High Bias				
Y8K1410-CCV1	2-Hexanone - 591-78-6	12.0 ug/L	Calibration Check	120	80-120	High Bias				
Y8K1410-CCV1	Acetone - 67-64-1	14.5 ug/L	Calibration Check	145	80-120	High Bias				
Y8K1410-CCV1	Bromochloromethane - 74-97-5	12.2 ug/L	Calibration Check	122	80-120	High Bias				
Y8K1410-CCV1	Bromoform - 75-25-2	13.2 ug/L	Calibration Check	132	80-120	High Bias				
Y8K1410-CCV1	Bromomethane - 74-83-9	12.6 ug/L	Calibration Check	126	80-120	High Bias				
Y8K1410-CCV1	Methyl acetate - 79-20-9	12.3 ug/L	Calibration Check	123	80-120	High Bias				
Y8K1410-CCV1	trans-1,4-dichloro-2-butene - 110-57-6	13.2 ug/L	Calibration Check	132	80-120	High Bias				
Y8K1410-CCV1	Trichlorofluoromethane - 75-69-4	13.0 ug/L	Calibration Check	130	80-120	High Bias				

Batch ID: Y8K1430 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y8K1430-CCV1	Chloromethane - 74-87-3	7.82 ug/L	Calibration Check	78.2	80-120	Low Bias				
Y8K1430-CCV1	Dichlorodifluoromethane - 75-71-8	7.50 ug/L	Calibration Check	75.0	80-120	Low Bias				
Y8K1430-CCV1	Hexachlorobutadiene - 87-68-3	7.45 ug/L	Calibration Check	74.5	80-120	Low Bias				

Batch ID: Y8K0716 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y8K0716-CRL1	Lead - 7439-92-1	0.011 ug/mL	Instrument RL Check	215	70-130	High Bias				
Y8K0716-CRL1	Selenium - 7782-49-2	0.015 ug/mL	Instrument RL Check	59.1	70-130	Low Bias				
Y8K0716-CRL2	Arsenic - 7440-38-2	0.013 ug/mL	Instrument RL Check	177	70-130	High Bias				
Y8K0716-CRL2	Lead - 7439-92-1	0.004 ug/mL	Instrument RL Check	158	70-130	High Bias				
Y8K0716-CRL2	Selenium - 7782-49-2	0.008 ug/mL	Instrument RL Check	65.7	70-130	Low Bias				
Y8K0716-CRL2	Zinc - 7440-66-6	0.018 ug/mL	Instrument RL Check	146	70-130	High Bias				
Y8K0716-ICV1	Selenium - 7782-49-2	0.277 ug/mL	Initial Cal Check	111	90-110	High Bias				

Batch ID: BK80517 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
18K0078-01	KC-MW-01 1118
18K0078-02	KC-MW-02 1118
18K0078-03	KC-MW-05 1118
18K0078-04	KC-FD-01 1118
18K0078-05	KC-TB-01 1118
BK80517-BLK1	Blank
BK80517-BS1	LCS
BK80517-BSD1	LCS Dup

Batch ID: BK80632 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
18K0078-01RE1	KC-MW-01 1118
18K0078-04RE1	KC-FD-01 1118
BK80632-BLK1	Blank
BK80632-BS1	LCS
BK80632-BSD1	LCS Dup

Batch ID: BK80724 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
18K0078-01RE2	KC-MW-01 1118
18K0078-04RE2	KC-FD-01 1118
BK80724-BLK1	Blank
BK80724-BS1	LCS
BK80724-BSD1	LCS Dup

Laboratory:	York Analytical Laboratories, Inc.	Client:	Chazen Environmental Services (Poughkeepsie)
Project:	41103.00 KINGSTON CVS	Lab Project No:	18K0078
Laboratory Sample ID(s):	18K0078-01 - 18K0078-05	Sampling Date(s):	11/01/2018 - 11/01/2018
Review Date(s):	01/14/2019 - 01/14/2019	Laboratory Reviewer(s):	KMB

Sample Nonconformances

Volatile Organic Compounds by GC/MS

Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
18K0078-04 (KC-FD-01 1118)	Surrogate: SURR: 1,2-Dichloroethane-d4	6.38 ug/L	Surrogate	63.8	69-130	Low Bias				The recovery of this surrogate was outside of QC limits.

Notes: Other nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

Analytical Batch Summary

Batch ID: BK80320 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18K0078-01	KC-MW-01 1118	11/06/18
18K0078-02	KC-MW-02 1118	11/06/18
18K0078-03	KC-MW-05 1118	11/06/18
18K0078-04	KC-FD-01 1118	11/06/18
BK80320-BLK1	Blank	11/06/18
BK80320-BS1	LCS	11/06/18

Batch ID: BK80385 **Preparation Method:** EPA 7473 water **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18K0078-01	KC-MW-01 1118	11/07/18
18K0078-02	KC-MW-02 1118	11/07/18
18K0078-03	KC-MW-05 1118	11/07/18
18K0078-04	KC-FD-01 1118	11/07/18
BK80385-BLK1	Blank	11/07/18
BK80385-SRM1	Reference	11/07/18

Batch ID: BK80517 **Preparation Method:** EPA 5030B **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18K0078-01	KC-MW-01 1118	11/10/18
18K0078-02	KC-MW-02 1118	11/10/18
18K0078-03	KC-MW-05 1118	11/10/18
18K0078-04	KC-FD-01 1118	11/10/18
18K0078-05	KC-TB-01 1118	11/10/18
BK80517-BLK1	Blank	11/10/18
BK80517-BS1	LCS	11/10/18
BK80517-BSD1	LCS Dup	11/10/18

Batch ID: BK80632 **Preparation Method:** EPA 5030B **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
18K0078-01RE1	KC-MW-01 1118	11/13/18
18K0078-04RE1	KC-FD-01 1118	11/13/18
BK80632-BLK1	Blank	11/13/18
BK80632-BS1	LCS	11/13/18
BK80632-BSD1	LCS Dup	11/13/18

Batch ID: BK80724 **Preparation Method:** EPA 5030B **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18K0078-01RE2	KC-MW-01 1118	11/14/18
18K0078-04RE2	KC-FD-01 1118	11/14/18

BK80724-BLK1	Blank	11/14/18
BK80724-BS1	LCS	11/14/18
BK80724-BSD1	LCS Dup	11/14/18

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 BK80517 - EPA 5030B											
Blank (BK80517-BLK1)											
Prepared & Analyzed: 11/10/2018											
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	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	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	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	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	"								
Cyclohexane	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 acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	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 BK80517 - EPA 5030B											
Blank (BK80517-BLK1)								Prepared & Analyzed: 11/10/2018			
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-Butyl alcohol (TBA)	ND	1.0	"								
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	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*7.86*		*"*	*10.0*		*78.6*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.53*		*"*	*10.0*		*95.3*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.5*		*"*	*10.0*		*115*	*79-122*				
LCS (BK80517-BS1)								Prepared & Analyzed: 11/10/2018			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		96.7	82-126				
1,1,1-Trichloroethane	11		"	10.0		110	78-136				
1,1,2,2-Tetrachloroethane	9.6		"	10.0		96.2	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		119	54-165				
1,1,2-Trichloroethane	7.6		"	10.0		75.7	82-123	Low Bias			
1,1-Dichloroethane	10		"	10.0		103	82-129				
1,1-Dichloroethylene	10		"	10.0		103	68-138				
1,2,3-Trichlorobenzene	9.2		"	10.0		92.5	76-136				
1,2,3-Trichloropropane	10		"	10.0		103	77-128				
1,2,4-Trichlorobenzene	9.9		"	10.0		99.0	76-137				
1,2,4-Trimethylbenzene	11		"	10.0		107	82-132				
1,2-Dibromo-3-chloropropane	9.0		"	10.0		89.6	45-147				
1,2-Dibromoethane	7.6		"	10.0		75.9	83-124	Low Bias			
1,2-Dichlorobenzene	11		"	10.0		106	79-123				
1,2-Dichloroethane	8.6		"	10.0		86.1	73-132				
1,2-Dichloropropane	8.2		"	10.0		81.9	78-126				
1,3,5-Trimethylbenzene	11		"	10.0		111	80-131				
1,3-Dichlorobenzene	10		"	10.0		103	86-122				
1,4-Dichlorobenzene	9.2		"	10.0		92.1	85-124				
1,4-Dioxane	170		"	210		80.8	10-349				
2-Butanone	8.8		"	10.0		88.2	49-152				
2-Hexanone	5.3		"	10.0		52.6	51-146				
4-Methyl-2-pentanone	8.4		"	10.0		83.8	57-145				
Acetone	9.4		"	10.0		94.0	14-150				
Acrolein	7.3		"	10.0		72.9	10-153				
Acrylonitrile	8.1		"	10.0		81.3	51-150				
Benzene	11		"	10.0		108	85-126				
Bromochloromethane	8.7		"	10.0		86.8	77-128				

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 BK80517 - EPA 5030B											
LCS (BK80517-BS1)								Prepared & Analyzed: 11/10/2018			
Bromodichloromethane	8.2		ug/L	10.0		81.9	79-128				
Bromoform	8.2		"	10.0		82.4	78-133				
Bromomethane	10		"	10.0		104	43-168				
Carbon disulfide	11		"	10.0		112	68-146				
Carbon tetrachloride	11		"	10.0		111	77-141				
Chlorobenzene	10		"	10.0		101	88-120				
Chloroethane	11		"	10.0		107	65-136				
Chloroform	11		"	10.0		106	82-128				
Chloromethane	8.3		"	10.0		82.7	43-155				
cis-1,2-Dichloroethylene	9.5		"	10.0		95.4	83-129				
cis-1,3-Dichloropropylene	7.8		"	10.0		78.3	80-131	Low Bias			
Cyclohexane	11		"	10.0		110	63-149				
Dibromochloromethane	8.0		"	10.0		80.1	80-130				
Dibromomethane	8.3		"	10.0		82.6	72-134				
Dichlorodifluoromethane	12		"	10.0		116	44-144				
Ethyl Benzene	11		"	10.0		106	80-131				
Hexachlorobutadiene	16		"	10.0		161	67-146	High Bias			
Isopropylbenzene	12		"	10.0		118	76-140				
Methyl acetate	8.2		"	10.0		81.6	51-139				
Methyl tert-butyl ether (MTBE)	8.4		"	10.0		84.5	76-135				
Methylcyclohexane	11		"	10.0		108	72-143				
Methylene chloride	9.1		"	10.0		90.6	55-137				
n-Butylbenzene	11		"	10.0		105	79-132				
n-Propylbenzene	9.8		"	10.0		97.6	78-133				
o-Xylene	11		"	10.0		108	78-130				
p- & m- Xylenes	22		"	20.0		108	77-133				
p-Isopropyltoluene	12		"	10.0		117	81-136				
sec-Butylbenzene	13		"	10.0		127	79-137				
Styrene	11		"	10.0		106	67-132				
tert-Butyl alcohol (TBA)	7.4		"	50.0		14.7	25-162	Low Bias			
tert-Butylbenzene	12		"	10.0		116	77-138				
Tetrachloroethylene	12		"	10.0		125	82-131				
Toluene	9.6		"	10.0		96.5	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		100	80-132				
trans-1,3-Dichloropropylene	7.4		"	10.0		74.1	78-131	Low Bias			
trans-1,4-dichloro-2-butene	8.7		"	10.0		87.4	63-141				
Trichloroethylene	9.5		"	10.0		95.1	82-128				
Trichlorofluoromethane	12		"	10.0		119	67-139				
Vinyl Chloride	9.7		"	10.0		96.9	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*7.61*		*"*	*10.0*		*76.1*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.30*		*"*	*10.0*		*93.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*12.1*		*"*	*10.0*		*121*	*79-122*				

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 BK80517 - EPA 5030B											
LCS Dup (BK80517-BSD1)							Prepared & Analyzed: 11/10/2018				
1,1,1,2-Tetrachloroethane	9.1		ug/L	10.0		90.9	82-126		6.18	30	
1,1,1-Trichloroethane	11		"	10.0		106	78-136		3.05	30	
1,1,2,2-Tetrachloroethane	8.8		"	10.0		87.5	76-129		9.47	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		118	54-165		1.27	30	
1,1,2-Trichloroethane	7.4		"	10.0		73.9	82-123	Low Bias	2.41	30	
1,1-Dichloroethane	9.9		"	10.0		99.4	82-129		3.17	30	
1,1-Dichloroethylene	9.9		"	10.0		98.8	68-138		4.16	30	
1,2,3-Trichlorobenzene	8.9		"	10.0		88.6	76-136		4.31	30	
1,2,3-Trichloropropane	9.4		"	10.0		93.6	77-128		9.27	30	
1,2,4-Trichlorobenzene	9.3		"	10.0		93.0	76-137		6.25	30	
1,2,4-Trimethylbenzene	13		"	10.0		129	82-132		18.2	30	
1,2-Dibromo-3-chloropropane	8.4		"	10.0		84.1	45-147		6.33	30	
1,2-Dibromoethane	9.4		"	10.0		93.9	83-124		21.2	30	
1,2-Dichlorobenzene	9.7		"	10.0		96.8	79-123		9.26	30	
1,2-Dichloroethane	8.4		"	10.0		84.5	73-132		1.88	30	
1,2-Dichloropropane	9.2		"	10.0		91.8	78-126		11.4	30	
1,3,5-Trimethylbenzene	12		"	10.0		118	80-131		5.68	30	
1,3-Dichlorobenzene	12		"	10.0		117	86-122		12.9	30	
1,4-Dichlorobenzene	11		"	10.0		113	85-124		20.2	30	
1,4-Dioxane	170		"	210		78.9	10-349		2.45	30	
2-Butanone	8.0		"	10.0		80.1	49-152		9.63	30	
2-Hexanone	6.0		"	10.0		60.3	51-146		13.6	30	
4-Methyl-2-pentanone	8.3		"	10.0		83.4	57-145		0.478	30	
Acetone	9.1		"	10.0		90.8	14-150		3.46	30	
Acrolein	6.9		"	10.0		69.4	10-153		4.92	30	
Acrylonitrile	8.0		"	10.0		80.0	51-150		1.61	30	
Benzene	11		"	10.0		106	85-126		2.14	30	
Bromochloromethane	8.5		"	10.0		84.8	77-128		2.33	30	
Bromodichloromethane	8.0		"	10.0		80.4	79-128		1.85	30	
Bromoform	7.9		"	10.0		79.4	78-133		3.71	30	
Bromomethane	10		"	10.0		105	43-168		0.671	30	
Carbon disulfide	11		"	10.0		109	68-146		2.71	30	
Carbon tetrachloride	11		"	10.0		109	77-141		2.28	30	
Chlorobenzene	9.5		"	10.0		94.8	88-120		6.33	30	
Chloroethane	10		"	10.0		103	65-136		3.43	30	
Chloroform	10		"	10.0		102	82-128		3.17	30	
Chloromethane	11		"	10.0		106	43-155		25.2	30	
cis-1,2-Dichloroethylene	9.2		"	10.0		92.0	83-129		3.63	30	
cis-1,3-Dichloropropylene	9.1		"	10.0		91.4	80-131		15.4	30	
Cyclohexane	11		"	10.0		108	63-149		2.11	30	
Dibromochloromethane	7.6		"	10.0		75.6	80-130	Low Bias	5.78	30	
Dibromomethane	7.8		"	10.0		77.8	72-134		5.99	30	
Dichlorodifluoromethane	12		"	10.0		117	44-144		1.29	30	
Ethyl Benzene	9.8		"	10.0		98.3	80-131		7.54	30	
Hexachlorobutadiene	15		"	10.0		150	67-146	High Bias	7.52	30	
Isopropylbenzene	12		"	10.0		120	76-140		1.76	30	
Methyl acetate	8.7		"	10.0		87.1	51-139		6.52	30	
Methyl tert-butyl ether (MTBE)	8.4		"	10.0		84.3	76-135		0.237	30	
Methylcyclohexane	10		"	10.0		103	72-143		5.30	30	
Methylene chloride	8.8		"	10.0		88.2	55-137		2.68	30	
n-Butylbenzene	13		"	10.0		131	79-132		21.8	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 BK80517 - EPA 5030B											
LCS Dup (BK80517-BSD1)								Prepared & Analyzed: 11/10/2018			
n-Propylbenzene	11		ug/L	10.0		110	78-133		12.3	30	
o-Xylene	10		"	10.0		101	78-130		7.46	30	
p- & m- Xylenes	20		"	20.0		101	77-133		7.08	30	
p-Isopropyltoluene	9.5		"	10.0		95.4	81-136		20.6	30	
sec-Butylbenzene	12		"	10.0		116	79-137		8.80	30	
Styrene	9.9		"	10.0		99.3	67-132		6.24	30	
tert-Butyl alcohol (TBA)	7.7		"	50.0		15.4	25-162	Low Bias	4.91	30	
tert-Butylbenzene	13		"	10.0		133	77-138		14.1	30	
Tetrachloroethylene	11		"	10.0		108	82-131		14.0	30	
Toluene	9.0		"	10.0		89.8	80-127		7.19	30	
trans-1,2-Dichloroethylene	9.6		"	10.0		95.7	80-132		4.59	30	
trans-1,3-Dichloropropylene	6.9		"	10.0		69.4	78-131	Low Bias	6.55	30	
trans-1,4-dichloro-2-butene	8.0		"	10.0		80.1	63-141		8.72	30	
Trichloroethylene	8.8		"	10.0		87.8	82-128		7.98	30	
Trichlorofluoromethane	12		"	10.0		119	67-139		0.505	30	
Vinyl Chloride	9.6		"	10.0		96.2	58-145		0.725	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*8.16*		*"*	*10.0*		*81.6*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.30*		*"*	*10.0*		*93.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*12.1*		*"*	*10.0*		*121*	*79-122*				
Batch BK80632 - EPA 5030B											
Blank (BK80632-BLK1)								Prepared & Analyzed: 11/13/2018			
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	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	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	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								

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 BK80632 - EPA 5030B											
Blank (BK80632-BLK1)											
Prepared & Analyzed: 11/13/2018											
Bromodichloromethane	ND	0.50	ug/L								
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	"								
Cyclohexane	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 acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
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-Butyl alcohol (TBA)	ND	1.0	"								
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	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.1*		*"*	*10.0*		*111*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.44*		*"*	*10.0*		*94.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.3*		*"*	*10.0*		*113*	*79-122*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK80632 - EPA 5030B											
LCS (BK80632-BS1)								Prepared & Analyzed: 11/13/2018			
1,1,1,2-Tetrachloroethane	11		ug/L	10.0		111	82-126				
1,1,1-Trichloroethane	11		"	10.0		115	78-136				
1,1,2,2-Tetrachloroethane	14		"	10.0		136	76-129	High Bias			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		118	54-165				
1,1,2-Trichloroethane	11		"	10.0		110	82-123				
1,1-Dichloroethane	11		"	10.0		114	82-129				
1,1-Dichloroethylene	11		"	10.0		111	68-138				
1,2,3-Trichlorobenzene	9.0		"	10.0		90.5	76-136				
1,2,3-Trichloropropane	14		"	10.0		138	77-128	High Bias			
1,2,4-Trichlorobenzene	8.9		"	10.0		88.8	76-137				
1,2,4-Trimethylbenzene	12		"	10.0		116	82-132				
1,2-Dibromo-3-chloropropane	11		"	10.0		109	45-147				
1,2-Dibromoethane	12		"	10.0		117	83-124				
1,2-Dichlorobenzene	11		"	10.0		106	79-123				
1,2-Dichloroethane	12		"	10.0		125	73-132				
1,2-Dichloropropane	11		"	10.0		105	78-126				
1,3,5-Trimethylbenzene	12		"	10.0		118	80-131				
1,3-Dichlorobenzene	11		"	10.0		111	86-122				
1,4-Dichlorobenzene	11		"	10.0		110	85-124				
1,4-Dioxane	260		"	210		122	10-349				
2-Butanone	14		"	10.0		142	49-152				
2-Hexanone	13		"	10.0		125	51-146				
4-Methyl-2-pentanone	11		"	10.0		108	57-145				
Acetone	16		"	10.0		155	14-150	High Bias			
Acrolein	11		"	10.0		108	10-153				
Acrylonitrile	12		"	10.0		118	51-150				
Benzene	11		"	10.0		113	85-126				
Bromochloromethane	13		"	10.0		125	77-128				
Bromodichloromethane	11		"	10.0		111	79-128				
Bromoform	13		"	10.0		133	78-133				
Bromomethane	13		"	10.0		134	43-168				
Carbon disulfide	10		"	10.0		102	68-146				
Carbon tetrachloride	11		"	10.0		115	77-141				
Chlorobenzene	11		"	10.0		106	88-120				
Chloroethane	10		"	10.0		102	65-136				
Chloroform	12		"	10.0		117	82-128				
Chloromethane	8.9		"	10.0		89.4	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		114	83-129				
cis-1,3-Dichloropropylene	11		"	10.0		107	80-131				
Cyclohexane	10		"	10.0		104	63-149				
Dibromochloromethane	12		"	10.0		116	80-130				
Dibromomethane	11		"	10.0		114	72-134				
Dichlorodifluoromethane	9.5		"	10.0		94.8	44-144				
Ethyl Benzene	11		"	10.0		110	80-131				
Hexachlorobutadiene	8.1		"	10.0		81.1	67-146				
Isopropylbenzene	12		"	10.0		118	76-140				
Methyl acetate	12		"	10.0		122	51-139				
Methyl tert-butyl ether (MTBE)	12		"	10.0		120	76-135				
Methylcyclohexane	8.3		"	10.0		83.4	72-143				
Methylene chloride	11		"	10.0		114	55-137				
n-Butylbenzene	10		"	10.0		101	79-132				

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 BK80632 - EPA 5030B											
LCS (BK80632-BS1)								Prepared & Analyzed: 11/13/2018			
n-Propylbenzene	12		ug/L	10.0		120	78-133				
o-Xylene	12		"	10.0		115	78-130				
p- & m- Xylenes	22		"	20.0		112	77-133				
p-Isopropyltoluene	11		"	10.0		109	81-136				
sec-Butylbenzene	11		"	10.0		112	79-137				
Styrene	12		"	10.0		117	67-132				
tert-Butyl alcohol (TBA)	12		"	50.0		24.7	25-162	Low Bias			
tert-Butylbenzene	12		"	10.0		116	77-138				
Tetrachloroethylene	9.1		"	10.0		90.9	82-131				
Toluene	10		"	10.0		104	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		105	80-132				
trans-1,3-Dichloropropylene	11		"	10.0		111	78-131				
trans-1,4-dichloro-2-butene	14		"	10.0		136	63-141				
Trichloroethylene	9.8		"	10.0		97.9	82-128				
Trichlorofluoromethane	13		"	10.0		127	67-139				
Vinyl Chloride	9.7		"	10.0		96.6	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.4*		*"*	*10.0*		*114*	*69-130*				
Surrogate: SURR: Toluene-d8	*8.97*		*"*	*10.0*		*89.7*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.3*		*"*	*10.0*		*113*	*79-122*				
LCS Dup (BK80632-BSD1)								Prepared & Analyzed: 11/13/2018			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		104	82-126		6.25	30	
1,1,1-Trichloroethane	11		"	10.0		110	78-136		3.91	30	
1,1,2,2-Tetrachloroethane	12		"	10.0		121	76-129		12.1	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13		"	10.0		125	54-165		5.67	30	
1,1,2-Trichloroethane	9.7		"	10.0		97.3	82-123		11.8	30	
1,1-Dichloroethane	11		"	10.0		110	82-129		3.83	30	
1,1-Dichloroethylene	11		"	10.0		109	68-138		2.18	30	
1,2,3-Trichlorobenzene	8.1		"	10.0		81.2	76-136		10.8	30	
1,2,3-Trichloropropane	12		"	10.0		118	77-128		15.4	30	
1,2,4-Trichlorobenzene	7.4		"	10.0		74.1	76-137	Low Bias	18.0	30	
1,2,4-Trimethylbenzene	11		"	10.0		109	82-132		5.87	30	
1,2-Dibromo-3-chloropropane	4.5		"	10.0		44.8	45-147	Low Bias	83.7	30	Non-dir.
1,2-Dibromoethane	10		"	10.0		105	83-124		10.6	30	
1,2-Dichlorobenzene	9.8		"	10.0		98.0	79-123		8.03	30	
1,2-Dichloroethane	12		"	10.0		119	73-132		4.43	30	
1,2-Dichloropropane	9.5		"	10.0		95.3	78-126		9.78	30	
1,3,5-Trimethylbenzene	10		"	10.0		105	80-131		11.2	30	
1,3-Dichlorobenzene	10		"	10.0		104	86-122		6.14	30	
1,4-Dichlorobenzene	10		"	10.0		102	85-124		6.97	30	
1,4-Dioxane	420		"	210		200	10-349		48.6	30	Non-dir.
2-Butanone	8.3		"	10.0		83.0	49-152		52.4	30	Non-dir.
2-Hexanone	10		"	10.0		102	51-146		20.0	30	
4-Methyl-2-pentanone	10		"	10.0		104	57-145		3.68	30	
Acetone	10		"	10.0		104	14-150		39.9	30	Non-dir.
Acrolein	2.6		"	10.0		25.6	10-153		124	30	Non-dir.
Acrylonitrile	12		"	10.0		124	51-150		5.22	30	
Benzene	11		"	10.0		109	85-126		4.05	30	
Bromochloromethane	12		"	10.0		115	77-128		8.15	30	
Bromodichloromethane	10		"	10.0		104	79-128		6.03	30	
Bromoform	12		"	10.0		118	78-133		12.2	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 BK80632 - EPA 5030B											
LCS Dup (BK80632-BSD1)							Prepared & Analyzed: 11/13/2018				
Bromomethane	13		ug/L	10.0		129	43-168		3.72	30	
Carbon disulfide	10		"	10.0		104	68-146		2.33	30	
Carbon tetrachloride	11		"	10.0		114	77-141		0.874	30	
Chlorobenzene	9.8		"	10.0		98.4	88-120		7.81	30	
Chloroethane	10		"	10.0		102	65-136		0.391	30	
Chloroform	11		"	10.0		110	82-128		6.78	30	
Chloromethane	8.9		"	10.0		88.8	43-155		0.673	30	
cis-1,2-Dichloroethylene	11		"	10.0		107	83-129		6.33	30	
cis-1,3-Dichloropropylene	9.8		"	10.0		97.9	80-131		9.07	30	
Cyclohexane	11		"	10.0		110	63-149		6.25	30	
Dibromochloromethane	11		"	10.0		106	80-130		8.93	30	
Dibromomethane	10		"	10.0		105	72-134		8.15	30	
Dichlorodifluoromethane	7.4		"	10.0		73.8	44-144		24.9	30	
Ethyl Benzene	11		"	10.0		106	80-131		4.35	30	
Hexachlorobutadiene	6.9		"	10.0		69.2	67-146		15.8	30	
Isopropylbenzene	10		"	10.0		105	76-140		12.0	30	
Methyl acetate	11		"	10.0		107	51-139		13.2	30	
Methyl tert-butyl ether (MTBE)	12		"	10.0		116	76-135		3.06	30	
Methylcyclohexane	8.9		"	10.0		89.3	72-143		6.83	30	
Methylene chloride	11		"	10.0		111	55-137		2.66	30	
n-Butylbenzene	9.9		"	10.0		98.6	79-132		2.70	30	
n-Propylbenzene	11		"	10.0		109	78-133		10.1	30	
o-Xylene	11		"	10.0		115	78-130		0.0870	30	
p- & m- Xylenes	21		"	20.0		107	77-133		4.42	30	
p-Isopropyltoluene	10		"	10.0		105	81-136		3.84	30	
sec-Butylbenzene	11		"	10.0		114	79-137		1.15	30	
Styrene	11		"	10.0		113	67-132		3.55	30	
tert-Butyl alcohol (TBA)	62		"	50.0		123	25-162		133	30	Non-dir.
tert-Butylbenzene	10		"	10.0		105	77-138		9.89	30	
Tetrachloroethylene	7.8		"	10.0		78.5	82-131	Low Bias	14.6	30	
Toluene	10		"	10.0		103	80-127		0.0967	30	
trans-1,2-Dichloroethylene	10		"	10.0		102	80-132		2.60	30	
trans-1,3-Dichloropropylene	10		"	10.0		102	78-131		8.16	30	
trans-1,4-dichloro-2-butene	12		"	10.0		119	63-141		13.8	30	
Trichloroethylene	9.7		"	10.0		97.2	82-128		0.718	30	
Trichlorofluoromethane	13		"	10.0		129	67-139		1.95	30	
Vinyl Chloride	10		"	10.0		103	58-145		6.41	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.9*		*"*	*10.0*		*119*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.45*		*"*	*10.0*		*94.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.7*		*"*	*10.0*		*107*	*79-122*				

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 BK80724 - EPA 5030B											
Blank (BK80724-BLK1)											
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	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	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	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	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	"								
Cyclohexane	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 acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								

Prepared & Analyzed: 11/14/2018

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 BK80724 - EPA 5030B											
Blank (BK80724-BLK1)											Prepared & Analyzed: 11/14/2018
n-Propylbenzene	ND	0.50	ug/L								
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-Butyl alcohol (TBA)	ND	1.0	"								
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	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: SURR: Toluene-d8	*11.2*		*"*	*10.0*		*112*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*8.11*		*"*	*10.0*		*81.1*	*79-122*				
LCS (BK80724-BS1)											Prepared & Analyzed: 11/14/2018
1,1,1,2-Tetrachloroethane	11		ug/L	10.0		106	82-126				
1,1,1-Trichloroethane	11		"	10.0		110	78-136				
1,1,2,2-Tetrachloroethane	8.9		"	10.0		89.2	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		112	54-165				
1,1,2-Trichloroethane	11		"	10.0		109	82-123				
1,1-Dichloroethane	11		"	10.0		110	82-129				
1,1-Dichloroethylene	11		"	10.0		108	68-138				
1,2,3-Trichlorobenzene	8.6		"	10.0		85.9	76-136				
1,2,3-Trichloropropane	9.3		"	10.0		92.6	77-128				
1,2,4-Trichlorobenzene	8.5		"	10.0		85.0	76-137				
1,2,4-Trimethylbenzene	9.7		"	10.0		97.3	82-132				
1,2-Dibromo-3-chloropropane	9.2		"	10.0		92.0	45-147				
1,2-Dibromoethane	11		"	10.0		106	83-124				
1,2-Dichlorobenzene	10		"	10.0		102	79-123				
1,2-Dichloroethane	11		"	10.0		109	73-132				
1,2-Dichloropropane	12		"	10.0		118	78-126				
1,3,5-Trimethylbenzene	9.6		"	10.0		95.9	80-131				
1,3-Dichlorobenzene	9.7		"	10.0		97.4	86-122				
1,4-Dichlorobenzene	9.8		"	10.0		98.3	85-124				
1,4-Dioxane	210		"	210		100	10-349				
2-Butanone	12		"	10.0		118	49-152				
2-Hexanone	10		"	10.0		104	51-146				
4-Methyl-2-pentanone	9.9		"	10.0		99.1	57-145				
Acetone	13		"	10.0		126	14-150				
Acrolein	8.1		"	10.0		80.6	10-153				
Acrylonitrile	10		"	10.0		102	51-150				
Benzene	11		"	10.0		108	85-126				
Bromochloromethane	11		"	10.0		109	77-128				
Bromodichloromethane	12		"	10.0		119	79-128				

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 BK80724 - EPA 5030B											
LCS (BK80724-BS1)								Prepared & Analyzed: 11/14/2018			
Bromoform	8.3		ug/L	10.0		82.9	78-133				
Bromomethane	9.0		"	10.0		89.9	43-168				
Carbon disulfide	8.7		"	10.0		87.0	68-146				
Carbon tetrachloride	11		"	10.0		106	77-141				
Chlorobenzene	9.9		"	10.0		99.4	88-120				
Chloroethane	8.8		"	10.0		88.1	65-136				
Chloroform	11		"	10.0		112	82-128				
Chloromethane	7.1		"	10.0		70.9	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		110	83-129				
cis-1,3-Dichloropropylene	12		"	10.0		116	80-131				
Cyclohexane	9.6		"	10.0		95.6	63-149				
Dibromochloromethane	10		"	10.0		103	80-130				
Dibromomethane	12		"	10.0		117	72-134				
Dichlorodifluoromethane	5.0		"	10.0		50.2	44-144				
Ethyl Benzene	10		"	10.0		105	80-131				
Hexachlorobutadiene	7.9		"	10.0		79.3	67-146				
Isopropylbenzene	10		"	10.0		99.7	76-140				
Methyl acetate	10		"	10.0		101	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		107	76-135				
Methylcyclohexane	9.3		"	10.0		92.9	72-143				
Methylene chloride	10		"	10.0		105	55-137				
n-Butylbenzene	9.7		"	10.0		97.1	79-132				
n-Propylbenzene	9.7		"	10.0		96.8	78-133				
o-Xylene	10		"	10.0		101	78-130				
p- & m- Xylenes	21		"	20.0		103	77-133				
p-Isopropyltoluene	9.4		"	10.0		94.3	81-136				
sec-Butylbenzene	9.2		"	10.0		91.6	79-137				
Styrene	9.8		"	10.0		97.5	67-132				
tert-Butyl alcohol (TBA)	9.2		"	50.0		18.4	25-162	Low Bias			
tert-Butylbenzene	9.2		"	10.0		91.8	77-138				
Tetrachloroethylene	9.9		"	10.0		98.7	82-131				
Toluene	11		"	10.0		112	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		102	80-132				
trans-1,3-Dichloropropylene	11		"	10.0		109	78-131				
trans-1,4-dichloro-2-butene	8.7		"	10.0		86.9	63-141				
Trichloroethylene	11		"	10.0		114	82-128				
Trichlorofluoromethane	12		"	10.0		117	67-139				
Vinyl Chloride	8.2		"	10.0		82.2	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.1*		*"*	*10.0*		*111*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.3*		*"*	*10.0*		*103*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.03*		*"*	*10.0*		*90.3*	*79-122*				

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 BK80724 - EPA 5030B											
LCS Dup (BK80724-BSD1)							Prepared & Analyzed: 11/14/2018				
1,1,1,2-Tetrachloroethane	11		ug/L	10.0		114	82-126		7.54	30	
1,1,1-Trichloroethane	12		"	10.0		122	78-136		11.0	30	
1,1,2,2-Tetrachloroethane	9.0		"	10.0		90.5	76-129		1.45	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13		"	10.0		135	54-165		18.5	30	
1,1,2-Trichloroethane	12		"	10.0		116	82-123		5.42	30	
1,1-Dichloroethane	12		"	10.0		119	82-129		8.12	30	
1,1-Dichloroethylene	12		"	10.0		120	68-138		10.4	30	
1,2,3-Trichlorobenzene	8.7		"	10.0		87.2	76-136		1.50	30	
1,2,3-Trichloropropane	9.4		"	10.0		94.0	77-128		1.50	30	
1,2,4-Trichlorobenzene	9.0		"	10.0		89.9	76-137		5.60	30	
1,2,4-Trimethylbenzene	10		"	10.0		103	82-132		6.08	30	
1,2-Dibromo-3-chloropropane	9.6		"	10.0		95.9	45-147		4.15	30	
1,2-Dibromoethane	11		"	10.0		112	83-124		6.33	30	
1,2-Dichlorobenzene	11		"	10.0		109	79-123		6.62	30	
1,2-Dichloroethane	12		"	10.0		121	73-132		10.1	30	
1,2-Dichloropropane	13		"	10.0		126	78-126		6.97	30	
1,3,5-Trimethylbenzene	10		"	10.0		102	80-131		6.65	30	
1,3-Dichlorobenzene	10		"	10.0		104	86-122		6.07	30	
1,4-Dichlorobenzene	10		"	10.0		104	85-124		5.64	30	
1,4-Dioxane	210		"	210		101	10-349		1.13	30	
2-Butanone	12		"	10.0		120	49-152		1.93	30	
2-Hexanone	10		"	10.0		105	51-146		0.191	30	
4-Methyl-2-pentanone	10		"	10.0		103	57-145		3.57	30	
Acetone	12		"	10.0		123	14-150		2.48	30	
Acrolein	8.1		"	10.0		81.4	10-153		0.988	30	
Acrylonitrile	7.8		"	10.0		77.7	51-150		27.1	30	
Benzene	12		"	10.0		116	85-126		7.43	30	
Bromochloromethane	12		"	10.0		118	77-128		7.82	30	
Bromodichloromethane	13		"	10.0		127	79-128		6.34	30	
Bromoform	8.3		"	10.0		82.7	78-133		0.242	30	
Bromomethane	11		"	10.0		114	43-168		23.6	30	
Carbon disulfide	9.6		"	10.0		96.1	68-146		9.94	30	
Carbon tetrachloride	12		"	10.0		121	77-141		13.9	30	
Chlorobenzene	11		"	10.0		106	88-120		6.61	30	
Chloroethane	10		"	10.0		100	65-136		13.1	30	
Chloroform	12		"	10.0		120	82-128		7.17	30	
Chloromethane	8.0		"	10.0		80.5	43-155		12.7	30	
cis-1,2-Dichloroethylene	12		"	10.0		117	83-129		6.45	30	
cis-1,3-Dichloropropylene	12		"	10.0		124	80-131		7.33	30	
Cyclohexane	12		"	10.0		119	63-149		21.6	30	
Dibromochloromethane	11		"	10.0		107	80-130		3.90	30	
Dibromomethane	12		"	10.0		124	72-134		5.75	30	
Dichlorodifluoromethane	8.6		"	10.0		86.2	44-144		52.8	30	Non-dir.
Ethyl Benzene	11		"	10.0		114	80-131		8.23	30	
Hexachlorobutadiene	8.4		"	10.0		84.3	67-146		6.11	30	
Isopropylbenzene	11		"	10.0		106	76-140		6.41	30	
Methyl acetate	10		"	10.0		99.5	51-139		1.20	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		112	76-135		5.03	30	
Methylcyclohexane	12		"	10.0		122	72-143		26.8	30	
Methylene chloride	11		"	10.0		111	55-137		5.84	30	
n-Butylbenzene	11		"	10.0		108	79-132		10.8	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 BK80724 - EPA 5030B											
LCS Dup (BK80724-BSD1)								Prepared & Analyzed: 11/14/2018			
n-Propylbenzene	10		ug/L	10.0		104	78-133		6.98	30	
o-Xylene	11		"	10.0		106	78-130		5.41	30	
p- & m- Xylenes	22		"	20.0		111	77-133		8.03	30	
p-Isopropyltoluene	10		"	10.0		102	81-136		7.65	30	
sec-Butylbenzene	10		"	10.0		101	79-137		9.37	30	
Styrene	10		"	10.0		102	67-132		4.02	30	
tert-Butyl alcohol (TBA)	9.7		"	50.0		19.4	25-162	Low Bias	5.29	30	
tert-Butylbenzene	9.9		"	10.0		99.3	77-138		7.85	30	
Tetrachloroethylene	11		"	10.0		110	82-131		11.2	30	
Toluene	12		"	10.0		123	80-127		9.60	30	
trans-1,2-Dichloroethylene	11		"	10.0		112	80-132		9.27	30	
trans-1,3-Dichloropropylene	12		"	10.0		116	78-131		5.87	30	
trans-1,4-dichloro-2-butene	8.9		"	10.0		88.9	63-141		2.28	30	
Trichloroethylene	13		"	10.0		125	82-128		8.85	30	
Trichlorofluoromethane	14		"	10.0		142	67-139	High Bias	19.9	30	
Vinyl Chloride	9.8		"	10.0		98.5	58-145		18.0	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.6*		*"*	*10.0*		*106*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*8.85*		*"*	*10.0*		*88.5*	*79-122*				

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 BK80320 - EPA 3015A											
Blank (BK80320-BLK1)											Prepared: 11/06/2018 Analyzed: 11/07/2018
Antimony	ND	0.028	mg/L								
Arsenic	ND	0.017	"								
Beryllium	ND	0.0006	"								
Cadmium	ND	0.003	"								
Chromium	ND	0.006	"								
Copper	ND	0.022	"								
Lead	ND	0.006	"								
Nickel	ND	0.011	"								
Selenium	ND	0.028	"								
Silver	ND	0.006	"								
Thallium	ND	0.028	"								
Zinc	ND	0.028	"								
LCS (BK80320-BS1)											Prepared: 11/06/2018 Analyzed: 11/07/2018
Antimony	0.253		ug/mL	0.250		101	80-120				
Arsenic	1.82		"	2.00		91.2	80-120				
Beryllium	0.049		"	0.0500		97.4	80-120				
Cadmium	0.049		"	0.0500		97.1	80-120				
Chromium	0.202		"	0.200		101	80-120				
Copper	0.259		"	0.250		103	80-120				
Lead	0.493		"	0.500		98.7	80-120				
Nickel	0.524		"	0.500		105	80-120				
Selenium	1.68		"	2.00		84.2	80-120				
Silver	0.052		"	0.0500		105	80-120				
Thallium	2.01		"	2.00		101	80-120				
Zinc	0.497		"	0.500		99.5	80-120				

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 BK80385 - EPA 7473 water											
Blank (BK80385-BLK1)									Prepared & Analyzed: 11/07/2018		
Mercury	ND	0.00020	mg/L								
Reference (BK80385-SRM1)									Prepared & Analyzed: 11/07/2018		
Mercury	0.00956		mg/L	0.0100		95.6	70-130				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18K0078-01	KC-MW-01 1118	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K0078-02	KC-MW-02 1118	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K0078-03	KC-MW-05 1118	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K0078-04	KC-FD-01 1118	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K0078-05	KC-TB-01 1118	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
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-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
M-CRL	The RL check for this element recovered outside of control limits.
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).

Definitions and Other Explanations

*	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.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Laboratory Chain-of-Custody Record

York Project (SDG) No.: 18K0078

Samples Received: 11/02/2018 14:50 **By:** Terri Gale **Logged In:** 11/02/2018 14:50 **By:** Terri Gale

Sample Conditions:

- [x] Custody Seals
- [x] Containers Intact
- [x] COC/Labels Agree
- [x] Preservation Confirmed
- [x] Cooler Temperature Confirmed
- [x] COC Complete
- [x] Chain of Custody Form Received
- [x] Appropriate Sample Volumes Received
- [x] Appropriate Sample Containers Submitted
- [x] Samples Submitted within Holding Times
- [ ] Corrective Action Form Required

Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
18K0078-01	EPA 3015A	11/06/2018 18:04	11/06/2018 18:04	Sarah Yu
18K0078-02	EPA 3015A	11/06/2018 18:04	11/06/2018 18:04	Sarah Yu
18K0078-03	EPA 3015A	11/06/2018 18:04	11/06/2018 18:04	Sarah Yu
18K0078-04	EPA 3015A	11/06/2018 18:04	11/06/2018 18:04	Sarah Yu
18K0078-01	EPA 5030B	11/10/2018 3:58	11/10/2018 3:58	Larry D Singh
18K0078-01RE1	EPA 5030B	11/13/2018 11:40	11/13/2018 11:40	Taylor M. Pasquence
18K0078-01RE2	EPA 5030B	11/14/2018 12:33	11/14/2018 12:33	Larry D Singh
18K0078-02	EPA 5030B	11/10/2018 3:58	11/10/2018 3:58	Larry D Singh
18K0078-03	EPA 5030B	11/10/2018 3:58	11/10/2018 3:58	Larry D Singh
18K0078-04	EPA 5030B	11/10/2018 3:58	11/10/2018 3:58	Larry D Singh
18K0078-04RE1	EPA 5030B	11/13/2018 11:40	11/13/2018 11:40	Taylor M. Pasquence
18K0078-04RE2	EPA 5030B	11/14/2018 12:33	11/14/2018 12:33	Larry D Singh
18K0078-05	EPA 5030B	11/10/2018 3:58	11/10/2018 3:58	Larry D Singh
18K0078-01	EPA 7473 water	11/07/2018 12:40	11/07/2018 12:40	Sarah Yu
18K0078-02	EPA 7473 water	11/07/2018 12:40	11/07/2018 12:40	Sarah Yu
18K0078-03	EPA 7473 water	11/07/2018 12:40	11/07/2018 12:40	Sarah Yu
18K0078-04	EPA 7473 water	11/07/2018 12:40	11/07/2018 12:40	Sarah Yu

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
18K0078-01	Mercury by 7473	11/07/2018 12:40	11/07/2018 17:12	Sarah Yu
18K0078-02	Mercury by 7473	11/07/2018 12:40	11/07/2018 17:22	Sarah Yu
18K0078-03	Mercury by 7473	11/07/2018 12:40	11/07/2018 17:33	Sarah Yu
18K0078-04	Mercury by 7473	11/07/2018 12:40	11/07/2018 17:44	Sarah Yu

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
18K0078-01	Metals, Priority Pollutant	11/06/2018 18:04	11/07/2018 11:58	Kristin M. Lopez
18K0078-02	Metals, Priority Pollutant	11/06/2018 18:04	11/07/2018 12:00	Kristin M. Lopez
18K0078-03	Metals, Priority Pollutant	11/06/2018 18:04	11/07/2018 12:03	Kristin M. Lopez
18K0078-04	Metals, Priority Pollutant	11/06/2018 18:04	11/07/2018 12:11	Kristin M. Lopez
18K0078-01	Volatile Organics, 8260 - Comprehens	11/10/2018 3:58	11/10/2018 9:17	Lie Ling Jauw
18K0078-01RE1	Volatile Organics, 8260 - Comprehens	11/13/2018 11:40	11/13/2018 18:09	Lie Ling Jauw
18K0078-01RE2	Volatile Organics, 8260 - Comprehens	11/14/2018 12:33	11/14/2018 15:38	Lie Ling Jauw
18K0078-02	Volatile Organics, 8260 - Comprehens	11/10/2018 3:58	11/10/2018 9:44	Lie Ling Jauw
18K0078-03	Volatile Organics, 8260 - Comprehens	11/10/2018 3:58	11/10/2018 10:10	Lie Ling Jauw
18K0078-04	Volatile Organics, 8260 - Comprehens	11/10/2018 3:58	11/10/2018 10:37	Lie Ling Jauw
18K0078-04RE1	Volatile Organics, 8260 - Comprehens	11/13/2018 11:40	11/13/2018 18:35	Lie Ling Jauw
18K0078-04RE2	Volatile Organics, 8260 - Comprehens	11/14/2018 12:33	11/14/2018 16:04	Lie Ling Jauw
18K0078-05	Volatile Organics, 8260 - Comprehens	11/10/2018 3:58	11/10/2018 11:03	Lie Ling Jauw

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

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.

York Project No. 18K0078

YOUR Information	**Report To:**	**Invoice To:**
Company: CHAZEN	Company: CHAZEN	Company: CHAZEN
Address:	Address:	Address:
Phone No.	Phone No.	Phone No.
Contact Person: ERIC ORLOWSKI	Attention: ERIC ORLOWSKI	Attention: ACCTS PAYABLE
E-Mail Address:	E-Mail Address:	E-Mail Address:

YOUR Project ID
41103.00
KINGSTON CVS

Purchase Order No.
03506

Samples from: CT ___ NY X NJ ___

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 ___
- Summary w/ QA Summary ___
- CT RCP Package ___
- CTRCP DQA/DUE Pkg ___
- NY ASP A Package ___
- NY ASP B Package X
- NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)
- Simple Excel X
- NYSDEC EQuIS X
- EQuIS (std) ___
- EZ-EDD (EQuIS) ___
- NJDEP SRP HazSite EDD ___
- GIS/KEY (std) ___
- Other ___
- **York Regulatory Comparison Excel Spreadsheet**

Compare to the following Regs. (please fill in):
PART 375

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 any questions by York are resolved.

Samples Collected/Authorized By (Signature)
ERIC ORLOWSKI
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
KC-MW-01 1118	11/1/2018 1545	GW	8260 VOCs, Priority Pollutant Metals	3x40mL VOA, 1x250mL AG
KC-MW-02 1118	1219			
KC-MW-05 1118	1100			
KC-FD-01 1118				
KC-TB-01 1118	0945	DI	8260 VOCs	3x40mL VOA

Comments
SAMPLES SECURED IN CHAZEN REFRIGERATOR BETWEEN SAMPLING AND PICKUP.

Preservation Check those Applicable
4°C X Frozen ___ HCl X MeOH ___ HNO3 X H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
EJO	11/1/18	[illegible]	11-2-18 9:00
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
[illegible]	11-2-18 1426	[illegible]	11-2-18 1426

Temperature on Receipt 2.2°C

York Analytical Laboratories, Inc.
SDG: 18K0078
CLASS: VOA
METHOD: EPA 8260C

DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 1118	18K0078-01
KC-MW-01 1118	18K0078-01RE1
KC-MW-01 1118	18K0078-01RE2
KC-MW-02 1118	18K0078-02
KC-MW-05 1118	18K0078-03
KC-FD-01 1118	18K0078-04
KC-FD-01 1118	18K0078-04RE1
KC-FD-01 1118	18K0078-04RE2
KC-TB-01 1118	18K0078-05

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 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: 1/14/2019 Title: Laboratory Director

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Sequence: Y8K1229 Instrument: QVOA6

Calibration: YK80009

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BK80517-BS1)			Lab File ID: QV611525.D		Analyzed: 11/10/18 04:53			
SURR: 1,2-Dichloroethane-d4	10.0	76.1	69 - 130	5.775	5.775	0.0000	+/-1.00	
SURR: Toluene-d8	10.0	93.0	81 - 117	7.617	7.616667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	121	79 - 122	10.38	10.38133	-0.0013	+/-1.00	
LCS Dup (BK80517-BSD1)			Lab File ID: QV611526.D		Analyzed: 11/10/18 05:19			
SURR: 1,2-Dichloroethane-d4	10.0	81.6	69 - 130	5.775	5.775	0.0000	+/-1.00	
SURR: Toluene-d8	10.0	93.0	81 - 117	7.617	7.616667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	121	79 - 122	10.382	10.38133	0.0007	+/-1.00	
Blank (BK80517-BLK1)			Lab File ID: QV611527.D		Analyzed: 11/10/18 05:45			
SURR: 1,2-Dichloroethane-d4	10.0	78.6	69 - 130	5.775	5.775	0.0000	+/-1.00	
SURR: Toluene-d8	10.0	95.3	81 - 117	7.617	7.616667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	115	79 - 122	10.382	10.38133	0.0007	+/-1.00	
KC-MW-01 1118 (18K0078-01)			Lab File ID: QV611535.D		Analyzed: 11/10/18 09:17			
SURR: 1,2-Dichloroethane-d4	10.0	69.1	69 - 130	5.781	5.775	0.0060	+/-1.00	
SURR: Toluene-d8	10.0	104	81 - 117	7.617	7.616667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	121	79 - 122	10.382	10.38133	0.0007	+/-1.00	
KC-MW-02 1118 (18K0078-02)			Lab File ID: QV611536.D		Analyzed: 11/10/18 09:44			
SURR: 1,2-Dichloroethane-d4	10.0	70.8	69 - 130	5.775	5.775	0.0000	+/-1.00	
SURR: Toluene-d8	10.0	103	81 - 117	7.617	7.616667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	118	79 - 122	10.382	10.38133	0.0007	+/-1.00	
KC-MW-05 1118 (18K0078-03)			Lab File ID: QV611537.D		Analyzed: 11/10/18 10:10			
SURR: 1,2-Dichloroethane-d4	10.0	80.8	69 - 130	5.778	5.775	0.0030	+/-1.00	
SURR: Toluene-d8	10.0	101	81 - 117	7.617	7.616667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	120	79 - 122	10.382	10.38133	0.0007	+/-1.00	
KC-FD-01 1118 (18K0078-04)			Lab File ID: QV611538.D		Analyzed: 11/10/18 10:37			
SURR: 1,2-Dichloroethane-d4	10.0	63.8	69 - 130	5.781	5.775	0.0060	+/-1.00	*
SURR: Toluene-d8	10.0	111	81 - 117	7.62	7.616667	0.0033	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	112	79 - 122	10.382	10.38133	0.0007	+/-1.00	
KC-TB-01 1118 (18K0078-05)			Lab File ID: QV611539.D		Analyzed: 11/10/18 11:03			
SURR: 1,2-Dichloroethane-d4	10.0	69.7	69 - 130	5.775	5.775	0.0000	+/-1.00	
SURR: Toluene-d8	10.0	99.3	81 - 117	7.617	7.616667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	120	79 - 122	10.382	10.38133	0.0007	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Sequence: Y8K1410 Instrument: QVOA6

Calibration: YK80009

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BK80632-BS1)				Lab File ID: QV611595.D		Analyzed: 11/13/18 13:20		
SURR: 1,2-Dichloroethane-d4	10.0	114	69 - 130	5.775	5.775	0.0000	+/-1.00	
SURR: Toluene-d8	10.0	89.7	81 - 117	7.617	7.616667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	113	79 - 122	10.382	10.38133	0.0007	+/-1.00	
LCS Dup (BK80632-BSD1)				Lab File ID: QV611596.D		Analyzed: 11/13/18 13:46		
SURR: 1,2-Dichloroethane-d4	10.0	119	69 - 130	5.775	5.775	0.0000	+/-1.00	
SURR: Toluene-d8	10.0	94.5	81 - 117	7.617	7.616667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	107	79 - 122	10.382	10.38133	0.0007	+/-1.00	
Blank (BK80632-BLK1)				Lab File ID: QV611598.D		Analyzed: 11/13/18 14:39		
SURR: 1,2-Dichloroethane-d4	10.0	111	69 - 130	5.778	5.775	0.0030	+/-1.00	
SURR: Toluene-d8	10.0	94.4	81 - 117	7.617	7.616667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	113	79 - 122	10.382	10.38133	0.0007	+/-1.00	
KC-MW-01 1118 (18K0078-01RE1)				Lab File ID: QV611606.D		Analyzed: 11/13/18 18:09		
SURR: 1,2-Dichloroethane-d4	10.0	120	69 - 130	5.775	5.775	0.0000	+/-1.00	
SURR: Toluene-d8	10.0	95.3	81 - 117	7.617	7.616667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	107	79 - 122	10.382	10.38133	0.0007	+/-1.00	
KC-FD-01 1118 (18K0078-04RE1)				Lab File ID: QV611607.D		Analyzed: 11/13/18 18:35		
SURR: 1,2-Dichloroethane-d4	10.0	125	69 - 130	5.778	5.775	0.0030	+/-1.00	
SURR: Toluene-d8	10.0	95.1	81 - 117	7.62	7.616667	0.0033	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	103	79 - 122	10.382	10.38133	0.0007	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Sequence: Y8K1430 Instrument: QVOA6

Calibration: YK80009

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BK80724-BS1)			Lab File ID: QV611651.D		Analyzed: 11/14/18 13:53			
SURR: 1,2-Dichloroethane-d4	10.0	111	69 - 130	5.778	5.775	0.0030	+/-1.00	
SURR: Toluene-d8	10.0	103	81 - 117	7.62	7.616667	0.0033	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	90.3	79 - 122	10.382	10.38133	0.0007	+/-1.00	
LCS Dup (BK80724-BSD1)			Lab File ID: QV611652.D		Analyzed: 11/14/18 14:19			
SURR: 1,2-Dichloroethane-d4	10.0	108	69 - 130	5.778	5.775	0.0030	+/-1.00	
SURR: Toluene-d8	10.0	106	81 - 117	7.617	7.616667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	88.5	79 - 122	10.382	10.38133	0.0007	+/-1.00	
Blank (BK80724-BLK1)			Lab File ID: QV611654.D		Analyzed: 11/14/18 15:12			
SURR: 1,2-Dichloroethane-d4	10.0	108	69 - 130	5.778	5.775	0.0030	+/-1.00	
SURR: Toluene-d8	10.0	112	81 - 117	7.617	7.616667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	81.1	79 - 122	10.382	10.38133	0.0007	+/-1.00	
KC-MW-01 1118 (18K0078-01RE2)			Lab File ID: QV611655.D		Analyzed: 11/14/18 15:38			
SURR: 1,2-Dichloroethane-d4	10.0	108	69 - 130	5.778	5.775	0.0030	+/-1.00	
SURR: Toluene-d8	10.0	110	81 - 117	7.62	7.616667	0.0033	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	85.2	79 - 122	10.385	10.38133	0.0037	+/-1.00	
KC-FD-01 1118 (18K0078-04RE2)			Lab File ID: QV611656.D		Analyzed: 11/14/18 16:04			
SURR: 1,2-Dichloroethane-d4	10.0	109	69 - 130	5.778	5.775	0.0030	+/-1.00	
SURR: Toluene-d8	10.0	109	81 - 117	7.62	7.616667	0.0033	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	85.0	79 - 122	10.385	10.38133	0.0037	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80517	Laboratory ID:	BK80517-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.7	96.7	82 - 126
1,1,1-Trichloroethane	10.0	11	110	78 - 136
1,1,2,2-Tetrachloroethane	10.0	9.6	96.2	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	12	119	54 - 165
1,1,2-Trichloroethane	10.0	7.6	75.7 *	82 - 123
1,1-Dichloroethane	10.0	10	103	82 - 129
1,1-Dichloroethylene	10.0	10	103	68 - 138
1,2,3-Trichlorobenzene	10.0	9.2	92.5	76 - 136
1,2,3-Trichloropropane	10.0	10	103	77 - 128
1,2,4-Trichlorobenzene	10.0	9.9	99.0	76 - 137
1,2,4-Trimethylbenzene	10.0	11	107	82 - 132
1,2-Dibromo-3-chloropropane	10.0	9.0	89.6	45 - 147
1,2-Dibromoethane	10.0	7.6	75.9 *	83 - 124
1,2-Dichlorobenzene	10.0	11	106	79 - 123
1,2-Dichloroethane	10.0	8.6	86.1	73 - 132
1,2-Dichloropropane	10.0	8.2	81.9	78 - 126
1,3,5-Trimethylbenzene	10.0	11	111	80 - 131
1,3-Dichlorobenzene	10.0	10	103	86 - 122
1,4-Dichlorobenzene	10.0	9.2	92.1	85 - 124
1,4-Dioxane	210	170	80.8	10 - 349
2-Butanone	10.0	8.8	88.2	49 - 152
2-Hexanone	10.0	5.3	52.6	51 - 146
4-Methyl-2-pentanone	10.0	8.4	83.8	57 - 145
Acetone	10.0	9.4	94.0	14 - 150
Acrolein	10.0	7.3	72.9	10 - 153
Acrylonitrile	10.0	8.1	81.3	51 - 150
Benzene	10.0	11	108	85 - 126
Bromochloromethane	10.0	8.7	86.8	77 - 128
Bromodichloromethane	10.0	8.2	81.9	79 - 128
Bromoform	10.0	8.2	82.4	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80517	Laboratory ID:	BK80517-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	10	104	43 - 168
Carbon disulfide	10.0	11	112	68 - 146
Carbon tetrachloride	10.0	11	111	77 - 141
Chlorobenzene	10.0	10	101	88 - 120
Chloroethane	10.0	11	107	65 - 136
Chloroform	10.0	11	106	82 - 128
Chloromethane	10.0	8.3	82.7	43 - 155
cis-1,2-Dichloroethylene	10.0	9.5	95.4	83 - 129
cis-1,3-Dichloropropylene	10.0	7.8	78.3 *	80 - 131
Cyclohexane	10.0	11	110	63 - 149
Dibromochloromethane	10.0	8.0	80.1	80 - 130
Dibromomethane	10.0	8.3	82.6	72 - 134
Dichlorodifluoromethane	10.0	12	116	44 - 144
Ethyl Benzene	10.0	11	106	80 - 131
Hexachlorobutadiene	10.0	16	161 *	67 - 146
Isopropylbenzene	10.0	12	118	76 - 140
Methyl acetate	10.0	8.2	81.6	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	8.4	84.5	76 - 135
Methylcyclohexane	10.0	11	108	72 - 143
Methylene chloride	10.0	9.1	90.6	55 - 137
n-Butylbenzene	10.0	11	105	79 - 132
n-Propylbenzene	10.0	9.8	97.6	78 - 133
o-Xylene	10.0	11	108	78 - 130
p- & m- Xylenes	20.0	22	108	77 - 133
p-Isopropyltoluene	10.0	12	117	81 - 136
sec-Butylbenzene	10.0	13	127	79 - 137
Styrene	10.0	11	106	67 - 132
tert-Butyl alcohol (TBA)	50.0	7.4	14.7 *	25 - 162
tert-Butylbenzene	10.0	12	116	77 - 138
Tetrachloroethylene	10.0	12	125	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80517	Laboratory ID:	BK80517-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #		QC LIMITS REC.
Toluene	10.0	9.6	96.5		80 - 127
trans-1,2-Dichloroethylene	10.0	10	100		80 - 132
trans-1,3-Dichloropropylene	10.0	7.4	74.1	*	78 - 131
trans-1,4-dichloro-2-butene	10.0	8.7	87.4		63 - 141
Trichloroethylene	10.0	9.5	95.1		82 - 128
Trichlorofluoromethane	10.0	12	119		67 - 139
Vinyl Chloride	10.0	9.7	96.9		58 - 145

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: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Matrix: Water
Batch: BK80517
Laboratory ID: BK80517-BSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.1	90.9	6.18	30	82 - 126
1,1,1-Trichloroethane	10.0	11	106	3.05	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	8.8	87.5	9.47	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (	10.0	12	118	1.27	30	54 - 165
1,1,2-Trichloroethane	10.0	7.4	73.9 *	2.41	30	82 - 123
1,1-Dichloroethane	10.0	9.9	99.4	3.17	30	82 - 129
1,1-Dichloroethylene	10.0	9.9	98.8	4.16	30	68 - 138
1,2,3-Trichlorobenzene	10.0	8.9	88.6	4.31	30	76 - 136
1,2,3-Trichloropropane	10.0	9.4	93.6	9.27	30	77 - 128
1,2,4-Trichlorobenzene	10.0	9.3	93.0	6.25	30	76 - 137
1,2,4-Trimethylbenzene	10.0	13	129	18.2	30	82 - 132
1,2-Dibromo-3-chloropropane	10.0	8.4	84.1	6.33	30	45 - 147
1,2-Dibromoethane	10.0	9.4	93.9	21.2	30	83 - 124
1,2-Dichlorobenzene	10.0	9.7	96.8	9.26	30	79 - 123
1,2-Dichloroethane	10.0	8.4	84.5	1.88	30	73 - 132
1,2-Dichloropropane	10.0	9.2	91.8	11.4	30	78 - 126
1,3,5-Trimethylbenzene	10.0	12	118	5.68	30	80 - 131
1,3-Dichlorobenzene	10.0	12	117	12.9	30	86 - 122
1,4-Dichlorobenzene	10.0	11	113	20.2	30	85 - 124
1,4-Dioxane	210	170	78.9	2.45	30	10 - 349
2-Butanone	10.0	8.0	80.1	9.63	30	49 - 152
2-Hexanone	10.0	6.0	60.3	13.6	30	51 - 146
4-Methyl-2-pentanone	10.0	8.3	83.4	0.478	30	57 - 145
Acetone	10.0	9.1	90.8	3.46	30	14 - 150
Acrolein	10.0	6.9	69.4	4.92	30	10 - 153
Acrylonitrile	10.0	8.0	80.0	1.61	30	51 - 150
Benzene	10.0	11	106	2.14	30	85 - 126
Bromochloromethane	10.0	8.5	84.8	2.33	30	77 - 128
Bromodichloromethane	10.0	8.0	80.4	1.85	30	79 - 128
Bromoform	10.0	7.9	79.4	3.71	30	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Matrix: Water
Batch: BK80517
Laboratory ID: BK80517-BSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	10	105		0.671	30	43 - 168
Carbon disulfide	10.0	11	109		2.71	30	68 - 146
Carbon tetrachloride	10.0	11	109		2.28	30	77 - 141
Chlorobenzene	10.0	9.5	94.8		6.33	30	88 - 120
Chloroethane	10.0	10	103		3.43	30	65 - 136
Chloroform	10.0	10	102		3.17	30	82 - 128
Chloromethane	10.0	11	106		25.2	30	43 - 155
cis-1,2-Dichloroethylene	10.0	9.2	92.0		3.63	30	83 - 129
cis-1,3-Dichloropropylene	10.0	9.1	91.4		15.4	30	80 - 131
Cyclohexane	10.0	11	108		2.11	30	63 - 149
Dibromochloromethane	10.0	7.6	75.6	*	5.78	30	80 - 130
Dibromomethane	10.0	7.8	77.8		5.99	30	72 - 134
Dichlorodifluoromethane	10.0	12	117		1.29	30	44 - 144
Ethyl Benzene	10.0	9.8	98.3		7.54	30	80 - 131
Hexachlorobutadiene	10.0	15	150	*	7.52	30	67 - 146
Isopropylbenzene	10.0	12	120		1.76	30	76 - 140
Methyl acetate	10.0	8.7	87.1		6.52	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	8.4	84.3		0.237	30	76 - 135
Methylcyclohexane	10.0	10	103		5.30	30	72 - 143
Methylene chloride	10.0	8.8	88.2		2.68	30	55 - 137
n-Butylbenzene	10.0	13	131		21.8	30	79 - 132
n-Propylbenzene	10.0	11	110		12.3	30	78 - 133
o-Xylene	10.0	10	101		7.46	30	78 - 130
p- & m- Xylenes	20.0	20	101		7.08	30	77 - 133
p-Isopropyltoluene	10.0	9.5	95.4		20.6	30	81 - 136
sec-Butylbenzene	10.0	12	116		8.80	30	79 - 137
Styrene	10.0	9.9	99.3		6.24	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	7.7	15.4	*	4.91	30	25 - 162
tert-Butylbenzene	10.0	13	133		14.1	30	77 - 138
Tetrachloroethylene	10.0	11	108		14.0	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80517	Laboratory ID:	BK80517-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	10.0	9.0	89.8	7.19	30	80 - 127
trans-1,2-Dichloroethylene	10.0	9.6	95.7	4.59	30	80 - 132
trans-1,3-Dichloropropylene	10.0	6.9	69.4 *	6.55	30	78 - 131
trans-1,4-dichloro-2-butene	10.0	8.0	80.1	8.72	30	63 - 141
Trichloroethylene	10.0	8.8	87.8	7.98	30	82 - 128
Trichlorofluoromethane	10.0	12	119	0.505	30	67 - 139
Vinyl Chloride	10.0	9.6	96.2	0.725	30	58 - 145

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:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80632	Laboratory ID:	BK80632-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	11	111	82 - 126
1,1,1-Trichloroethane	10.0	11	115	78 - 136
1,1,2,2-Tetrachloroethane	10.0	14	136 *	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	12	118	54 - 165
1,1,2-Trichloroethane	10.0	11	110	82 - 123
1,1-Dichloroethane	10.0	11	114	82 - 129
1,1-Dichloroethylene	10.0	11	111	68 - 138
1,2,3-Trichlorobenzene	10.0	9.0	90.5	76 - 136
1,2,3-Trichloropropane	10.0	14	138 *	77 - 128
1,2,4-Trichlorobenzene	10.0	8.9	88.8	76 - 137
1,2,4-Trimethylbenzene	10.0	12	116	82 - 132
1,2-Dibromo-3-chloropropane	10.0	11	109	45 - 147
1,2-Dibromoethane	10.0	12	117	83 - 124
1,2-Dichlorobenzene	10.0	11	106	79 - 123
1,2-Dichloroethane	10.0	12	125	73 - 132
1,2-Dichloropropane	10.0	11	105	78 - 126
1,3,5-Trimethylbenzene	10.0	12	118	80 - 131
1,3-Dichlorobenzene	10.0	11	111	86 - 122
1,4-Dichlorobenzene	10.0	11	110	85 - 124
1,4-Dioxane	210	260	122	10 - 349
2-Butanone	10.0	14	142	49 - 152
2-Hexanone	10.0	13	125	51 - 146
4-Methyl-2-pentanone	10.0	11	108	57 - 145
Acetone	10.0	16	155 *	14 - 150
Acrolein	10.0	11	108	10 - 153
Acrylonitrile	10.0	12	118	51 - 150
Benzene	10.0	11	113	85 - 126
Bromochloromethane	10.0	13	125	77 - 128
Bromodichloromethane	10.0	11	111	79 - 128
Bromoform	10.0	13	133	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80632	Laboratory ID:	BK80632-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	13	134	43 - 168
Carbon disulfide	10.0	10	102	68 - 146
Carbon tetrachloride	10.0	11	115	77 - 141
Chlorobenzene	10.0	11	106	88 - 120
Chloroethane	10.0	10	102	65 - 136
Chloroform	10.0	12	117	82 - 128
Chloromethane	10.0	8.9	89.4	43 - 155
cis-1,2-Dichloroethylene	10.0	11	114	83 - 129
cis-1,3-Dichloropropylene	10.0	11	107	80 - 131
Cyclohexane	10.0	10	104	63 - 149
Dibromochloromethane	10.0	12	116	80 - 130
Dibromomethane	10.0	11	114	72 - 134
Dichlorodifluoromethane	10.0	9.5	94.8	44 - 144
Ethyl Benzene	10.0	11	110	80 - 131
Hexachlorobutadiene	10.0	8.1	81.1	67 - 146
Isopropylbenzene	10.0	12	118	76 - 140
Methyl acetate	10.0	12	122	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	12	120	76 - 135
Methylcyclohexane	10.0	8.3	83.4	72 - 143
Methylene chloride	10.0	11	114	55 - 137
n-Butylbenzene	10.0	10	101	79 - 132
n-Propylbenzene	10.0	12	120	78 - 133
o-Xylene	10.0	12	115	78 - 130
p- & m- Xylenes	20.0	22	112	77 - 133
p-Isopropyltoluene	10.0	11	109	81 - 136
sec-Butylbenzene	10.0	11	112	79 - 137
Styrene	10.0	12	117	67 - 132
tert-Butyl alcohol (TBA)	50.0	12	24.7 *	25 - 162
tert-Butylbenzene	10.0	12	116	77 - 138
Tetrachloroethylene	10.0	9.1	90.9	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80632	Laboratory ID:	BK80632-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	10	104	80 - 127
trans-1,2-Dichloroethylene	10.0	11	105	80 - 132
trans-1,3-Dichloropropylene	10.0	11	111	78 - 131
trans-1,4-dichloro-2-butene	10.0	14	136	63 - 141
Trichloroethylene	10.0	9.8	97.9	82 - 128
Trichlorofluoromethane	10.0	13	127	67 - 139
Vinyl Chloride	10.0	9.7	96.6	58 - 145

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: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Matrix: Water
Batch: BK80632
Laboratory ID: BK80632-BSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	10	104	6.25	30	82 - 126
1,1,1-Trichloroethane	10.0	11	110	3.91	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	12	121	12.1	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (	10.0	13	125	5.67	30	54 - 165
1,1,2-Trichloroethane	10.0	9.7	97.3	11.8	30	82 - 123
1,1-Dichloroethane	10.0	11	110	3.83	30	82 - 129
1,1-Dichloroethylene	10.0	11	109	2.18	30	68 - 138
1,2,3-Trichlorobenzene	10.0	8.1	81.2	10.8	30	76 - 136
1,2,3-Trichloropropane	10.0	12	118	15.4	30	77 - 128
1,2,4-Trichlorobenzene	10.0	7.4	74.1 *	18.0	30	76 - 137
1,2,4-Trimethylbenzene	10.0	11	109	5.87	30	82 - 132
1,2-Dibromo-3-chloropropane	10.0	4.5	44.8 *	83.7 *	30	45 - 147
1,2-Dibromoethane	10.0	10	105	10.6	30	83 - 124
1,2-Dichlorobenzene	10.0	9.8	98.0	8.03	30	79 - 123
1,2-Dichloroethane	10.0	12	119	4.43	30	73 - 132
1,2-Dichloropropane	10.0	9.5	95.3	9.78	30	78 - 126
1,3,5-Trimethylbenzene	10.0	10	105	11.2	30	80 - 131
1,3-Dichlorobenzene	10.0	10	104	6.14	30	86 - 122
1,4-Dichlorobenzene	10.0	10	102	6.97	30	85 - 124
1,4-Dioxane	210	420	200	48.6 *	30	10 - 349
2-Butanone	10.0	8.3	83.0	52.4 *	30	49 - 152
2-Hexanone	10.0	10	102	20.0	30	51 - 146
4-Methyl-2-pentanone	10.0	10	104	3.68	30	57 - 145
Acetone	10.0	10	104	39.9 *	30	14 - 150
Acrolein	10.0	2.6	25.6	124 *	30	10 - 153
Acrylonitrile	10.0	12	124	5.22	30	51 - 150
Benzene	10.0	11	109	4.05	30	85 - 126
Bromochloromethane	10.0	12	115	8.15	30	77 - 128
Bromodichloromethane	10.0	10	104	6.03	30	79 - 128
Bromoform	10.0	12	118	12.2	30	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80632	Laboratory ID:	BK80632-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	13	129	3.72	30	43 - 168
Carbon disulfide	10.0	10	104	2.33	30	68 - 146
Carbon tetrachloride	10.0	11	114	0.874	30	77 - 141
Chlorobenzene	10.0	9.8	98.4	7.81	30	88 - 120
Chloroethane	10.0	10	102	0.391	30	65 - 136
Chloroform	10.0	11	110	6.78	30	82 - 128
Chloromethane	10.0	8.9	88.8	0.673	30	43 - 155
cis-1,2-Dichloroethylene	10.0	11	107	6.33	30	83 - 129
cis-1,3-Dichloropropylene	10.0	9.8	97.9	9.07	30	80 - 131
Cyclohexane	10.0	11	110	6.25	30	63 - 149
Dibromochloromethane	10.0	11	106	8.93	30	80 - 130
Dibromomethane	10.0	10	105	8.15	30	72 - 134
Dichlorodifluoromethane	10.0	7.4	73.8	24.9	30	44 - 144
Ethyl Benzene	10.0	11	106	4.35	30	80 - 131
Hexachlorobutadiene	10.0	6.9	69.2	15.8	30	67 - 146
Isopropylbenzene	10.0	10	105	12.0	30	76 - 140
Methyl acetate	10.0	11	107	13.2	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	12	116	3.06	30	76 - 135
Methylcyclohexane	10.0	8.9	89.3	6.83	30	72 - 143
Methylene chloride	10.0	11	111	2.66	30	55 - 137
n-Butylbenzene	10.0	9.9	98.6	2.70	30	79 - 132
n-Propylbenzene	10.0	11	109	10.1	30	78 - 133
o-Xylene	10.0	11	115	0.0870	30	78 - 130
p- & m- Xylenes	20.0	21	107	4.42	30	77 - 133
p-Isopropyltoluene	10.0	10	105	3.84	30	81 - 136
sec-Butylbenzene	10.0	11	114	1.15	30	79 - 137
Styrene	10.0	11	113	3.55	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	62	123	133 *	30	25 - 162
tert-Butylbenzene	10.0	10	105	9.89	30	77 - 138
Tetrachloroethylene	10.0	7.8	78.5 *	14.6	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80632	Laboratory ID:	BK80632-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	10.0	10	103	0.0967	30	80 - 127
trans-1,2-Dichloroethylene	10.0	10	102	2.60	30	80 - 132
trans-1,3-Dichloropropylene	10.0	10	102	8.16	30	78 - 131
trans-1,4-dichloro-2-butene	10.0	12	119	13.8	30	63 - 141
Trichloroethylene	10.0	9.7	97.2	0.718	30	82 - 128
Trichlorofluoromethane	10.0	13	129	1.95	30	67 - 139
Vinyl Chloride	10.0	10	103	6.41	30	58 - 145

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:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80724	Laboratory ID:	BK80724-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	11	106	82 - 126
1,1,1-Trichloroethane	10.0	11	110	78 - 136
1,1,2,2-Tetrachloroethane	10.0	8.9	89.2	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11	112	54 - 165
1,1,2-Trichloroethane	10.0	11	109	82 - 123
1,1-Dichloroethane	10.0	11	110	82 - 129
1,1-Dichloroethylene	10.0	11	108	68 - 138
1,2,3-Trichlorobenzene	10.0	8.6	85.9	76 - 136
1,2,3-Trichloropropane	10.0	9.3	92.6	77 - 128
1,2,4-Trichlorobenzene	10.0	8.5	85.0	76 - 137
1,2,4-Trimethylbenzene	10.0	9.7	97.3	82 - 132
1,2-Dibromo-3-chloropropane	10.0	9.2	92.0	45 - 147
1,2-Dibromoethane	10.0	11	106	83 - 124
1,2-Dichlorobenzene	10.0	10	102	79 - 123
1,2-Dichloroethane	10.0	11	109	73 - 132
1,2-Dichloropropane	10.0	12	118	78 - 126
1,3,5-Trimethylbenzene	10.0	9.6	95.9	80 - 131
1,3-Dichlorobenzene	10.0	9.7	97.4	86 - 122
1,4-Dichlorobenzene	10.0	9.8	98.3	85 - 124
1,4-Dioxane	210	210	100	10 - 349
2-Butanone	10.0	12	118	49 - 152
2-Hexanone	10.0	10	104	51 - 146
4-Methyl-2-pentanone	10.0	9.9	99.1	57 - 145
Acetone	10.0	13	126	14 - 150
Acrolein	10.0	8.1	80.6	10 - 153
Acrylonitrile	10.0	10	102	51 - 150
Benzene	10.0	11	108	85 - 126
Bromochloromethane	10.0	11	109	77 - 128
Bromodichloromethane	10.0	12	119	79 - 128
Bromoform	10.0	8.3	82.9	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80724	Laboratory ID:	BK80724-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	9.0	89.9	43 - 168
Carbon disulfide	10.0	8.7	87.0	68 - 146
Carbon tetrachloride	10.0	11	106	77 - 141
Chlorobenzene	10.0	9.9	99.4	88 - 120
Chloroethane	10.0	8.8	88.1	65 - 136
Chloroform	10.0	11	112	82 - 128
Chloromethane	10.0	7.1	70.9	43 - 155
cis-1,2-Dichloroethylene	10.0	11	110	83 - 129
cis-1,3-Dichloropropylene	10.0	12	116	80 - 131
Cyclohexane	10.0	9.6	95.6	63 - 149
Dibromochloromethane	10.0	10	103	80 - 130
Dibromomethane	10.0	12	117	72 - 134
Dichlorodifluoromethane	10.0	5.0	50.2	44 - 144
Ethyl Benzene	10.0	10	105	80 - 131
Hexachlorobutadiene	10.0	7.9	79.3	67 - 146
Isopropylbenzene	10.0	10	99.7	76 - 140
Methyl acetate	10.0	10	101	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	11	107	76 - 135
Methylcyclohexane	10.0	9.3	92.9	72 - 143
Methylene chloride	10.0	10	105	55 - 137
n-Butylbenzene	10.0	9.7	97.1	79 - 132
n-Propylbenzene	10.0	9.7	96.8	78 - 133
o-Xylene	10.0	10	101	78 - 130
p- & m- Xylenes	20.0	21	103	77 - 133
p-Isopropyltoluene	10.0	9.4	94.3	81 - 136
sec-Butylbenzene	10.0	9.2	91.6	79 - 137
Styrene	10.0	9.8	97.5	67 - 132
tert-Butyl alcohol (TBA)	50.0	9.2	18.4 *	25 - 162
tert-Butylbenzene	10.0	9.2	91.8	77 - 138
Tetrachloroethylene	10.0	9.9	98.7	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80724	Laboratory ID:	BK80724-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	11	112	80 - 127
trans-1,2-Dichloroethylene	10.0	10	102	80 - 132
trans-1,3-Dichloropropylene	10.0	11	109	78 - 131
trans-1,4-dichloro-2-butene	10.0	8.7	86.9	63 - 141
Trichloroethylene	10.0	11	114	82 - 128
Trichlorofluoromethane	10.0	12	117	67 - 139
Vinyl Chloride	10.0	8.2	82.2	58 - 145

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: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Matrix: Water
Batch: BK80724
Laboratory ID: BK80724-BSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	11	114	7.54	30	82 - 126
1,1,1-Trichloroethane	10.0	12	122	11.0	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	9.0	90.5	1.45	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (	10.0	13	135	18.5	30	54 - 165
1,1,2-Trichloroethane	10.0	12	116	5.42	30	82 - 123
1,1-Dichloroethane	10.0	12	119	8.12	30	82 - 129
1,1-Dichloroethylene	10.0	12	120	10.4	30	68 - 138
1,2,3-Trichlorobenzene	10.0	8.7	87.2	1.50	30	76 - 136
1,2,3-Trichloropropane	10.0	9.4	94.0	1.50	30	77 - 128
1,2,4-Trichlorobenzene	10.0	9.0	89.9	5.60	30	76 - 137
1,2,4-Trimethylbenzene	10.0	10	103	6.08	30	82 - 132
1,2-Dibromo-3-chloropropane	10.0	9.6	95.9	4.15	30	45 - 147
1,2-Dibromoethane	10.0	11	112	6.33	30	83 - 124
1,2-Dichlorobenzene	10.0	11	109	6.62	30	79 - 123
1,2-Dichloroethane	10.0	12	121	10.1	30	73 - 132
1,2-Dichloropropane	10.0	13	126	6.97	30	78 - 126
1,3,5-Trimethylbenzene	10.0	10	102	6.65	30	80 - 131
1,3-Dichlorobenzene	10.0	10	104	6.07	30	86 - 122
1,4-Dichlorobenzene	10.0	10	104	5.64	30	85 - 124
1,4-Dioxane	210	210	101	1.13	30	10 - 349
2-Butanone	10.0	12	120	1.93	30	49 - 152
2-Hexanone	10.0	10	105	0.191	30	51 - 146
4-Methyl-2-pentanone	10.0	10	103	3.57	30	57 - 145
Acetone	10.0	12	123	2.48	30	14 - 150
Acrolein	10.0	8.1	81.4	0.988	30	10 - 153
Acrylonitrile	10.0	7.8	77.7	27.1	30	51 - 150
Benzene	10.0	12	116	7.43	30	85 - 126
Bromochloromethane	10.0	12	118	7.82	30	77 - 128
Bromodichloromethane	10.0	13	127	6.34	30	79 - 128
Bromoform	10.0	8.3	82.7	0.242	30	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Matrix: Water
Batch: BK80724
Laboratory ID: BK80724-BSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	11	114	23.6	30	43 - 168
Carbon disulfide	10.0	9.6	96.1	9.94	30	68 - 146
Carbon tetrachloride	10.0	12	121	13.9	30	77 - 141
Chlorobenzene	10.0	11	106	6.61	30	88 - 120
Chloroethane	10.0	10	100	13.1	30	65 - 136
Chloroform	10.0	12	120	7.17	30	82 - 128
Chloromethane	10.0	8.0	80.5	12.7	30	43 - 155
cis-1,2-Dichloroethylene	10.0	12	117	6.45	30	83 - 129
cis-1,3-Dichloropropylene	10.0	12	124	7.33	30	80 - 131
Cyclohexane	10.0	12	119	21.6	30	63 - 149
Dibromochloromethane	10.0	11	107	3.90	30	80 - 130
Dibromomethane	10.0	12	124	5.75	30	72 - 134
Dichlorodifluoromethane	10.0	8.6	86.2	52.8 *	30	44 - 144
Ethyl Benzene	10.0	11	114	8.23	30	80 - 131
Hexachlorobutadiene	10.0	8.4	84.3	6.11	30	67 - 146
Isopropylbenzene	10.0	11	106	6.41	30	76 - 140
Methyl acetate	10.0	10	99.5	1.20	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	11	112	5.03	30	76 - 135
Methylcyclohexane	10.0	12	122	26.8	30	72 - 143
Methylene chloride	10.0	11	111	5.84	30	55 - 137
n-Butylbenzene	10.0	11	108	10.8	30	79 - 132
n-Propylbenzene	10.0	10	104	6.98	30	78 - 133
o-Xylene	10.0	11	106	5.41	30	78 - 130
p- & m- Xylenes	20.0	22	111	8.03	30	77 - 133
p-Isopropyltoluene	10.0	10	102	7.65	30	81 - 136
sec-Butylbenzene	10.0	10	101	9.37	30	79 - 137
Styrene	10.0	10	102	4.02	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	9.7	19.4 *	5.29	30	25 - 162
tert-Butylbenzene	10.0	9.9	99.3	7.85	30	77 - 138
Tetrachloroethylene	10.0	11	110	11.2	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80724	Laboratory ID:	BK80724-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	10.0	12	123		9.60	30	80 - 127
trans-1,2-Dichloroethylene	10.0	11	112		9.27	30	80 - 132
trans-1,3-Dichloropropylene	10.0	12	116		5.87	30	78 - 131
trans-1,4-dichloro-2-butene	10.0	8.9	88.9		2.28	30	63 - 141
Trichloroethylene	10.0	13	125		8.85	30	82 - 128
Trichlorofluoromethane	10.0	14	142	*	19.9	30	67 - 139
Vinyl Chloride	10.0	9.8	98.5		18.0	30	58 - 145

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

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BK80517 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1118	18K0078-01	QV611535.D	11/10/18 03:58	
KC-MW-02 1118	18K0078-02	QV611536.D	11/10/18 03:58	
KC-MW-05 1118	18K0078-03	QV611537.D	11/10/18 03:58	
KC-FD-01 1118	18K0078-04	QV611538.D	11/10/18 03:58	
KC-TB-01 1118	18K0078-05	QV611539.D	11/10/18 03:58	
Blank	BK80517-BLK1	QV611527.D	11/10/18 03:58	
LCS	BK80517-BS1	QV611525.D	11/10/18 03:58	
LCS Dup	BK80517-BSD1	QV611526.D	11/10/18 03:58	

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BK80632 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1118	18K0078-01RE1	QV611606.D	11/13/18 11:40	From BK80517 by TMP on 11/13/2018
KC-FD-01 1118	18K0078-04RE1	QV611607.D	11/13/18 11:40	From BK80517 by TMP on 11/13/2018
Blank	BK80632-BLK1	QV611598.D	11/13/18 11:40	
LCS	BK80632-BS1	QV611595.D	11/13/18 11:40	
LCS Dup	BK80632-BSD1	QV611596.D	11/13/18 11:40	

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BK80724 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1118	18K0078-01RE2	QV611655.D	11/14/18 12:33	From BK80632 by LDS on 11/14/2018
KC-FD-01 1118	18K0078-04RE2	QV611656.D	11/14/18 12:33	From BK80632 by LDS on 11/14/2018
Blank	BK80724-BLK1	QV611654.D	11/14/18 12:33	
LCS	BK80724-BS1	QV611651.D	11/14/18 12:33	
LCS Dup	BK80724-BSD1	QV611652.D	11/14/18 12:33	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80517-BLK1	File ID:	QV611527.D
Prepared:	11/10/18 03:58	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/10/18 05:45	Instrument:	QVOA6		
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009

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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
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
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80517-BLK1	File ID:	QV611527.D
Prepared:	11/10/18 03:58	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/10/18 05:45	Instrument:	QVOA6		
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009

CAS NO.	COMPOUND	CONC. (ug/L)	Q
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
110-82-7	Cyclohexane	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
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1.0	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:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80517-BLK1	File ID:	QV611527.D
Prepared:	11/10/18 03:58	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/10/18 05:45	Instrument:	QVOA6		
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009

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
110-57-6	trans-1,4-dichloro-2-butene	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
SURR: 1,2-Dichloroethane-d4	10.0	7.86	78.6	69 - 130	
SURR: p-Bromofluorobenzene	10.0	11.5	115	79 - 122	
SURR: Toluene-d8	10.0	9.53	95.3	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	84590	12.093	91802	12.093	
ISTD: Chlorobenzene-d5	622054	9.116	650936	9.116	
ISTD: Fluorobenzene	150621	6.075	156683	6.075	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80632-BLK1	File ID:	QV611598.D
Prepared:	11/13/18 11:40	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/13/18 14:39	Instrument:	QVOA6		
Batch:	BK80632	Sequence:	Y8K1410	Calibration:	YK80009

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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
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
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80632-BLK1	File ID:	QV611598.D
Prepared:	11/13/18 11:40	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/13/18 14:39	Instrument:	QVOA6		
Batch:	BK80632	Sequence:	Y8K1410	Calibration:	YK80009

CAS NO.	COMPOUND	CONC. (ug/L)	Q
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
110-82-7	Cyclohexane	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
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1.0	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:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80632-BLK1	File ID:	QV611598.D
Prepared:	11/13/18 11:40	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/13/18 14:39	Instrument:	QVOA6		
Batch:	BK80632	Sequence:	Y8K1410	Calibration:	YK80009

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
110-57-6	trans-1,4-dichloro-2-butene	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
SURR: 1,2-Dichloroethane-d4	10.0	11.1	111	69 - 130	
SURR: p-Bromofluorobenzene	10.0	11.3	113	79 - 122	
SURR: Toluene-d8	10.0	9.44	94.4	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	122893	12.094	142351	12.091	
ISTD: Chlorobenzene-d5	822713	9.119	831471	9.117	
ISTD: Fluorobenzene	215626	6.076	202485	6.076	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80724-BLK1	File ID:	QV611654.D
Prepared:	11/14/18 12:33	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/14/18 15:12	Instrument:	QVOA6		
Batch:	BK80724	Sequence:	Y8K1430	Calibration:	YK80009

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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
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
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80724-BLK1	File ID:	QV611654.D
Prepared:	11/14/18 12:33	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/14/18 15:12	Instrument:	QVOA6		
Batch:	BK80724	Sequence:	Y8K1430	Calibration:	YK80009

CAS NO.	COMPOUND	CONC. (ug/L)	Q
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
110-82-7	Cyclohexane	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
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1.0	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:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80724-BLK1	File ID:	QV611654.D
Prepared:	11/14/18 12:33	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/14/18 15:12	Instrument:	QVOA6		
Batch:	BK80724	Sequence:	Y8K1430	Calibration:	YK80009

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
110-57-6	trans-1,4-dichloro-2-butene	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
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	
SURR: p-Bromofluorobenzene	10.0	8.11	81.1	79 - 122	
SURR: Toluene-d8	10.0	11.2	112	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	119666	12.093	129414	12.093	
ISTD: Chlorobenzene-d5	699336	9.116	786770	9.119	
ISTD: Fluorobenzene	231158	6.075	246834	6.078	

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Lab File ID:	QV611523.D	Injection Date:	11/10/18
Instrument ID:	QVOA6	Injection Time:	03:59
Sequence:	Y8K1229	Lab Sample ID:	Y8K1229-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	15.5	PASS
75	30 - 60% of 95	44.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.88	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	90.3	PASS
175	5 - 9% of 174	8.85	PASS
176	95 - 101% of 174	99.9	PASS
177	5 - 9% of 176	8.57	PASS

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Lab File ID:	QV611395.D	Injection Date:	11/07/18
Instrument ID:	QVOA6	Injection Time:	19:56
Sequence:	Y8K1339	Lab Sample ID:	Y8K1339-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	15.3	PASS
75	30 - 60% of 95	44.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.7	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	94.2	PASS
175	5 - 9% of 174	7.45	PASS
176	95 - 101% of 174	97.7	PASS
177	5 - 9% of 176	6.69	PASS

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Lab File ID:	QV611592.D	Injection Date:	11/13/18
Instrument ID:	QVOA6	Injection Time:	11:41
Sequence:	Y8K1410	Lab Sample ID:	Y8K1410-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	15.5	PASS
75	30 - 60% of 95	47.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.55	PASS
173	Less than 2% of 174	0.513	PASS
174	50 - 100% of 95	88.5	PASS
175	5 - 9% of 174	7.9	PASS
176	95 - 101% of 174	96.1	PASS
177	5 - 9% of 176	6.95	PASS

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Lab File ID:	QV611648.D	Injection Date:	11/14/18
Instrument ID:	QVOA6	Injection Time:	12:34
Sequence:	Y8K1430	Lab Sample ID:	Y8K1430-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.4	PASS
75	30 - 60% of 95	46.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.25	PASS
173	Less than 2% of 174	0.412	PASS
174	50 - 100% of 95	92.7	PASS
175	5 - 9% of 174	7.75	PASS
176	95 - 101% of 174	97.3	PASS
177	5 - 9% of 176	6.13	PASS

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y8K1229	Instrument:	QVOA6
		Calibration:	YK80009

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y8K1229-TUN1	QV611523.D	11/10/18 03:59
Calibration Check	Y8K1229-CCV1	QV611524.D	11/10/18 04:26
LCS	BK80517-BS1	QV611525.D	11/10/18 04:53
LCS Dup	BK80517-BSD1	QV611526.D	11/10/18 05:19
Blank	BK80517-BLK1	QV611527.D	11/10/18 05:45
KC-MW-01 1118	18K0078-01	QV611535.D	11/10/18 09:17
KC-MW-02 1118	18K0078-02	QV611536.D	11/10/18 09:44
KC-MW-05 1118	18K0078-03	QV611537.D	11/10/18 10:10
KC-FD-01 1118	18K0078-04	QV611538.D	11/10/18 10:37
KC-TB-01 1118	18K0078-05	QV611539.D	11/10/18 11:03

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y8K1339	Instrument:	QVOA6
		Calibration:	YK80009

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y8K1339-TUN1	QV611395.D	11/07/18 19:56
Cal Standard	Y8K1339-CAL1	QV611397.D	11/07/18 20:49
Cal Standard	Y8K1339-CAL2	QV611398.D	11/07/18 21:15
Cal Standard	Y8K1339-CAL3	QV611400.D	11/07/18 22:08
Cal Standard	Y8K1339-CAL4	QV611402.D	11/07/18 23:01
Cal Standard	Y8K1339-CAL5	QV611403.D	11/07/18 23:28
Cal Standard	Y8K1339-CAL6	QV611404.D	11/07/18 23:54
Cal Standard	Y8K1339-CAL7	QV611405.D	11/08/18 00:21
Cal Standard	Y8K1339-CAL8	QV611406.D	11/08/18 00:47
Cal Standard	Y8K1339-CAL9	QV611407.D	11/08/18 01:13
Secondary Cal Check	Y8K1339-SCV1	QV611409.D	11/08/18 02:06

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y8K1410	Instrument:	QVOA6
		Calibration:	YK80009

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y8K1410-TUN1	QV611592.D	11/13/18 11:41
Calibration Check	Y8K1410-CCV1	QV611594.D	11/13/18 12:54
LCS	BK80632-BS1	QV611595.D	11/13/18 13:20
LCS Dup	BK80632-BSD1	QV611596.D	11/13/18 13:46
Blank	BK80632-BLK1	QV611598.D	11/13/18 14:39
KC-MW-01 1118	18K0078-01RE1	QV611606.D	11/13/18 18:09
KC-FD-01 1118	18K0078-04RE1	QV611607.D	11/13/18 18:35

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y8K1430	Instrument:	QVOA6
		Calibration:	YK80009

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y8K1430-TUN1	QV611648.D	11/14/18 12:34
Calibration Check	Y8K1430-CCV1	QV611650.D	11/14/18 13:27
LCS	BK80724-BS1	QV611651.D	11/14/18 13:53
LCS Dup	BK80724-BSD1	QV611652.D	11/14/18 14:19
Blank	BK80724-BLK1	QV611654.D	11/14/18 15:12
KC-MW-01 1118	18K0078-01RE2	QV611655.D	11/14/18 15:38
KC-FD-01 1118	18K0078-04RE2	QV611656.D	11/14/18 16:04

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS
Sequence: Y8K1229 Instrument: QVOA6
Calibration: YK80009

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y8K1229-CCV1)			Lab File ID: QV611524.D			Analyzed: 11/10/18 04:26			
ISTD: Fluorobenzene	156683	6.075				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	650936	9.116				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	91802	12.093				50 - 200		+/-0.17	
LCS (BK80517-BS1)			Lab File ID: QV611525.D			Analyzed: 11/10/18 04:53			
ISTD: Fluorobenzene	152563	6.075	156683	6.075	97	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	640360	9.116	650936	9.116	98	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	87448	12.093	91802	12.093	95	50 - 200	0.0000	+/-0.17	
LCS Dup (BK80517-BSD1)			Lab File ID: QV611526.D			Analyzed: 11/10/18 05:19			
ISTD: Fluorobenzene	145895	6.075	156683	6.075	93	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	638722	9.116	650936	9.116	98	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	91120	12.093	91802	12.093	99	50 - 200	0.0000	+/-0.17	
Blank (BK80517-BLK1)			Lab File ID: QV611527.D			Analyzed: 11/10/18 05:45			
ISTD: Fluorobenzene	150621	6.075	156683	6.075	96	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	622054	9.116	650936	9.116	96	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	84590	12.093	91802	12.093	92	50 - 200	0.0000	+/-0.17	
KC-MW-01 1118 (18K0078-01)			Lab File ID: QV611535.D			Analyzed: 11/10/18 09:17			
ISTD: Fluorobenzene	159016	6.078	156683	6.075	101	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	602167	9.116	650936	9.116	93	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	67798	12.093	91802	12.093	74	50 - 200	0.0000	+/-0.17	
KC-MW-02 1118 (18K0078-02)			Lab File ID: QV611536.D			Analyzed: 11/10/18 09:44			
ISTD: Fluorobenzene	136471	6.075	156683	6.075	87	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	522150	9.116	650936	9.116	80	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	63442	12.096	91802	12.093	69	50 - 200	0.0030	+/-0.17	
KC-MW-05 1118 (18K0078-03)			Lab File ID: QV611537.D			Analyzed: 11/10/18 10:10			
ISTD: Fluorobenzene	138715	6.076	156683	6.075	89	50 - 200	0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	539696	9.119	650936	9.116	83	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	65027	12.094	91802	12.093	71	50 - 200	0.0010	+/-0.17	
KC-FD-01 1118 (18K0078-04)			Lab File ID: QV611538.D			Analyzed: 11/10/18 10:37			
ISTD: Fluorobenzene	160402	6.081	156683	6.075	102	50 - 200	0.0060	+/-0.17	
ISTD: Chlorobenzene-d5	552809	9.119	650936	9.116	85	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	62509	12.094	91802	12.093	68	50 - 200	0.0010	+/-0.17	
KC-TB-01 1118 (18K0078-05)			Lab File ID: QV611539.D			Analyzed: 11/10/18 11:03			
ISTD: Fluorobenzene	138746	6.075	156683	6.075	89	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	556403	9.116	650936	9.116	85	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	68342	12.093	91802	12.093	74	50 - 200	0.0000	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS
Sequence: Y8K1339 Instrument: QVOA6
Calibration: YK80009

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (Y8K1339-CAL1)			Lab File ID: QV611397.D			Analyzed: 11/07/18 20:49			
ISTD: Fluorobenzene	194108	6.073	198716	6.073	98	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	733211	9.116	715563	9.116	102	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	122472	12.093	123714	12.093	99	50 - 200	0.0000	+/-0.17	
Cal Standard (Y8K1339-CAL2)			Lab File ID: QV611398.D			Analyzed: 11/07/18 21:15			
ISTD: Fluorobenzene	188848	6.073	198716	6.073	95	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	745484	9.116	715563	9.116	104	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	126804	12.091	123714	12.093	102	50 - 200	-0.0020	+/-0.17	
Cal Standard (Y8K1339-CAL3)			Lab File ID: QV611400.D			Analyzed: 11/07/18 22:08			
ISTD: Fluorobenzene	193572	6.073	198716	6.073	97	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	737875	9.116	715563	9.116	103	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	123851	12.093	123714	12.093	100	50 - 200	0.0000	+/-0.17	
Cal Standard (Y8K1339-CAL4)			Lab File ID: QV611402.D			Analyzed: 11/07/18 23:01			
ISTD: Fluorobenzene	198716	6.073	198716	6.073	100	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	715563	9.116	715563	9.116	100	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	123714	12.093	123714	12.093	100	50 - 200	0.0000	+/-0.17	
Cal Standard (Y8K1339-CAL5)			Lab File ID: QV611403.D			Analyzed: 11/07/18 23:28			
ISTD: Fluorobenzene	182638	6.073	198716	6.073	92	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	764882	9.116	715563	9.116	107	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	123819	12.093	123714	12.093	100	50 - 200	0.0000	+/-0.17	
Cal Standard (Y8K1339-CAL6)			Lab File ID: QV611404.D			Analyzed: 11/07/18 23:54			
ISTD: Fluorobenzene	202809	6.073	198716	6.073	102	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	751890	9.117	715563	9.116	105	50 - 200	0.0010	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	113962	12.094	123714	12.093	92	50 - 200	0.0010	+/-0.17	
Cal Standard (Y8K1339-CAL7)			Lab File ID: QV611405.D			Analyzed: 11/08/18 00:21			
ISTD: Fluorobenzene	177177	6.076	198716	6.073	89	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	751826	9.119	715563	9.116	105	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	112335	12.094	123714	12.093	91	50 - 200	0.0010	+/-0.17	
Cal Standard (Y8K1339-CAL8)			Lab File ID: QV611406.D			Analyzed: 11/08/18 00:47			
ISTD: Fluorobenzene	209001	6.075	198716	6.073	105	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	664172	9.119	715563	9.116	93	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	112664	12.093	123714	12.093	91	50 - 200	0.0000	+/-0.17	
Cal Standard (Y8K1339-CAL9)			Lab File ID: QV611407.D			Analyzed: 11/08/18 01:13			
ISTD: Fluorobenzene	206743	6.076	198716	6.073	104	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	584045	9.119	715563	9.116	82	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	113267	12.094	123714	12.093	92	50 - 200	0.0010	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Sequence: Y8K1339
Instrument: QVOA6
Calibration: YK80009

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (Y8K1339-SCV1)			Lab File ID: QV611409.D			Analyzed: 11/08/18 02:06			
ISTD: Fluorobenzene	196674	6.073	198716	6.073	99	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	745280	9.116	715563	9.116	104	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	117363	12.093	123714	12.093	95	50 - 200	0.0000	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS
Sequence: Y8K1410 Instrument: QVOA6
Calibration: YK80009

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y8K1410-CCV1)			Lab File ID: QV611594.D			Analyzed: 11/13/18 12:54			
ISTD: Fluorobenzene	202485	6.076				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	831471	9.117				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	142351	12.091				50 - 200		+/-0.17	
LCS (BK80632-BS1)			Lab File ID: QV611595.D			Analyzed: 11/13/18 13:20			
ISTD: Fluorobenzene	224806	6.075	202485	6.076	111	50 - 200	-0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	904468	9.119	831471	9.117	109	50 - 200	0.0020	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	150684	12.096	142351	12.091	106	50 - 200	0.0050	+/-0.17	
LCS Dup (BK80632-BSD1)			Lab File ID: QV611596.D			Analyzed: 11/13/18 13:46			
ISTD: Fluorobenzene	209046	6.075	202485	6.076	103	50 - 200	-0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	834781	9.116	831471	9.117	100	50 - 200	-0.0010	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	148011	12.093	142351	12.091	104	50 - 200	0.0020	+/-0.17	
Blank (BK80632-BLK1)			Lab File ID: QV611598.D			Analyzed: 11/13/18 14:39			
ISTD: Fluorobenzene	215626	6.076	202485	6.076	106	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	822713	9.119	831471	9.117	99	50 - 200	0.0020	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	122893	12.094	142351	12.091	86	50 - 200	0.0030	+/-0.17	
KC-MW-01 1118 (18K0078-01RE1)			Lab File ID: QV611606.D			Analyzed: 11/13/18 18:09			
ISTD: Fluorobenzene	180245	6.076	202485	6.076	89	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	673846	9.117	831471	9.117	81	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	97757	12.096	142351	12.091	69	50 - 200	0.0050	+/-0.17	
KC-FD-01 1118 (18K0078-04RE1)			Lab File ID: QV611607.D			Analyzed: 11/13/18 18:35			
ISTD: Fluorobenzene	124114	6.078	202485	6.076	61	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	465560	9.119	831471	9.117	56	50 - 200	0.0020	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	70861	12.099	142351	12.091	50	50 - 200	0.0080	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS
Sequence: Y8K1430 Instrument: QVOA6
Calibration: YK80009

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y8K1430-CCV1)			Lab File ID: QV611650.D			Analyzed: 11/14/18 13:27			
ISTD: Fluorobenzene	246834	6.078				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	786770	9.119				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	129414	12.093				50 - 200		+/-0.17	
LCS (BK80724-BS1)			Lab File ID: QV611651.D			Analyzed: 11/14/18 13:53			
ISTD: Fluorobenzene	232617	6.078	246834	6.078	94	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	760874	9.119	786770	9.119	97	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	127924	12.096	129414	12.093	99	50 - 200	0.0030	+/-0.17	
LCS Dup (BK80724-BSD1)			Lab File ID: QV611652.D			Analyzed: 11/14/18 14:19			
ISTD: Fluorobenzene	228963	6.075	246834	6.078	93	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	740996	9.119	786770	9.119	94	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	123444	12.093	129414	12.093	95	50 - 200	0.0000	+/-0.17	
Blank (BK80724-BLK1)			Lab File ID: QV611654.D			Analyzed: 11/14/18 15:12			
ISTD: Fluorobenzene	231158	6.075	246834	6.078	94	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	699336	9.116	786770	9.119	89	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	119666	12.093	129414	12.093	92	50 - 200	0.0000	+/-0.17	
KC-MW-01 1118 (18K0078-01RE2)			Lab File ID: QV611655.D			Analyzed: 11/14/18 15:38			
ISTD: Fluorobenzene	235228	6.075	246834	6.078	95	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	734762	9.116	786770	9.119	93	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	121620	12.096	129414	12.093	94	50 - 200	0.0030	+/-0.17	
KC-FD-01 1118 (18K0078-04RE2)			Lab File ID: QV611656.D			Analyzed: 11/14/18 16:04			
ISTD: Fluorobenzene	231138	6.078	246834	6.078	94	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	722053	9.119	786770	9.119	92	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	117796	12.094	129414	12.093	91	50 - 200	0.0010	+/-0.17	

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

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 1118	11/01/18 15:45	11/02/18 14:50	11/10/18 03:58	8.51	14.00	11/10/18 09:17	8.73	14.00	
KC-MW-01 1118	11/01/18 15:45	11/02/18 14:50	11/13/18 11:40	11.83	14.00	11/13/18 18:09	12.10	14.00	
KC-MW-01 1118	11/01/18 15:45	11/02/18 14:50	11/14/18 12:33	12.87	14.00	11/14/18 15:38	13.00	14.00	
KC-MW-02 1118	11/01/18 12:19	11/02/18 14:50	11/10/18 03:58	8.65	14.00	11/10/18 09:44	8.89	14.00	
KC-MW-05 1118	11/01/18 11:00	11/02/18 14:50	11/10/18 03:58	8.71	14.00	11/10/18 10:10	8.97	14.00	
KC-FD-01 1118	11/01/18 11:00	11/02/18 14:50	11/10/18 03:58	8.71	14.00	11/10/18 10:37	8.98	14.00	
KC-FD-01 1118	11/01/18 11:00	11/02/18 14:50	11/13/18 11:40	12.03	14.00	11/13/18 18:35	12.32	14.00	
KC-FD-01 1118	11/01/18 11:00	11/02/18 14:50	11/14/18 12:33	13.06	14.00	11/14/18 16:04	13.21	14.00	
KC-TB-01 1118	11/01/18 09:45	11/02/18 14:50	11/10/18 03:58	8.76	14.00	11/10/18 11:03	9.05	14.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 18K0078

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** QVOA6

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 (Fr	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
1,2,3-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
1,4-Dichlorobenzene	0.20	0.50	ug/L
1,4-Dioxane	40	40	ug/L
2-Butanone	0.20	0.50	ug/L
2-Hexanone	0.20	0.50	ug/L
4-Methyl-2-pentanone	0.20	0.50	ug/L
Acetone	1.0	2.0	ug/L
Acrolein	0.20	0.50	ug/L
Acrylonitrile	0.20	0.50	ug/L
Benzene	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
Chloroethane	0.20	0.50	ug/L
Chloroform	0.20	0.50	ug/L
Chloromethane	0.20	0.50	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 18K0078

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** QVOA6

Analyte	LOD	LOQ	Units
cis-1,2-Dichloroethylene	0.20	0.50	ug/L
cis-1,3-Dichloropropylene	0.20	0.50	ug/L
Cyclohexane	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 acetate	0.20	0.50	ug/L
Methyl tert-butyl ether (MTBE)	0.20	0.50	ug/L
Methylcyclohexane	0.20	0.50	ug/L
Methylene chloride	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-Butyl alcohol (TBA)	0.50	1.0	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
trans-1,4-dichloro-2-butene	0.20	0.50	ug/L
Trichloroethylene	0.20	0.50	ug/L
Trichlorofluoromethane	0.20	0.50	ug/L
Vinyl Chloride	0.20	0.50	ug/L
Xylenes, Total	0.60	1.5	ug/L

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

KC-MW-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-01	File ID:	QV611535.D
Sampled:	11/01/18 15:45	Prepared:	11/10/18 03:58	Analyzed:	11/10/18 09:17
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009
Instrument:	QVOA6				

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	1.0	U
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	6.4	D
75-35-4	1,1-Dichloroethylene	2	24	D
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
106-46-7	1,4-Dichlorobenzene	2	1.0	U
123-91-1	1,4-Dioxane	2	80	U
78-93-3	2-Butanone	2	1.0	U
591-78-6	2-Hexanone	2	1.0	U
108-10-1	4-Methyl-2-pentanone	2	1.0	U
67-64-1	Acetone	2	4.0	U
107-02-8	Acrolein	2	1.0	U
107-13-1	Acrylonitrile	2	1.0	U
71-43-2	Benzene	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
10061-01-5	cis-1,3-Dichloropropylene	2	1.0	U
110-82-7	Cyclohexane	2	1.0	U
124-48-1	Dibromochloromethane	2	1.0	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-01	File ID:	QV611535.D
Sampled:	11/01/18 15:45	Prepared:	11/10/18 03:58	Analyzed:	11/10/18 09:17
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

Batch: BK80517 Sequence: Y8K1229 Calibration: YK80009 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
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
79-20-9	Methyl acetate	2	1.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	2	1.0	U
108-87-2	Methylcyclohexane	2	1.0	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	2	2.0	U
98-06-6	tert-Butylbenzene	2	1.0	U
127-18-4	Tetrachloroethylene	2	1.0	U
108-88-3	Toluene	2	0.64	JD
156-60-5	trans-1,2-Dichloroethylene	2	270	D
10061-02-6	trans-1,3-Dichloropropylene	2	1.0	U
110-57-6	trans-1,4-dichloro-2-butene	2	1.0	U
75-69-4	Trichlorofluoromethane	2	1.0	U
1330-20-7	Xylenes, Total	2	3.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	6.91	69.1	69 - 130	
SURR: Toluene-d8	10.0	10.4	104	81 - 117	
SURR: p-Bromofluorobenzene	10.0	12.1	121	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	159016	6.078	156683	6.075	
ISTD: Chlorobenzene-d5	602167	9.116	650936	9.116	
ISTD: 1,2-Dichlorobenzene-d4	67798	12.093	91802	12.093	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611535.D
Acq On : 10 Nov 2018 9:17 am
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-01
Misc : QBQV6110918B 8260 2X A
ALS Vial : 49 Sample Multiplier: 2

Quant Time: Nov 12 14:28:42 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

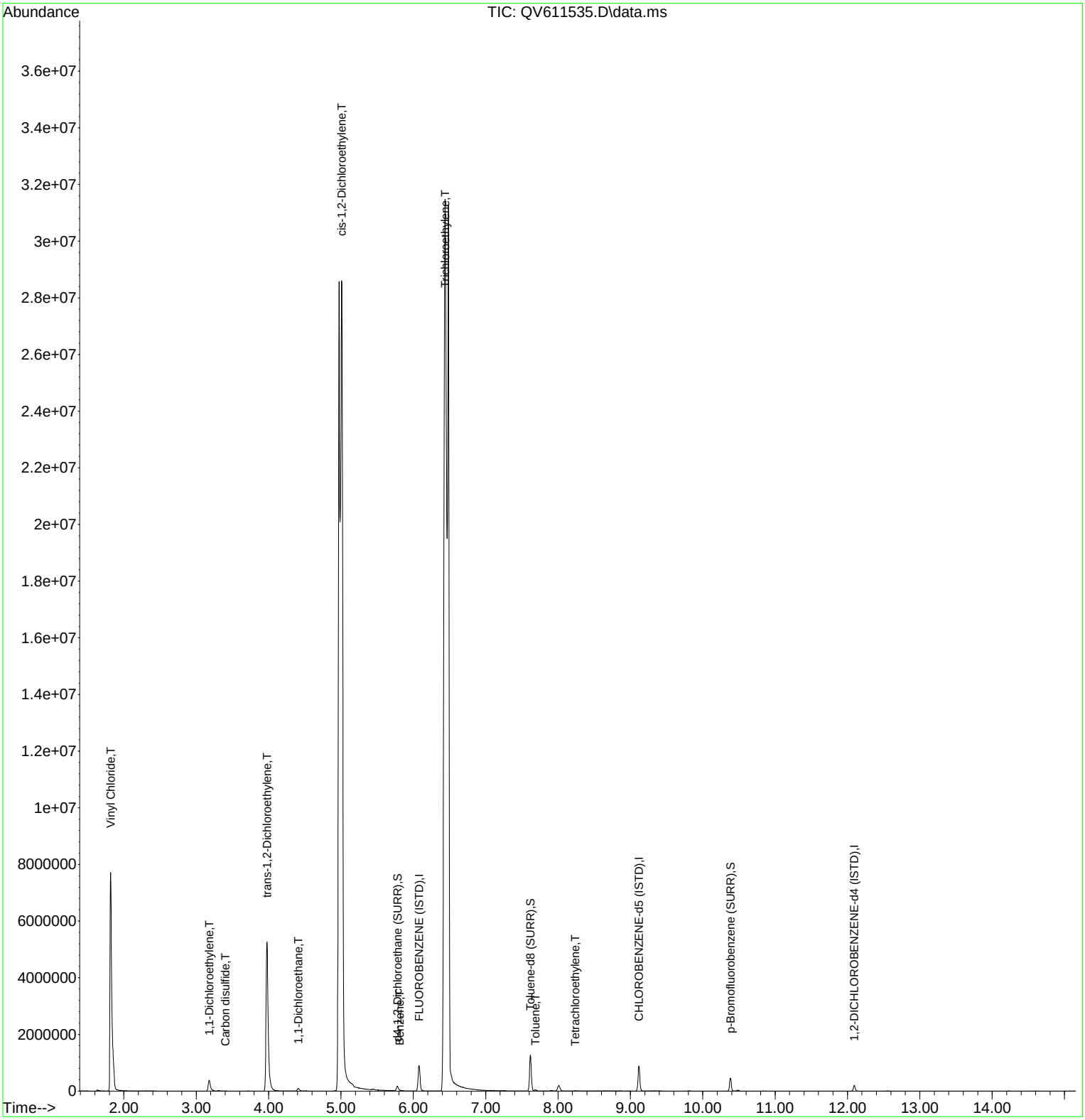
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.078	70	159016	10.00	ppb	#	0.01
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	602167	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	67798	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.781	65	103647	6.91	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 69.10%				
51) Toluene-d8 (SURR)	7.617	98	926700	10.40	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 104.00%				
70) p-Bromofluorobenzene (...	10.382	95	162122	12.12	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 121.20%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.816	62	8229811	508.60	ppb	#	46
10) 1,1-Dichloroethylene	3.179	61	264093	11.85	ppb	#	53
15) Carbon disulfide	3.402	76	5650	0.15	ppb		100
19) trans-1,2-Dichloroethy...	3.978	61	3035067	135.11	ppb	#	88
21) 1,1-Dichloroethane	4.409	63	93679	3.18	ppb		98
25) cis-1,2-Dichloroethylene	5.010	61	28034802m	1089.91	ppb		
38) Benzene	5.811	78	12671	0.18	ppb	#	1
41) Trichloroethylene	6.440	95	21380353m	1061.80	ppb		
52) Toluene	7.686	91	28045	0.32	ppb		100
56) Tetrachloroethylene	8.237	166	4075	0.15	ppb	#	99

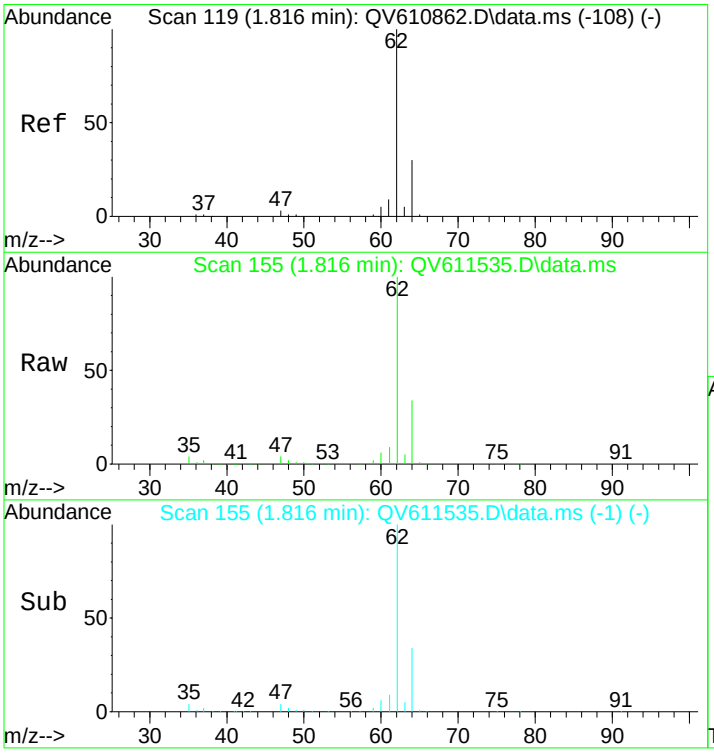
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611535.D
Acq On : 10 Nov 2018 9:17 am
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-01
Misc : QBQV6110918B 8260 2X A
ALS Vial : 49 Sample Multiplier: 2

Quant Time: Nov 12 14:28:42 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

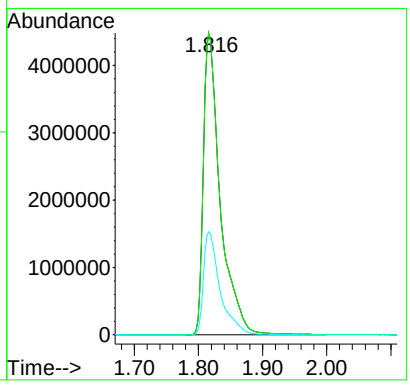


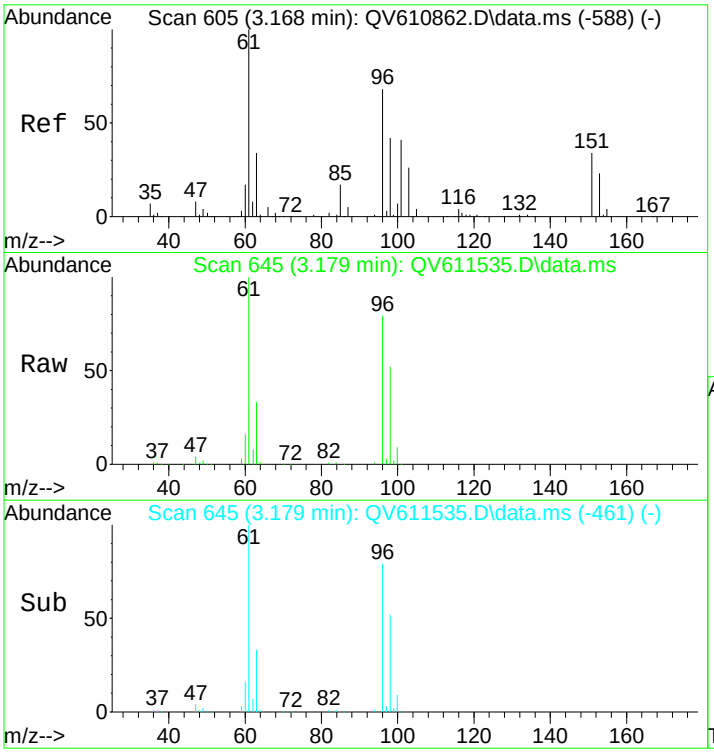


#4
Vinyl Chloride
Concen: 508.60 ppb
RT: 1.816 min Scan# 155
Delta R.T. 0.000 min
Lab File: QV611535.D
Acq: 10 Nov 2018 9:17 am

Tgt Ion: 62 Resp: 8229811

Ion	Ratio	Lower	Upper
62	100		
62	100.0	36.0	74.8#
64	33.6	12.5	25.9#

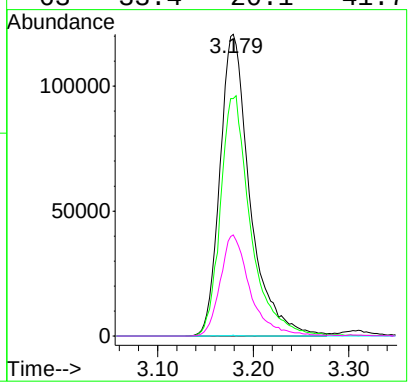


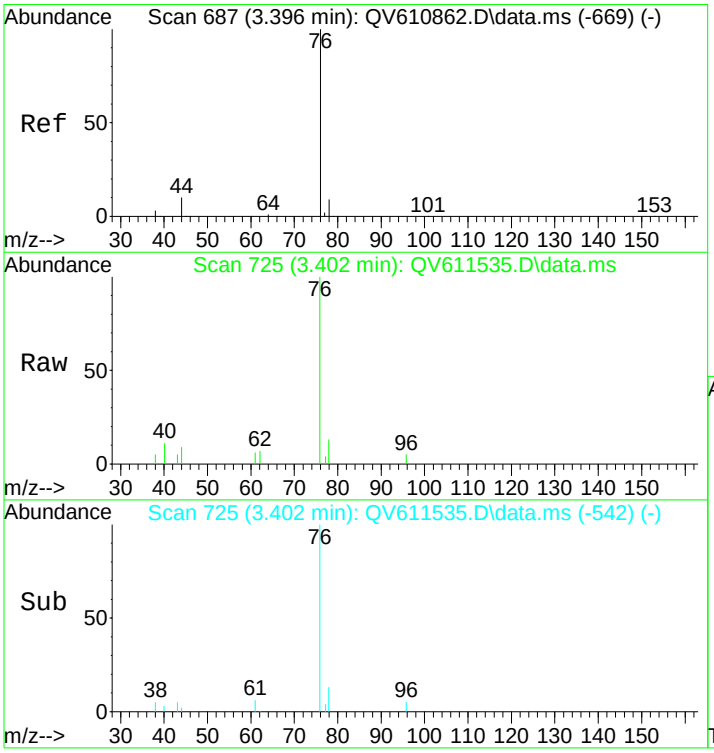


#10
1,1-Dichloroethylene
Concen: 11.85 ppb
RT: 3.179 min Scan# 645
Delta R.T. 0.011 min
Lab File: QV611535.D
Acq: 10 Nov 2018 9:17 am

Tgt Ion: 61 Resp: 264093

Ion	Ratio	Lower	Upper
61	100		
96	79.8	33.6	69.8#
101	0.1	37.0	77.0#
63	33.4	20.1	41.7

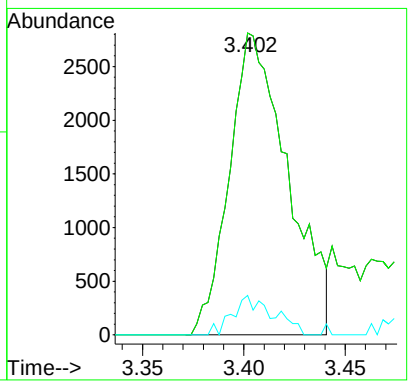


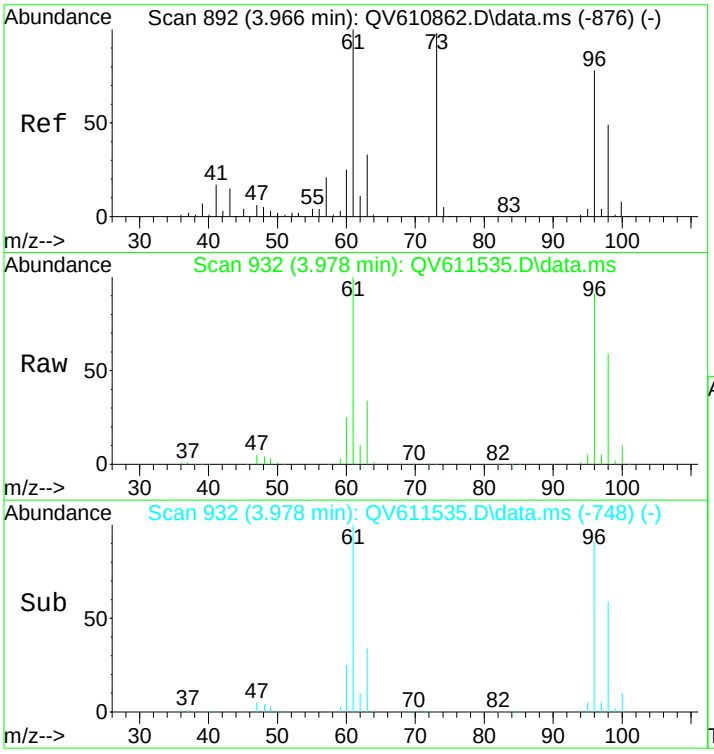


#15
Carbon disulfide
Concen: 0.15 ppb
RT: 3.402 min Scan# 725
Delta R.T. 0.009 min
Lab File: QV611535.D
Acq: 10 Nov 2018 9:17 am

Tgt Ion: 76 Resp: 5650

Ion	Ratio	Lower	Upper
76	100		
76	100.0	65.0	135.0
78	7.3	4.5	13.4

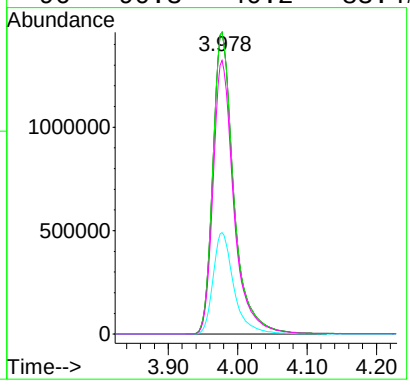


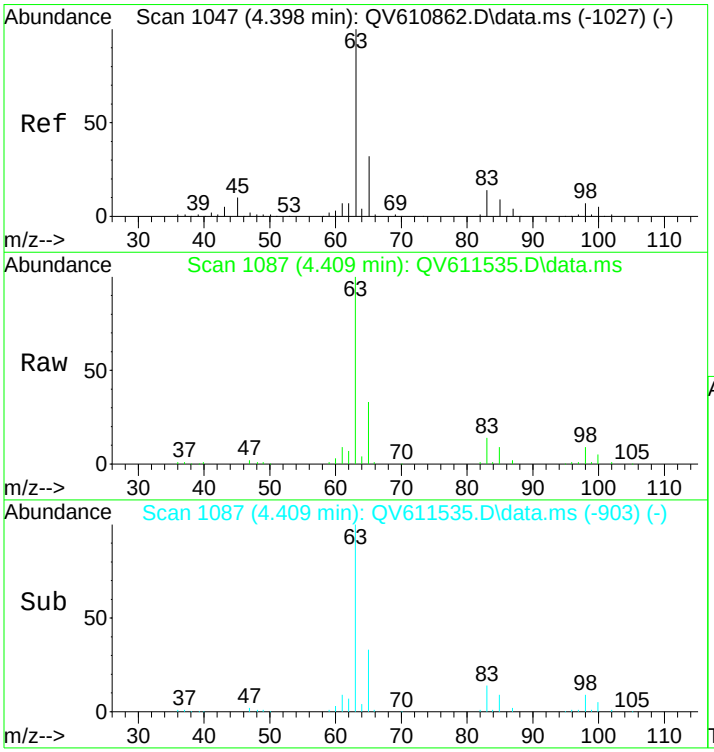


#19
trans-1,2-Dichloroethylene
Concen: 135.11 ppb
RT: 3.978 min Scan# 932
Delta R.T. 0.011 min
Lab File: QV611535.D
Acq: 10 Nov 2018 9:17 am

Tgt Ion: 61 Resp: 3035067

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	33.5	20.9	43.3
96	90.3	40.2	83.4#

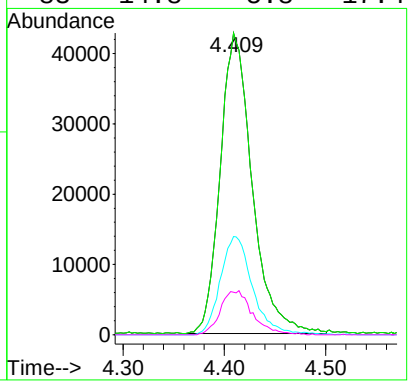


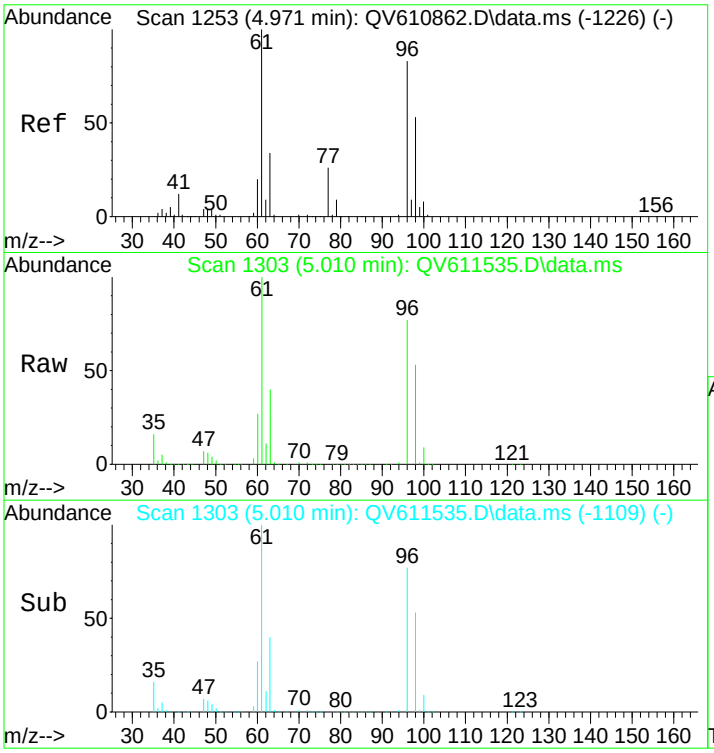


#21
1,1-Dichloroethane
Concen: 3.18 ppb
RT: 4.409 min Scan# 1087
Delta R.T. 0.011 min
Lab File: QV611535.D
Acq: 10 Nov 2018 9:17 am

Tgt Ion: 63 Resp: 93679

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	32.7	19.4	40.2
83	14.8	5.8	17.4

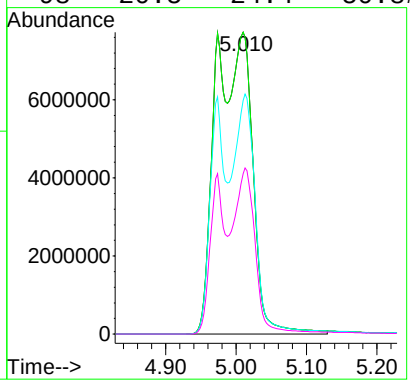


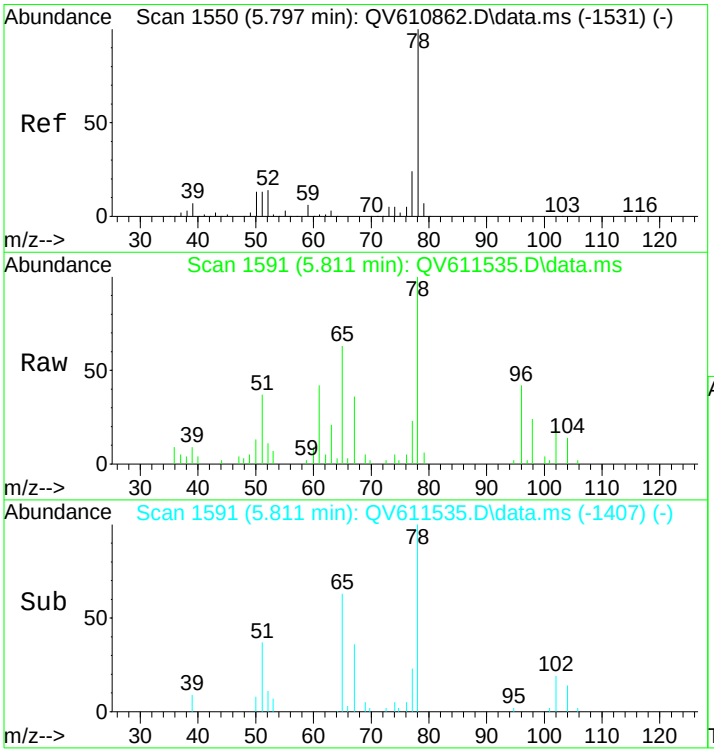


#25
cis-1,2-Dichloroethylene
Concen: 1089.91 ppb m
RT: 5.010 min Scan# 1303
Delta R.T. 0.039 min
Lab File: QV611535.D
Acq: 10 Nov 2018 9:17 am

Tgt Ion: 61 Resp:28034802

Ion	Ratio	Lower	Upper
61	100		
61	39.7	65.0	135.0#
96	31.2	39.2	81.4#
98	20.5	24.4	50.8#

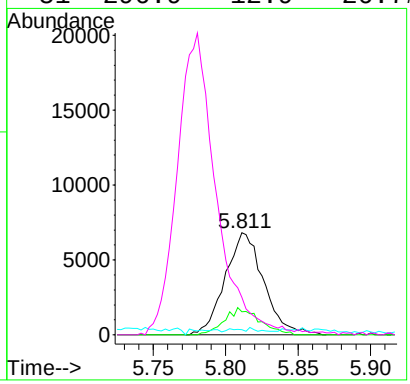


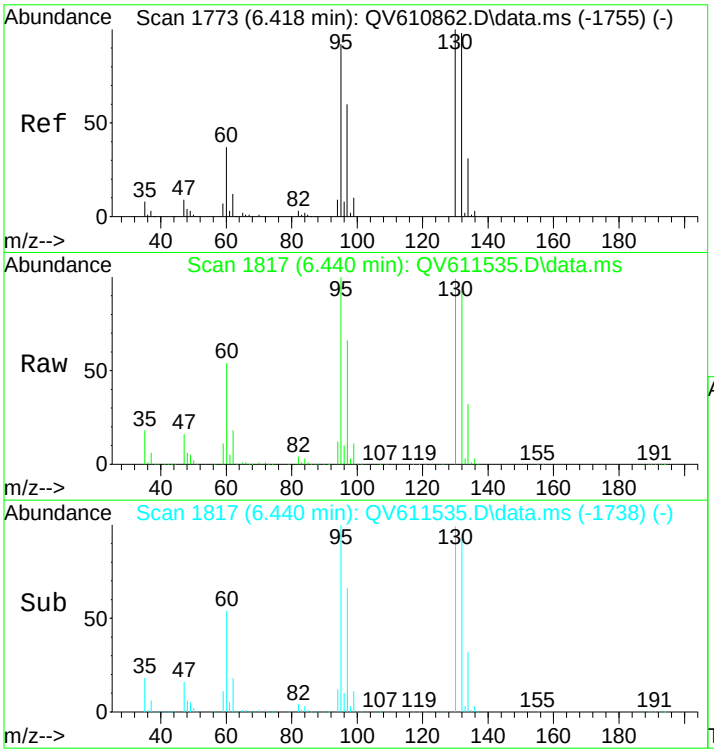


#38
Benzene
Concen: 0.18 ppb
RT: 5.811 min Scan# 1591
Delta R.T. 0.011 min
Lab File: QV611535.D
Acq: 10 Nov 2018 9:17 am

Tgt Ion: 78 Resp: 12671

Ion	Ratio	Lower	Upper
78	100		
77	23.9	15.7	32.5
62	2.4	22.9	47.5#
51	296.9	12.9	26.7#

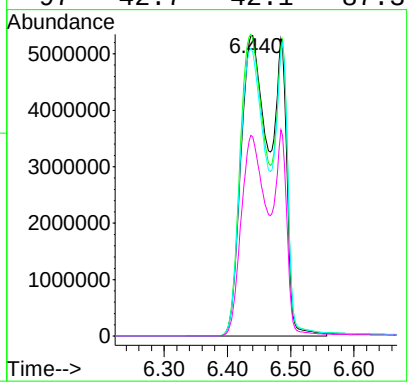


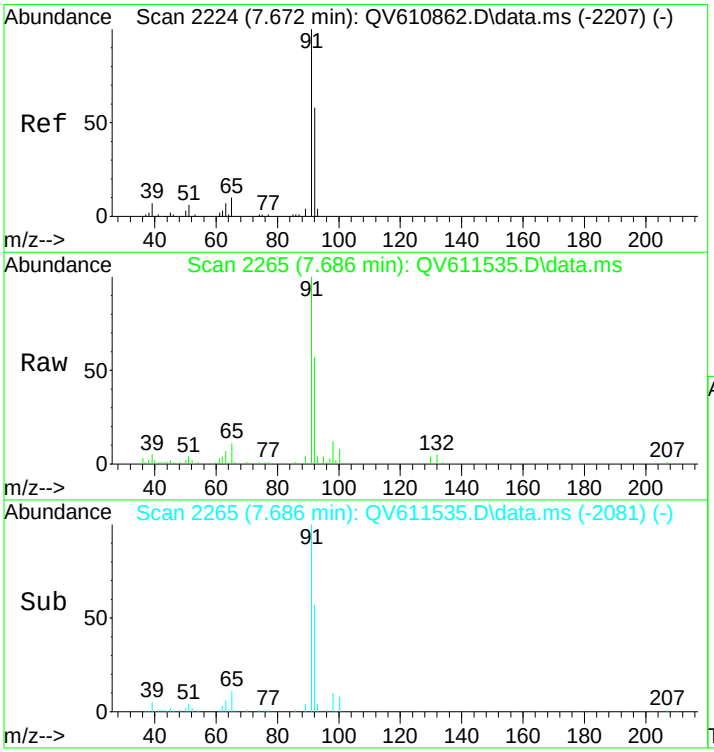


#41
Trichloroethylene
Concen: 1061.80 ppb m
RT: 6.440 min Scan# 1817
Delta R.T. 0.020 min
Lab File: QV611535.D
Acq: 10 Nov 2018 9:17 am

Tgt Ion: 95 Resp:21380353

Ion	Ratio	Lower	Upper
95	100		
130	66.1	70.0	145.4#
132	62.8	69.6	144.6#
97	42.7	42.1	87.3

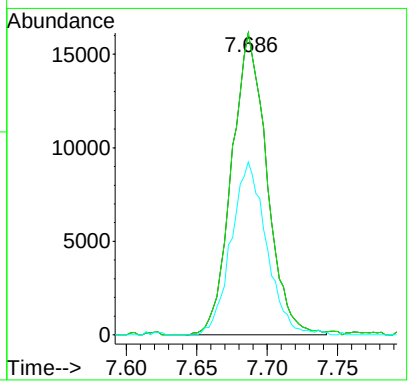


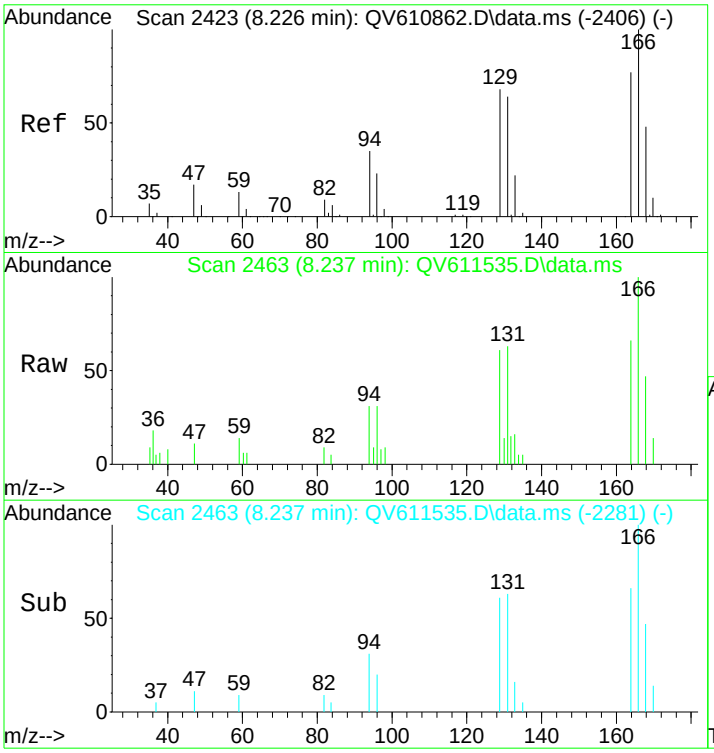


#52
Toluene
Concen: 0.32 ppb
RT: 7.686 min Scan# 2265
Delta R.T. 0.011 min
Lab File: QV611535.D
Acq: 10 Nov 2018 9:17 am

Tgt Ion: 91 Resp: 28045

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	57.2	37.2	77.4

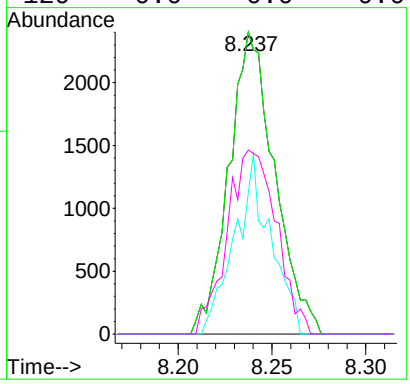




#56
Tetrachloroethylene
Concen: 0.15 ppb
RT: 8.237 min Scan# 2463
Delta R.T. 0.006 min
Lab File: QV611535.D
Acq: 10 Nov 2018 9:17 am

Tgt Ion:166 Resp: 4075

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	46.8	31.7	65.7
129	0.0	0.0	0.0



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-01RE1	File ID:	QV611606.D
Sampled:	11/01/18 15:45	Prepared:	11/13/18 11:40	Analyzed:	11/13/18 18:09
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80632	Sequence:	Y8K1410	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-01-4	Vinyl Chloride	20	1400	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	12.0	120	69 - 130	
SURR: Toluene-d8	10.0	9.53	95.3	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.7	107	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	180245	6.076	202485	6.076	
ISTD: Chlorobenzene-d5	673846	9.117	831471	9.117	
ISTD: 1,2-Dichlorobenzene-d4	97757	12.096	142351	12.091	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611606.D
Acq On : 13 Nov 2018 6:09 pm
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-01RE1
Misc : QBQV6111318A 8260 20X 2.5ML/50ML C
ALS Vial : 14 Sample Multiplier: 20

Quant Time: Nov 14 09:17:34 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO041.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Nov 07 08:55:29 2018
Response via : Initial Calibration

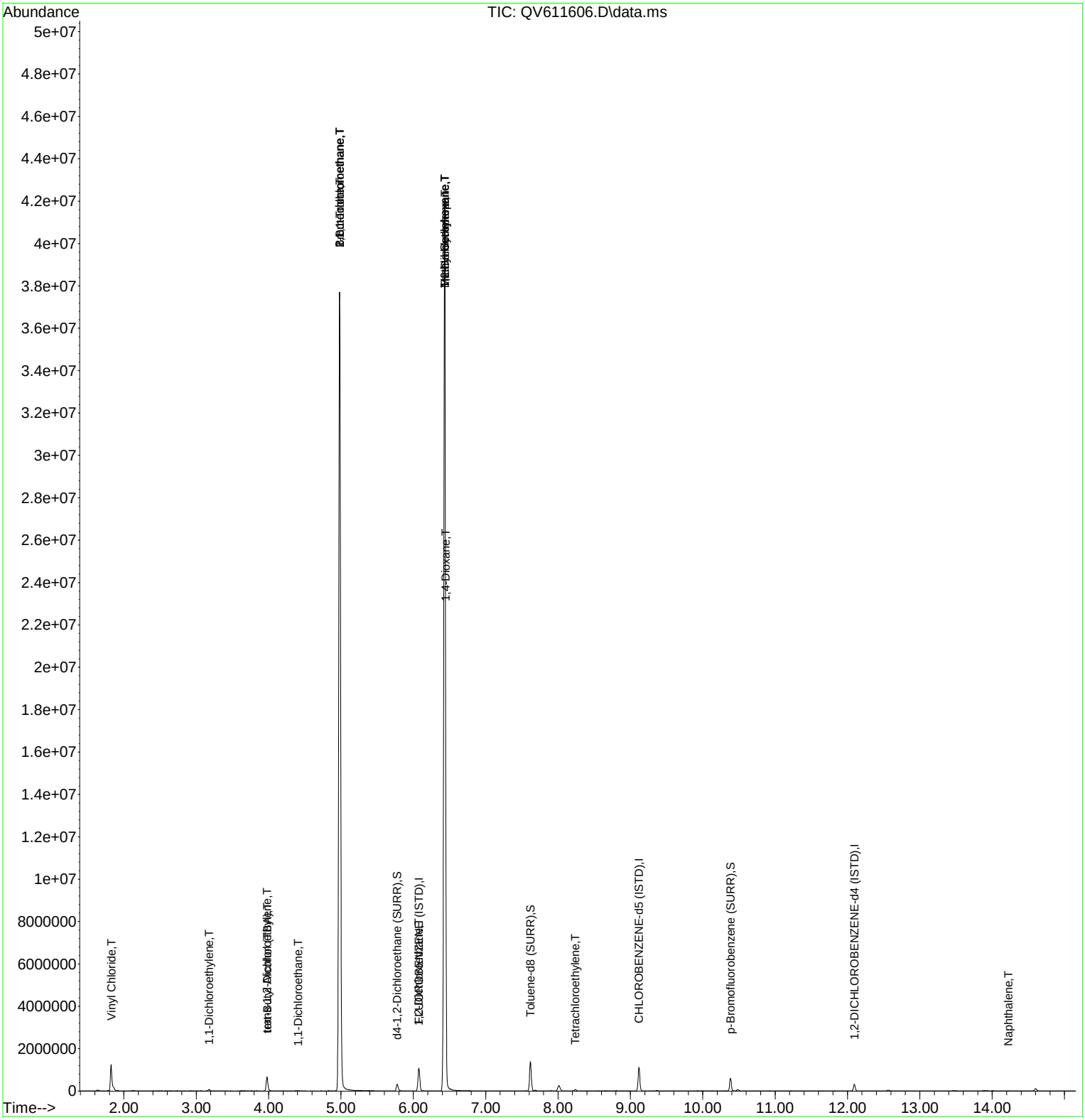
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.076	70	180245	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.117	117	673846	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.096	152	97757	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.775	65	204209	11.32	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 113.20%				
51) Toluene-d8 (SURR)	7.617	98	950621	10.35	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 103.50%				
70) p-Bromofluorobenzene (...	10.382	95	206187	10.24	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 102.40%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.824	62	1246090	19.29	ppb	#	47
10) 1,1-Dichloroethylene	3.174	61	40889	0.51	ppb	#	60
16) tert-Butyl Alcohol (TBA)	3.981	59	10162	2.56	ppb	#	1
19) trans-1,2-Dichloroethy...	3.978	61	326314	4.09	ppb		93
21) 1,1-Dichloroethane	4.406	63	15205	0.14	ppb	#	86
26) 2-Butanone	4.982	72	126564	27.83	ppb	#	95
29) Bromochloromethane	4.982	49	527397	12.96	ppb	#	65
31) 1,1,1-Trichloroethane	4.982	97	708603	8.00	ppb	#	74
37) 1,2-Dichloroethane	6.073	62	12597	0.22	ppb	#	87
41) Trichloroethylene	6.434	95	12451580	197.29	ppb		97
42) Methyl Cyclohexane	6.432	83	154976	2.04	ppb	#	1
46) 1,2-Dichloropropane	6.434	63	35942	0.58	ppb	#	83
47) 1,4-Dioxane	6.446	88	54	0.19	ppb		98
56) Tetrachloroethylene	8.237	166	22555	0.28	ppb	#	99
93) Naphthalene	14.222	128	3318	0.14	ppb	#	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611606.D
Acq On : 13 Nov 2018 6:09 pm
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-01RE1
Misc : QBQV6111318A 8260 20X 2.5ML/50ML C
ALS Vial : 14 Sample Multiplier: 20

Quant Time: Nov 14 09:17:34 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO041.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Nov 07 08:55:29 2018
Response via : Initial Calibration



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-01RE2	File ID:	QV611655.D
Sampled:	11/01/18 15:45	Prepared:	11/14/18 12:33	Analyzed:	11/14/18 15:38
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80724	Sequence:	Y8K1430	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	200	8200	D
79-01-6	Trichloroethylene	200	8800	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	D
SURR: Toluene-d8	10.0	11.0	110	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	8.52	85.2	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	235228	6.075	246834	6.078	
ISTD: Chlorobenzene-d5	734762	9.116	786770	9.119	
ISTD: 1,2-Dichlorobenzene-d4	121620	12.096	129414	12.093	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611655.D
Acq On : 14 Nov 2018 3:38 pm
InstName : QVOA6
Operator : LLJ
Sample : 18k0078-01RE2
Misc : QBQV6111318C CT RCP 250UL/50ML
ALS Vial : 63 Sample Multiplier: 200

Quant Time: Nov 14 16:18:17 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

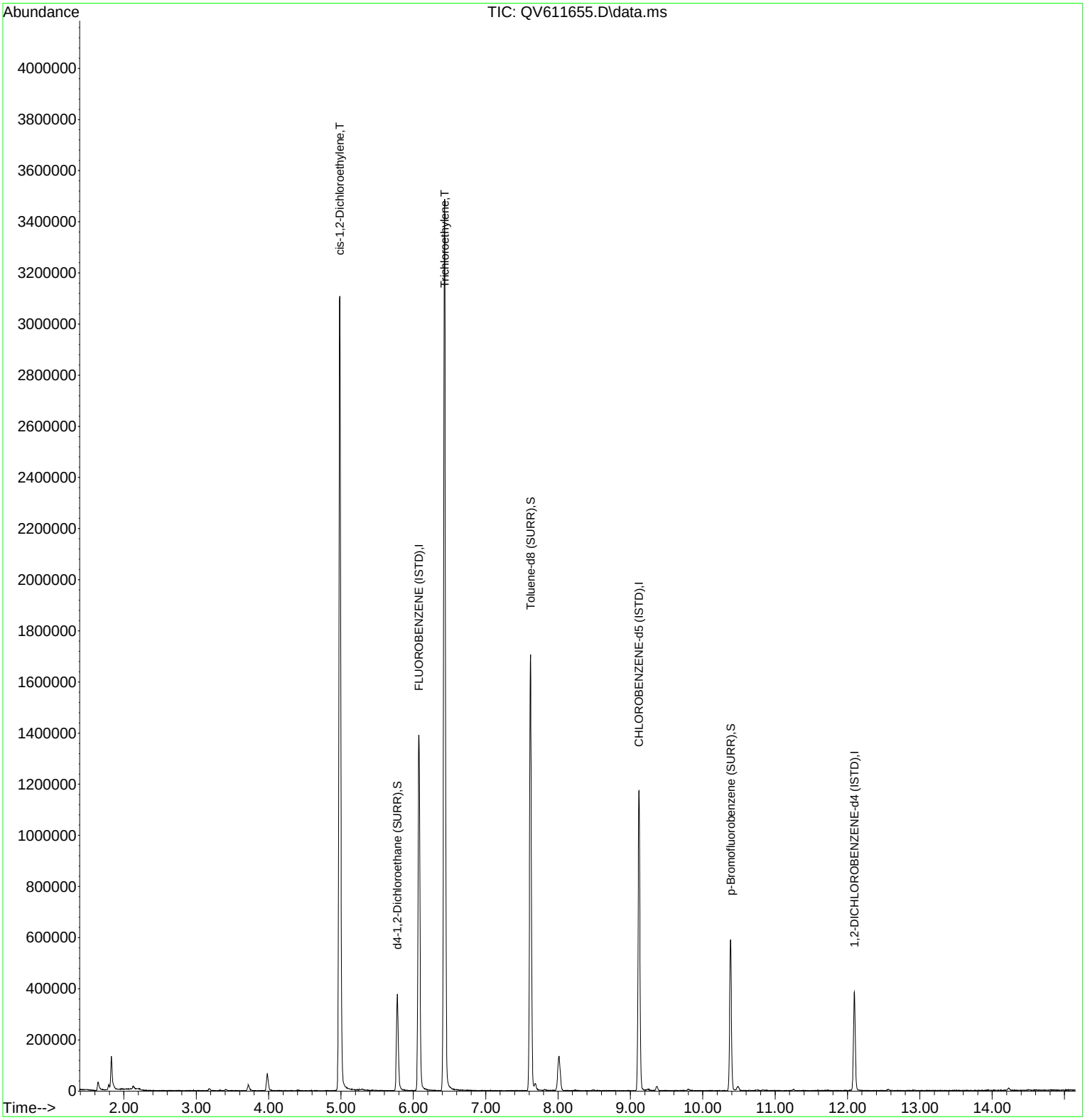
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.075	70	235228	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	734762	10.00	ppb	# 0.00
67) 1,2-DICHLOROBENZENE-d4...	12.096	152	121620	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.778	65	238836	10.77	ppb	0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 107.70%			
51) Toluene-d8 (SURR)	7.620	98	1196437	11.00	ppb	0.01
Spiked Amount 10.000	Range 81 - 117		Recovery = 110.00%			
70) p-Bromofluorobenzene (...	10.385	95	204598	8.52	ppb	0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 85.20%			
Target Compounds						Qvalue
25) cis-1,2-Dichloroethylene	4.982	61	1560244	41.01	ppb	# 64
41) Trichloroethylene	6.432	95	1081295	44.01	ppb	98

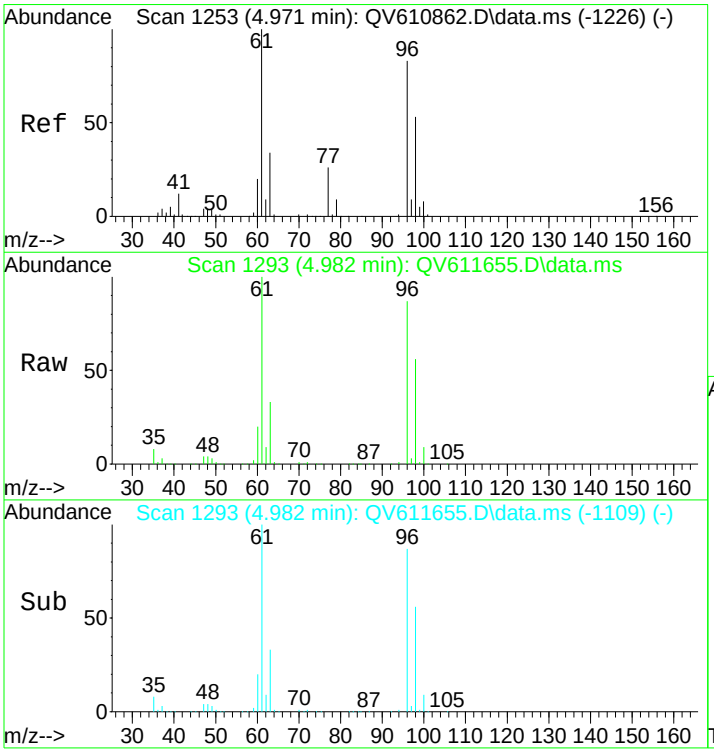
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611655.D
Acq On : 14 Nov 2018 3:38 pm
InstName : QVOA6
Operator : LLJ
Sample : 18k0078-01RE2
Misc : QBQV6111318C CT RCP 250UL/50ML
ALS Vial : 63 Sample Multiplier: 200

Quant Time: Nov 14 16:18:17 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

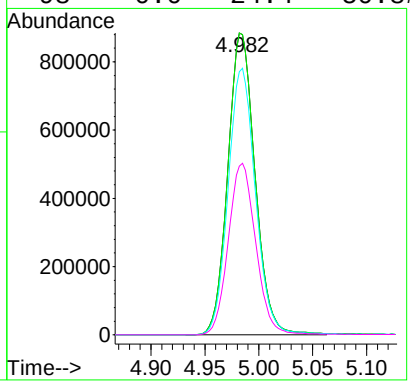


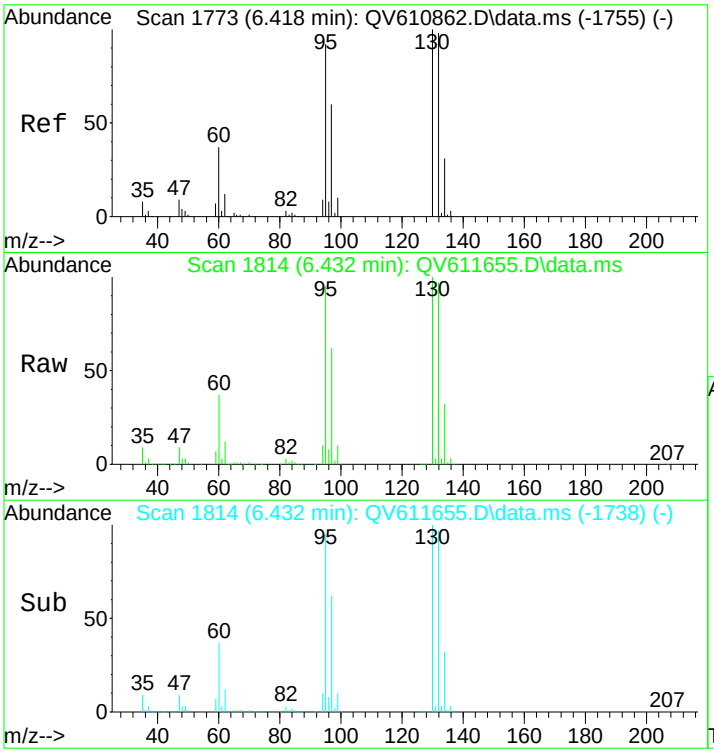


#25
cis-1,2-Dichloroethylene
Concen: 41.01 ppb
RT: 4.982 min Scan# 1293
Delta R.T. 0.011 min
Lab File: QV611655.D
Acq: 14 Nov 2018 3:38 pm

Tgt Ion: 61 Resp: 1560244

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	0.0	39.2	81.4#
98	0.0	24.4	50.8#

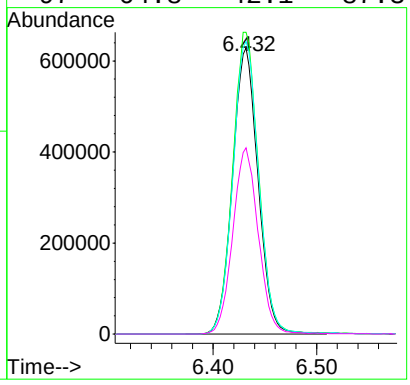




#41
Trichloroethylene
Concen: 44.01 ppb
RT: 6.432 min Scan# 1814
Delta R.T. 0.012 min
Lab File: QV611655.D
Acq: 14 Nov 2018 3:38 pm

Tgt Ion: 95 Resp: 1081295

Ion	Ratio	Lower	Upper
95	100		
130	106.8	70.0	145.4
132	103.6	69.6	144.6
97	64.8	42.1	87.3



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-02 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-02	File ID:	QV611536.D
Sampled:	11/01/18 12:19	Prepared:	11/10/18 03:58	Analyzed:	11/10/18 09:44
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009
Instrument:	QVOA6				

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	0.31	J
75-35-4	1,1-Dichloroethylene	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
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	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	0.24	J
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
156-59-2	cis-1,2-Dichloroethylene	1	13	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-02 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-02	File ID:	QV611536.D
Sampled:	11/01/18 12:19	Prepared:	11/10/18 03:58	Analyzed:	11/10/18 09:44
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
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
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	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	0.36	J
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	6.0	
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	2.7	
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	7.08	70.8	69 - 130	
SURR: Toluene-d8	10.0	10.3	103	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.8	118	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	136471	6.075	156683	6.075	
ISTD: Chlorobenzene-d5	522150	9.116	650936	9.116	
ISTD: 1,2-Dichlorobenzene-d4	63442	12.096	91802	12.093	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611536.D
Acq On : 10 Nov 2018 9:44 am
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-02
Misc : QBQV6110918B 8260 1X A
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Nov 12 14:29:47 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

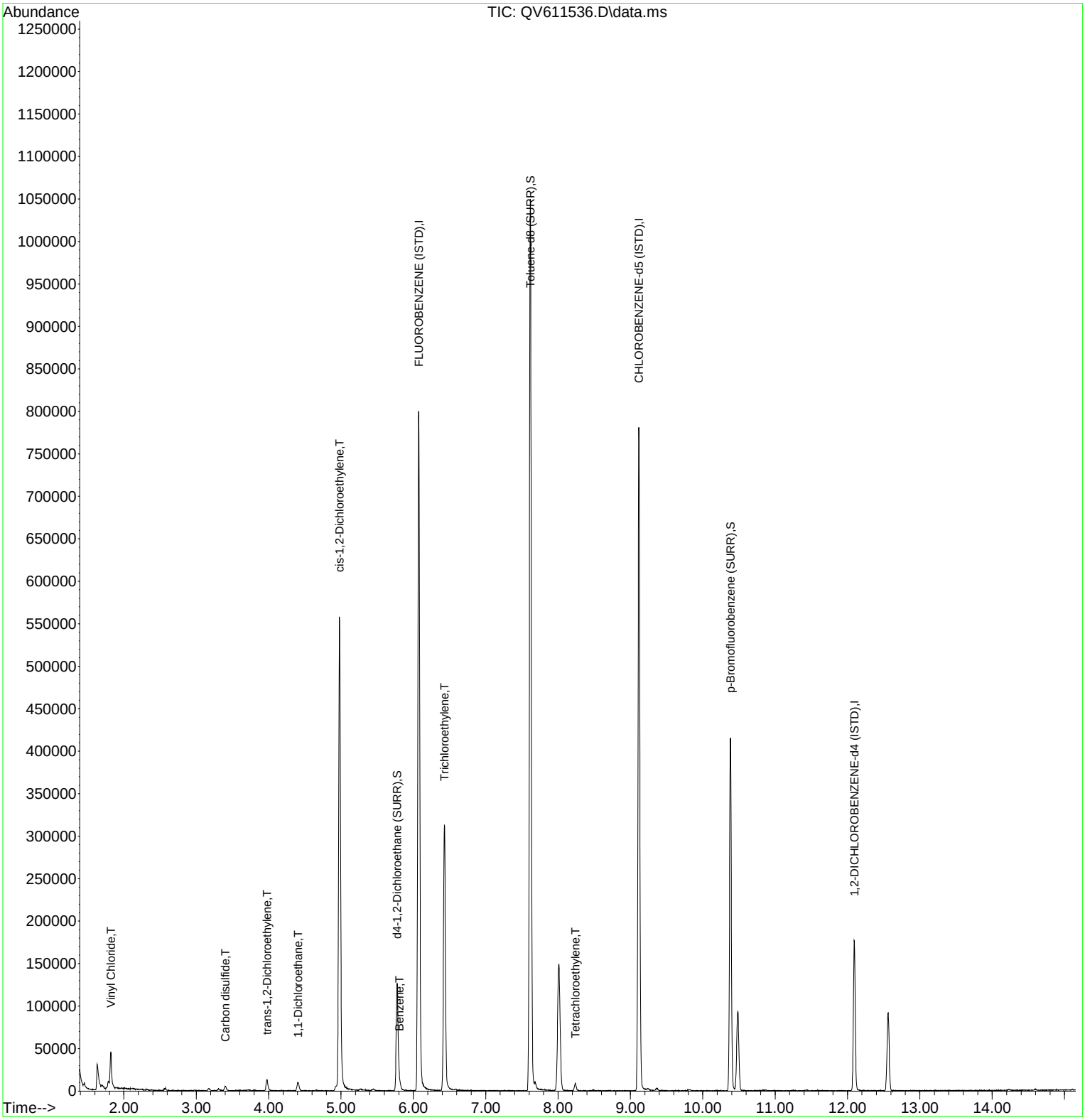
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.075	70	136471	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	522150	10.00	ppb	# 0.00
67) 1,2-DICHLOROBENZENE-d4...	12.096	152	63442	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.775	65	91082m	7.08	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 70.80%			
51) Toluene-d8 (SURR)	7.617	98	794155	10.28	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 102.80%			
70) p-Bromofluorobenzene (...	10.382	95	148300	11.84	ppb	0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 118.40%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.819	62	37309	2.69	ppb	# 46
15) Carbon disulfide	3.402	76	7886	0.24	ppb	100
19) trans-1,2-Dichloroethy...	3.978	61	6904	0.36	ppb	# 79
21) 1,1-Dichloroethane	4.406	63	7886	0.31	ppb	98
25) cis-1,2-Dichloroethylene	4.979	61	286631	12.98	ppb	# 76
38) Benzene	5.808	78	7242	0.12	ppb	# 1
41) Trichloroethylene	6.429	95	104025	5.96	ppb	94
56) Tetrachloroethylene	8.240	166	3208	0.14	ppb	# 98

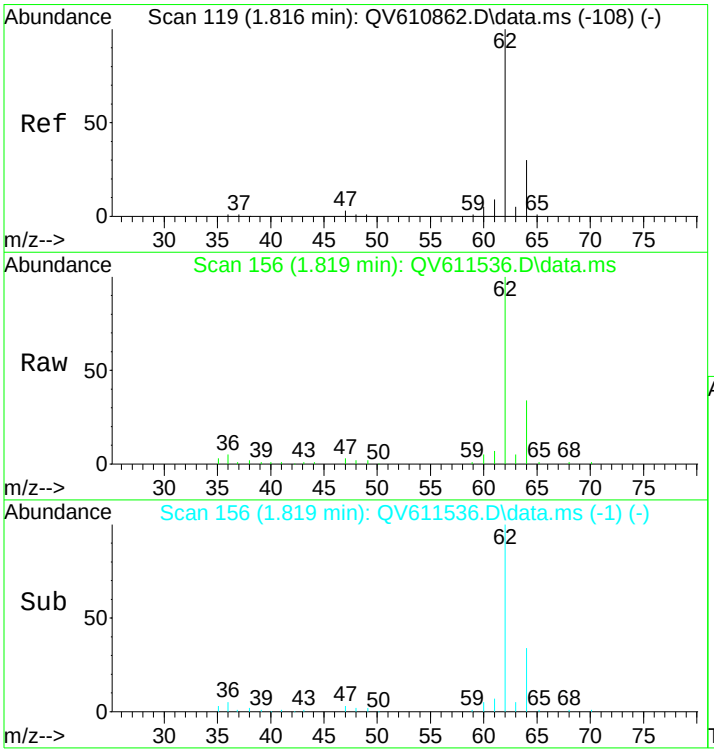
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611536.D
Acq On : 10 Nov 2018 9:44 am
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-02
Misc : QBQV6110918B 8260 1X A
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Nov 12 14:29:47 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

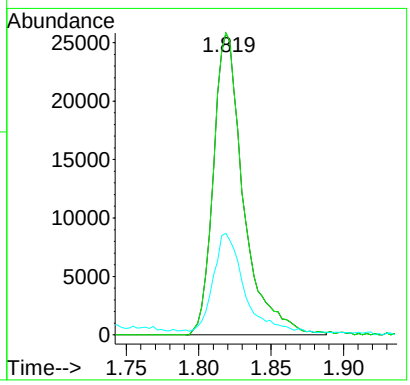


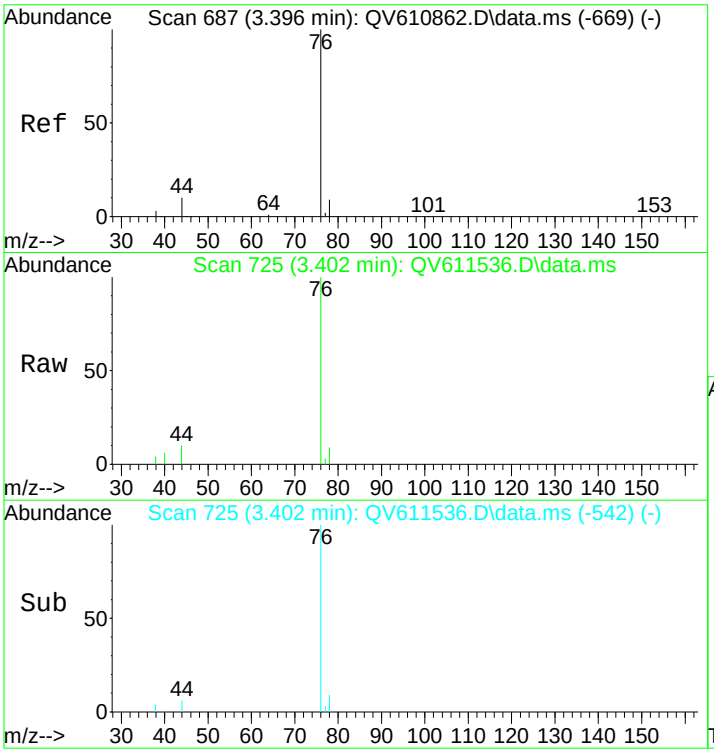


#4
Vinyl Chloride
Concen: 2.69 ppb
RT: 1.819 min Scan# 156
Delta R.T. 0.003 min
Lab File: QV611536.D
Acq: 10 Nov 2018 9:44 am

Tgt Ion: 62 Resp: 37309

Ion	Ratio	Lower	Upper
62	100		
62	100.0	36.0	74.8#
64	33.6	12.5	25.9#

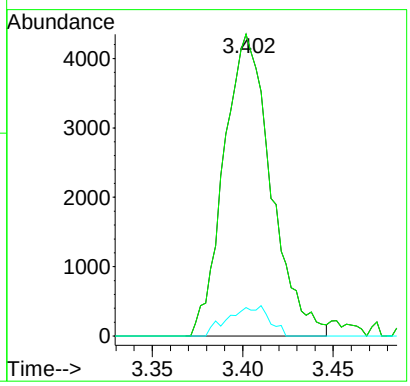


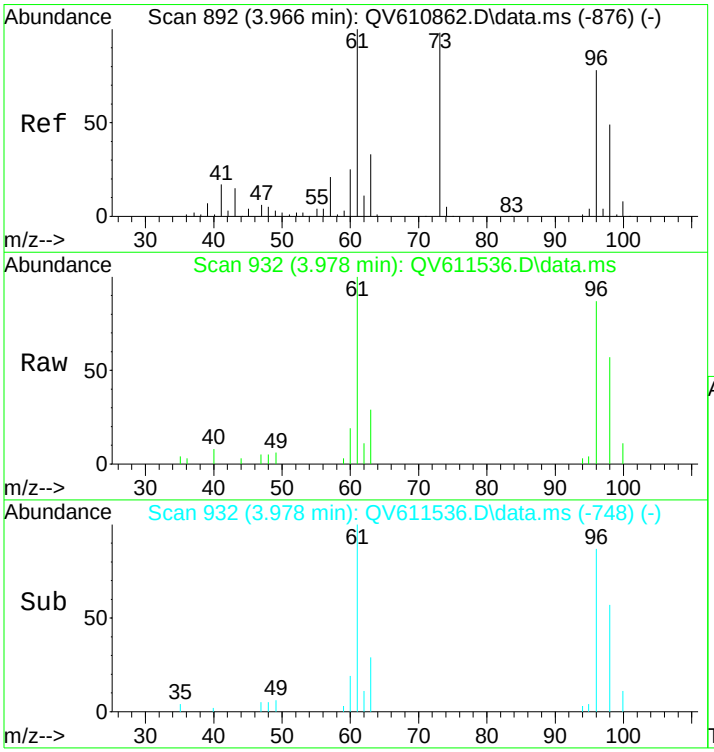


#15
Carbon disulfide
Concen: 0.24 ppb
RT: 3.402 min Scan# 725
Delta R.T. 0.009 min
Lab File: QV611536.D
Acq: 10 Nov 2018 9:44 am

Tgt Ion: 76 Resp: 7886

Ion	Ratio	Lower	Upper
76	100		
76	100.0	65.0	135.0
78	8.5	4.5	13.4

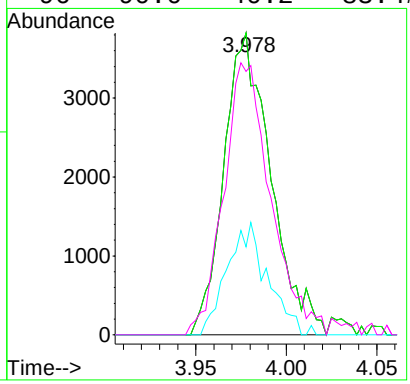


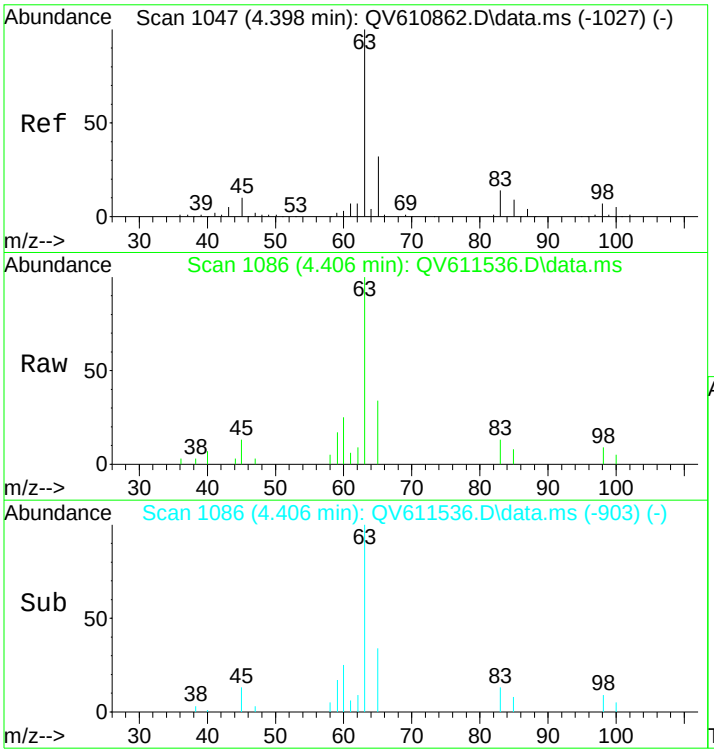


#19
trans-1,2-Dichloroethylene
Concen: 0.36 ppb
RT: 3.978 min Scan# 932
Delta R.T. 0.011 min
Lab File: QV611536.D
Acq: 10 Nov 2018 9:44 am

Tgt Ion: 61 Resp: 6904

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	0.0	20.9	43.3#
96	90.0	40.2	83.4#

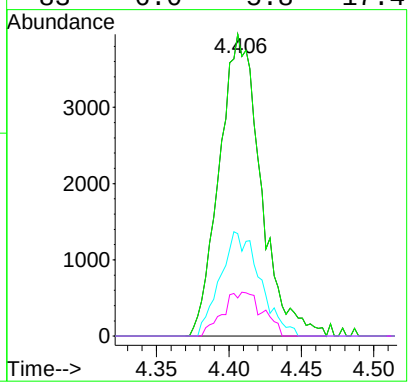


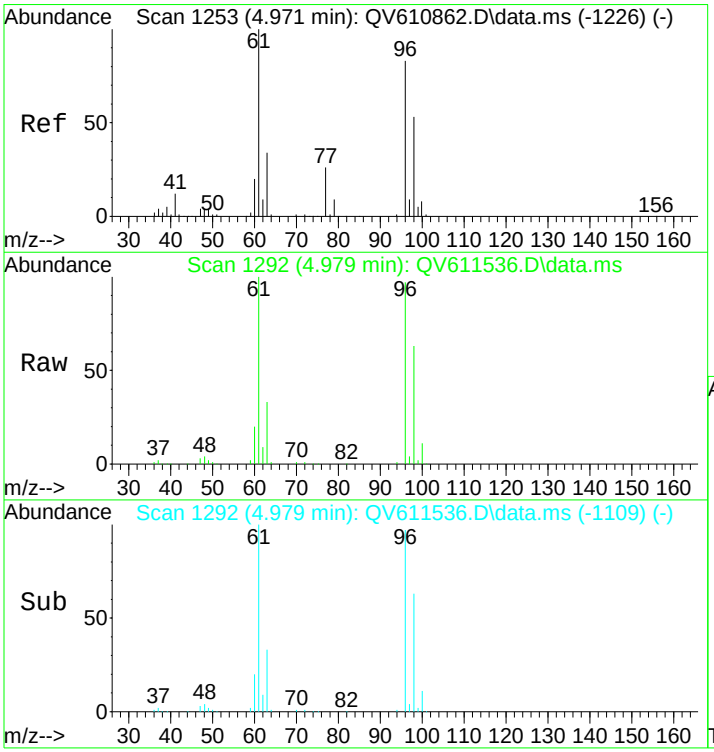


#21
1,1-Dichloroethane
Concen: 0.31 ppb
RT: 4.406 min Scan# 1086
Delta R.T. 0.008 min
Lab File: QV611536.D
Acq: 10 Nov 2018 9:44 am

Tgt Ion: 63 Resp: 7886

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	33.1	19.4	40.2
83	6.0	5.8	17.4

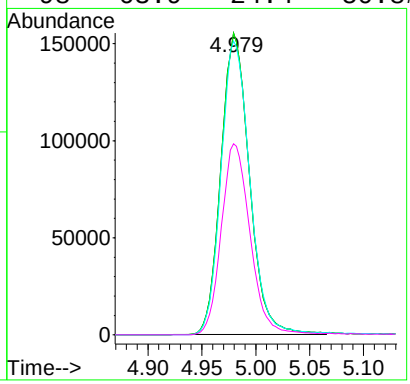


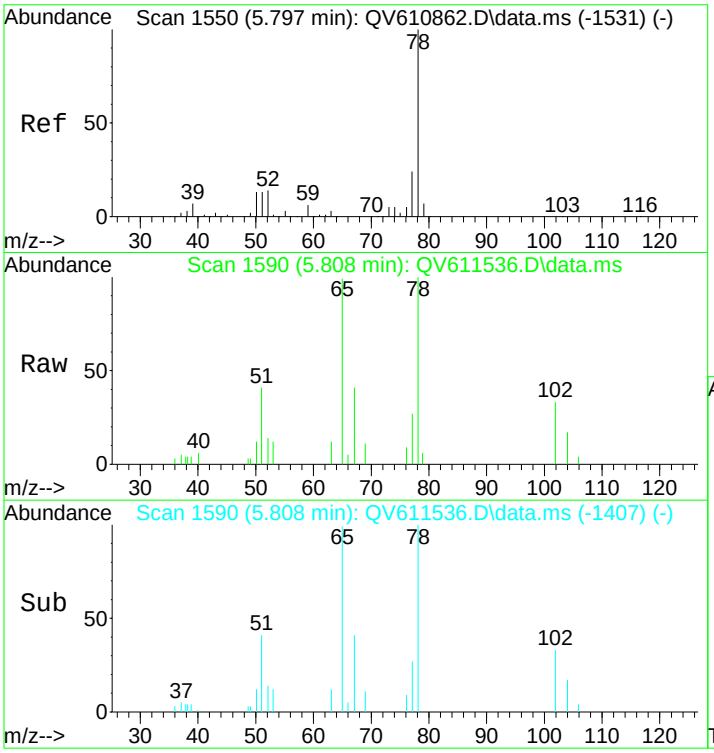


#25
cis-1,2-Dichloroethylene
Concen: 12.98 ppb
RT: 4.979 min Scan# 1292
Delta R.T. 0.008 min
Lab File: QV611536.D
Acq: 10 Nov 2018 9:44 am

Tgt Ion: 61 Resp: 286631

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	99.1	39.2	81.4#
98	63.9	24.4	50.8#

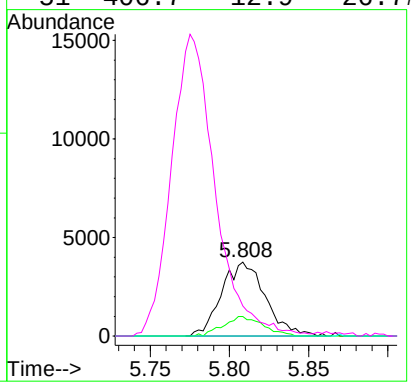


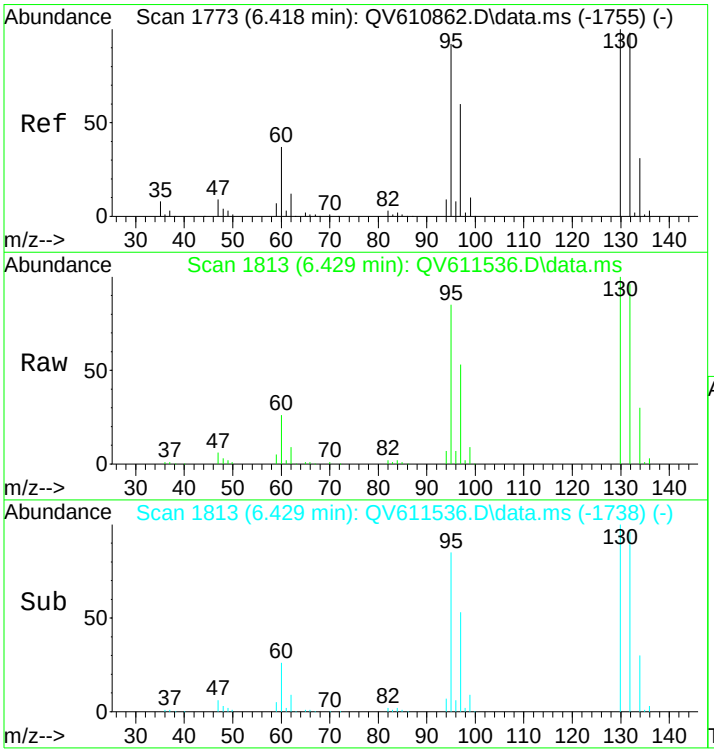


#38
Benzene
Concen: 0.12 ppb
RT: 5.808 min Scan# 1590
Delta R.T. 0.008 min
Lab File: QV611536.D
Acq: 10 Nov 2018 9:44 am

Tgt Ion: 78 Resp: 7242

Ion	Ratio	Lower	Upper
78	100		
77	24.1	15.7	32.5
62	0.0	22.9	47.5#
51	406.7	12.9	26.7#

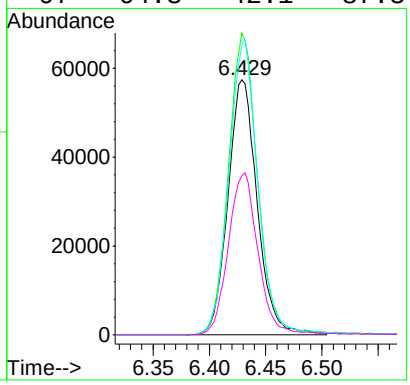


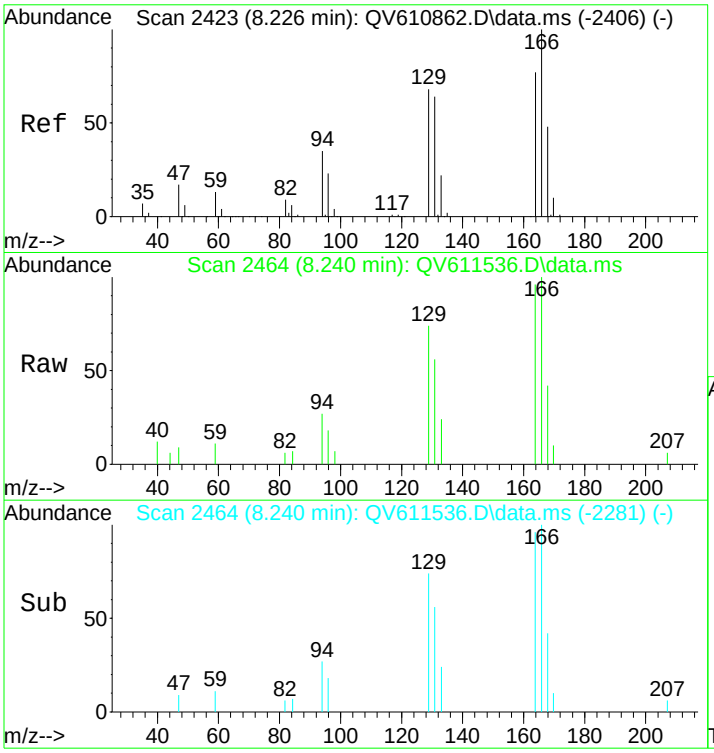


#41
Trichloroethylene
Concen: 5.96 ppb
RT: 6.429 min Scan# 1813
Delta R.T. 0.009 min
Lab File: QV611536.D
Acq: 10 Nov 2018 9:44 am

Tgt Ion: 95 Resp: 104025

Ion	Ratio	Lower	Upper
95	100		
130	117.0	70.0	145.4
132	114.3	69.6	144.6
97	64.3	42.1	87.3

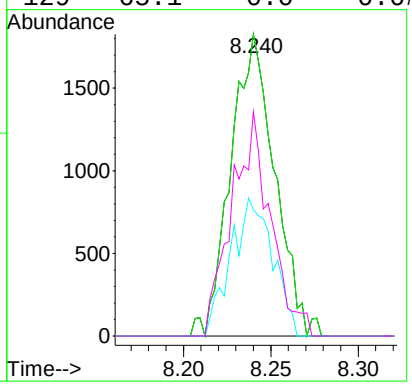




#56
Tetrachloroethylene
Concen: 0.14 ppb
RT: 8.240 min Scan# 2464
Delta R.T. 0.008 min
Lab File: QV611536.D
Acq: 10 Nov 2018 9:44 am

Tgt Ion:166 Resp: 3208

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	43.5	31.7	65.7
129	65.1	0.0	0.0#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-05 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-03 File ID: QV611537.D

Sampled: 11/01/18 11:00 Prepared: 11/10/18 03:58 Analyzed: 11/10/18 10:10

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK80517 Sequence: Y8K1229 Calibration: YK80009 Instrument: QVOA6

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	0.41	J
75-35-4	1,1-Dichloroethylene	1	0.46	J
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
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	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	1.1	
156-59-2	cis-1,2-Dichloroethylene	1	26	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-05 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-03	File ID:	QV611537.D
Sampled:	11/01/18 11:00	Prepared:	11/10/18 03:58	Analyzed:	11/10/18 10:10
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
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
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	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	0.47	J
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	70	
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.30	J
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	8.08	80.8	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	12.0	120	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	138715	6.076	156683	6.075	
ISTD: Chlorobenzene-d5	539696	9.119	650936	9.116	
ISTD: 1,2-Dichlorobenzene-d4	65027	12.094	91802	12.093	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611537.D
Acq On : 10 Nov 2018 10:10 am
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-03
Misc : QBQV6110918B 8260 1X A
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Nov 12 14:30:56 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

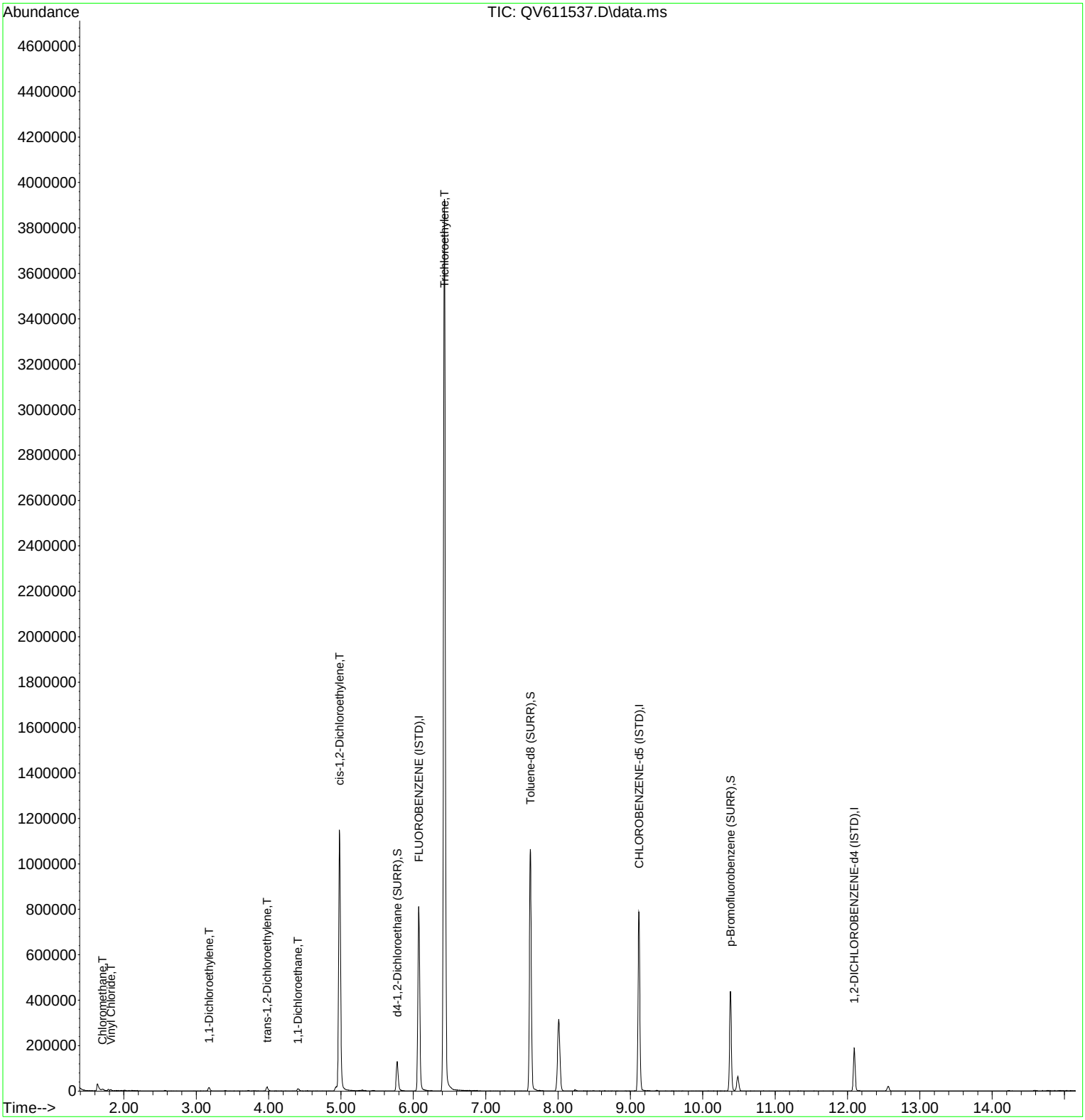
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.076	70	138715	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.119	117	539696	10.00	ppb	# 0.01
67) 1,2-DICHLOROBENZENE-d4...	12.094	152	65027	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.778	65	105616m	8.08	ppb	0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 80.80%			
51) Toluene-d8 (SURR)	7.617	98	806621	10.10	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 101.00%			
70) p-Bromofluorobenzene (...	10.382	95	154090	12.01	ppb	0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 120.10%			
Target Compounds						Qvalue
3) Chloromethane	1.705	50	6715	1.06	ppb	# 45
4) Vinyl Chloride	1.819	62	4257	0.30	ppb	# 43
10) 1,1-Dichloroethylene	3.174	61	8971	0.46	ppb	# 52
19) trans-1,2-Dichloroethy...	3.978	61	9205	0.47	ppb	# 88
21) 1,1-Dichloroethane	4.403	63	10427	0.41	ppb	98
25) cis-1,2-Dichloroethylene	4.979	61	584423	26.05	ppb	# 76
41) Trichloroethylene	6.429	95	1255680	69.58	ppb	93

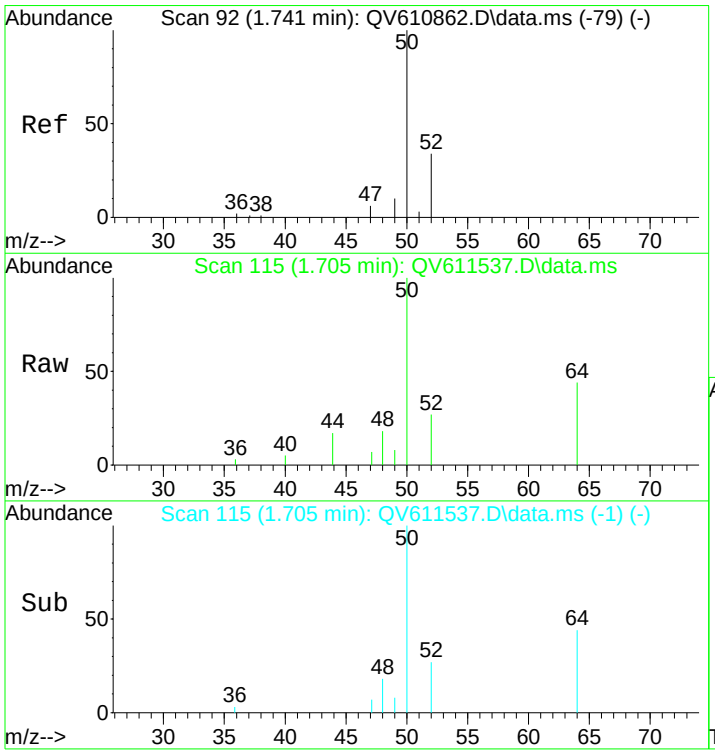
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611537.D
Acq On : 10 Nov 2018 10:10 am
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-03
Misc : QBQV6110918B 8260 1X A
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Nov 12 14:30:56 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

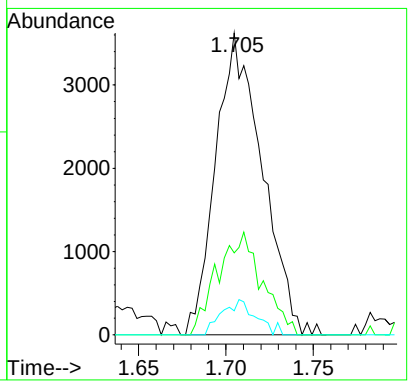


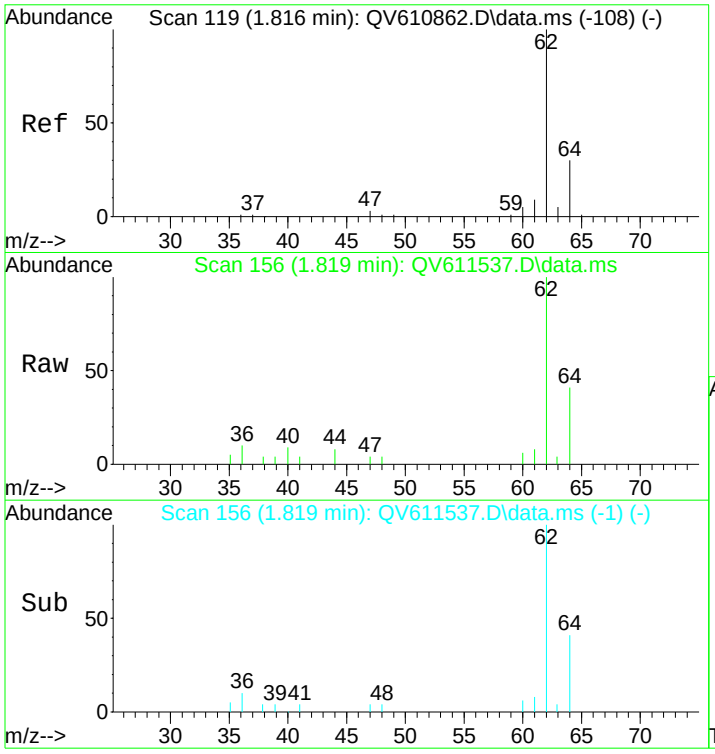


#3
Chloromethane
Concen: 1.06 ppb
RT: 1.705 min Scan# 115
Delta R.T. -0.033 min
Lab File: QV611537.D
Acq: 10 Nov 2018 10:10 am

Tgt Ion: 50 Resp: 6715

Ion	Ratio	Lower	Upper
50	100		
52	32.7	5.2	10.8#
49	8.5	2.0	4.2#

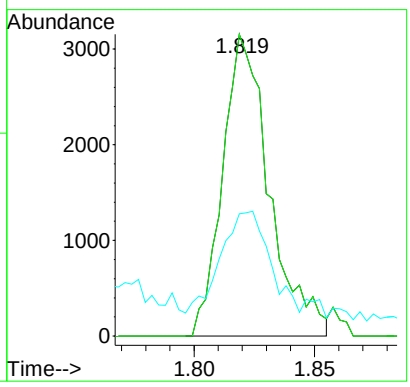


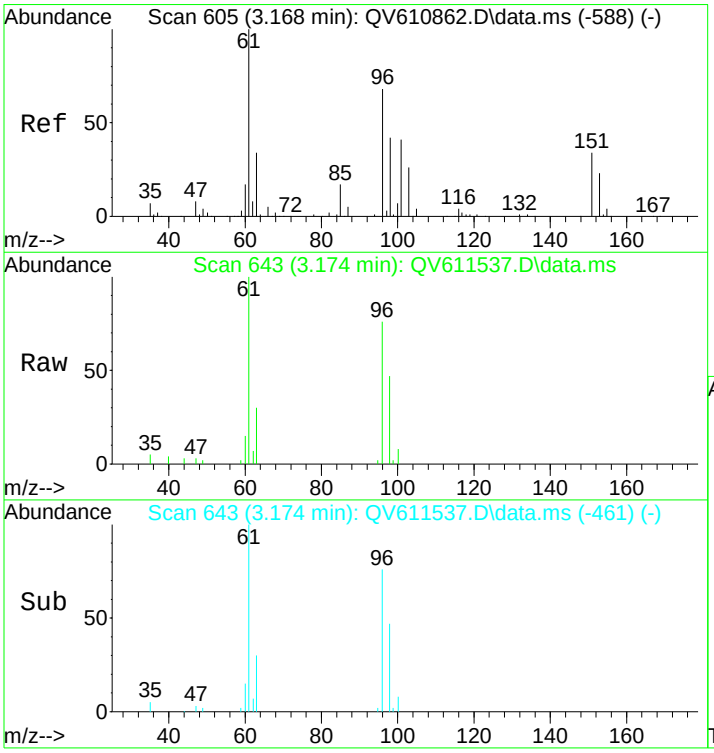


#4
Vinyl Chloride
Concen: 0.30 ppb
RT: 1.819 min Scan# 156
Delta R.T. 0.003 min
Lab File: QV611537.D
Acq: 10 Nov 2018 10:10 am

Tgt Ion: 62 Resp: 4257

Ion	Ratio	Lower	Upper
62	100		
62	100.0	36.0	74.8#
64	0.0	12.5	25.9#

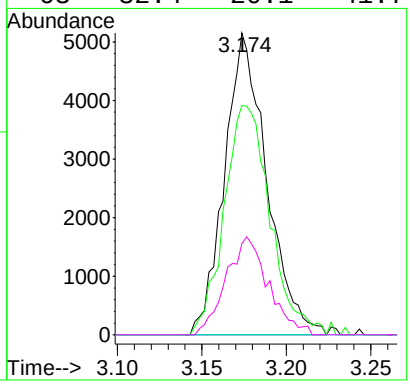


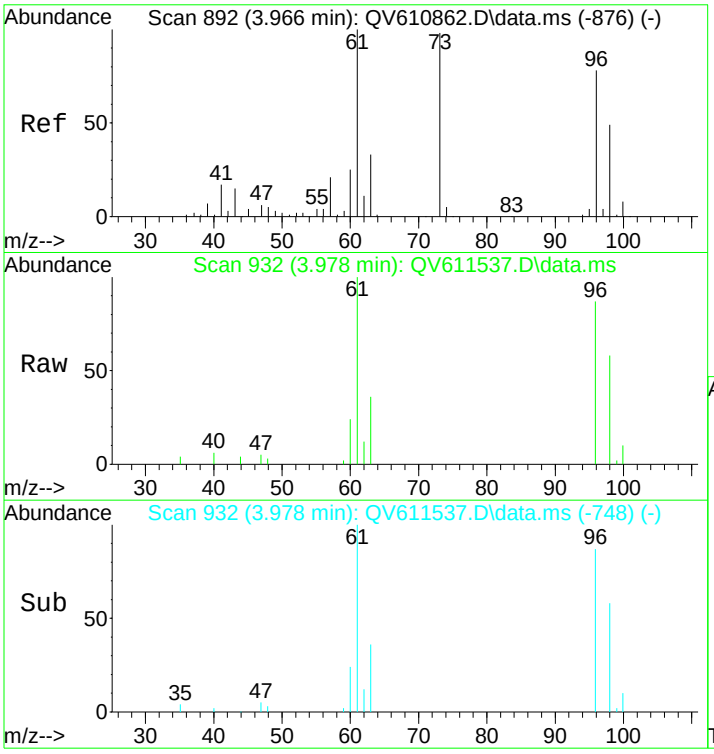


#10
1,1-Dichloroethylene
Concen: 0.46 ppb
RT: 3.174 min Scan# 643
Delta R.T. 0.006 min
Lab File: QV611537.D
Acq: 10 Nov 2018 10:10 am

Tgt Ion: 61 Resp: 8971

Ion	Ratio	Lower	Upper
61	100		
96	82.3	33.6	69.8#
101	0.0	37.0	77.0#
63	32.4	20.1	41.7

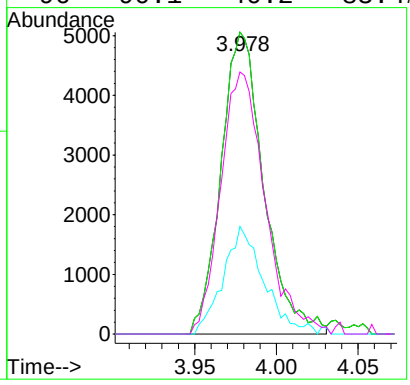


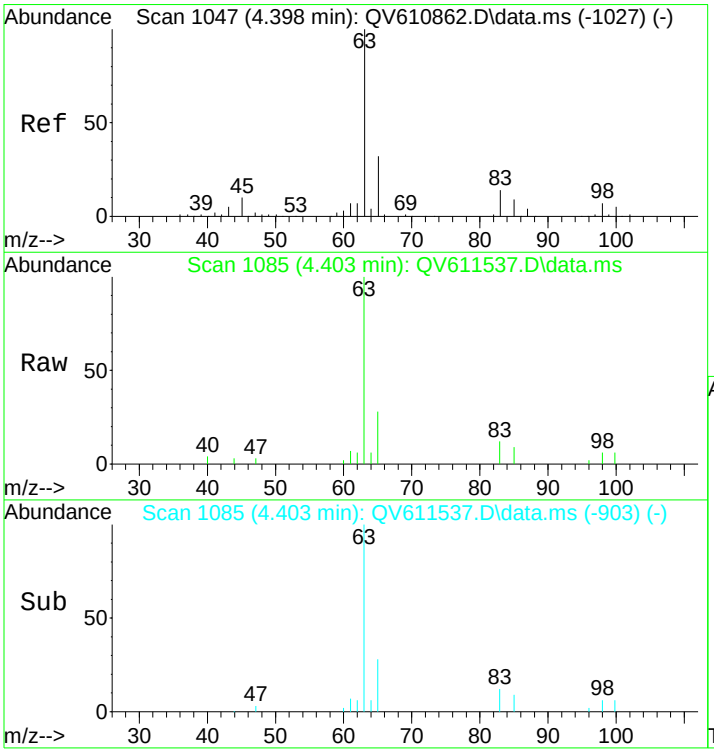


#19
trans-1,2-Dichloroethylene
Concen: 0.47 ppb
RT: 3.978 min Scan# 932
Delta R.T. 0.011 min
Lab File: QV611537.D
Acq: 10 Nov 2018 10:10 am

Tgt Ion: 61 Resp: 9205

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	33.9	20.9	43.3
96	90.1	40.2	83.4#

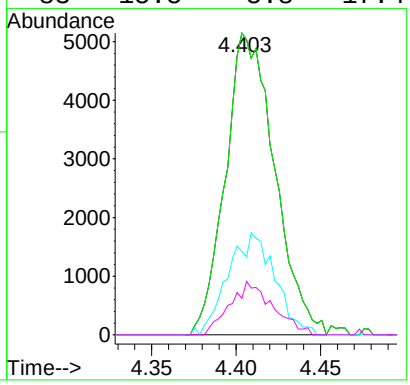


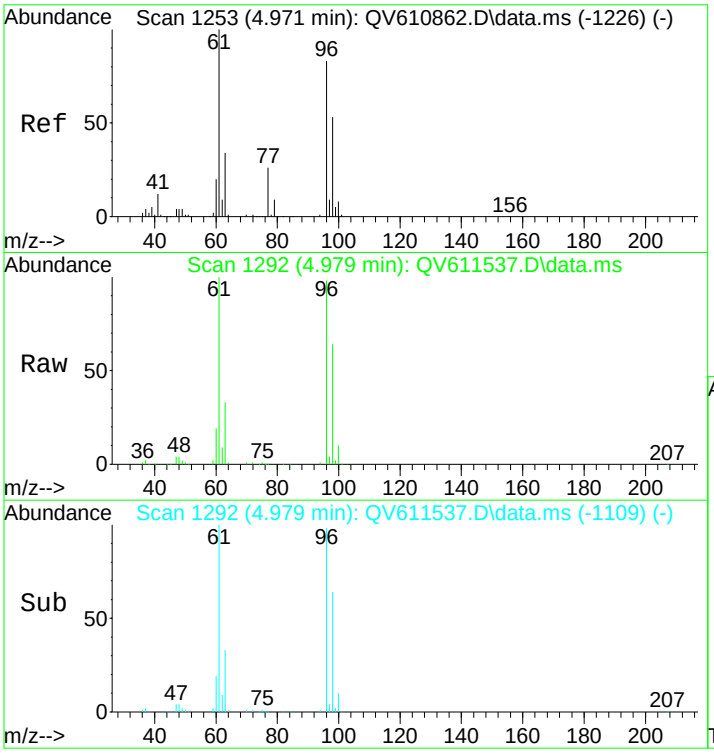


#21
1,1-Dichloroethane
Concen: 0.41 ppb
RT: 4.403 min Scan# 1085
Delta R.T. 0.006 min
Lab File: QV611537.D
Acq: 10 Nov 2018 10:10 am

Tgt Ion: 63 Resp: 10427

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	32.3	19.4	40.2
83	15.5	5.8	17.4

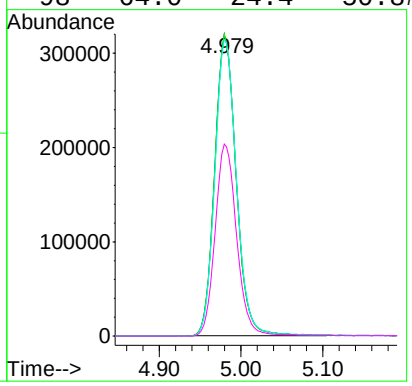


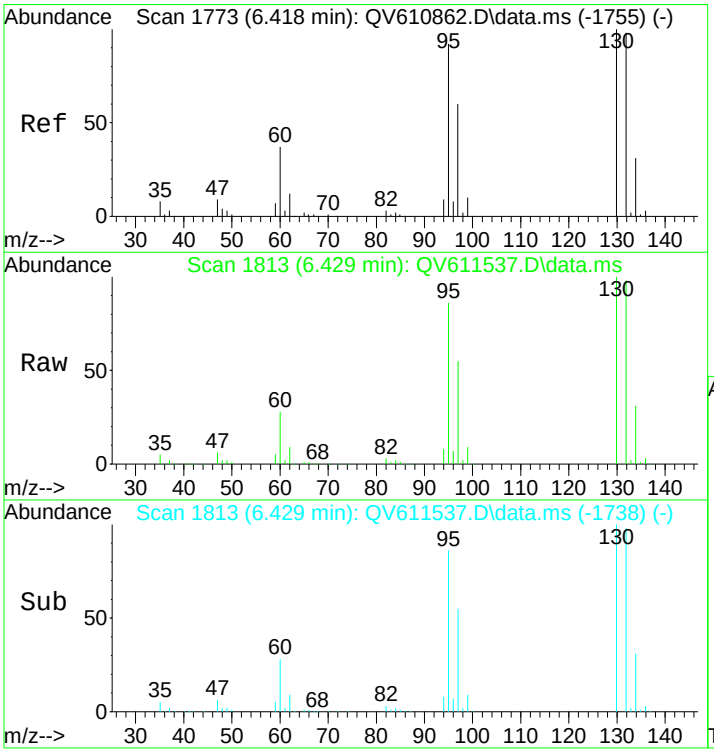


#25
cis-1,2-Dichloroethylene
Concen: 26.05 ppb
RT: 4.979 min Scan# 1292
Delta R.T. 0.008 min
Lab File: QV611537.D
Acq: 10 Nov 2018 10:10 am

Tgt Ion: 61 Resp: 584423

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	99.3	39.2	81.4#
98	64.0	24.4	50.8#

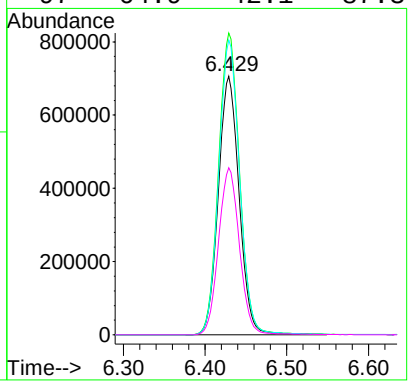




#41
Trichloroethylene
Concen: 69.58 ppb
RT: 6.429 min Scan# 1813
Delta R.T. 0.009 min
Lab File: QV611537.D
Acq: 10 Nov 2018 10:10 am

Tgt Ion: 95 Resp: 1255680

Ion	Ratio	Lower	Upper
95	100		
130	118.0	70.0	145.4
132	114.4	69.6	144.6
97	64.9	42.1	87.3



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-FD-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-04	File ID:	QV611538.D
Sampled:	11/01/18 11:00	Prepared:	11/10/18 03:58	Analyzed:	11/10/18 10:37
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009
Instrument:	QVOA6				

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	5.7	
75-35-4	1,1-Dichloroethylene	1	18	
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
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.28	J
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	0.37	J
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
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-FD-01 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-04 File ID: QV611538.D

Sampled: 11/01/18 11:00 Prepared: 11/10/18 03:58 Analyzed: 11/10/18 10:37

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK80517 Sequence: Y8K1229 Calibration: YK80009 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
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
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.34	J
108-88-3	Toluene	1	0.44	J
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
75-69-4	Trichlorofluoromethane	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
SURR: 1,2-Dichloroethane-d4	10.0	6.38	63.8	69 - 130	*
SURR: Toluene-d8	10.0	11.1	111	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.2	112	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	160402	6.081	156683	6.075	
ISTD: Chlorobenzene-d5	552809	9.119	650936	9.116	
ISTD: 1,2-Dichlorobenzene-d4	62509	12.094	91802	12.093	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611538.D
Acq On : 10 Nov 2018 10:37 am
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-04
Misc : QBQV6110918B 8260 1X A
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 12 14:32:55 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

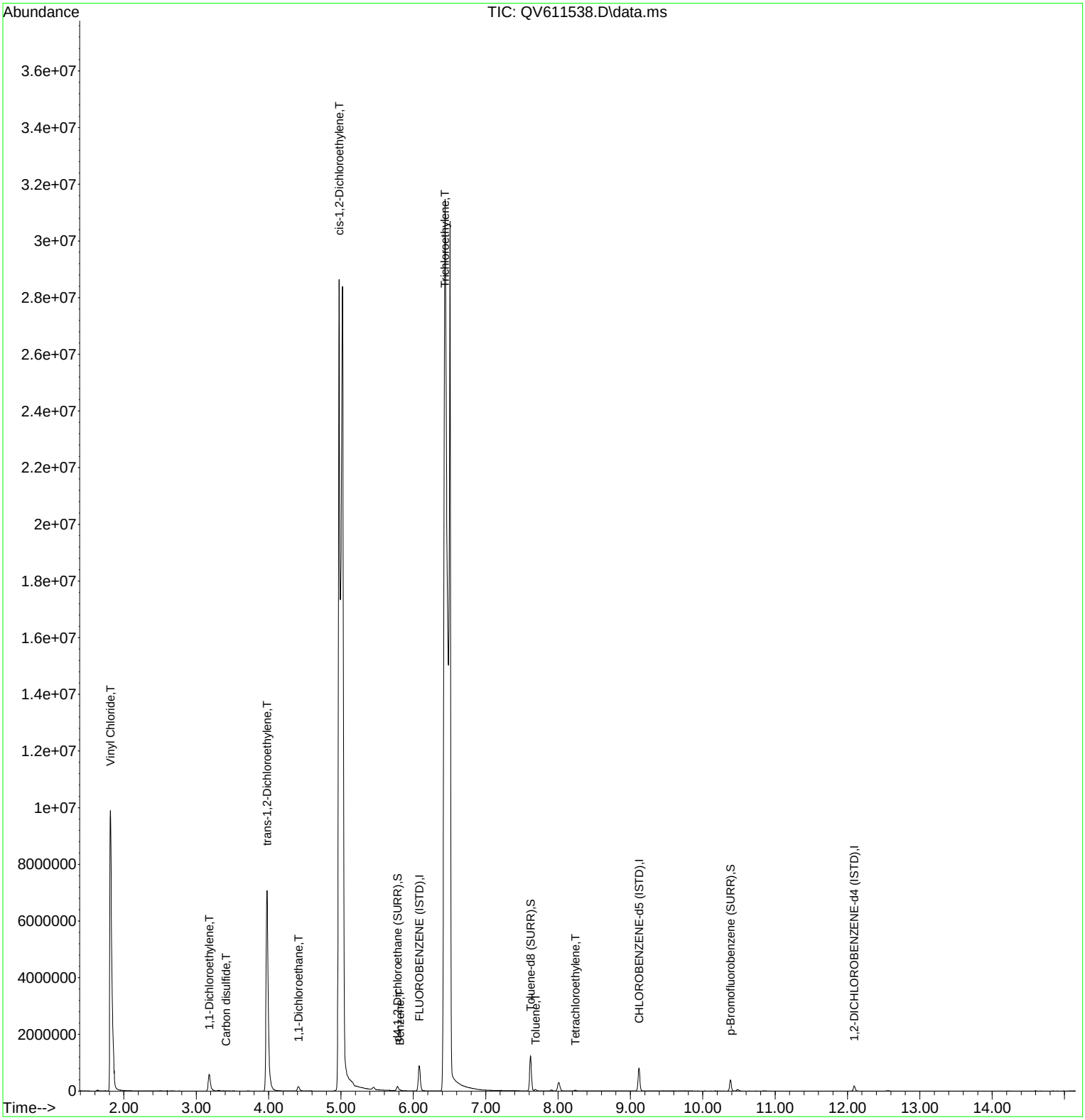
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.081	70	160402	10.00	ppb	#	0.01
40) CHLOROBENZENE-d5 (ISTD)	9.119	117	552809	10.00	ppb	#	0.01
67) 1,2-DICHLOROBENZENE-d4...	12.094	152	62509	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.781	65	96548	6.38	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 63.80%#				
51) Toluene-d8 (SURR)	7.620	98	908984	11.11	ppb		0.01
Spiked Amount 10.000	Range 81 - 117		Recovery = 111.10%				
70) p-Bromofluorobenzene (...	10.382	95	137543	11.15	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 111.50%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.813	62	11458615	702.02	ppb	#	46
10) 1,1-Dichloroethylene	3.179	61	413389	18.39	ppb	#	52
15) Carbon disulfide	3.410	76	14516	0.37	ppb		100
19) trans-1,2-Dichloroethy...	3.978	61	4104910	181.15	ppb	#	87
21) 1,1-Dichloroethane	4.412	63	168448	5.67	ppb		98
25) cis-1,2-Dichloroethylene	4.974	61	29828941m	1149.64	ppb		
38) Benzene	5.814	78	20398	0.28	ppb	#	1
41) Trichloroethylene	6.437	95	24055049m	1301.29	ppb		
52) Toluene	7.689	91	34958	0.44	ppb		99
56) Tetrachloroethylene	8.240	166	8272	0.34	ppb	#	100

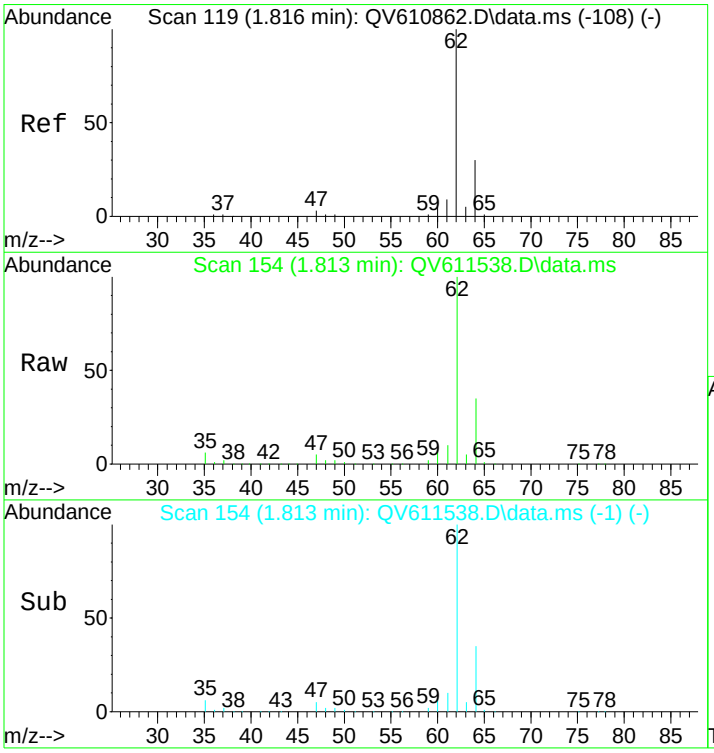
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611538.D
Acq On : 10 Nov 2018 10:37 am
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-04
Misc : QBQV6110918B 8260 1X A
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 12 14:32:55 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

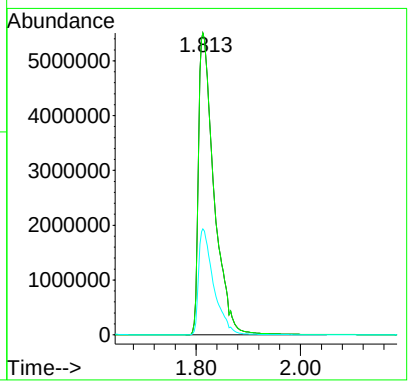


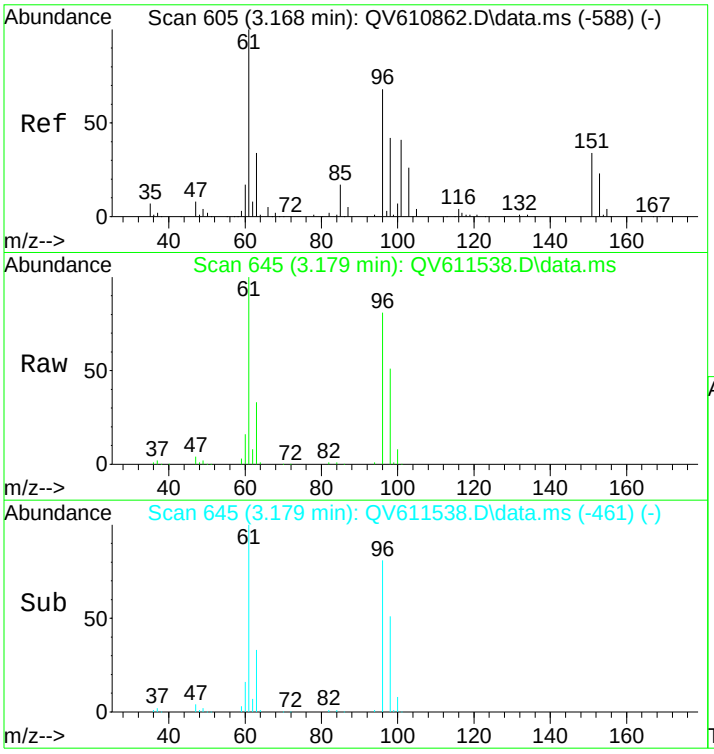


#4
Vinyl Chloride
Concen: 702.02 ppb
RT: 1.813 min Scan# 154
Delta R.T. -0.003 min
Lab File: QV611538.D
Acq: 10 Nov 2018 10:37 am

Tgt Ion: 62 Resp:11458615

Ion	Ratio	Lower	Upper
62	100		
62	100.0	36.0	74.8#
64	34.1	12.5	25.9#

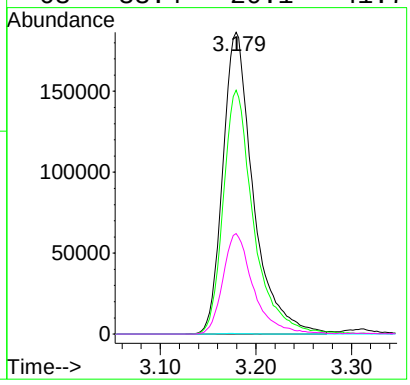


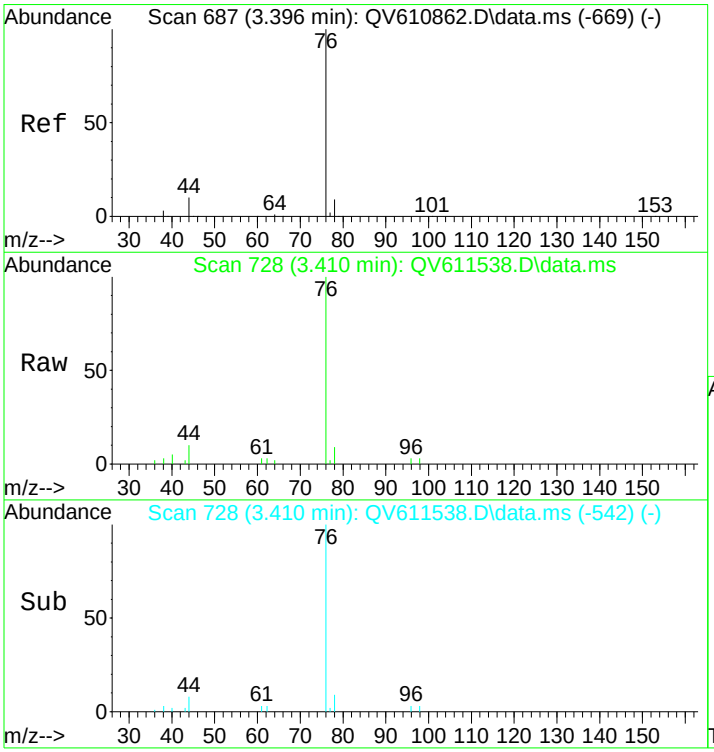


#10
1,1-Dichloroethylene
Concen: 18.39 ppb
RT: 3.179 min Scan# 645
Delta R.T. 0.011 min
Lab File: QV611538.D
Acq: 10 Nov 2018 10:37 am

Tgt Ion: 61 Resp: 413389

Ion	Ratio	Lower	Upper
61	100		
96	80.3	33.6	69.8#
101	0.2	37.0	77.0#
63	33.4	20.1	41.7

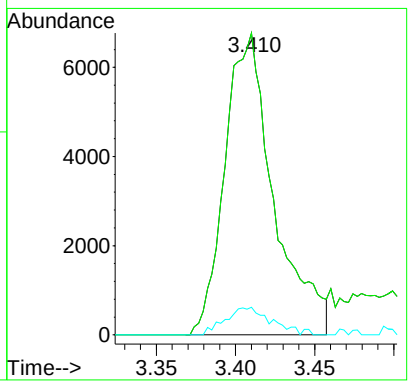


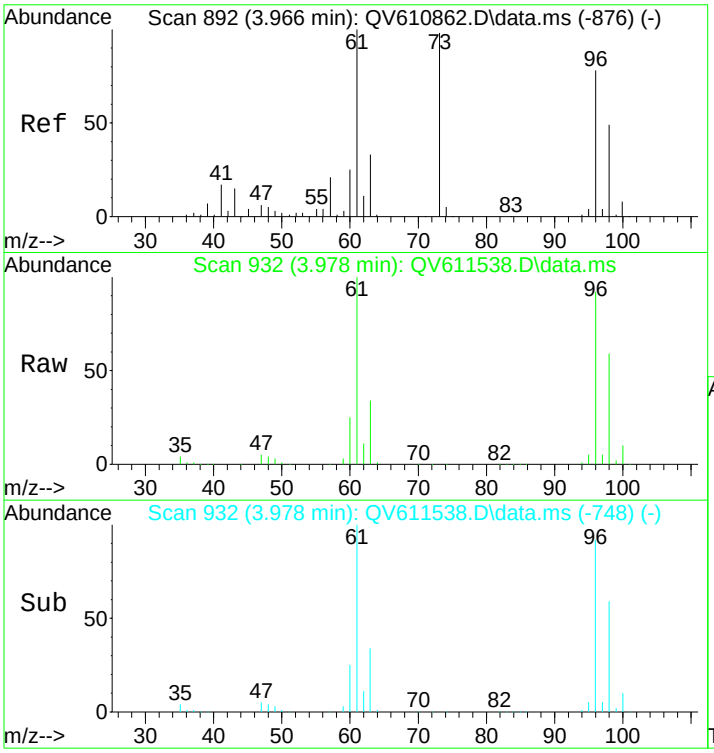


#15
Carbon disulfide
Concen: 0.37 ppb
RT: 3.410 min Scan# 728
Delta R.T. 0.017 min
Lab File: QV611538.D
Acq: 10 Nov 2018 10:37 am

Tgt Ion: 76 Resp: 14516

Ion	Ratio	Lower	Upper
76	100		
76	100.0	65.0	135.0
78	8.4	4.5	13.4

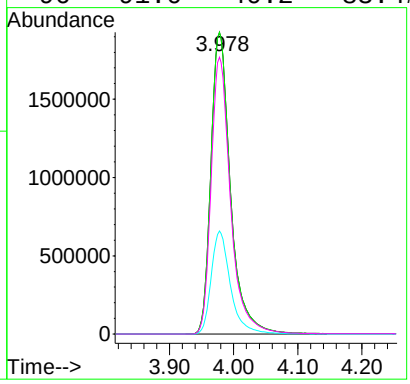


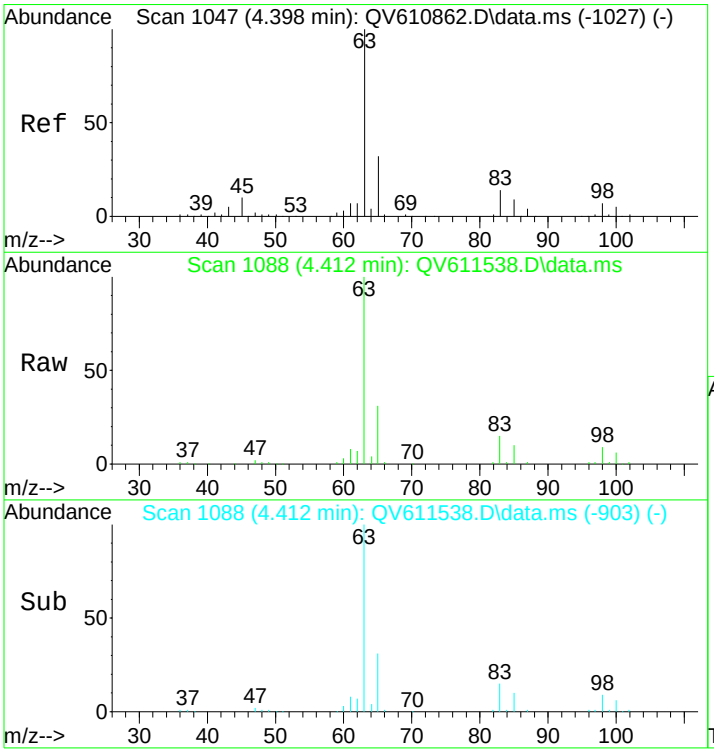


#19
trans-1,2-Dichloroethylene
Concen: 181.15 ppb
RT: 3.978 min Scan# 932
Delta R.T. 0.011 min
Lab File: QV611538.D
Acq: 10 Nov 2018 10:37 am

Tgt Ion: 61 Resp: 4104910

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	33.6	20.9	43.3
96	91.0	40.2	83.4#

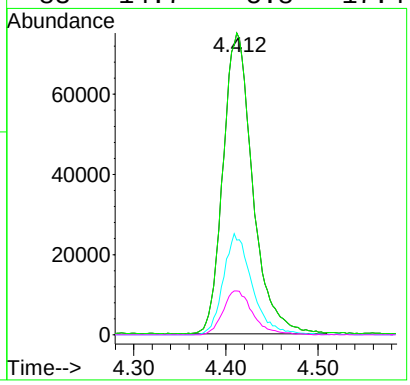


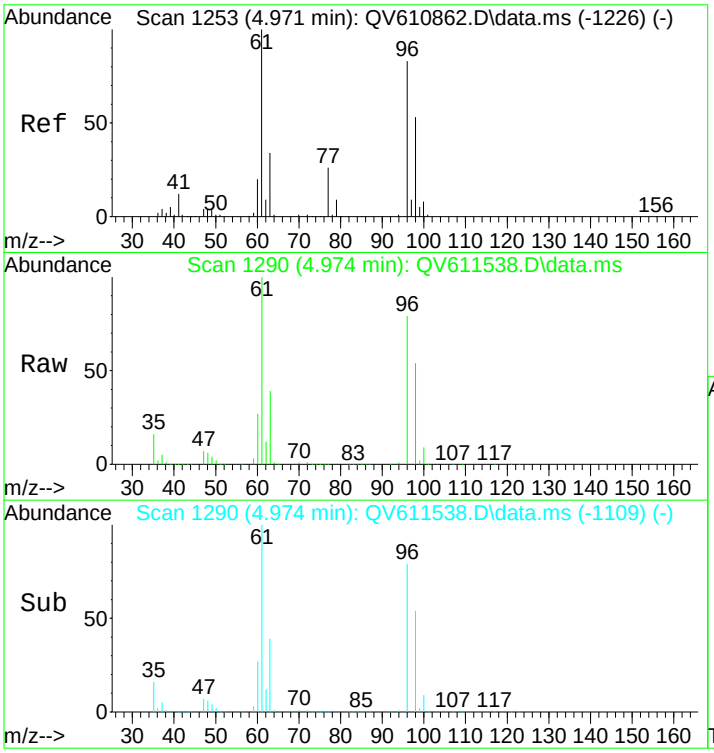


#21
1,1-Dichloroethane
Concen: 5.67 ppb
RT: 4.412 min Scan# 1088
Delta R.T. 0.014 min
Lab File: QV611538.D
Acq: 10 Nov 2018 10:37 am

Tgt Ion: 63 Resp: 168448

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	32.5	19.4	40.2
83	14.7	5.8	17.4

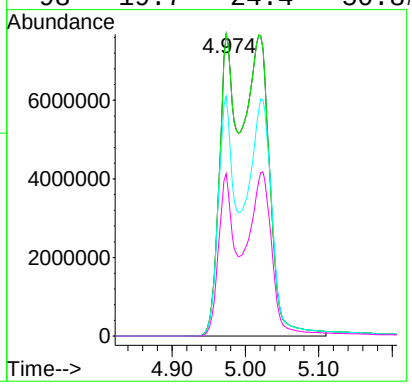


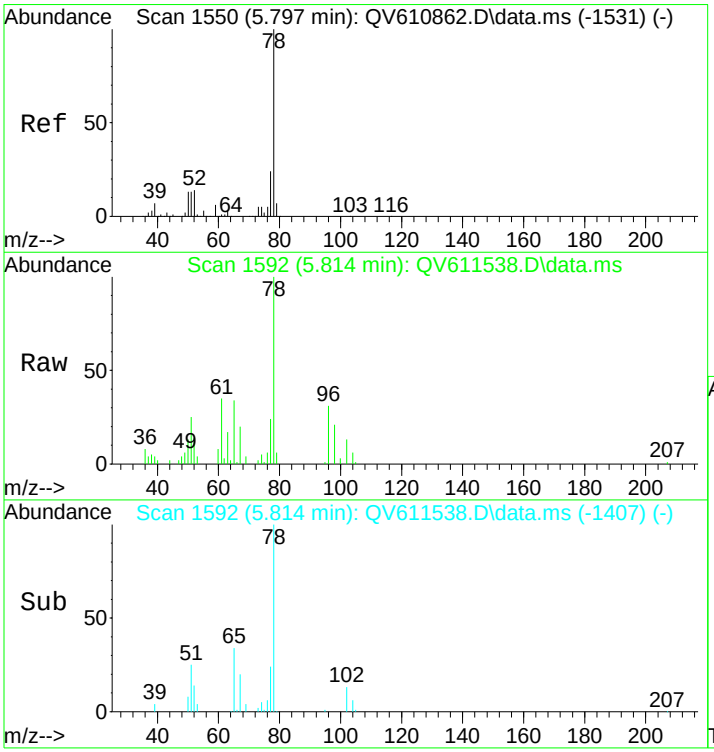


#25
cis-1,2-Dichloroethylene
Concen: 1149.64 ppb m
RT: 4.974 min Scan# 1290
Delta R.T. 0.003 min
Lab File: QV611538.D
Acq: 10 Nov 2018 10:37 am

Tgt Ion: 61 Resp:29828941

Ion	Ratio	Lower	Upper
61	100		
61	39.0	65.0	135.0#
96	30.1	39.2	81.4#
98	19.7	24.4	50.8#

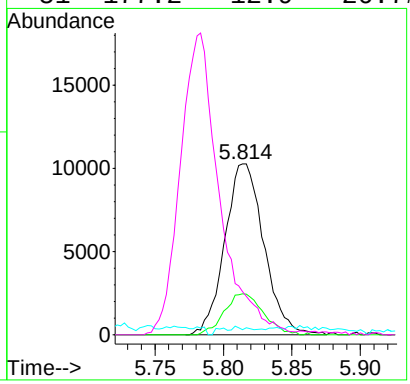


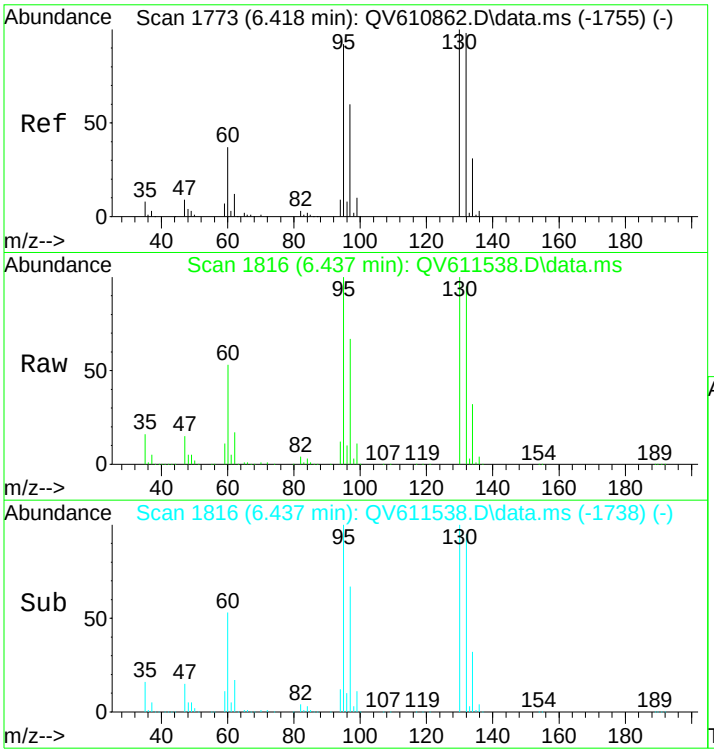


#38
Benzene
Concen: 0.28 ppb
RT: 5.814 min Scan# 1592
Delta R.T. 0.014 min
Lab File: QV611538.D
Acq: 10 Nov 2018 10:37 am

Tgt Ion: 78 Resp: 20398

Ion	Ratio	Lower	Upper
78	100		
77	24.0	15.7	32.5
62	0.0	22.9	47.5#
51	177.2	12.9	26.7#

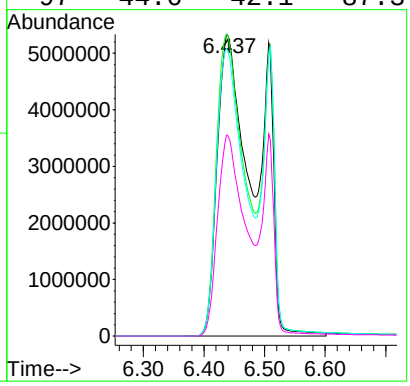


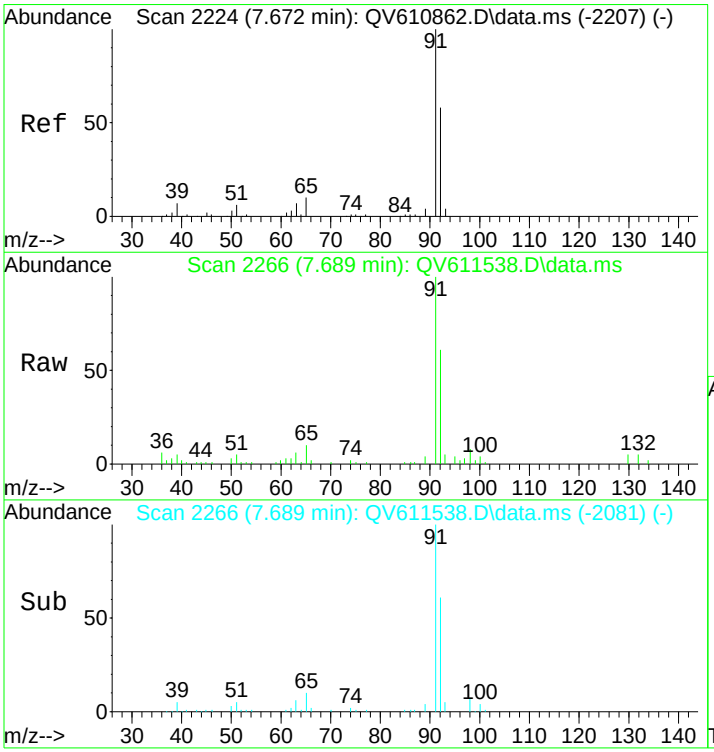


#41
Trichloroethylene
Concen: 1301.29 ppb m
RT: 6.437 min Scan# 1816
Delta R.T. 0.017 min
Lab File: QV611538.D
Acq: 10 Nov 2018 10:37 am

Tgt Ion: 95 Resp:24055049

Ion	Ratio	Lower	Upper
95	100		
130	67.9	70.0	145.4#
132	64.5	69.6	144.6#
97	44.6	42.1	87.3

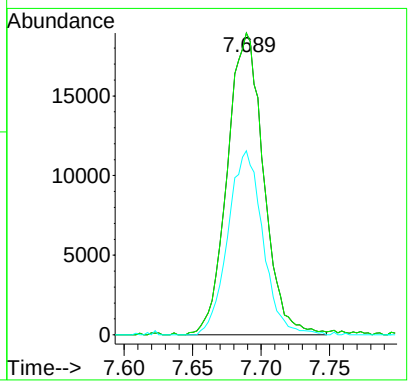


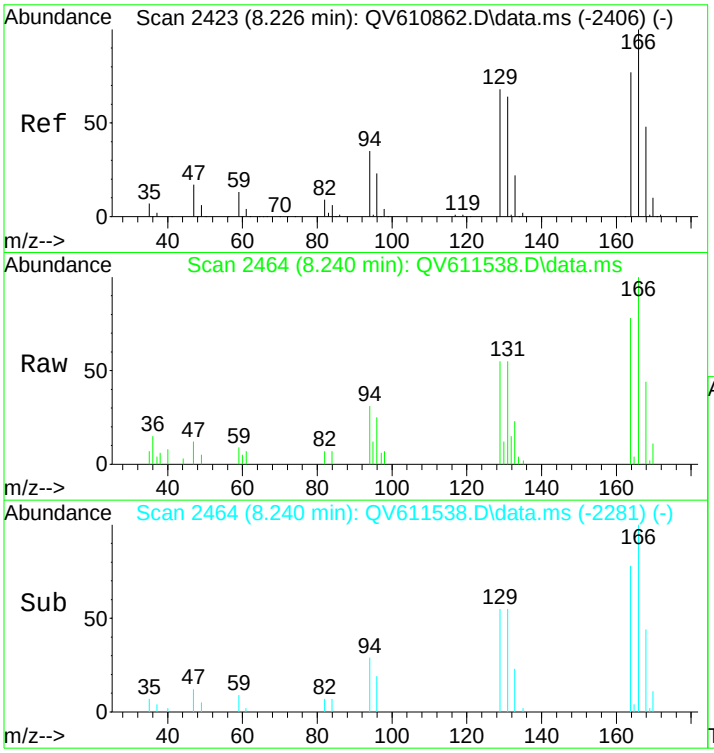


#52
Toluene
Concen: 0.44 ppb
RT: 7.689 min Scan# 2266
Delta R.T. 0.014 min
Lab File: QV611538.D
Acq: 10 Nov 2018 10:37 am

Tgt Ion: 91 Resp: 34958

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	58.6	37.2	77.4

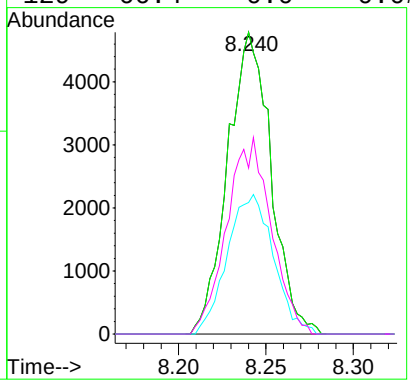




#56
Tetrachloroethylene
Concen: 0.34 ppb
RT: 8.240 min Scan# 2464
Delta R.T. 0.008 min
Lab File: QV611538.D
Acq: 10 Nov 2018 10:37 am

Tgt Ion:166 Resp: 8272

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	49.3	31.7	65.7
129	66.4	0.0	0.0#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-FD-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-04RE1	File ID:	QV611607.D
Sampled:	11/01/18 11:00	Prepared:	11/13/18 11:40	Analyzed:	11/13/18 18:35
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80632	Sequence:	Y8K1410	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-60-5	trans-1,2-Dichloroethylene	20	300	D
75-01-4	Vinyl Chloride	20	1500	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	12.5	125	69 - 130	
SURR: Toluene-d8	10.0	9.51	95.1	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.3	103	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	124114	6.078	202485	6.076	
ISTD: Chlorobenzene-d5	465560	9.119	831471	9.117	
ISTD: 1,2-Dichlorobenzene-d4	70861	12.099	142351	12.091	*

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611607.D
Acq On : 13 Nov 2018 6:35 pm
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-04RE1
Misc : QBQV6111318A 8260 20X 2.5ML/50ML C
ALS Vial : 15 Sample Multiplier: 20

Quant Time: Nov 14 13:15:39 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

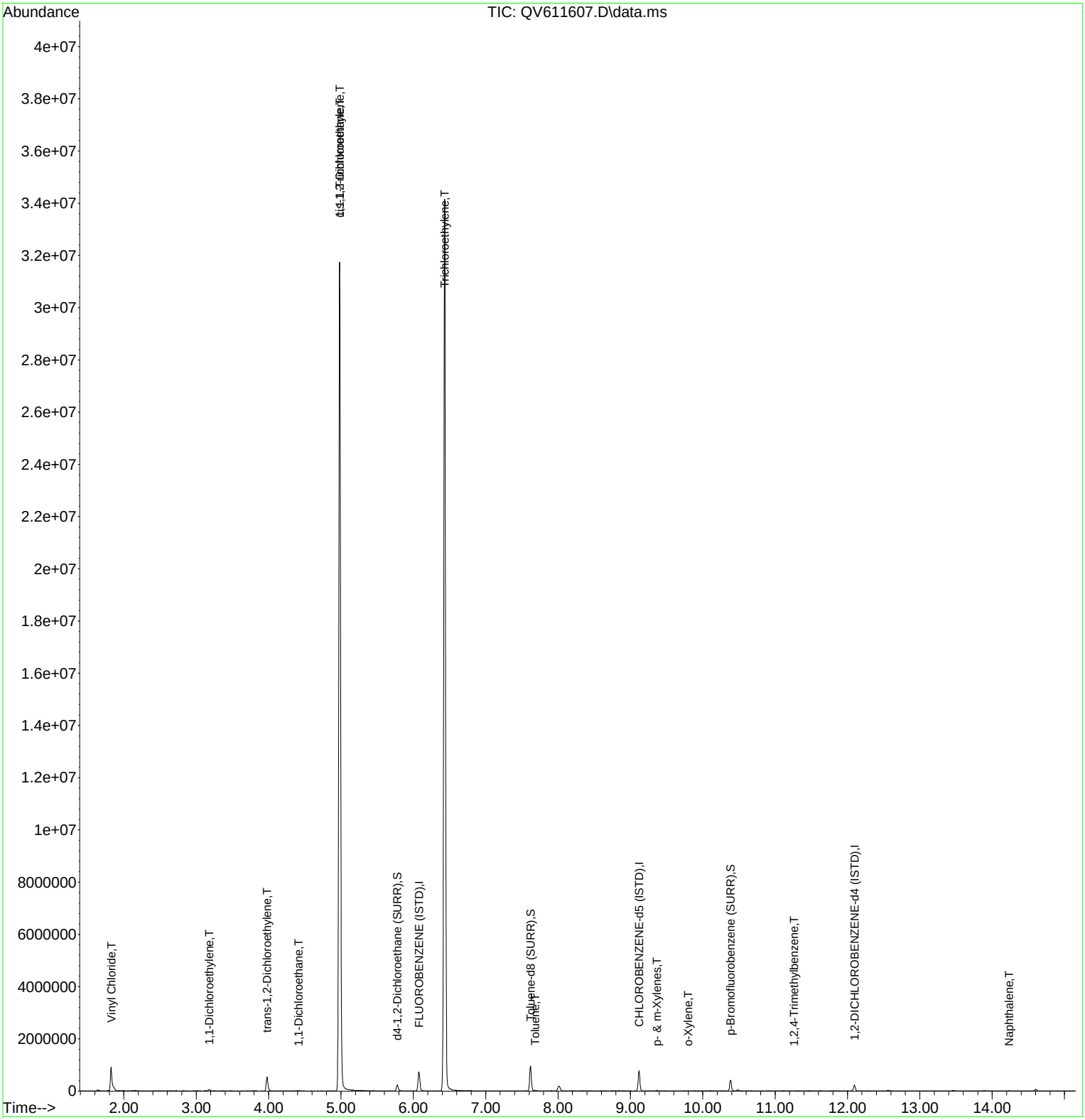
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.078	70	124114	10.00	ppb	#	0.01
40) CHLOROBENZENE-d5 (ISTD)	9.119	117	465560	10.00	ppb	#	0.01
67) 1,2-DICHLOROBENZENE-d4...	12.099	152	70861	10.00	ppb		0.01
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.778	65	145873	12.47	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 124.70%				
51) Toluene-d8 (SURR)	7.620	98	655453	9.51	ppb		0.01
Spiked Amount 10.000	Range 81 - 117		Recovery = 95.10%				
70) p-Bromofluorobenzene (...	10.382	95	144582	10.34	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 103.40%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.824	62	969212	76.74	ppb	#	47
10) 1,1-Dichloroethylene	3.179	61	33347	1.92	ppb	#	59
19) trans-1,2-Dichloroethy...	3.978	61	265604	15.15	ppb		91
21) 1,1-Dichloroethane	4.412	63	13194	0.57	ppb	#	88
25) cis-1,2-Dichloroethylene	4.982	61	14815384	737.95	ppb	#	80
31) 1,1,1-Trichloroethane	4.982	97	545636	26.77	ppb	#	57
41) Trichloroethylene	6.432	95	10227588	656.96	ppb		97
52) Toluene	7.684	91	22878	0.34	ppb		99
63) p- & m-Xylenes	9.364	91	13413	0.30	ppb	#	97
64) o-Xylene	9.798	91	4948	0.11	ppb		99
80) 1,2,4-Trimethylbenzene	11.259	105	3708	0.14	ppb	#	46
93) Naphthalene	14.230	128	5855	0.70	ppb	#	82

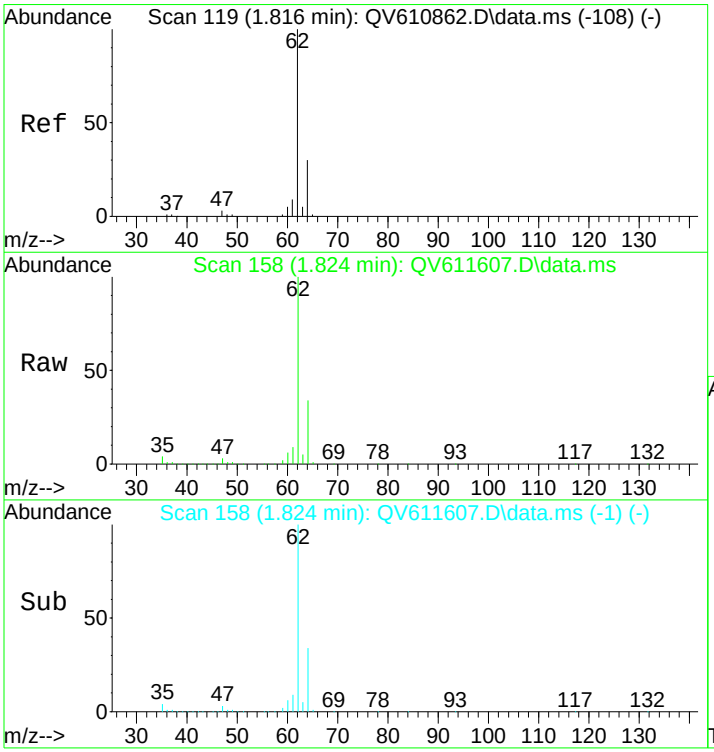
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611607.D
Acq On : 13 Nov 2018 6:35 pm
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-04RE1
Misc : QBQV6111318A 8260 20X 2.5ML/50ML C
ALS Vial : 15 Sample Multiplier: 20

Quant Time: Nov 14 13:15:39 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

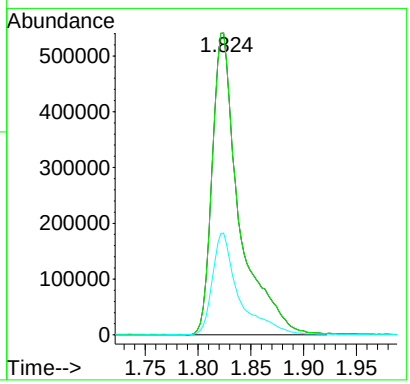


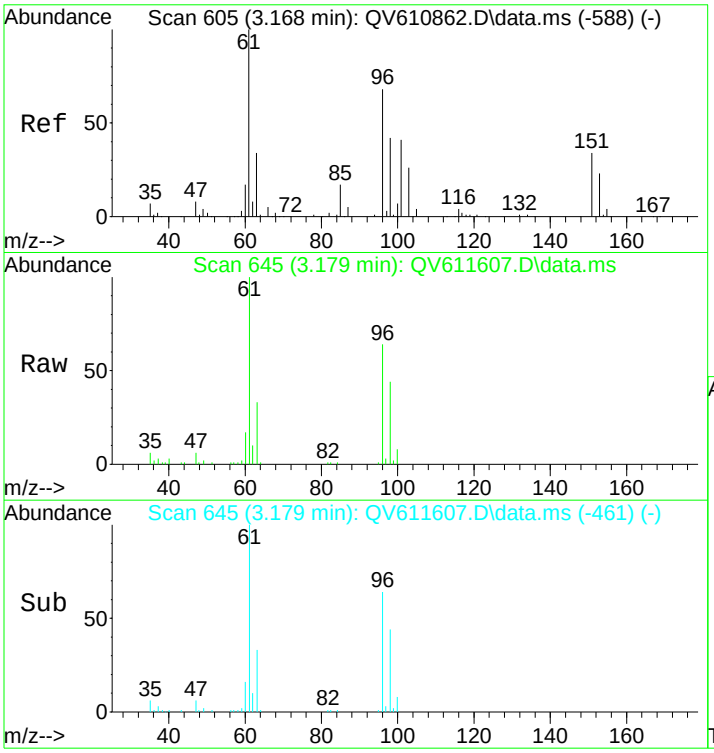


#4
Vinyl Chloride
Concen: 76.74 ppb
RT: 1.824 min Scan# 158
Delta R.T. 0.008 min
Lab File: QV611607.D
Acq: 13 Nov 2018 6:35 pm

Tgt Ion: 62 Resp: 969212

Ion	Ratio	Lower	Upper
62	100		
62	100.0	36.0	74.8#
64	32.7	12.5	25.9#

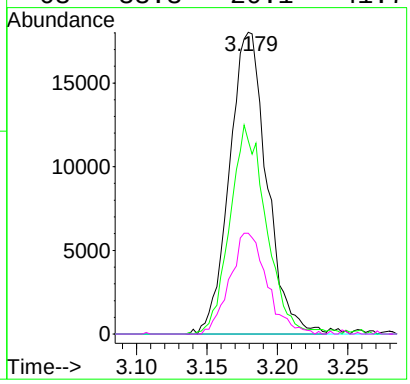


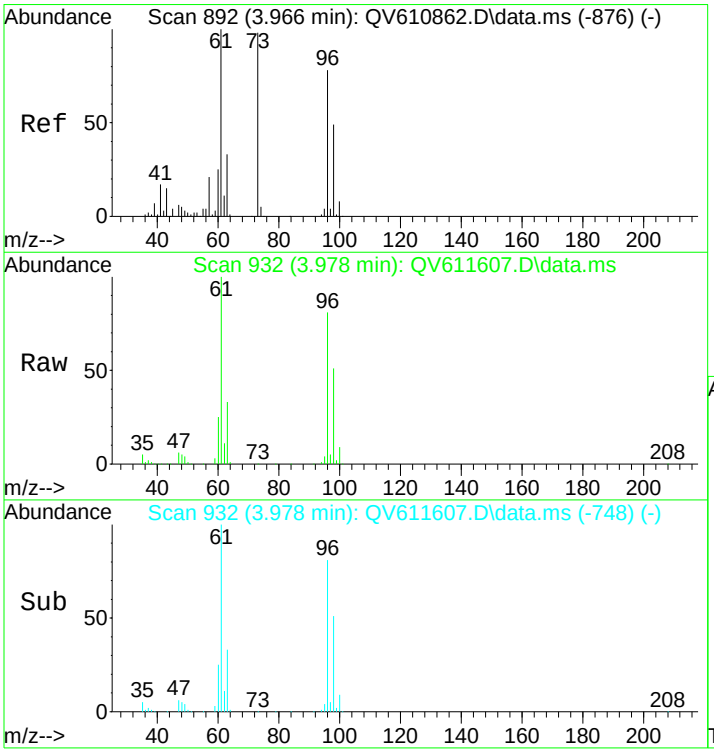


#10
1,1-Dichloroethylene
Concen: 1.92 ppb
RT: 3.179 min Scan# 645
Delta R.T. 0.011 min
Lab File: QV611607.D
Acq: 13 Nov 2018 6:35 pm

Tgt Ion: 61 Resp: 33347

Ion	Ratio	Lower	Upper
61	100		
96	66.8	33.6	69.8
101	0.0	37.0	77.0#
63	33.3	20.1	41.7

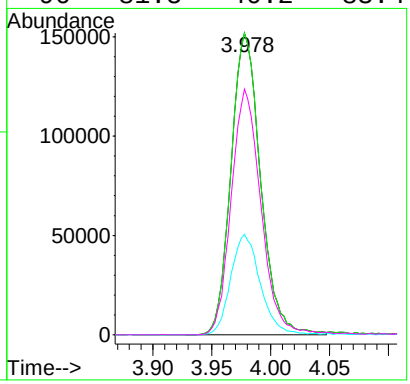


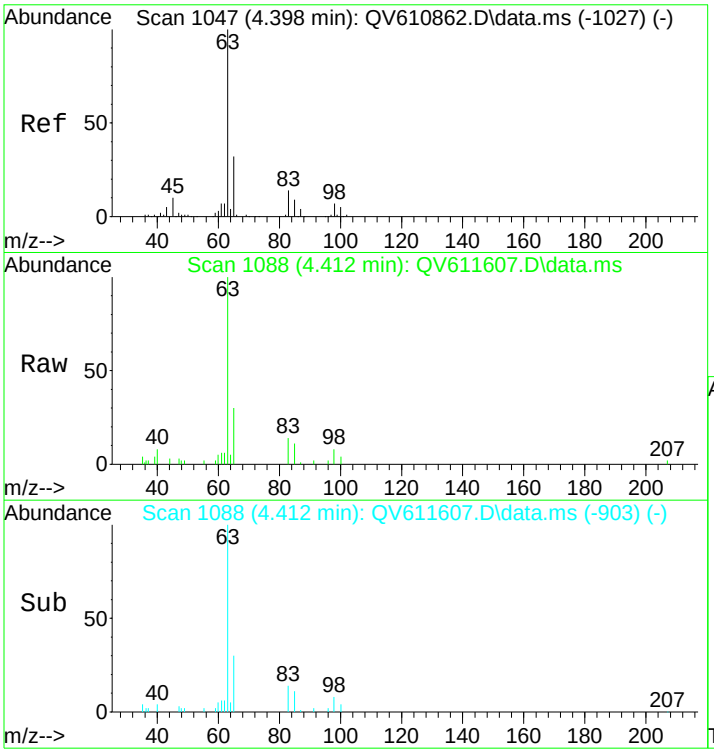


#19
trans-1,2-Dichloroethylene
Concen: 15.15 ppb
RT: 3.978 min Scan# 932
Delta R.T. 0.011 min
Lab File: QV611607.D
Acq: 13 Nov 2018 6:35 pm

Tgt Ion: 61 Resp: 265604

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	33.5	20.9	43.3
96	81.5	40.2	83.4

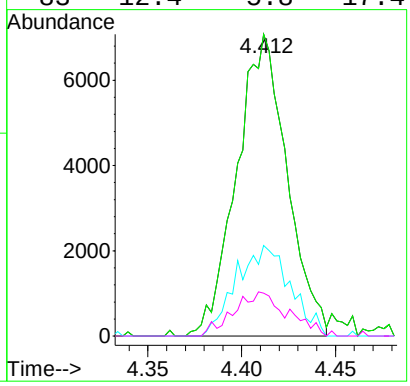


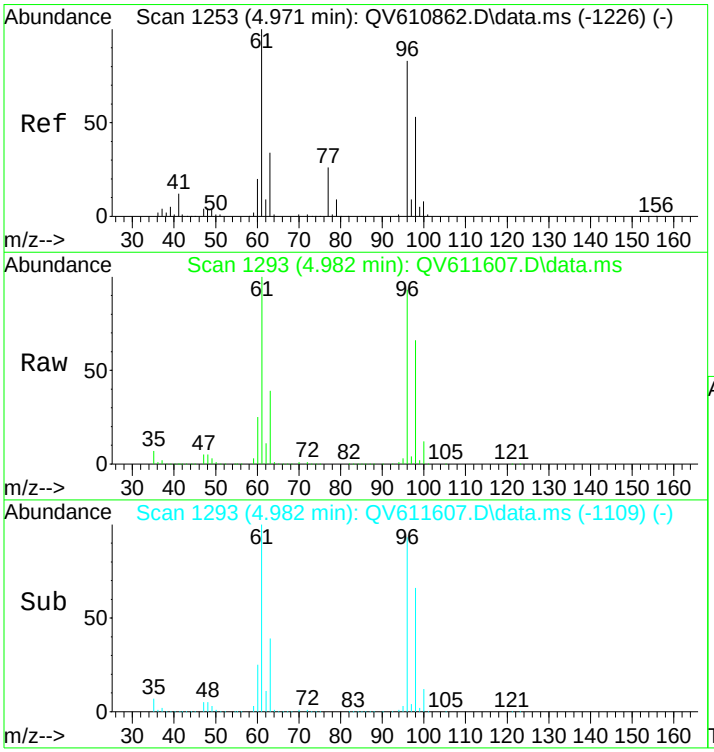


#21
1,1-Dichloroethane
Concen: 0.57 ppb
RT: 4.412 min Scan# 1088
Delta R.T. 0.014 min
Lab File: QV611607.D
Acq: 13 Nov 2018 6:35 pm

Tgt Ion: 63 Resp: 13194

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	0.0	19.4	40.2#
83	12.4	5.8	17.4

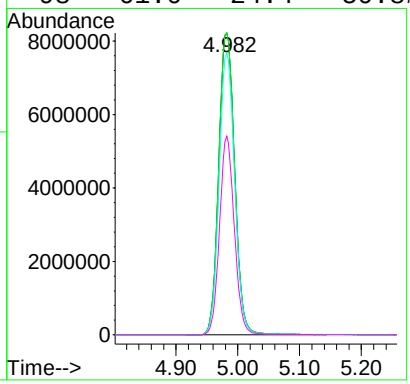


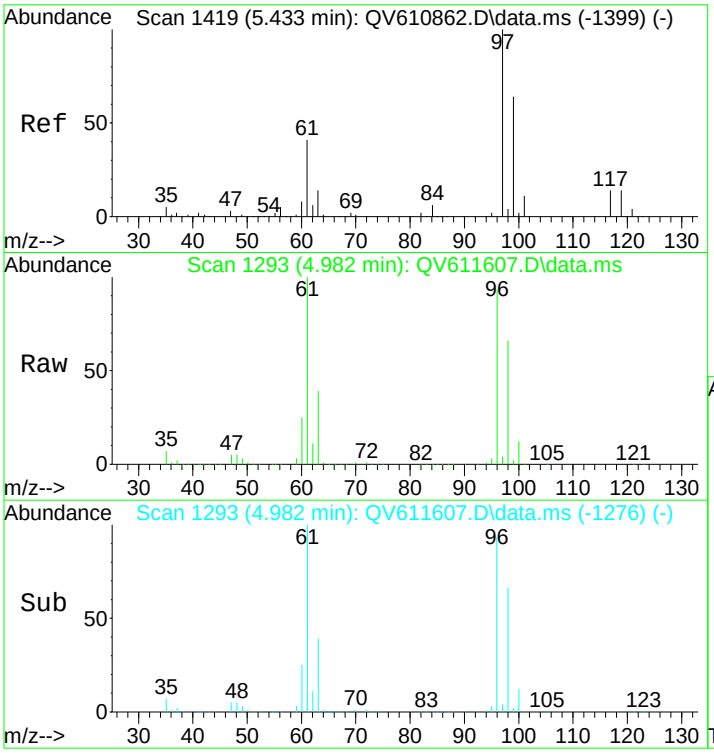


#25
cis-1,2-Dichloroethylene
Concen: 737.95 ppb
RT: 4.982 min Scan# 1293
Delta R.T. 0.011 min
Lab File: QV611607.D
Acq: 13 Nov 2018 6:35 pm

Tgt Ion: 61 Resp:14815384

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	90.5	39.2	81.4#
98	61.0	24.4	50.8#

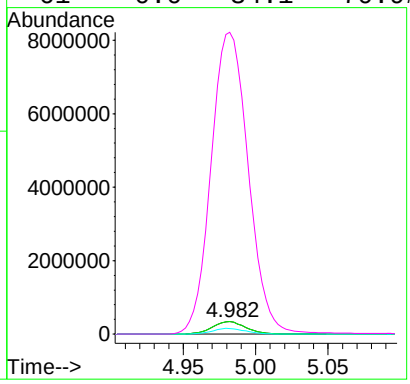


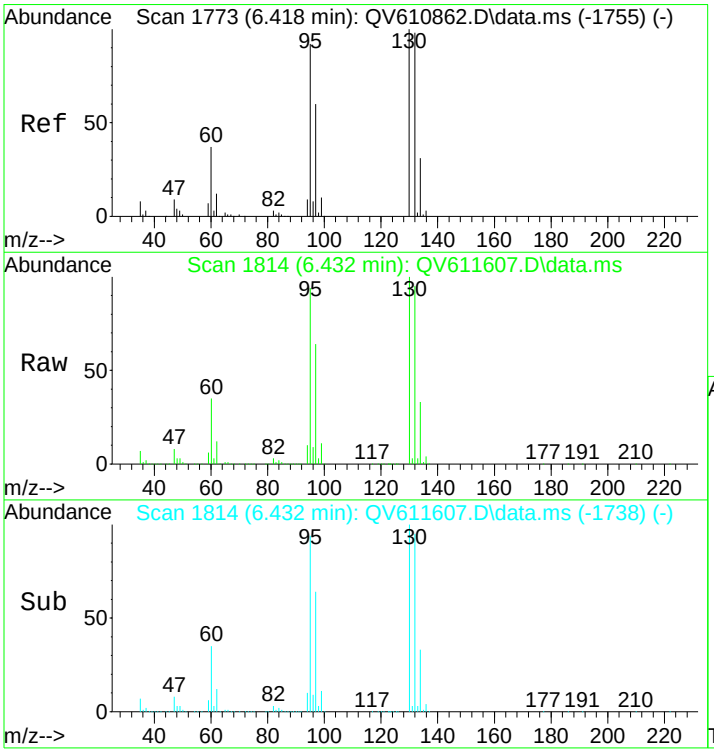


#31
1,1,1-Trichloroethane
Concen: 26.77 ppb
RT: 4.982 min Scan# 1293
Delta R.T. -0.453 min
Lab File: QV611607.D
Acq: 13 Nov 2018 6:35 pm

Tgt Ion: 97 Resp: 545636

Ion	Ratio	Lower	Upper
97	100		
97	100.0	65.0	135.0
99	0.0	42.1	87.5#
61	0.0	34.1	70.9#

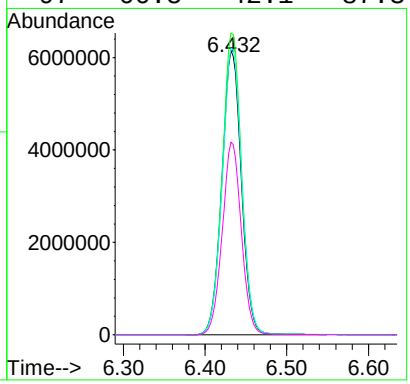


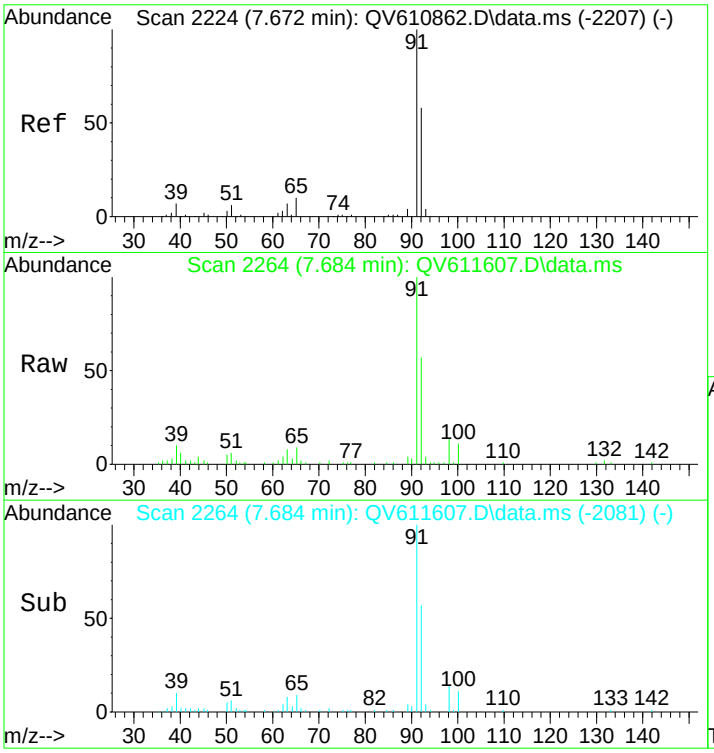


#41
Trichloroethylene
Concen: 656.96 ppb
RT: 6.432 min Scan# 1814
Delta R.T. 0.012 min
Lab File: QV611607.D
Acq: 13 Nov 2018 6:35 pm

Tgt Ion: 95 Resp:10227588

Ion	Ratio	Lower	Upper
95	100		
130	106.6	70.0	145.4
132	101.5	69.6	144.6
97	66.5	42.1	87.3

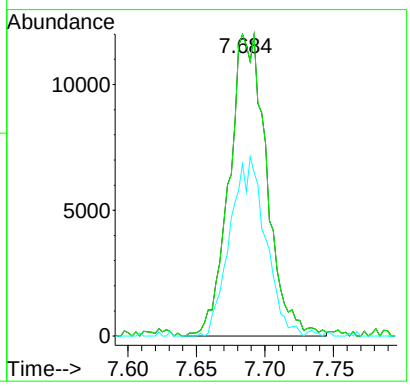


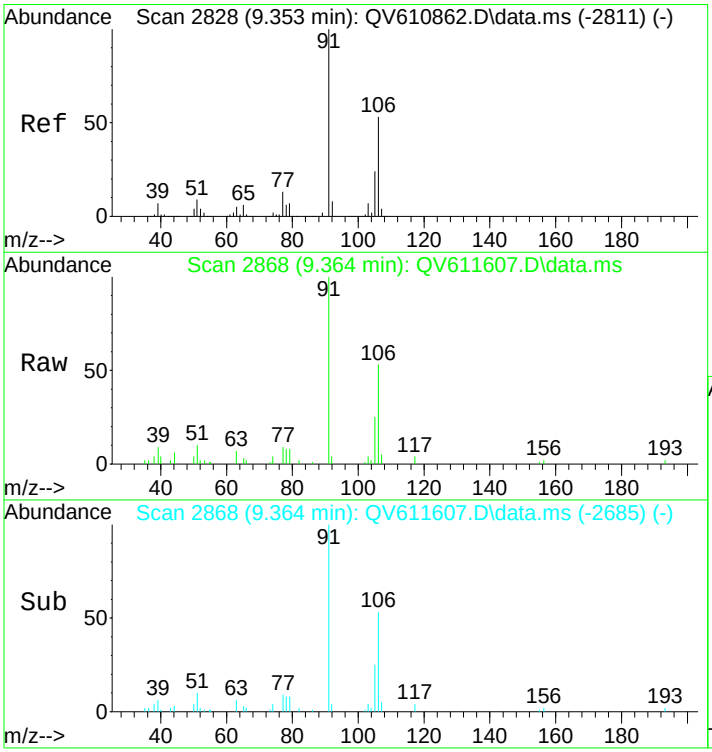


#52
Toluene
Concen: 0.34 ppb
RT: 7.684 min Scan# 2264
Delta R.T. 0.009 min
Lab File: QV611607.D
Acq: 13 Nov 2018 6:35 pm

Tgt Ion: 91 Resp: 22878

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	56.1	37.2	77.4

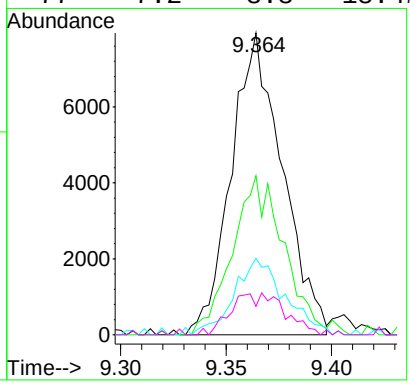


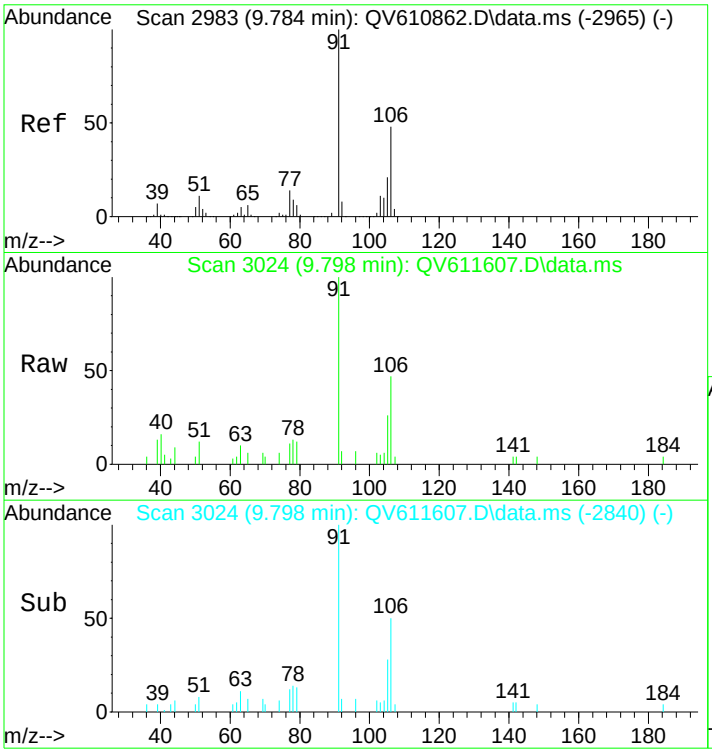


#63
p- & m-Xylenes
Concen: 0.30 ppb
RT: 9.364 min Scan# 2868
Delta R.T. 0.008 min
Lab File: QV611607.D
Acq: 13 Nov 2018 6:35 pm

Tgt Ion: 91 Resp: 13413

Ion	Ratio	Lower	Upper
91	100		
106	52.4	34.1	70.9
105	25.1	16.2	33.6
77	7.2	8.8	18.4#

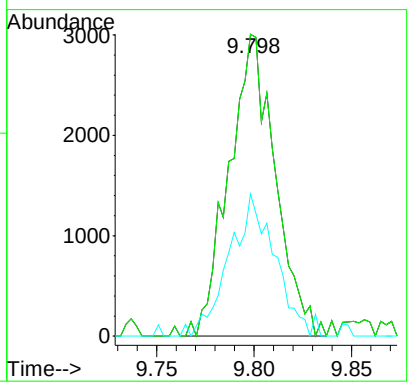


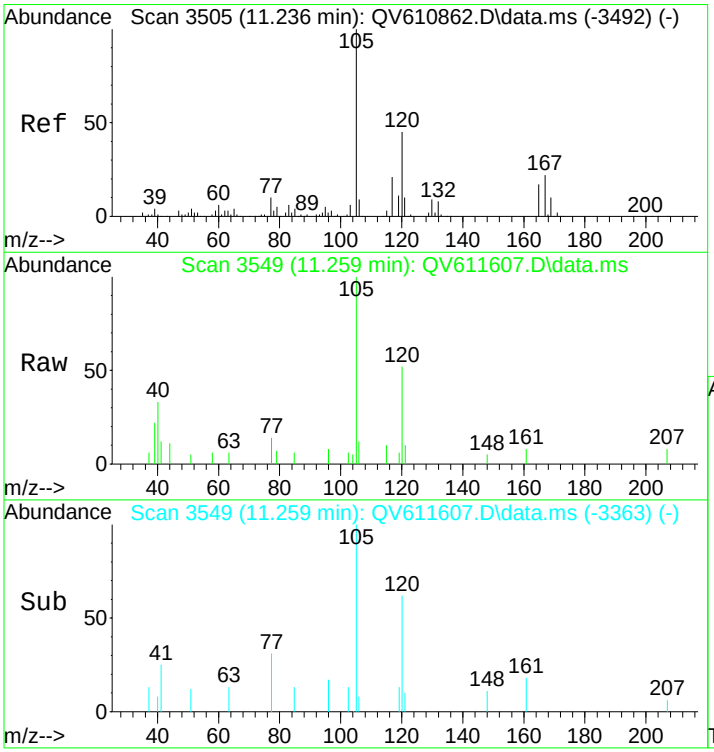


#64
o-Xylene
Concen: 0.11 ppb
RT: 9.798 min Scan# 3024
Delta R.T. 0.011 min
Lab File: QV611607.D
Acq: 13 Nov 2018 6:35 pm

Tgt Ion: 91 Resp: 4948

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	46.1	24.3	72.9

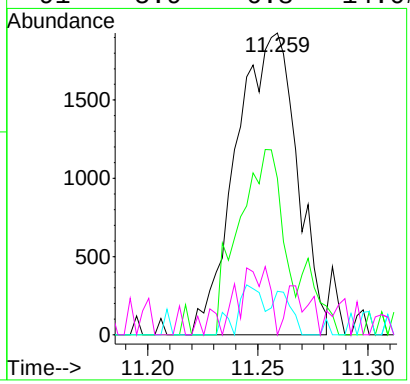


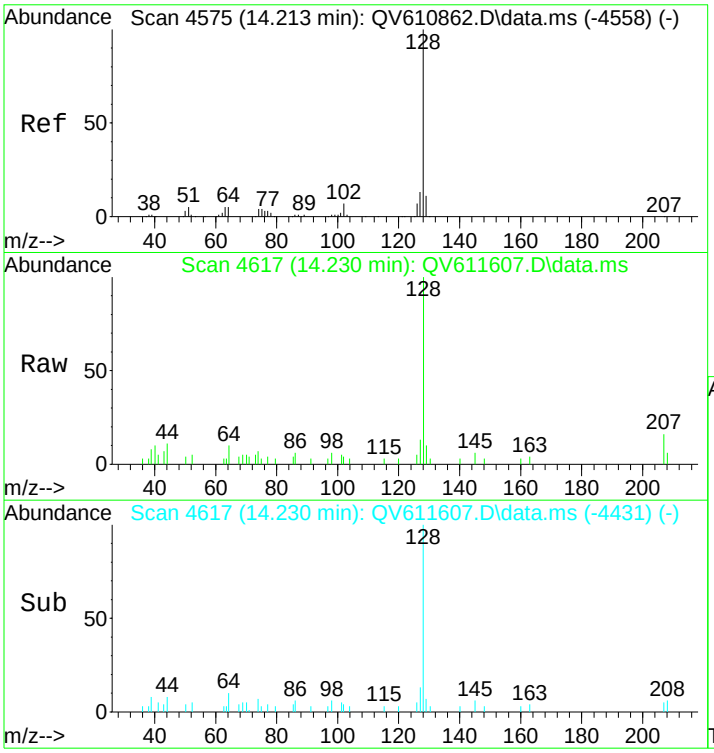


#80
1,2,4-Trimethylbenzene
Concen: 0.14 ppb
RT: 11.259 min Scan# 3549
Delta R.T. 0.017 min
Lab File: QV611607.D
Acq: 13 Nov 2018 6:35 pm

Tgt Ion:105 Resp: 3708

Ion	Ratio	Lower	Upper
105	100		
120	0.0	31.5	65.5#
77	4.7	7.7	16.1#
91	5.9	6.8	14.0#

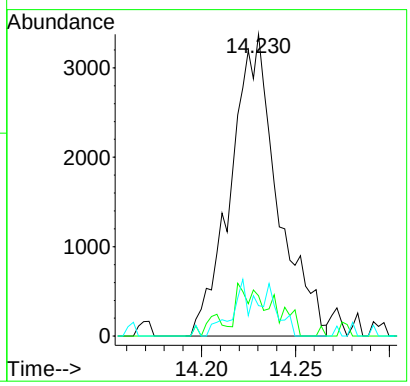




#93
Naphthalene
Concen: 0.70 ppb
RT: 14.230 min Scan# 4617
Delta R.T. 0.017 min
Lab File: QV611607.D
Acq: 13 Nov 2018 6:35 pm

Tgt Ion:128 Resp: 5855

Ion	Ratio	Lower	Upper
128	100		
127	3.2	8.9	18.5#
129	8.3	7.3	15.3



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-FD-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-04RE2	File ID:	QV611656.D
Sampled:	11/01/18 11:00	Prepared:	11/14/18 12:33	Analyzed:	11/14/18 16:04
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80724	Sequence:	Y8K1430	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	200	15000	D
79-01-6	Trichloroethylene	200	15000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.9	109	69 - 130	D
SURR: Toluene-d8	10.0	10.9	109	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	8.50	85.0	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	231138	6.078	246834	6.078	
ISTD: Chlorobenzene-d5	722053	9.119	786770	9.119	
ISTD: 1,2-Dichlorobenzene-d4	117796	12.094	129414	12.093	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611656.D
Acq On : 14 Nov 2018 4:04 pm
InstName : QVOA6
Operator : LLJ
Sample : 18k0078-04RE2
Misc : QBQV6111318C CT RCP 250UL/50ML
ALS Vial : 64 Sample Multiplier: 200

Quant Time: Nov 14 16:23:30 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

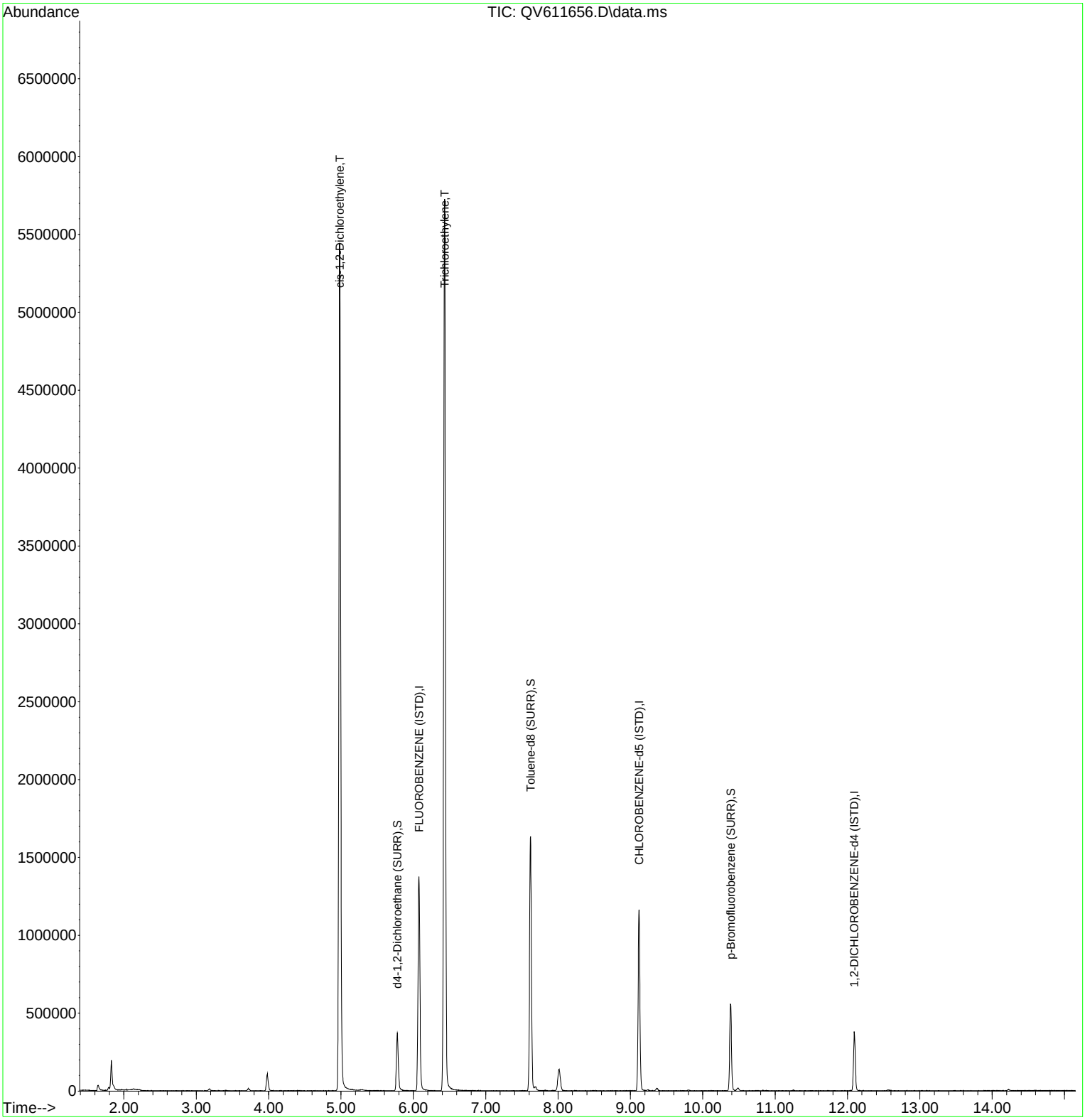
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.078	70	231138	10.00	ppb	# 0.01
40) CHLOROBENZENE-d5 (ISTD)	9.119	117	722053	10.00	ppb	# 0.01
67) 1,2-DICHLOROBENZENE-d4...	12.094	152	117796	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.778	65	237145	10.88	ppb	0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.80%			
51) Toluene-d8 (SURR)	7.620	98	1167888	10.93	ppb	0.01
Spiked Amount 10.000	Range 81 - 117		Recovery = 109.30%			
70) p-Bromofluorobenzene (...	10.385	95	197556	8.50	ppb	0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 85.00%			
Target Compounds						Qvalue
25) cis-1,2-Dichloroethylene	4.982	61	2726252	72.92	ppb	# 82
41) Trichloroethylene	6.432	95	1758227	72.82	ppb	98

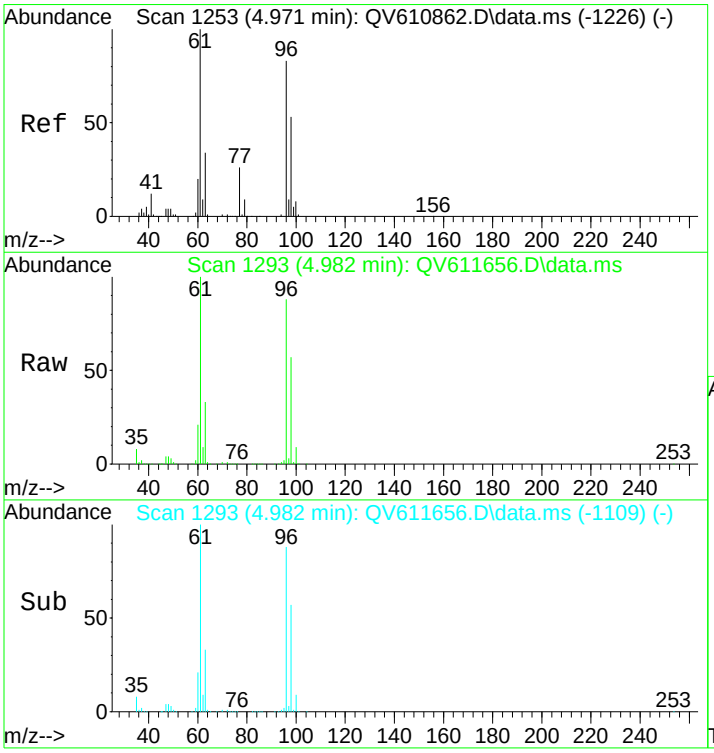
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611656.D
Acq On : 14 Nov 2018 4:04 pm
InstName : QVOA6
Operator : LLJ
Sample : 18k0078-04RE2
Misc : QBQV6111318C CT RCP 250UL/50ML
ALS Vial : 64 Sample Multiplier: 200

Quant Time: Nov 14 16:23:30 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

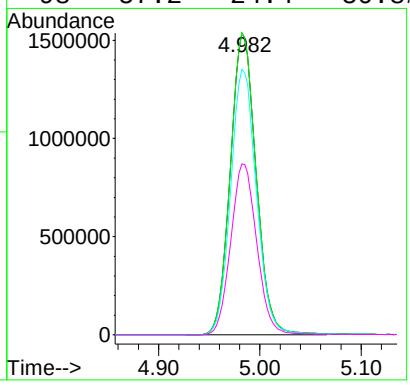


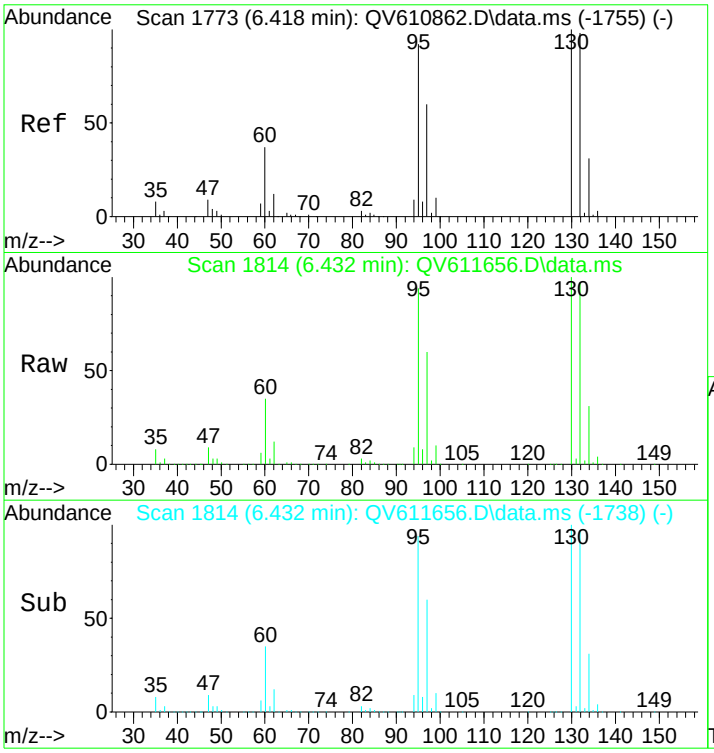


#25
cis-1,2-Dichloroethylene
Concen: 72.92 ppb
RT: 4.982 min Scan# 1293
Delta R.T. 0.011 min
Lab File: QV611656.D
Acq: 14 Nov 2018 4:04 pm

Tgt Ion: 61 Resp: 2726252

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	88.5	39.2	81.4#
98	57.2	24.4	50.8#

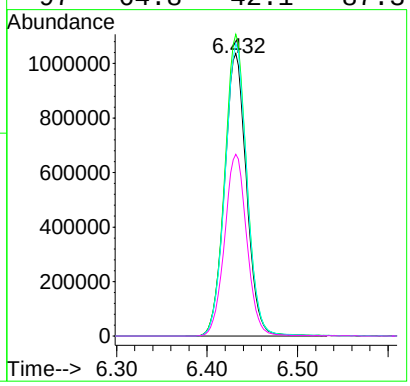




#41
Trichloroethylene
Concen: 72.82 ppb
RT: 6.432 min Scan# 1814
Delta R.T. 0.012 min
Lab File: QV611656.D
Acq: 14 Nov 2018 4:04 pm

Tgt Ion: 95 Resp: 1758227

Ion	Ratio	Lower	Upper
95	100		
130	106.4	70.0	145.4
132	102.8	69.6	144.6
97	64.8	42.1	87.3



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-TB-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-05	File ID:	QV611539.D
Sampled:	11/01/18 09:45	Prepared:	11/10/18 03:58	Analyzed:	11/10/18 11:03
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009
Instrument:	QVOA6				

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
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
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	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
156-59-2	cis-1,2-Dichloroethylene	1	7.3	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-TB-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-05	File ID:	QV611539.D
Sampled:	11/01/18 09:45	Prepared:	11/10/18 03:58	Analyzed:	11/10/18 11:03
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
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
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	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
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	6.1	
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.65	
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	6.97	69.7	69 - 130	
SURR: Toluene-d8	10.0	9.93	99.3	81 - 117	
SURR: p-Bromofluorobenzene	10.0	12.0	120	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	138746	6.075	156683	6.075	
ISTD: Chlorobenzene-d5	556403	9.116	650936	9.116	
ISTD: 1,2-Dichlorobenzene-d4	68342	12.093	91802	12.093	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611539.D
Acq On : 10 Nov 2018 11:03 am
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-05
Misc : QBQV6110918B 8260 1X A
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 12 14:34:13 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

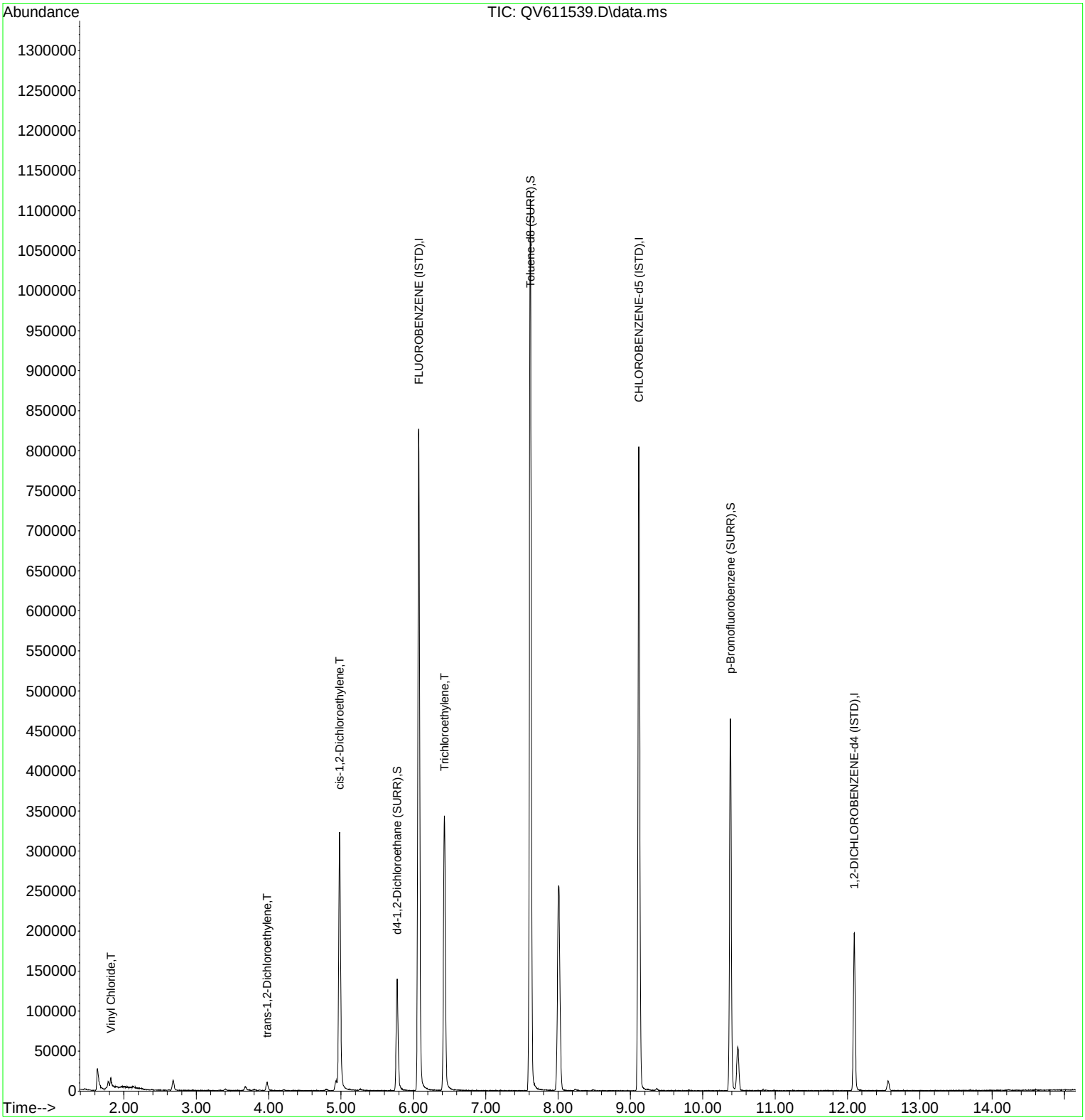
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.075	70	138746	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	556403	10.00	ppb	# 0.00
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	68342	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.775	65	91148	6.97	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 69.70%			
51) Toluene-d8 (SURR)	7.617	98	817912	9.93	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 99.30%			
70) p-Bromofluorobenzene (...	10.382	95	162414	12.04	ppb	0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 120.40%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.819	62	9139	0.65	ppb	# 46
19) trans-1,2-Dichloroethy...	3.978	61	5586	0.28	ppb	# 65
25) cis-1,2-Dichloroethylene	4.979	61	164746	7.34	ppb	# 64
41) Trichloroethylene	6.429	95	113726	6.11	ppb	94

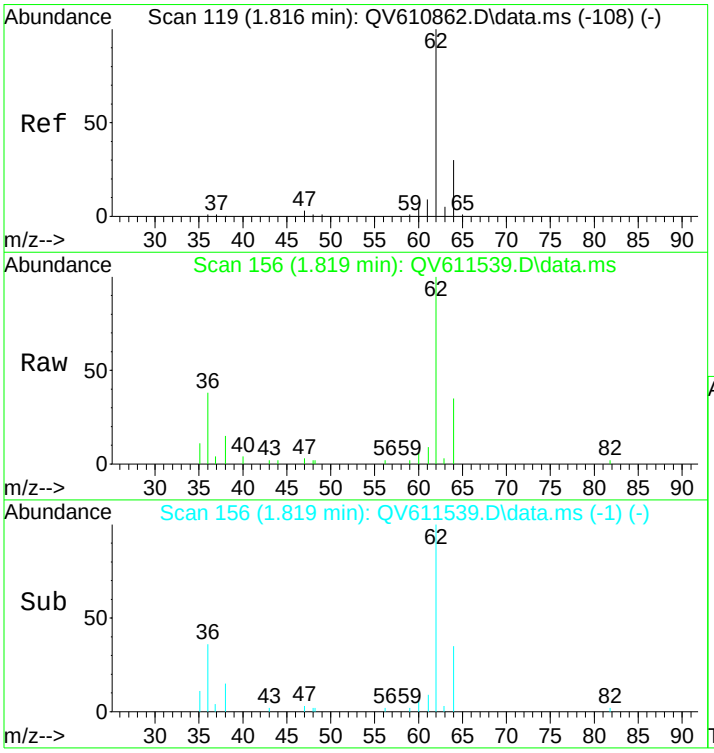
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611539.D
Acq On : 10 Nov 2018 11:03 am
InstName : QVOA6
Operator : LLJ
Sample : 18K0078-05
Misc : QBQV6110918B 8260 1X A
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 12 14:34:13 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

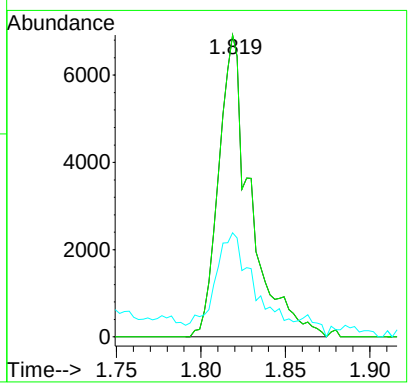


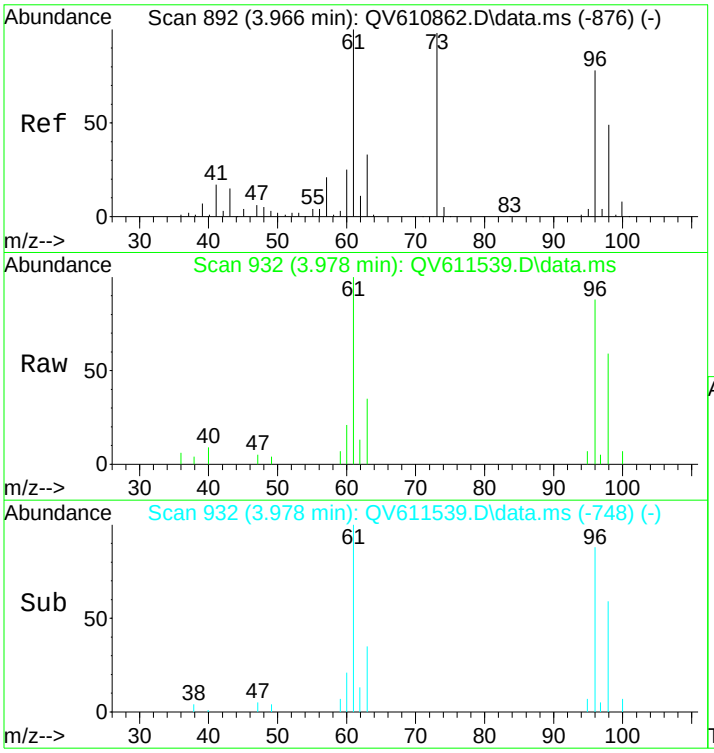


#4
Vinyl Chloride
Concen: 0.65 ppb
RT: 1.819 min Scan# 156
Delta R.T. 0.003 min
Lab File: QV611539.D
Acq: 10 Nov 2018 11:03 am

Tgt Ion: 62 Resp: 9139

Ion	Ratio	Lower	Upper
62	100		
62	100.0	36.0	74.8#
64	33.3	12.5	25.9#

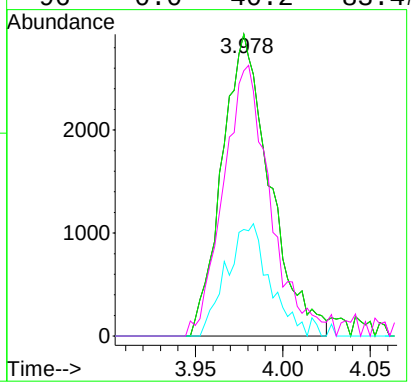


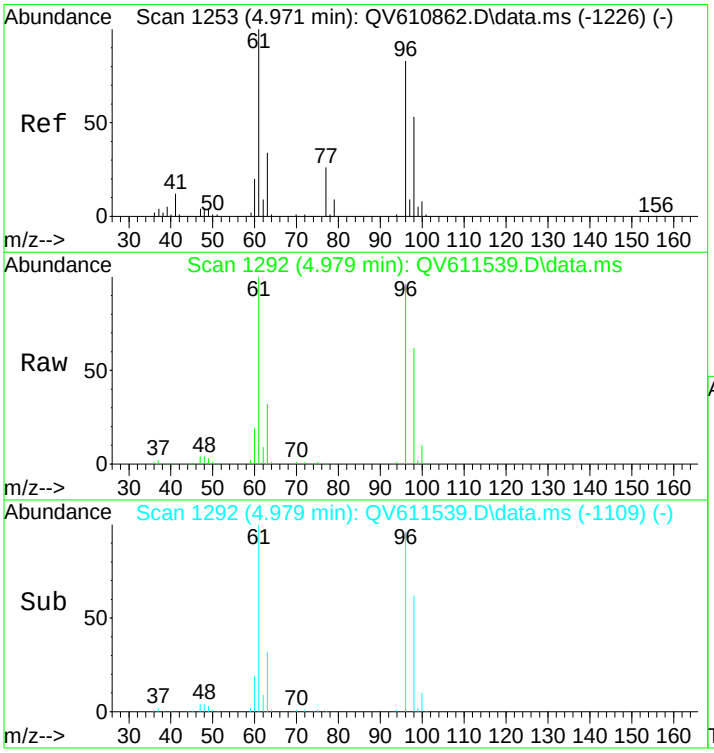


#19
trans-1,2-Dichloroethylene
Concen: 0.28 ppb
RT: 3.978 min Scan# 932
Delta R.T. 0.011 min
Lab File: QV611539.D
Acq: 10 Nov 2018 11:03 am

Tgt Ion: 61 Resp: 5586

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	0.0	20.9	43.3#
96	0.0	40.2	83.4#

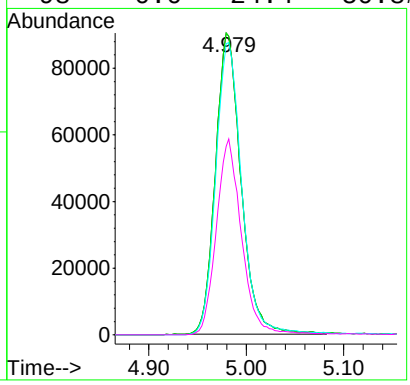


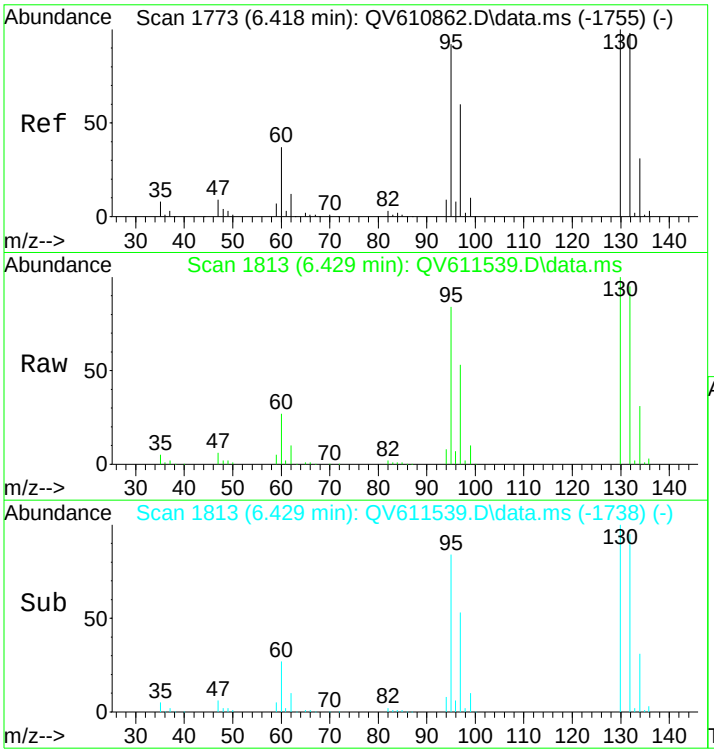


#25
cis-1,2-Dichloroethylene
Concen: 7.34 ppb
RT: 4.979 min Scan# 1292
Delta R.T. 0.008 min
Lab File: QV611539.D
Acq: 10 Nov 2018 11:03 am

Tgt Ion: 61 Resp: 164746

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	0.0	39.2	81.4#
98	0.0	24.4	50.8#

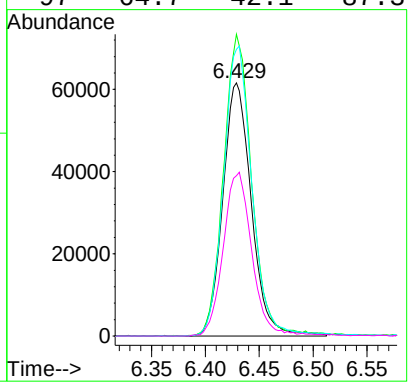




#41
Trichloroethylene
Concen: 6.11 ppb
RT: 6.429 min Scan# 1813
Delta R.T. 0.009 min
Lab File: QV611539.D
Acq: 10 Nov 2018 11:03 am

Tgt Ion: 95 Resp: 113726

Ion	Ratio	Lower	Upper
95	100		
130	116.7	70.0	145.4
132	113.6	69.6	144.6
97	64.7	42.1	87.3



FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YK80009
Instrument: QVOA6
Calibration Date: 11/07/18 07:55

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	0.5	0.2725273	2	0.2752239	4	0.2666441	10	0.2767401	20	0.2790071	40	0.292317
1,1,1-Trichloroethane	0.5	1.777876	2	1.677328	4	1.455285	10	1.558823	20	1.591728	40	1.491917
1,1,2,2-Tetrachloroethane	0.5	0.9162911	2	1.045787	4	0.9940574	10	1.057803	20	1.020211	40	1.021551
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.9419498	2	1.064375	4	0.6939537	10	0.9896737	20	0.8809366	40	0.7604026
1,1,2-Trichloroethane	0.5	0.2004334	2	0.1973416	4	0.1897408	10	0.1868501	20	0.1894684	40	0.197092
1,1-Dichloroethane	0.5	2.011355	2	1.956785	4	1.731642	10	1.768982	20	1.965694	40	1.764165
1,1-Dichloroethylene	0.5	1.628063	2	1.590512	4	1.137135	10	1.387714	20	1.46489	40	1.275067
1,1-Dichloropropylene	0.5	1.667216	2	1.52125	4	1.316551	10	1.420334	20	1.424345	40	1.361506
1,2,3-Trichlorobenzene	0.5	0.5447776	2	0.4517996	4	0.4057295	10	0.4916743	20	0.4296433	40	0.4821892
1,2,3-Trichloropropane	0.5	0.2772879	2	0.3230576	4	0.3052862	10	0.3167548	20	0.3077516	40	0.3032524
1,2,4,5-Tetramethylbenzene	0.5	2.142694	2	1.920641	4	1.748553	10	2.101743	20	1.932413	40	2.075639
1,2,4-Trichlorobenzene	0.5	0.6886472	2	0.6349957	4	0.5891353	10	0.6755339	20	0.625631	40	0.6985004
1,2,4-Trimethylbenzene	0.5	4.25534	2	4.149711	4	3.872779	10	4.206557	20	3.915074	40	3.546717
1,2-Dibromo-3-chloropropane	0.5	5.339996E-02	2	0.0634838	4	5.702417E-02	10	6.310523E-02	20	6.083477E-02	40	6.856013E-02
1,2-Dibromoethane	0.5	0.1726379	2	0.1842293	4	0.1772827	10	0.1766763	20	0.1771999	40	0.1847923
1,2-Dichlorobenzene	0.5	1.475439	2	1.432447	4	1.365532	10	1.446999	20	1.388289	40	1.417111
1,2-Dichloroethane	0.5	0.9535928	2	0.9187812	4	0.9420784	10	0.9728104	20	0.8805177	40	0.9686491
1,2-Dichloropropane	0.5	0.290503	2	0.2766189	4	0.2611384	10	0.2804323	20	0.2435493	40	0.2765498
1,3,5-Trimethylbenzene	0.5	4.690868	2	4.671422	4	4.354163	10	4.690536	20	4.43161	40	3.985853
1,3-Dichlorobenzene	0.5	2.014175	2	2.004353	4	1.905293	10	2.043948	20	1.937837	40	1.857771
1,3-Dichloropropane	0.5	0.3245178	2	0.3335484	4	0.31732	10	0.3089875	20	0.3236042	40	0.3339574
1,4-Dichlorobenzene	0.5	2.019237	2	1.904514	4	1.834341	10	1.987374	20	1.862541	40	1.794208
1,4-Dioxane	10	1.14019E-03	40	1.180441E-03	80	1.263934E-03	200	1.270119E-03	400	1.105497E-03	800	1.195936E-03
2,2-Dichloropropane	0.5	1.801162	2	1.691122	4	1.381463	10	1.436432	20	1.520281	40	1.220789
2-Butanone	0.5	5.543306E-02	2	7.079768E-02	4	7.258281E-02	10	7.301878E-02	20	7.830243E-02	40	0.0682736
2-Chlorotoluene	0.5	4.818407	2	4.796536	4	4.492737	10	4.922531	20	4.825439	40	4.640694
2-Hexanone	0.5	8.897848E-02	2	9.723213E-02	4	9.077079E-02	10	8.307305E-02	20	9.018254E-02	40	9.191504E-02
4-Chlorotoluene	0.5	4.013162	2	4.089145	4	3.886989	10	4.228891	20	4.159967	40	3.945497
4-Methyl-2-pentanone	0.5	0.1438058	2	0.1428066	4	0.1290056	10	0.135021	20	0.1330846	40	0.1372707
Acetone	0.5	~~0.2738682~~	2	0.2134256	4	0.1384498	10	0.1599972	20	0.1444634	40	0.1270863
Acrolein	0.5	8.005852E-02	2	7.265102E-02	4	5.854411E-02	10	6.312526E-02	20	0.0827566	40	0.0749338

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 KINGSTON CVS

Calibration: YK80009

Instrument: QVOA6

Calibration Date: 11/07/18 07:55

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	0.5		2	0.1420984	4	0.1233133	10	0.1424797	20	0.1830178	40	0.1729743
Benzene	0.5	5.051003	2	4.554271	4	4.228737	10	4.247252	20	4.304986	40	4.277282
Bromobenzene	0.5	2.184336	2	2.355091	4	2.25955	10	2.402024	20	2.387865	40	2.38752
Bromochloromethane	0.5	0.666124	2	0.695983	4	0.6419059	10	0.6339298	20	0.6566788	40	0.6012492
Bromodichloromethane	0.5	0.329755	2	0.3335685	4	0.3161985	10	0.3481287	20	0.3074644	40	0.3477952
Bromoform	0.5	0.1005713	2	0.1143888	4	0.1125529	10	0.1269937	20	0.1222888	40	0.126045
Bromomethane	0.5		2	0.175485	4	0.1973168	10	0.2416262	20	0.3517587	40	0.3735202
Carbon disulfide	0.5	3.369361	2	2.625365	4	2.041618	10	2.224622	20	2.344873	40	2.040195
Carbon tetrachloride	0.5	1.490098	2	1.456992	4	1.19803	10	1.365154	20	1.337745	40	1.272916
Chlorobenzene	0.5	0.9125886	2	0.8455648	4	0.7970557	10	0.8185569	20	0.8060113	40	0.8248058
Chloroethane	0.5	0.7384549	2	0.6965125	4	0.5712991	10	0.6036001	20	0.6825332	40	0.5912768
Chloroform	0.5	2.091825	2	1.937458	4	1.735659	10	1.733615	20	1.867289	40	1.745507
Chloromethane	0.5	0.5056979	2	0.4068616	4	0.419056	10	0.4080044	20	0.5064006	40	0.4404329
cis-1,2-Dichloroethylene	0.5	1.901519	2	1.741268	4	1.538226	10	1.527819	20	1.707679	40	1.395176
cis-1,3-Dichloropropylene	0.5	0.4156239	2	0.4249789	4	0.4059631	10	0.4131656	20	0.4250329	40	0.4359527
Cyclohexane	0.5	1.737692	2	1.858691	4	1.331623	10	1.790681	20	1.537191	40	1.412421
Dibromochloromethane	0.5	0.2007062	2	0.2176707	4	0.2130171	10	0.2232927	20	0.2313383	40	0.242466
Dibromomethane	0.5	0.1291034	2	0.1273267	4	0.1232594	10	0.1315076	20	0.1154426	40	0.1281893
Dichlorodifluoromethane	0.5	0.5500031	2	0.5715178	4	0.566288	10	0.6442813	20	0.6239227	40	0.5241126
Ethyl Benzene	0.5	1.578836	2	1.420151	4	1.304161	10	1.35194	20	1.358598	40	1.376574
Hexachlorobutadiene	0.5	0.193187	2	0.1670689	4	0.1308023	10	0.1735616	20	0.1456319	40	0.1684246
Isopropylbenzene	0.5	7.55438	2	7.378908	4	6.714762	10	7.44716	20	7.351574	40	7.502349
Methyl acetate	0.5	0.2831413	2	0.3168156	4	0.2698737	10	0.3390718	20	0.362775	40	0.3212875
Methyl tert-butyl ether (MTBE)	0.5	2.339728	2	2.548584	4	2.172525	10	2.362457	20	2.590488	40	2.329786
Methylcyclohexane	0.5	0.4637956	2	0.5029015	4	0.3539285	10	0.5206683	20	0.3619081	40	0.404229
Methylene chloride	0.5	1.063944	2	1.059159	4	0.8673388	10	0.96884	20	1.088903	40	0.9544929
Naphthalene	0.5	~~2.082762~~	2	1.202683	4	1.061174	10	1.185185	20	1.026555	40	1.126483
n-Butylbenzene	0.5	2.917891	2	2.671564	4	2.273316	10	2.704981	20	2.360328	40	2.377657
n-Propylbenzene	0.5	7.397936	2	7.288808	4	6.553358	10	7.38332	20	7.205231	40	6.911863
o-Xylene	0.5	1.023253	2	0.9971374	4	0.938001	10	1.032372	20	0.9935251	40	0.9944181
p- & m- Xylenes	1	1.138813	4	1.009988	8	0.9271523	20	1.003057	40	0.9958739	80	1.008404

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YK80009
Instrument: QVOA6
Calibration Date: 11/07/18 07:55

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Diethylbenzene	0.5	1.376151	2	1.387851	4	1.202958	10	1.450507	20	1.261555	40	1.233918
p-Ethyltoluene	0.5	5.825985	2	5.552112	4	5.133265	10	6.002029	20	5.610722	40	5.050036
p-Isopropyltoluene	0.5	3.672023	2	3.695664	4	3.215981	10	3.714252	20	3.281334	40	3.005059
sec-Butylbenzene	0.5	4.73251	2	4.511175	4	3.889674	10	4.565611	20	4.050667	40	3.594795
Styrene	0.5	0.7438514	2	0.7785613	4	0.7512248	10	0.8309848	20	0.7974243	40	0.7947848
SURR: 1,2-Dichloroethane-d4	10	1.023647	10	0.9489484	10	0.9666894	10	0.9409459	10	0.8882598	10	0.9337899
SURR: p-Bromofluorobenzene	10	2.058438	10	2.206011	10	2.206506	10	2.283137	10	2.323965	10	2.292799
SURR: Toluene-d8	10	1.393355	10	1.40285	10	1.40172	10	1.44026	10	1.399672	10	1.398536
tert-Butyl alcohol (TBA)	0.5	5.223896E-02	2	0.0683089	4	5.553489E-02	10	5.921013E-02	20	6.507134E-02	40	5.745677E-02
tert-Butylbenzene	0.5	4.069502	2	3.889507	4	3.472459	10	3.90297	20	3.590879	40	3.199501
Tetrachloroethylene	0.5	0.456758	2	0.4126447	4	0.3570659	10	0.3937934	20	0.3748774	40	0.3840681
Toluene	0.5	1.735653	2	1.420419	4	1.287478	10	1.319949	20	1.267214	40	1.285011
trans-1,2-Dichloroethylene	0.5	1.647021	2	1.470442	4	1.177766	10	1.30609	20	1.459472	40	1.298574
trans-1,3-Dichloropropylene	0.5	0.3100063	2	0.3363922	4	0.323937	10	0.31832	20	0.3369474	40	0.3549153
trans-1,4-dichloro-2-butene	0.5	0.9739369	2	1.161478	4	1.068905	10	1.16716	20	1.1304	40	1.120696
Trichloroethylene	0.5	0.3653519	2	0.3085848	4	0.2799831	10	0.3035847	20	0.2663901	40	0.2941102
Trichlorofluoromethane	0.5	1.469285	2	1.652043	4	1.065818	10	1.368606	20	1.291478	40	1.045396
Vinyl acetate	0.5	1.967461	2	2.239129	4	2.167204	10	2.130805	20	2.402271	40	2.073298
Vinyl Chloride	0.5	1.147918	2	1.058338	4	0.911573	10	0.9260351	20	1.017244	40	0.8727374

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YK80009
Instrument: QVOA6
Calibration Date: 11/07/18 07:55

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	80	0.3196556	120	0.3346711	160	0.3170952						
1,1,1-Trichloroethane	80	1.703526	120	1.859029	160	1.665751						
1,1,2,2-Tetrachloroethane	80	0.8165932	120	0.7057467	160	0.645556						
1,1,2-Trichloro-1,2,2-trifluoroethan	80	1.013204	120	1.081385	160	1.057689						
1,1,2-Trichloroethane	80	0.2183138	120	0.2677297	160	0.2850271						
1,1-Dichloroethane	80	1.841727	120	1.881654	160	1.74297						
1,1-Dichloroethylene	80	1.317027	120	1.436398	160	1.377206						
1,1-Dichloropropylene	80	1.527722	120	1.721695	160	1.540627						
1,2,3-Trichlorobenzene	80	0.5341	120	0.5989165	160	0.5827933						
1,2,3-Trichloropropane	80	0.2342091	120	0.1992717	160	0.1824919						
1,2,4,5-Tetramethylbenzene	80	2.422023	120	2.648593	160	2.551536						
1,2,4-Trichlorobenzene	80	0.7998153	120	0.8792849	160	0.8485018						
1,2,4-Trimethylbenzene	80	3.269092	120	3.401918	160	3.279444						
1,2-Dibromo-3-chloropropane	80	7.603708E-02	120	8.487923E-02	160	0.0808063						
1,2-Dibromoethane	80	0.2037235	120	0.2362196	160	0.2341666						
1,2-Dichlorobenzene	80	1.505732	120	1.657433	160	1.600001						
1,2-Dichloroethane	80	0.958502	120	1.122099	160	1.097443						
1,2-Dichloropropane	80	0.2561219	120	0.3760543	160	0.4171801						
1,3,5-Trimethylbenzene	80	3.368336	120	3.350727	160	3.219874						
1,3-Dichlorobenzene	80	1.82819	120	1.959766	160	1.903148						
1,3-Dichloropropane	80	0.3689283	120	0.4445672	160	0.4642268						
1,4-Dichlorobenzene	80	1.782541	120	1.923545	160	1.873124						
1,4-Dioxane	1600	1.060551E-03	2400	1.242957E-03	3200	1.259701E-03						
2,2-Dichloropropane	80	1.458202	120	1.625077	160	~~1.377755~~						
2-Butanone	80	7.793689E-02	120	0.0869023	160	7.509656E-02						
2-Chlorotoluene	80	3.779205	120	3.428984	160	3.212744						
2-Hexanone	80	9.717724E-02	120	0.104477	160	9.853522E-02						
4-Chlorotoluene	80	3.224111	120	3.02747	160	2.896719						
4-Methyl-2-pentanone	80	0.1249706	120	0.1837724	160	0.1898321						
Acetone	80	0.1173099	120	0.1438801	160	0.1352265						
Acrolein	80	8.811527E-02	120	0.1009891	160	0.1013819						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YK80009 Instrument: QVOA6

Calibration Date: 11/07/18 07:55

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	80	0.1774193	120	0.212802	160	0.2085518						
Benzene	80	4.613695	120	4.761185	160	4.483701						
Bromobenzene	80	1.967174	120	1.684362	160	1.540774						
Bromochloromethane	80	0.5493546	120	0.6411197	160	0.5202495						
Bromodichloromethane	80	0.3316858	120	0.4800928	160	0.5313803						
Bromoform	80	0.1148628	120	0.1073569	160	0.1051816						
Bromomethane	80	0.3841998	120	0.3682921	160	0.3631148						
Carbon disulfide	80	2.359992	120	2.453285	160	2.38265						
Carbon tetrachloride	80	1.529403	120	1.667884	160	1.525896						
Chlorobenzene	80	0.8740947	120	0.9270204	160	0.894496						
Chloroethane	80	0.7428207	120	0.655136	160	0.6314639						
Chloroform	80	1.855685	120	2.011638	160	1.758419						
Chloromethane	80	0.6088551	120	0.4201782	160	0.4103806						
cis-1,2-Dichloroethylene	80	1.567062	120	1.744948	160	1.434517						
cis-1,3-Dichloropropylene	80	0.4328008	120	0.5972114	160	0.6534986						
Cyclohexane	80	1.708901	120	1.968965	160	1.745119						
Dibromochloromethane	80	0.2720861	120	0.325231	160	0.3390659						
Dibromomethane	80	0.1235515	120	0.1775525	160	0.1963679						
Dichlorodifluoromethane	80	0.7853954	120	0.719668	160	0.6963083						
Ethyl Benzene	80	1.414403	120	1.373547	160	1.273545						
Hexachlorobutadiene	80	0.208133	120	0.2310824	160	0.226162						
Isopropylbenzene	80	6.227869	120	5.015015	160	4.443126						
Methyl acetate	80	0.3071977	120	0.3752067	160	0.3657923						
Methyl tert-butyl ether (MTBE)	80	2.42741	120	2.67209	160	2.592336						
Methylcyclohexane	80	0.4558699	120	0.6614642	160	0.7238973						
Methylene chloride	80	0.9406131	120	1.08335	160	1.051708						
Naphthalene	80	1.215163	120	1.364117	160	1.306796						
n-Butylbenzene	80	2.672239	120	2.968555	160	2.859405						
n-Propylbenzene	80	5.539911	120	4.976477	160	4.598445						
o-Xylene	80	0.9059699	120	0.8390985	160	0.8245197						
p- & m- Xylenes	160	0.9652491	240	0.8897808	320	0.8221755						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YK80009 Instrument: QVOA6

Calibration Date: 11/07/18 07:55

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Diethylbenzene	80	1.371438	120	1.527919	160	1.484251						
p-Ethyltoluene	80	4.085327	120	3.872813	160	3.671998						
p-Isopropyltoluene	80	3.039745	120	3.304558	160	3.197458						
sec-Butylbenzene	80	3.317012	120	3.496762	160	3.350372						
Styrene	80	0.7183792	120	0.6671122	160	0.6581678						
SURR: 1,2-Dichloroethane-d4	10	0.888586	10	0.9387563	10	0.9560324						
SURR: p-Bromofluorobenzene	10	1.75906	10	1.359148	10	1.274193						
SURR: Toluene-d8	10	1.356952	10	1.659956	10	1.867851						
tert-Butyl alcohol (TBA)	80	6.270142E-02	120	7.062287E-02	160	7.056648E-02						
tert-Butylbenzene	80	2.71396	120	2.742971	160	2.624818						
Tetrachloroethylene	80	0.4545543	120	0.5568241	160	0.5965464						
Toluene	80	1.310966	120	1.632866	160	1.67031						
trans-1,2-Dichloroethylene	80	1.357419	120	1.534255	160	1.463305						
trans-1,3-Dichloropropylene	80	0.3638558	120	0.4861083	160	0.5227592						
trans-1,4-dichloro-2-butene	80	0.8768004	120	0.7681846	160	0.7127567						
Trichloroethylene	80	0.2965754	120	0.422994	160	0.4719519						
Trichlorofluoromethane	80	1.405746	120	1.236794	160	1.178607						
Vinyl acetate	80	1.962038	120	2.402948	160	2.237817						
Vinyl Chloride	80	1.174544	120	1.045854	160	1.004092						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YK80009 Instrument: QVOA6

Calibration Date: 11/07/18 07:55

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.2926535	8.471243	9.235333	2.796616E-02			20	
1,1,1-Trichloroethane	1.642363	7.996784	5.443333	4.465791E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.9137329	16.96464	10.55989	2.309783E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	0.9426188	14.68844	3.161222	3.611241E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.2146663	16.97375	8.124333	2.698118E-02			SPCC (0.1)	
1,1-Dichloroethane	1.851664	5.768235	4.405	3.800098E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.401557	10.88171	3.171889	0.0383014			SPCC (0.1)	
1,1-Dichloropropylene	1.500138	8.970875	5.601889	3.581563E-02			20	
1,2,3-Trichlorobenzene	0.5024026	13.40812	14.50067	1.161718E-02			20	
1,2,3-Trichloropropane	0.2721515	19.58581	10.60856	1.860868E-02			20	
1,2,4,5-Tetramethylbenzene	2.171537	14.08746	12.91733	1.849116E-02			20	
1,2,4-Trichlorobenzene	0.7155606	14.38454	13.93633	1.469026E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	3.766292	10.61512	11.24856	1.482074E-02			20	
1,2-Dibromo-3-chloropropane	6.757007E-02	16.05485	13.01511	2.358468E-02			SPCC (0.05)	
1,2-Dibromoethane	0.1941031	12.86521	8.656222	2.053001E-02			SPCC (0.1)	
1,2-Dichlorobenzene	1.476554	6.569607	12.11467	5.392588E-03			SPCC (0.4)	
1,2-Dichloroethane	0.979386	8.104655	5.848333	4.288937E-02			SPCC (0.1)	
1,2-Dichloropropane	0.297572	19.75804	6.659	3.385458E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	4.084821	15.1931	10.82767	5.480995E-03			20	
1,3-Dichlorobenzene	1.939387	3.76557	11.58933	2.040625E-02			SPCC (0.6)	
1,3-Dichloropropane	0.3577397	16.06828	8.295	2.114933E-02			20	
1,4-Dichlorobenzene	1.886825	4.284794	11.69067	2.306883E-02			SPCC (0.5)	
1,4-Dioxane	1.191036E-03	6.369644	6.804444	0.1204345			20	
2,2-Dichloropropane	1.516816	12.1773	4.957375	3.626573E-02			20	
2-Butanone	7.314935E-02	11.69939	5.008444	0.2209259			SPCC (0.1)	
2-Chlorotoluene	4.324142	15.38121	10.75289	1.531181E-02			20	
2-Hexanone	0.0935935	6.792761	8.353222	3.719019E-02			SPCC (0.1)	*
4-Chlorotoluene	3.719106	13.96107	10.87267	0.0183429			20	
4-Methyl-2-pentanone	0.1466188	16.09342	7.506889	2.418238E-02			SPCC (0.1)	
Acetone	0.1474799	19.99228	3.277375	0.2904922			SPCC (0.1)	
Acrolein	8.028395E-02	18.65901	3.108667	0.3259931			20	
Acrylonitrile	0.1703321	18.91513	3.991125	0.2519634			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YK80009 Instrument: QVOA6

Calibration Date: 11/07/18 07:55

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	4.502457	6.14804	5.806556	2.657663E-02			SPCC (0.5)	
Bromobenzene	2.129855	15.29985	10.55	1.767243E-02			20	
Bromochloromethane	0.6229549	9.077138	5.219333	2.324854E-02			20	
Bromodichloromethane	0.3695632	21.46757	6.939	1.887354E-02			SPCC (0.2)	
Bromoform	0.1144713	8.088526	10.05667	1.188652E-02			SPCC (0.1)	
Bromomethane	0.3069142	28.32285	2.18975	0.1274719			SPCC (0.1)	
Carbon disulfide	2.426885	16.48448	3.399667	4.073899E-02			SPCC (0.1)	
Carbon tetrachloride	1.427124	10.2485	5.596333	5.211807E-02			SPCC (0.1)	
Chlorobenzene	0.8555771	5.622303	9.147333	3.245471E-02			SPCC (0.5)	
Chloroethane	0.6570108	9.533238	2.316	0.1403605			SPCC (0.1)	
Chloroform	1.859677	7.053993	5.292333	0.0324652			SPCC (0.2)	
Chloromethane	0.4584297	15.03622	1.728111	0.1766487			SPCC (0.1)	
cis-1,2-Dichloroethylene	1.617579	10.25514	4.978778	2.997021E-02			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.4671364	19.54091	7.368778	2.593297E-02			SPCC (0.2)	
Cyclohexane	1.676809	12.46246	5.474667	5.795297E-02			SPCC (0.1)	
Dibromochloromethane	0.2516527	19.87697	8.535667	2.098617E-02			SPCC (0.1)	
Dibromomethane	0.1391445	20.04867	6.792667	1.189434E-02			20	*
Dichlorodifluoromethane	0.6312775	13.93437	1.488222	0.1082978			SPCC (0.1)	
Ethyl Benzene	1.383528	6.290881	9.241445	3.097664E-02			SPCC (0.1)	
Hexachlorobutadiene	0.1826726	18.94927	14.10333	1.692223E-02			20	
Isopropylbenzene	6.626127	17.63552	10.184	8.615935E-03			SPCC (0.1)	
Methyl acetate	0.3267957	11.33106	3.610556	0.2500879			SPCC (0.1)	
Methyl tert-butyl ether (MTBE)	2.448378	6.629871	3.960222	0.1059878			SPCC (0.1)	
Methylcyclohexane	0.4942958	25.70785	6.583222	1.316392E-02			SPCC (0.1)	
Methylene chloride	1.008705	7.726872	3.711111	1.820487E-02			SPCC (0.1)	
Naphthalene	1.186019	9.665784	14.22238	1.082067E-02			20	
n-Butylbenzene	2.645104	9.646301	12.05767	1.964516E-02			20	
n-Propylbenzene	6.428372	17.12156	10.63689	1.392633E-02			20	
o-Xylene	0.9498105	8.186411	9.795444	2.449985E-02			SPCC (0.3)	
p- & m- Xylenes	0.9733882	9.143924	9.365	4.432553E-02			SPCC (0.1)	
p-Diethylbenzene	1.366283	8.300392	12.02878	1.996745E-02			20	
p-Ethyltoluene	4.978254	17.75616	10.76056	1.556319E-02			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YK80009
Instrument: QVOA6
Calibration Date: 11/07/18 07:55

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
p-Isopropyltoluene	3.347342	8.31033	11.59411	1.720855E-02			20	
sec-Butylbenzene	3.945398	13.91614	11.43233	2.027449E-02			20	
Styrene	0.7489434	7.89383	9.818778	1.416208E-02			SPCC (0.3)	
SURR: 1,2-Dichloroethane-d4	0.9428506	4.330154	5.775	5.624857E-02			20	
SURR: p-Bromofluorobenzene	1.973695	20.80303	10.38133	0.01585			20	*
SURR: Toluene-d8	1.480128	11.51052	7.616667	2.658442E-02			20	
tert-Butyl alcohol (TBA)	6.241242E-02	10.76959	3.860889	0.2467904			20	
tert-Butylbenzene	3.356285	16.68499	11.18844	2.242986E-02			20	
Tetrachloroethylene	0.4430147	18.83432	8.238667	2.663255E-02			SPCC (0.2)	
Toluene	1.436652	13.16403	7.684889	3.678507E-02			SPCC (0.4)	
trans-1,2-Dichloroethylene	1.412705	10.02334	3.972667	3.171626E-02			SPCC (0.1)	
trans-1,3-Dichloropropylene	0.3725824	20.71088	7.931445	1.882835E-02			SPCC (0.1)	
trans-1,4-dichloro-2-butene	0.9978131	17.44499	10.611	2.408121E-02			20	
Trichloroethylene	0.3343918	21.14182	6.428	1.620482E-02			SPCC (0.2)	
Trichlorofluoromethane	1.30153	15.04939	2.598889	5.245534E-02			SPCC (0.1)	
Vinyl acetate	2.175886	7.489333	4.444333	6.514975E-02			20	
Vinyl Chloride	1.017593	10.12154	1.816667	0.0716771			SPCC (0.1)	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611397.D
Acq On : 7 Nov 2018 8:49 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL1
Misc : QBQV6110618A CAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 08 09:41:09 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:24:07 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.073	70	194108	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	733211	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	122472	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.772	65	198698	10.29	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 102.90%				
51) Toluene-d8 (SURR)	7.614	98	1021623	10.16	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 101.60%				
70) p-Bromofluorobenzene (...	10.380	95	252101m	9.94	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 99.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.485	85	5338	0.13	ppb	#	1
3) Chloromethane	1.730	50	4908m	0.10	ppb		
4) Vinyl Chloride	1.816	62	11141	0.18	ppb	#	51
6) Chloroethane	2.314	64	7167	0.18	ppb		89
7) Trichlorofluoromethane	2.598	101	14260	0.20	ppb		97
8) Ethanol	2.959	45	1935m	6.65	ppb		
9) Freon-113	3.160	101	9142	0.19	ppb	#	48
10) 1,1-Dichloroethylene	3.171	61	15801	0.20	ppb	#	85
11) Acrolein	3.132	56	777m	0.17	ppb		
12) Acetone	3.307	43	2658m	0.27	ppb		
14) Methyl Acetate	3.627	43	2748	0.13	ppb		99
15) Carbon disulfide	3.399	76	32701	0.25	ppb		100
16) tert-Butyl Alcohol (TBA)	3.877	59	507m	0.14	ppb		
17) Methylene Chloride	3.711	49	10326	0.17	ppb	#	58
19) trans-1,2-Dichloroethy...	3.972	61	15985	0.21	ppb		93
20) tert-Butyl Methyl Ethe...	3.969	73	22708	0.17	ppb	#	88
21) 1,1-Dichloroethane	4.406	63	19521	0.19	ppb		98
22) Vinyl Acetate	4.442	43	19095	0.15	ppb		100
23) Diisopropyl ether (DIPE)	4.437	45	28729	0.17	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.793	59	28167	0.17	ppb	#	85
25) cis-1,2-Dichloroethylene	4.979	61	18455	0.20	ppb		90
26) 2-Butanone	5.032	72	538m	0.13	ppb		
27) 2,2-Dichloropropane	4.954	77	17481	0.24	ppb	#	56
28) Tetrahydrofuran	5.288	42	1565m	0.17	ppb		
29) Bromochloromethane	5.221	49	6465	0.16	ppb	#	70
30) Chloroform	5.291	83	20302	0.20	ppb	#	94
31) 1,1,1-Trichloroethane	5.441	97	17255	0.20	ppb	#	72
32) Cyclohexane	5.469	56	16865	0.19	ppb	#	76
33) 1,1-Dichloropropylene	5.602	75	16181	0.20	ppb	#	78
35) Carbon Tetrachloride	5.591	117	14462	0.19	ppb	#	55
36) tert-Amyl alcohol (TAA)	5.836	59	4636m	1.35	ppb		
37) 1,2-Dichloroethane	5.847	62	9255	0.16	ppb		98
38) Benzene	5.806	78	49022	0.22	ppb	#	8
39) tert-Amyl methyl ether...	5.892	73	25911	0.17	ppb	#	100
41) Trichloroethylene	6.429	95	13394	0.22	ppb		97
42) Methyl Cyclohexane	6.585	83	17003	0.23	ppb	#	74
43) Methyl Methacrylate	6.754	69	4287	0.15	ppb		67
44) Dibromomethane	6.793	93	4733	0.17	ppb		96
45) Bromodichloromethane	6.938	83	12089	0.17	ppb	#	93
46) 1,2-Dichloropropane	6.657	63	10650	0.18	ppb	#	99
47) 1,4-Dioxane	6.818	88	836m	3.01	ppb		
48) 2-Chloroethyl vinyl ether	7.216	63	1428	0.12	ppb	#	92
49) cis-1,3-Dichloropropene	7.369	75	15237	0.17	ppb	#	78

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611397.D
Acq On : 7 Nov 2018 8:49 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL1
Misc : QBQV6110618A CAL
ALS Vial : 3 Sample Multiplier: 1

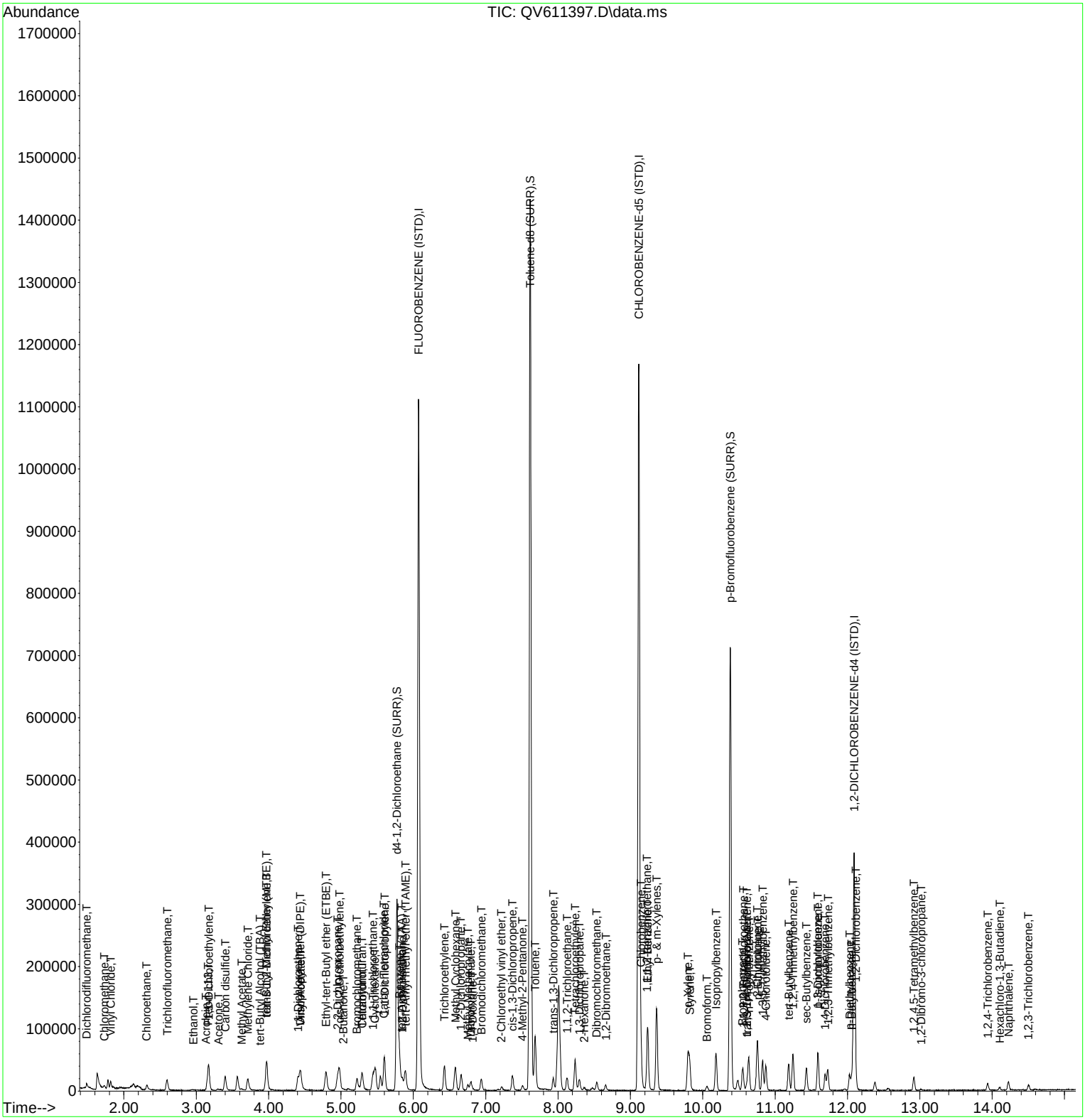
Quant Time: Nov 08 09:41:09 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:24:07 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 4-Methyl-2-Pentanone	7.508	43	5272	0.16	ppb	#	81
52) Toluene	7.684	91	63630	0.26	ppb		99
53) trans-1,3-Dichloropropene	7.934	75	11365	0.15	ppb	#	91
54) 1,1,2-Trichloroethane	8.123	97	7348	0.18	ppb	#	87
55) 1,3-Dichloropropane	8.296	76	11897	0.17	ppb	#	75
56) Tetrachloroethylene	8.237	166	16745	0.21	ppb	#	77
57) 2-Hexanone	8.360	43	3262	0.16	ppb	#	83
58) Dibromochloromethane	8.532	129	7358	0.15	ppb	#	94
59) 1,2-Dibromoethane	8.660	107	6329	0.16	ppb		95
60) Chlorobenzene	9.144	112	33456	0.21	ppb	#	73
61) 1,1,1,2-tetrachloroethane	9.230	131	9991	0.17	ppb	#	70
62) Ethyl Benzene	9.239	91	57881	0.24	ppb		99
63) p- & m-Xylenes	9.361	91	83499	0.51	ppb		98
64) o-Xylene	9.795	91	37513	0.20	ppb		99
65) Styrene	9.820	104	27270	0.18	ppb		96
66) Bromoform	10.057	173	3687	0.15	ppb	#	82
68) p-Ethyltoluene	10.761	105	35676	0.23	ppb	#	55
69) Isopropylbenzene	10.185	105	46260	0.24	ppb		98
71) 1,1,2,2-Tetrachloroethane	10.560	83	5611	0.18	ppb	#	99
72) Bromobenzene	10.546	77	13376	0.18	ppb	#	85
73) trans-1,4-Dichloro-2-b...	10.608	75	5964	0.17	ppb	#	62
74) 1,2,3-Trichloropropane	10.608	110	1698	0.19	ppb	#	17
75) n-Propylbenzene	10.636	91	45302	0.24	ppb		98
76) 2-Chlorotoluene	10.752	91	29506	0.21	ppb		99
77) 4-Chlorotoluene	10.869	91	24575	0.20	ppb		100
78) 1,3,5-Trimethylbenzene	10.828	105	28725	0.22	ppb		96
79) tert-Butylbenzene	11.186	119	24920	0.24	ppb		99
80) 1,2,4-Trimethylbenzene	11.248	105	26058	0.22	ppb		99
81) sec-Butylbenzene	11.431	105	28980	0.25	ppb		98
82) 1,3-Dichlorobenzene	11.590	146	12334	0.20	ppb		97
83) p-Isopropyltoluene	11.593	119	22486	0.23	ppb		96
84) 1,4-Dichlorobenzene	11.690	146	12365	0.21	ppb		99
85) 1,2,3-Trimethylbenzene	11.729	105	21406	0.23	ppb		99
86) p-Diethylbenzene	12.029	105	8427	0.21	ppb	#	94
87) 1,2-Dichlorobenzene	12.113	146	9035	0.20	ppb	#	86
88) n-Butylbenzene	12.057	91	17868	0.23	ppb		96
89) 1,2-Dibromo-3-chloropr...	13.020	75	327m	0.16	ppb		
90) 1,2,4,5-Tetramethylben...	12.917	119	13121	0.21	ppb		99
91) 1,2,4-Trichlorobenzene	13.938	180	4217	0.23	ppb		97
92) Hexachloro-1,3-Butadiene	14.105	225	1183m	0.24	ppb		
93) Naphthalene	14.225	128	12754	0.42	ppb		98
94) 1,2,3-Trichlorobenzene	14.500	180	3336	0.29	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611397.D
Acq On : 7 Nov 2018 8:49 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL1
Misc : QBQV6110618A CAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 08 09:41:09 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:24:07 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611398.D
Acq On : 7 Nov 2018 9:15 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL2
Misc : QBQV6110618A CAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 09:22:08 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:24:07 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.073	70	188848	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	745484	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.091	152	126804	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.775	65	179207	9.54	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 95.40%				
51) Toluene-d8 (SURR)	7.617	98	1045802	10.23	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 102.30%				
70) p-Bromofluorobenzene (...	10.382	95	279731m	10.66	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 106.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.490	85	21586	0.53	ppb	#	1
3) Chloromethane	1.735	50	15367	0.33	ppb	#	38
4) Vinyl Chloride	1.816	62	39973	0.67	ppb	#	50
5) Bromomethane	2.191	94	6628	0.23	ppb		69
6) Chloroethane	2.319	64	26307	0.70	ppb		91
7) Trichlorofluoromethane	2.598	101	62397	0.90	ppb		98
8) Ethanol	2.912	45	6648m	23.48	ppb		
9) Freon-113	3.162	101	40201	0.85	ppb	#	69
10) 1,1-Dichloroethylene	3.171	61	60073	0.79	ppb		84
11) Acrolein	3.115	56	2744m	0.62	ppb		
12) Acetone	3.293	43	8061	0.86	ppb	#	95
14) Methyl Acetate	3.622	43	11966	0.59	ppb	#	97
15) Carbon disulfide	3.399	76	99159	0.79	ppb		100
16) tert-Butyl Alcohol (TBA)	3.875	59	2580	0.72	ppb	#	1
17) Methylene Chloride	3.711	49	40004	0.66	ppb	#	62
18) Acrylonitrile	4.008	53	5367m	0.57	ppb		
19) trans-1,2-Dichloroethy...	3.975	61	55538	0.73	ppb	#	74
20) tert-Butyl Methyl Ethe...	3.964	73	96259	0.73	ppb	#	97
21) 1,1-Dichloroethane	4.406	63	73907	0.72	ppb		99
22) Vinyl Acetate	4.442	43	84571	0.67	ppb	#	100
23) Diisopropyl ether (DIPE)	4.439	45	113793	0.70	ppb	#	95
24) Ethyl-tert-Butyl ether...	4.790	59	114891	0.72	ppb	#	85
25) cis-1,2-Dichloroethylene	4.982	61	65767	0.73	ppb	#	73
26) 2-Butanone	5.018	72	2674m	0.64	ppb		
27) 2,2-Dichloropropane	4.957	77	63873	0.89	ppb	#	77
28) Tetrahydrofuran	5.283	42	5939m	0.65	ppb		
29) Bromochloromethane	5.219	49	26287	0.69	ppb	#	65
30) Chloroform	5.291	83	73177	0.74	ppb	#	84
31) 1,1,1-Trichloroethane	5.444	97	63352	0.75	ppb	#	82
32) Cyclohexane	5.474	56	70202	0.82	ppb	#	76
33) 1,1-Dichloropropylene	5.600	75	57457	0.73	ppb	#	82
35) Carbon Tetrachloride	5.597	117	55030	0.76	ppb	#	55
36) tert-Amyl alcohol (TAA)	5.828	59	20520	6.13	ppb	#	78
37) 1,2-Dichloroethane	5.847	62	34702	0.62	ppb	#	99
38) Benzene	5.806	78	172013	0.78	ppb	#	69
39) tert-Amyl methyl ether...	5.886	73	101468	0.69	ppb	#	90
41) Trichloroethylene	6.429	95	46009	0.73	ppb		98
42) Methyl Cyclohexane	6.582	83	74981	0.98	ppb	#	75
43) Methyl Methacrylate	6.752	69	18960	0.65	ppb	#	63
44) Dibromomethane	6.793	93	18984	0.68	ppb		95
45) Bromodichloromethane	6.941	83	49734	0.67	ppb	#	94
46) 1,2-Dichloropropane	6.657	63	41243	0.67	ppb	#	100
47) 1,4-Dioxane	6.816	88	3520	12.46	ppb		99

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611398.D
Acq On : 7 Nov 2018 9:15 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL2
Misc : QBQV6110618A CAL
ALS Vial : 4 Sample Multiplier: 1

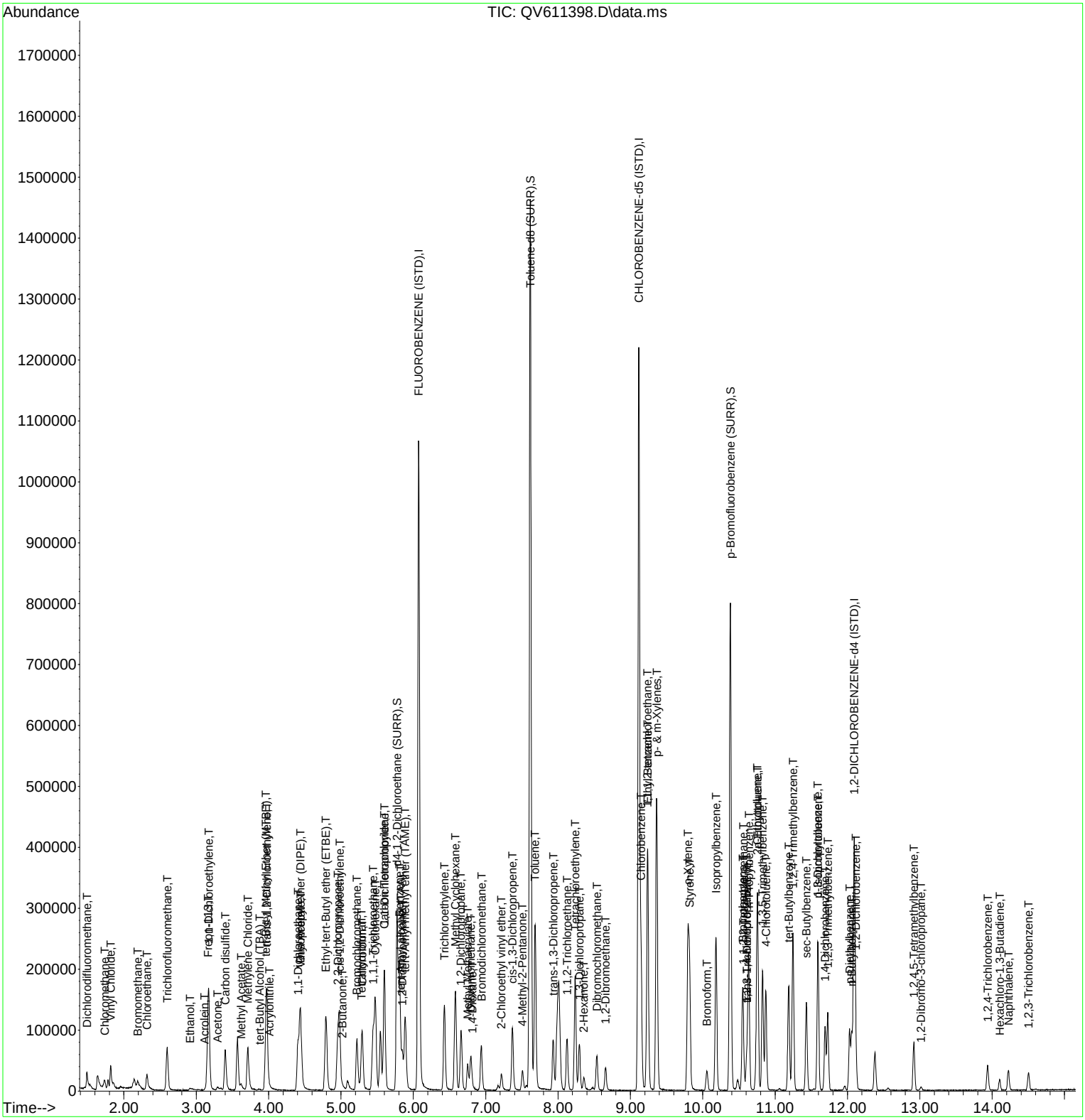
Quant Time: Nov 08 09:22:08 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:24:07 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Chloroethyl vinyl ether	7.216	63	12453	1.05	ppb	#	92
49) cis-1,3-Dichloropropene	7.369	75	63363	0.69	ppb	#	76
50) 4-Methyl-2-Pentanone	7.508	43	21292	0.65	ppb	#	77
52) Toluene	7.681	91	211780	0.87	ppb		100
53) trans-1,3-Dichloropropene	7.934	75	50155	0.67	ppb	#	92
54) 1,1,2-Trichloroethane	8.123	97	29423	0.69	ppb		91
55) 1,3-Dichloropropane	8.296	76	49731	0.69	ppb	#	83
56) Tetrachloroethylene	8.237	166	61524	0.78	ppb	#	100
57) 2-Hexanone	8.354	43	14497	0.69	ppb	#	83
58) Dibromochloromethane	8.538	129	32454	0.64	ppb	#	96
59) 1,2-Dibromoethane	8.655	107	27468	0.69	ppb		98
60) Chlorobenzene	9.144	112	126071	0.77	ppb	#	89
61) 1,1,1,2-tetrachloroethane	9.236	131	41035	0.68	ppb		97
62) Ethyl Benzene	9.239	91	211740	0.86	ppb		100
63) p- & m-Xylenes	9.364	91	301172	1.80	ppb		99
64) o-Xylene	9.795	91	148670	0.77	ppb		100
65) Styrene	9.818	104	116081	0.73	ppb		98
66) Bromoform	10.057	173	17055	0.66	ppb	#	80
68) p-Ethyltoluene	10.758	105	140806m	0.88	ppb		
69) Isopropylbenzene	10.185	105	187135	0.92	ppb		98
71) 1,1,2,2-Tetrachloroethane	10.560	83	26522	0.82	ppb	#	99
72) Bromobenzene	10.552	77	59727	0.79	ppb	#	90
73) trans-1,4-Dichloro-2-b...	10.608	75	29456	0.83	ppb	#	66
74) 1,2,3-Trichloropropane	10.608	110	8193	0.88	ppb	#	42
75) n-Propylbenzene	10.636	91	184850	0.93	ppb		98
76) 2-Chlorotoluene	10.752	91	121644	0.84	ppb		100
77) 4-Chlorotoluene	10.872	91	103704	0.82	ppb		100
78) 1,3,5-Trimethylbenzene	10.825	105	118471	0.89	ppb		99
79) tert-Butylbenzene	11.186	119	98641	0.93	ppb		98
80) 1,2,4-Trimethylbenzene	11.248	105	105240	0.86	ppb		99
81) sec-Butylbenzene	11.431	105	114407	0.95	ppb		98
82) 1,3-Dichlorobenzene	11.590	146	50832	0.81	ppb		98
83) p-Isopropyltoluene	11.593	119	93725	0.91	ppb		98
84) 1,4-Dichlorobenzene	11.690	146	48300	0.79	ppb		97
85) 1,2,3-Trimethylbenzene	11.726	105	79212	0.83	ppb		99
86) p-Diethylbenzene	12.029	105	35197	0.83	ppb	#	99
87) 1,2-Dichlorobenzene	12.113	146	36328	0.79	ppb		99
88) n-Butylbenzene	12.057	91	67753	0.85	ppb		98
89) 1,2-Dibromo-3-chloropr...	13.014	75	1610	0.74	ppb		97
90) 1,2,4,5-Tetramethylben...	12.917	119	48709	0.74	ppb		99
91) 1,2,4-Trichlorobenzene	13.941	180	16104	0.86	ppb		97
92) Hexachloro-1,3-Butadiene	14.105	225	4237	0.82	ppb		94
93) Naphthalene	14.225	128	30501	0.97	ppb		95
94) 1,2,3-Trichlorobenzene	14.503	180	11458	0.95	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611398.D
Acq On : 7 Nov 2018 9:15 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL2
Misc : QBQV6110618A CAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 09:22:08 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:24:07 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611400.D
Acq On : 7 Nov 2018 10:08 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL3
Misc : QBQV6110618A CAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 08 09:40:34 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:34:28 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.073	70	193572	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	737875	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	123851	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.775	65	187124	9.81	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 98.10%				
51) Toluene-d8 (SURR)	7.617	98	1034294	10.18	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 101.80%				
70) p-Bromofluorobenzene (...	10.379	95	273278m	10.62	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 106.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.490	85	43847	1.15	ppb	#	1
3) Chloromethane	1.729	50	32447	0.76	ppb	#	41
4) Vinyl Chloride	1.819	62	70582	1.25	ppb	#	47
5) Bromomethane	2.189	94	15278	0.56	ppb		65
6) Chloroethane	2.317	64	44235	1.24	ppb		90
7) Trichlorofluoromethane	2.598	101	82525	1.26	ppb		97
8) Ethanol	2.898	45	12958m	47.56	ppb		
9) Freon-113	3.162	101	53732	1.19	ppb		97
10) 1,1-Dichloroethylene	3.171	61	88047	1.22	ppb	#	86
11) Acrolein	3.109	56	4533	1.02	ppb	#	83
12) Acetone	3.290	43	10720	1.28	ppb	#	92
13) Iodomethane	3.340	142	10190	0.22	ppb		95
14) Methyl Acetate	3.616	43	20896m	1.08	ppb		
15) Carbon disulfide	3.399	76	158080	1.33	ppb		100
16) tert-Butyl Alcohol (TBA)	3.861	59	4300m	1.24	ppb		
17) Methylene Chloride	3.713	49	67157	1.18	ppb	#	55
18) Acrylonitrile	4.005	53	9548m	1.04	ppb		
19) trans-1,2-Dichloroethy...	3.972	61	91193	1.27	ppb		92
20) tert-Butyl Methyl Ethe...	3.961	73	168216	1.35	ppb	#	88
21) 1,1-Dichloroethane	4.406	63	134079	1.39	ppb		98
22) Vinyl Acetate	4.451	43	167804	1.41	ppb	#	100
23) Diisopropyl ether (DIPE)	4.437	45	218905	1.44	ppb	#	95
24) Ethyl-tert-Butyl ether...	4.790	59	221944	1.48	ppb	#	95
25) cis-1,2-Dichloroethylene	4.979	61	119103	1.41	ppb		91
26) 2-Butanone	5.013	72	5620m	1.42	ppb		
27) 2,2-Dichloropropane	4.957	77	106965	1.56	ppb	#	65
28) Tetrahydrofuran	5.271	42	11773m	1.39	ppb		
29) Bromochloromethane	5.218	49	49702	1.38	ppb	#	72
30) Chloroform	5.294	83	134390	1.43	ppb	#	93
31) 1,1,1-Trichloroethane	5.444	97	112681	1.40	ppb		96
32) Cyclohexane	5.472	56	103106	1.26	ppb	#	77
33) 1,1-Dichloropropylene	5.602	75	101939	1.36	ppb	#	80
35) Carbon Tetrachloride	5.594	117	92762	1.34	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.825	59	41496	12.99	ppb	#	78
37) 1,2-Dichloroethane	5.847	62	72944	1.38	ppb	#	98
38) Benzene	5.805	78	327426	1.59	ppb	#	88
39) tert-Amyl methyl ether...	5.886	73	204947	1.48	ppb	#	90
41) Trichloroethylene	6.429	95	82637	1.42	ppb		99
42) Methyl Cyclohexane	6.582	83	104462	1.47	ppb	#	75
43) Methyl Methacrylate	6.751	69	36361	1.36	ppb	#	60
44) Dibromomethane	6.793	93	36380	1.42	ppb		95
45) Bromodichloromethane	6.941	83	93326	1.38	ppb	#	93
46) 1,2-Dichloropropane	6.657	63	77075	1.37	ppb	#	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611400.D
Acq On : 7 Nov 2018 10:08 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL3
Misc : QBQV6110618A CAL
ALS Vial : 6 Sample Multiplier: 1

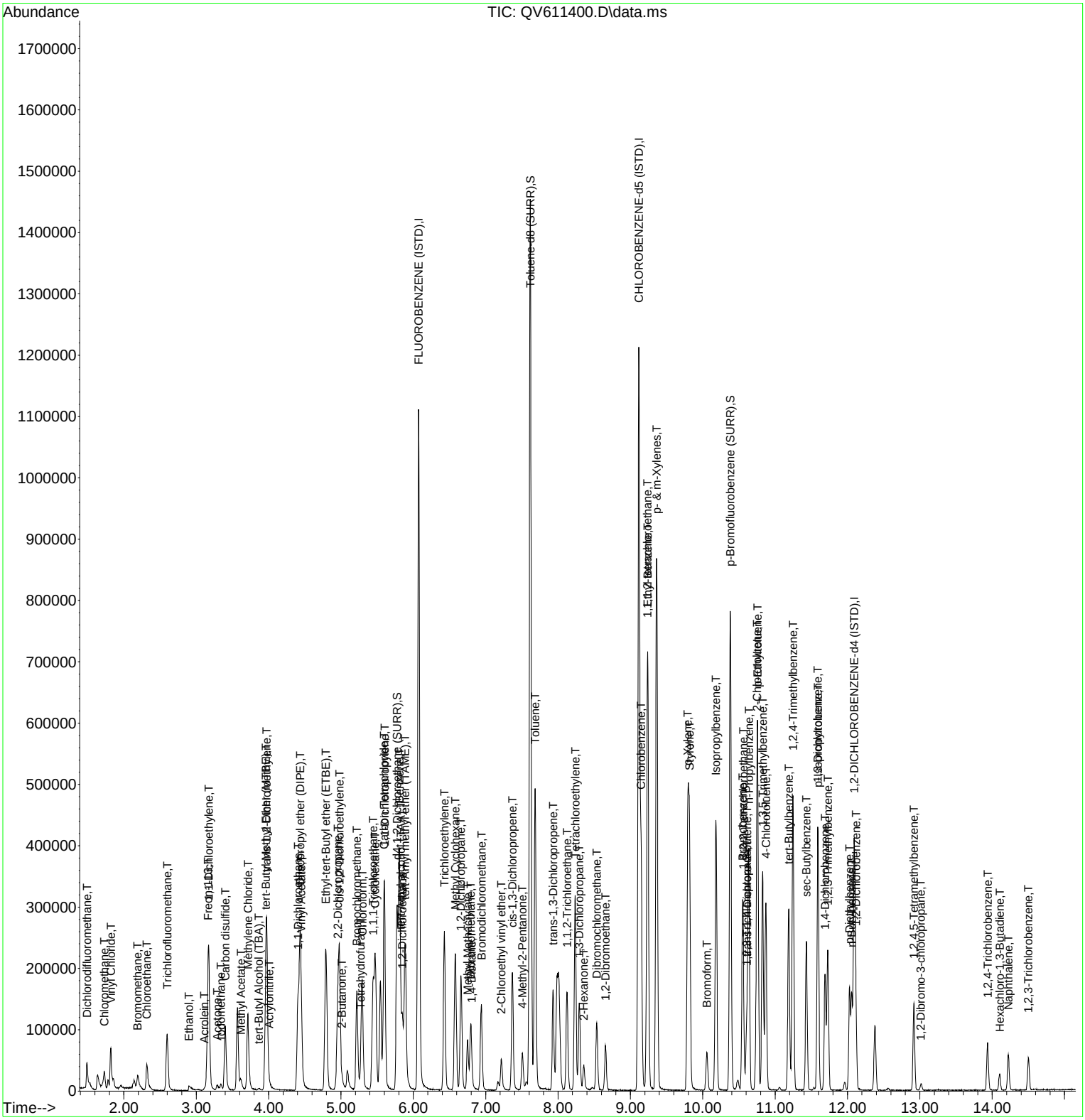
Quant Time: Nov 08 09:40:34 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:34:28 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 1,4-Dioxane	6.807	88	7461	29.10	ppb	#	88
48) 2-Chloroethyl vinyl ether	7.216	63	23394	2.17	ppb	#	92
49) cis-1,3-Dichloropropene	7.369	75	119820	1.42	ppb	#	76
50) 4-Methyl-2-Pentanone	7.508	43	38076	1.28	ppb	#	73
52) Toluene	7.683	91	379999	1.73	ppb		100
53) trans-1,3-Dichloropropene	7.931	75	95610	1.39	ppb	#	92
54) 1,1,2-Trichloroethane	8.123	97	56002	1.44	ppb		89
55) 1,3-Dichloropropane	8.293	76	93657	1.41	ppb	#	75
56) Tetrachloroethylene	8.240	166	105388	1.45	ppb	#	77
57) 2-Hexanone	8.354	43	26791	1.40	ppb	#	83
58) Dibromochloromethane	8.535	129	62872	1.36	ppb		96
59) 1,2-Dibromoethane	8.654	107	52325	1.44	ppb		99
60) Chlorobenzene	9.147	112	235251	1.58	ppb	#	90
61) 1,1,1,2-tetrachloroethane	9.236	131	78700	1.43	ppb		98
62) Ethyl Benzene	9.239	91	384923	1.73	ppb		100
63) p- & m-Xylenes	9.361	91	547298	3.66	ppb		99
64) o-Xylene	9.792	91	276851	1.58	ppb		100
65) Styrene	9.817	104	221724	1.54	ppb		98
66) Bromoform	10.057	173	33220	1.41	ppb		99
68) p-Ethyltoluene	10.758	105	254304	1.76	ppb	#	82
69) Isopropylbenzene	10.182	105	332652	1.82	ppb		98
71) 1,1,2,2-Tetrachloroethane	10.558	83	49246	1.67	ppb	#	99
72) Bromobenzene	10.549	77	111939	1.63	ppb	#	90
73) trans-1,4-Dichloro-2-b...	10.610	75	52954	1.64	ppb	#	68
74) 1,2,3-Trichloropropane	10.608	110	15124	1.79	ppb	#	53
75) n-Propylbenzene	10.635	91	324656	1.81	ppb		98
76) 2-Chlorotoluene	10.750	91	222572	1.70	ppb		100
77) 4-Chlorotoluene	10.872	91	192563	1.69	ppb		100
78) 1,3,5-Trimethylbenzene	10.827	105	215707	1.81	ppb		99
79) tert-Butylbenzene	11.189	119	172027	1.80	ppb		98
80) 1,2,4-Trimethylbenzene	11.248	105	191859	1.74	ppb		99
81) sec-Butylbenzene	11.431	105	192696	1.77	ppb		98
82) 1,3-Dichlorobenzene	11.590	146	94389	1.66	ppb		98
83) p-Isopropyltoluene	11.593	119	159321	1.71	ppb		98
84) 1,4-Dichlorobenzene	11.690	146	90874	1.64	ppb		98
85) 1,2,3-Trimethylbenzene	11.726	105	149112	1.73	ppb		98
86) p-Diethylbenzene	12.027	105	59595	1.55	ppb	#	97
87) 1,2-Dichlorobenzene	12.116	146	67649	1.61	ppb	#	73
88) n-Butylbenzene	12.057	91	112621	1.55	ppb		98
89) 1,2-Dibromo-3-chloropr...	13.011	75	2825	1.46	ppb		94
90) 1,2,4,5-Tetramethylben...	12.917	119	86624	1.44	ppb		99
91) 1,2,4-Trichlorobenzene	13.935	180	29186	1.68	ppb		97
92) Hexachloro-1,3-Butadiene	14.108	225	6480	1.37	ppb		93
93) Naphthalene	14.222	128	52571	1.85	ppb		99
94) 1,2,3-Trichlorobenzene	14.500	180	20100	1.79	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611400.D
Acq On : 7 Nov 2018 10:08 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL3
Misc : QBQV6110618A CAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 08 09:40:34 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:34:28 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611402.D
Acq On : 7 Nov 2018 11:01 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL4
Misc : QBQV6110618A CAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 08 09:33:09 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:37:54 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.073	70	198716m	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	715563	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	123714	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.772	65	186981	9.65	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 96.50%				
51) Toluene-d8 (SURR)	7.617	98	1030597	10.36	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 103.60%				
70) p-Bromofluorobenzene (...	10.382	95	282456m	10.84	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 108.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.488	85	128029	4.03	ppb	#	1
3) Chloromethane	1.727	50	81077	2.45	ppb	#	42
4) Vinyl Chloride	1.816	62	184018	3.96	ppb	#	47
5) Bromomethane	2.191	94	48015	2.21	ppb		65
6) Chloroethane	2.319	64	119945	4.09	ppb		89
7) Trichlorofluoromethane	2.598	101	271964	4.90	ppb		98
8) Ethanol	2.887	45	39982m	173.04	ppb		
9) Freon-113	3.160	101	196664	5.08	ppb		98
10) 1,1-Dichloroethylene	3.171	61	275761	4.56	ppb		82
11) Acrolein	3.110	56	12544	3.37	ppb	#	84
12) Acetone	3.279	43	31794	4.82	ppb	#	93
13) Iodomethane	3.343	142	52953	1.45	ppb		96
14) Methyl Acetate	3.608	43	67379	4.28	ppb	#	96
15) Carbon disulfide	3.399	76	442068	4.49	ppb		100
16) tert-Butyl Alcohol (TBA)	3.864	59	11766	4.05	ppb	#	1
17) Methylene Chloride	3.711	49	192524	4.18	ppb	#	60
18) Acrylonitrile	3.992	53	28313m	3.69	ppb		
19) trans-1,2-Dichloroethy...	3.972	61	259541	4.36	ppb		93
20) tert-Butyl Methyl Ethe...	3.961	73	469458	4.59	ppb	#	97
21) 1,1-Dichloroethane	4.406	63	351525	4.42	ppb		99
22) Vinyl Acetate	4.445	43	423425	4.36	ppb	#	100
23) Diisopropyl ether (DIPE)	4.434	45	565180	4.62	ppb	#	95
24) Ethyl-tert-Butyl ether...	4.790	59	577135	4.75	ppb	#	85
25) cis-1,2-Dichloroethylene	4.979	61	303602	4.34	ppb		90
26) 2-Butanone	5.007	72	14510m	4.32	ppb		
27) 2,2-Dichloropropane	4.960	77	285442	4.89	ppb	#	85
28) Tetrahydrofuran	5.269	42	28760m	4.04	ppb		
29) Bromochloromethane	5.218	49	125972	4.30	ppb	#	73
30) Chloroform	5.294	83	344497	4.44	ppb	#	84
31) 1,1,1-Trichloroethane	5.441	97	309763	4.54	ppb		96
32) Cyclohexane	5.474	56	355837	5.08	ppb	#	77
33) 1,1-Dichloropropylene	5.600	75	282243	4.43	ppb	#	83
35) Carbon Tetrachloride	5.597	117	271278	4.58	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.825	59	111495	42.03	ppb		91
37) 1,2-Dichloroethane	5.847	62	193313	4.39	ppb		99
38) Benzene	5.806	78	843997	5.11	ppb	#	86
39) tert-Amyl methyl ether...	5.886	73	536096	4.76	ppb	#	90
41) Trichloroethylene	6.426	95	217234	4.65	ppb		98
42) Methyl Cyclohexane	6.582	83	372571	6.22	ppb	#	74
43) Methyl Methacrylate	6.749	69	94794	4.49	ppb		70
44) Dibromomethane	6.790	93	94102	4.64	ppb		95
45) Bromodichloromethane	6.938	83	249108	4.66	ppb	#	93
46) 1,2-Dichloropropane	6.660	63	200667	4.54	ppb	#	83

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611402.D
Acq On : 7 Nov 2018 11:01 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL4
Misc : QBQV6110618A CAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 08 09:33:09 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:37:54 2018
Response via : Initial Calibration

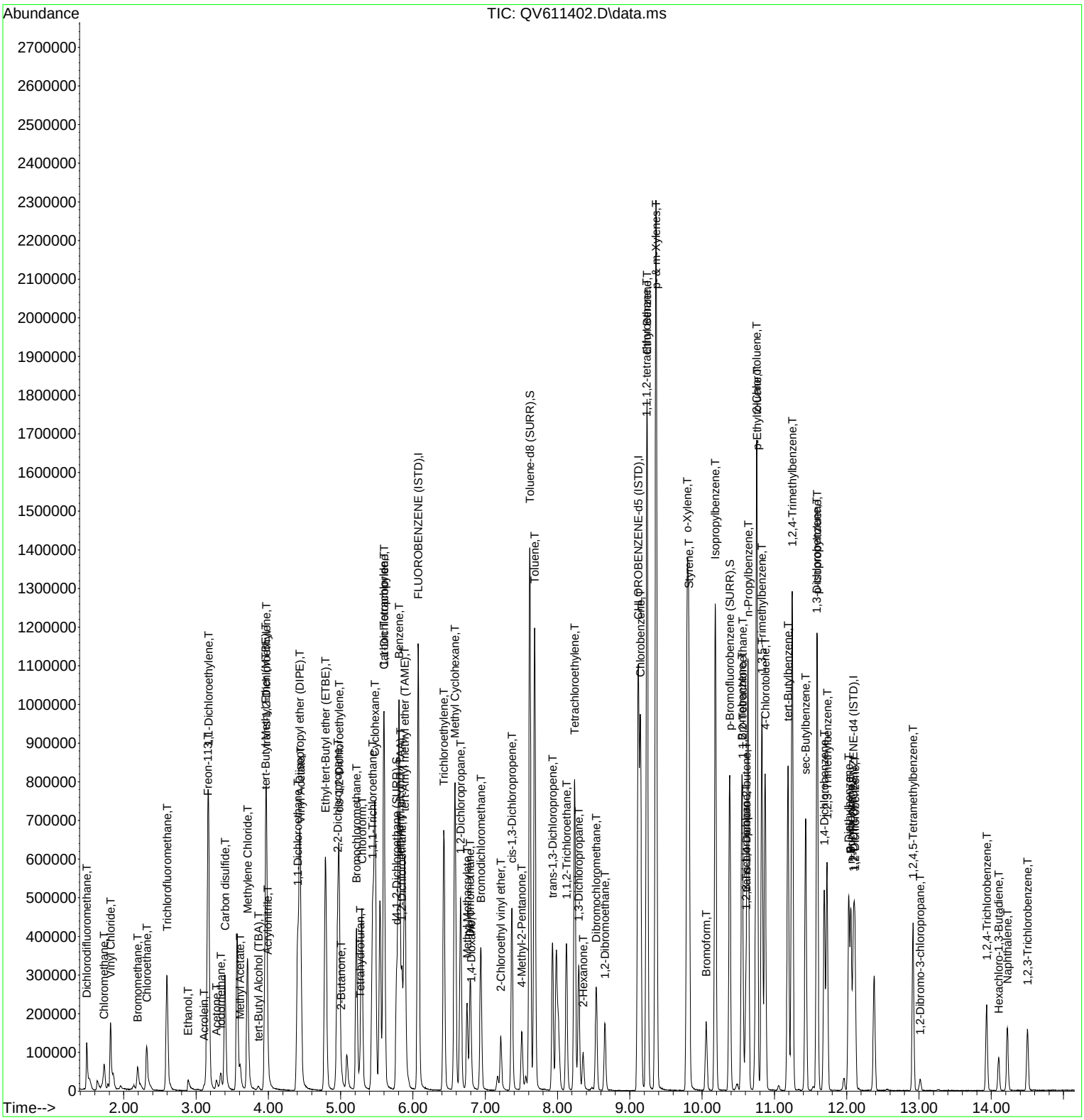
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 1,4-Dioxane	6.807	88	18177	92.43	ppb	#	89
48) 2-Chloroethyl vinyl ether	7.216	63	60357	7.26	ppb	#	93
49) cis-1,3-Dichloropropene	7.369	75	295646	4.44	ppb	#	73
50) 4-Methyl-2-Pentanone	7.505	43	96616	4.17	ppb	#	75
52) Toluene	7.684	91	944507	5.63	ppb		100
53) trans-1,3-Dichloropropene	7.931	75	227778	4.19	ppb	#	92
54) 1,1,2-Trichloroethane	8.123	97	133703	4.32	ppb		88
55) 1,3-Dichloropropane	8.293	76	221100	4.23	ppb	#	73
56) Tetrachloroethylene	8.237	166	281784	4.80	ppb	#	100
57) 2-Hexanone	8.354	43	59444	3.94	ppb	#	80
58) Dibromochloromethane	8.535	129	159780	4.33	ppb	#	97
59) 1,2-Dibromoethane	8.655	107	126423	4.39	ppb		97
60) Chlorobenzene	9.147	112	585729	5.08	ppb	#	90
61) 1,1,1,2-tetrachloroethane	9.233	131	198025	4.52	ppb		97
62) Ethyl Benzene	9.239	91	967398	5.70	ppb		99
63) p- & m-Xylenes	9.361	91	1435501	12.88	ppb		99
64) o-Xylene	9.795	91	738727	5.48	ppb		100
65) Styrene	9.818	104	594622	5.36	ppb		98
66) Bromoform	10.057	173	90872	4.94	ppb	#	80
68) p-Ethyltoluene	10.761	105	742535m	6.33	ppb		
69) Isopropylbenzene	10.182	105	921318	6.10	ppb		98
71) 1,1,2,2-Tetrachloroethane	10.558	83	130865	5.45	ppb	#	100
72) Bromobenzene	10.549	77	297164	5.30	ppb	#	89
73) trans-1,4-Dichloro-2-b...	10.610	75	144394	5.50	ppb	#	67
74) 1,2,3-Trichloropropane	10.608	110	39187	5.67	ppb		94
75) n-Propylbenzene	10.636	91	913420	6.22	ppb		98
76) 2-Chlorotoluene	10.752	91	608986	5.73	ppb		100
77) 4-Chlorotoluene	10.872	91	523173	5.66	ppb		100
78) 1,3,5-Trimethylbenzene	10.825	105	580285	6.02	ppb		98
79) tert-Butylbenzene	11.189	119	482852	6.20	ppb		99
80) 1,2,4-Trimethylbenzene	11.248	105	520410	5.88	ppb		99
81) sec-Butylbenzene	11.431	105	564830	6.32	ppb		98
82) 1,3-Dichlorobenzene	11.587	146	252865	5.47	ppb		98
83) p-Isopropyltoluene	11.593	119	459505	6.02	ppb		98
84) 1,4-Dichlorobenzene	11.690	146	245866	5.46	ppb		99
85) 1,2,3-Trimethylbenzene	11.729	105	378561	5.51	ppb		98
86) p-Diethylbenzene	12.027	105	179448	5.64	ppb	#	97
87) 1,2-Dichlorobenzene	12.113	146	179014	5.15	ppb	#	74
88) n-Butylbenzene	12.057	91	334644	5.51	ppb	#	92
89) 1,2-Dibromo-3-chloropr...	13.017	75	7807	4.83	ppb		96
90) 1,2,4,5-Tetramethylben...	12.917	119	260015	5.15	ppb		98
91) 1,2,4-Trichlorobenzene	13.935	180	83573	5.50	ppb		97
92) Hexachloro-1,3-Butadiene	14.102	225	21472	5.20	ppb		94
93) Naphthalene	14.222	128	146624	6.00	ppb		98
94) 1,2,3-Trichlorobenzene	14.503	180	60827	6.17	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611402.D
Acq On : 7 Nov 2018 11:01 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL4
Misc : QBQV6110618A CAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 08 09:33:09 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:37:54 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611403.D
Acq On : 7 Nov 2018 11:28 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL5
Misc : QBQV6110618A CAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 08 09:39:37 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:37:54 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.073	70	182638	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	764882	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	123819	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.772	65	162230	9.11	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 91.10%				
51) Toluene-d8 (SURR)	7.617	98	1070584	10.07	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 100.70%				
70) p-Bromofluorobenzene (...	10.380	95	287751m	11.03	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 110.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.488	85	227904	7.81	ppb	#	1
3) Chloromethane	1.727	50	184976	6.07	ppb	#	42
4) Vinyl Chloride	1.816	62	371575	8.70	ppb	#	47
5) Bromomethane	2.194	94	128489	6.45	ppb		65
6) Chloroethane	2.319	64	249313	9.26	ppb		89
7) Trichlorofluoromethane	2.598	101	471746	9.25	ppb		98
8) Ethanol	2.884	45	81365	383.14	ppb	#	1
9) Freon-113	3.162	101	321785	9.04	ppb	#	69
10) 1,1-Dichloroethylene	3.171	61	535089	9.63	ppb		88
11) Acrolein	3.107	56	30229	8.84	ppb	#	83
12) Acetone	3.276	43	52769	8.71	ppb	#	93
13) Iodomethane	3.340	142	173980	5.20	ppb		96
14) Methyl Acetate	3.608	43	132513	9.16	ppb	#	96
15) Carbon disulfide	3.402	76	856526	9.47	ppb		100
16) tert-Butyl Alcohol (TBA)	3.858	59	23769	8.90	ppb	#	1
17) Methylene Chloride	3.711	49	397750	9.39	ppb	#	61
18) Acrylonitrile	3.989	53	66852	9.49	ppb	#	76
19) trans-1,2-Dichloroethy...	3.972	61	533110	9.74	ppb		93
20) tert-Butyl Methyl Ethe...	3.958	73	946243	10.08	ppb	#	97
21) 1,1-Dichloroethane	4.403	63	718021	9.81	ppb		99
22) Vinyl Acetate	4.442	43	877492	9.82	ppb	#	100
23) Diisopropyl ether (DIPE)	4.434	45	1147140	10.21	ppb	#	95
24) Ethyl-tert-Butyl ether...	4.790	59	1162710	10.41	ppb	#	95
25) cis-1,2-Dichloroethylene	4.976	61	623774	9.71	ppb		90
26) 2-Butanone	5.007	72	28602	9.26	ppb	#	95
27) 2,2-Dichloropropane	4.957	77	555322	10.36	ppb	#	65
28) Tetrahydrofuran	5.263	42	55770m	8.52	ppb		
29) Bromochloromethane	5.218	49	239869	8.90	ppb	#	70
30) Chloroform	5.291	83	682076	9.57	ppb	#	84
31) 1,1,1-Trichloroethane	5.441	97	581420	9.28	ppb	#	71
32) Cyclohexane	5.474	56	561499	8.73	ppb	#	75
33) 1,1-Dichloropropylene	5.600	75	520279	8.88	ppb	#	81
35) Carbon Tetrachloride	5.597	117	488646	8.98	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.822	59	193607	79.41	ppb	#	77
37) 1,2-Dichloroethane	5.847	62	321632m	7.95	ppb		
38) Benzene	5.806	78	1572508	10.35	ppb	#	87
39) tert-Amyl methyl ether...	5.886	73	952655	9.20	ppb	#	100
41) Trichloroethylene	6.426	95	407514	8.16	ppb		96
42) Methyl Cyclohexane	6.582	83	553634	8.65	ppb	#	71
43) Methyl Methacrylate	6.746	69	177123	7.85	ppb	#	58
44) Dibromomethane	6.793	93	176600	8.14	ppb	#	60
45) Bromodichloromethane	6.938	83	470348	8.23	ppb	#	92
46) 1,2-Dichloropropane	6.657	63	372573	7.88	ppb	#	99

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611403.D
Acq On : 7 Nov 2018 11:28 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL5
Misc : QBQV6110618A CAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 08 09:39:37 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:37:54 2018
Response via : Initial Calibration

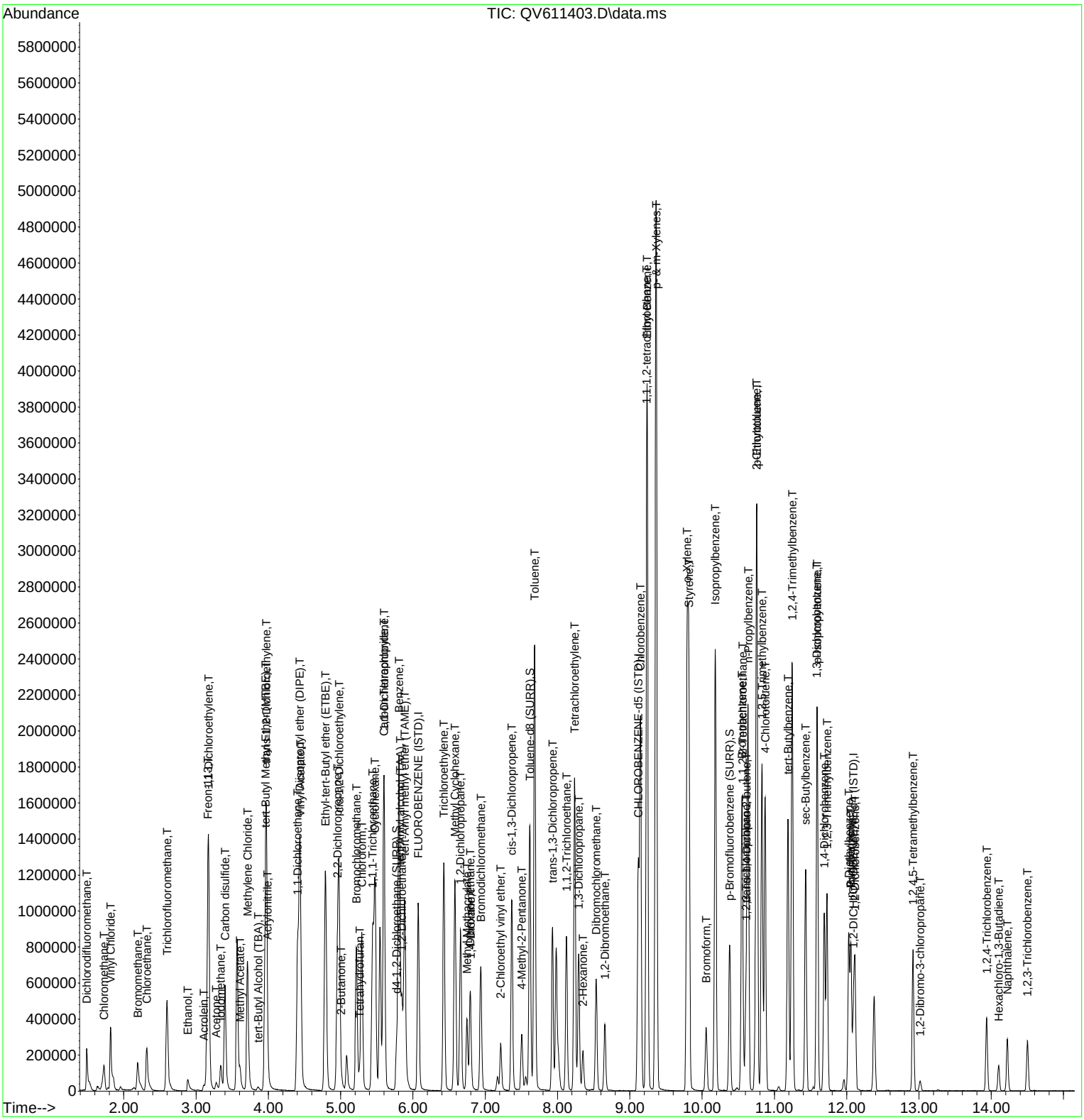
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 1,4-Dioxane	6.799	88	33823	160.89	ppb	#	86
48) 2-Chloroethyl vinyl ether	7.213	63	109940	12.37	ppb	#	92
49) cis-1,3-Dichloropropene	7.366	75	650200	9.13	ppb	#	75
50) 4-Methyl-2-Pentanone	7.505	43	203588	8.21	ppb	#	77
52) Toluene	7.684	91	1938539	10.81	ppb		99
53) trans-1,3-Dichloropropene	7.931	75	515450	8.87	ppb		99
54) 1,1,2-Trichloroethane	8.123	97	289842	8.76	ppb		90
55) 1,3-Dichloropropane	8.293	76	495038	8.85	ppb	#	75
56) Tetrachloroethylene	8.237	166	573474	9.14	ppb	#	100
57) 2-Hexanone	8.349	43	137958	8.56	ppb	#	83
58) Dibromochloromethane	8.535	129	353893	8.97	ppb	#	97
59) 1,2-Dibromoethane	8.655	107	271074	8.81	ppb		98
60) Chlorobenzene	9.147	112	1233007	10.00	ppb	#	91
61) 1,1,1,2-tetrachloroethane	9.233	131	426815	9.12	ppb		98
62) Ethyl Benzene	9.239	91	2078335	11.46	ppb		99
63) p- & m-Xylenes	9.364	91	3046904	25.57	ppb		99
64) o-Xylene	9.793	91	1519859	10.55	ppb		100
65) Styrene	9.818	104	1219871	10.28	ppb		98
66) Bromoform	10.054	173	187073	9.50	ppb	#	80
68) p-Ethyltoluene	10.758	105	1389428	11.83	ppb	#	82
69) Isopropylbenzene	10.182	105	1820529	12.04	ppb		98
71) 1,1,2,2-Tetrachloroethane	10.558	83	252643	10.51	ppb	#	99
72) Bromobenzene	10.549	77	591326	10.55	ppb	#	90
73) trans-1,4-Dichloro-2-b...	10.610	75	279930	10.65	ppb	#	67
74) 1,2,3-Trichloropropane	10.608	110	76211	11.01	ppb		94
75) n-Propylbenzene	10.636	91	1784289	12.14	ppb		98
76) 2-Chlorotoluene	10.752	91	1194962	11.23	ppb		100
77) 4-Chlorotoluene	10.872	91	1030166	11.14	ppb		100
78) 1,3,5-Trimethylbenzene	10.828	105	1097435	11.38	ppb		98
79) tert-Butylbenzene	11.186	119	889238	11.40	ppb		98
80) 1,2,4-Trimethylbenzene	11.248	105	969521	10.94	ppb		99
81) sec-Butylbenzene	11.431	105	1003099	11.21	ppb		98
82) 1,3-Dichlorobenzene	11.587	146	479882	10.37	ppb		98
83) p-Isopropyltoluene	11.593	119	812583	10.64	ppb		98
84) 1,4-Dichlorobenzene	11.690	146	461236	10.23	ppb		98
85) 1,2,3-Trimethylbenzene	11.726	105	710403	10.32	ppb		98
86) p-Diethylbenzene	12.029	105	312409	9.81	ppb	#	97
87) 1,2-Dichlorobenzene	12.113	146	343793	9.88	ppb	#	74
88) n-Butylbenzene	12.057	91	584507	9.62	ppb	#	92
89) 1,2-Dibromo-3-chloropr...	13.017	75	15065	9.31	ppb		93
90) 1,2,4,5-Tetramethylben...	12.917	119	478539	9.48	ppb		99
91) 1,2,4-Trichlorobenzene	13.935	180	154930	10.19	ppb		97
92) Hexachloro-1,3-Butadiene	14.102	225	36064	8.72	ppb		95
93) Naphthalene	14.222	128	254214	10.40	ppb		98
94) 1,2,3-Trichlorobenzene	14.500	180	106396	10.79	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611403.D
Acq On : 7 Nov 2018 11:28 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL5
Misc : QBQV6110618A CAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 08 09:39:37 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:37:54 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611404.D
Acq On : 7 Nov 2018 11:54 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL6
Misc : QBQV6110618A CAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 08 09:40:03 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:41:23 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.073	70	202809	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.117	117	751890	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.094	152	113962	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.775	65	189381	9.71	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 97.10%				
51) Toluene-d8 (SURR)	7.614	98	1051545	10.01	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 100.10%				
70) p-Bromofluorobenzene (...	10.382	95	261292m	10.80	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 108.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.488	85	425179	15.00	ppb	#	1
3) Chloromethane	1.727	50	357295	12.32	ppb	#	42
4) Vinyl Chloride	1.816	62	707996	16.85	ppb	#	47
5) Bromomethane	2.192	94	303013	15.70	ppb		65
6) Chloroethane	2.317	64	479665	17.97	ppb		89
7) Trichlorofluoromethane	2.601	101	848063	16.92	ppb		98
8) Ethanol	2.882	45	170789	812.07	ppb	#	1
9) Freon-113	3.160	101	616866	17.48	ppb		98
10) 1,1-Dichloroethylene	3.171	61	1034380	18.71	ppb		88
11) Acrolein	3.104	56	60789	17.85	ppb	#	83
12) Acetone	3.274	43	103097	17.01	ppb	#	94
13) Iodomethane	3.343	142	439240	13.99	ppb		96
14) Methyl Acetate	3.605	43	260640	18.22	ppb	#	96
15) Carbon disulfide	3.399	76	1655080	18.35	ppb		100
16) tert-Butyl Alcohol (TBA)	3.855	59	46611	17.58	ppb	#	1
17) Methylene Chloride	3.711	49	774319	18.43	ppb	#	60
18) Acrylonitrile	3.986	53	140323	19.72	ppb	#	42
19) trans-1,2-Dichloroethy...	3.972	61	1053450	19.23	ppb		93
20) tert-Butyl Methyl Ethe...	3.955	73	1890006	20.22	ppb	#	88
21) 1,1-Dichloroethane	4.403	63	1431154	19.61	ppb		99
22) Vinyl Acetate	4.442	43	1681934	18.94	ppb	#	100
23) Diisopropyl ether (DIPE)	4.434	45	2184214	19.73	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.787	59	2078589	18.81	ppb	#	94
25) cis-1,2-Dichloroethylene	4.977	61	1131817	17.61	ppb	#	64
26) 2-Butanone	5.002	72	55386	17.80	ppb	#	95
27) 2,2-Dichloropropane	4.957	77	990348	18.26	ppb	#	74
28) Tetrahydrofuran	5.258	42	114379	17.48	ppb	#	1
29) Bromochloromethane	5.219	49	487755	18.38	ppb	#	72
30) Chloroform	5.291	83	1416018	19.90	ppb	#	84
31) 1,1,1-Trichloroethane	5.441	97	1210297	19.33	ppb	#	82
32) Cyclohexane	5.475	56	1145807	18.00	ppb	#	77
33) 1,1-Dichloropropylene	5.600	75	1104503	18.92	ppb	#	81
35) Carbon Tetrachloride	5.594	117	1032635	19.01	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.820	59	443389	183.59	ppb	#	77
37) 1,2-Dichloroethane	5.847	62	785803	19.64	ppb		99
38) Benzene	5.806	78	3469885	23.40	ppb	#	89
39) tert-Amyl methyl ether...	5.886	73	2056238	20.23	ppb	#	100
41) Trichloroethylene	6.426	95	884554	20.02	ppb		99
42) Methyl Cyclohexane	6.582	83	1215743	21.37	ppb	#	74
43) Methyl Methacrylate	6.746	69	391621	19.66	ppb	#	62
44) Dibromomethane	6.793	93	385537	20.08	ppb	#	60
45) Bromodichloromethane	6.938	83	1046015	20.74	ppb	#	93
46) 1,2-Dichloropropane	6.660	63	831740	20.00	ppb	#	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611404.D
Acq On : 7 Nov 2018 11:54 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL6
Misc : QBQV6110618A CAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 08 09:40:03 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:41:23 2018
Response via : Initial Calibration

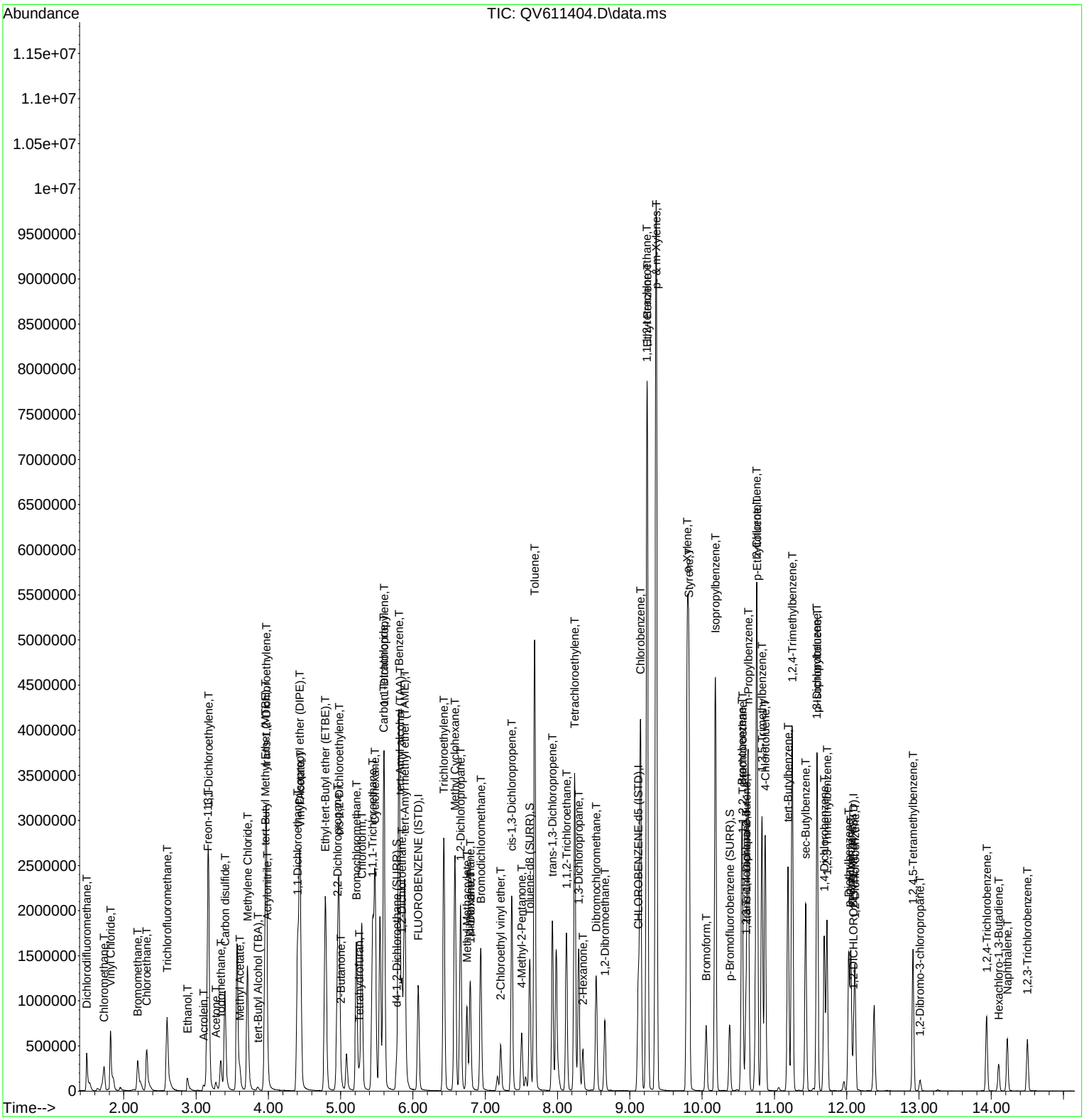
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 1,4-Dioxane	6.796	88	71937	393.62	ppb	#	88
48) 2-Chloroethyl vinyl ether	7.214	63	204738	25.50	ppb	#	92
49) cis-1,3-Dichloropropene	7.367	75	1311154	20.81	ppb	#	76
50) 4-Methyl-2-Pentanone	7.506	43	412850	18.88	ppb	#	77
52) Toluene	7.684	91	3864748	24.82	ppb		99
53) trans-1,3-Dichloropropene	7.929	75	1067429	20.71	ppb		99
54) 1,1,2-Trichloroethane	8.123	97	592766	20.19	ppb		90
55) 1,3-Dichloropropane	8.293	76	1004397	20.26	ppb	#	75
56) Tetrachloroethylene	8.237	166	1155108	20.64	ppb	#	100
57) 2-Hexanone	8.349	43	276440	19.40	ppb	#	82
58) Dibromochloromethane	8.535	129	729231	20.80	ppb	#	97
59) 1,2-Dibromoethane	8.655	107	555774	20.34	ppb		98
60) Chlorobenzene	9.147	112	2480653	22.94	ppb	#	91
61) 1,1,1,2-tetrachloroethane	9.236	131	879161	21.18	ppb		98
62) Ethyl Benzene	9.242	91	4140128	26.43	ppb		99
63) p- & m-Xylenes	9.364	91	6065673	59.83	ppb		99
64) o-Xylene	9.795	91	2990772	23.92	ppb		100
65) Styrene	9.818	104	2390363	23.19	ppb		98
66) Bromoform	10.057	173	379088	21.98	ppb	#	80
68) p-Ethyltoluene	10.761	105	2302049	23.88	ppb	#	54
69) Isopropylbenzene	10.185	105	3419931	27.34	ppb		98
71) 1,1,2,2-Tetrachloroethane	10.561	83	465672	23.47	ppb	#	69
72) Bromobenzene	10.549	77	1088346	23.50	ppb	#	90
73) trans-1,4-Dichloro-2-b...	10.611	75	510867	23.63	ppb	#	67
74) 1,2,3-Trichloropropane	10.608	110	138237	24.15	ppb		94
75) n-Propylbenzene	10.636	91	3150759	26.08	ppb		98
76) 2-Chlorotoluene	10.753	91	2115451	24.16	ppb		100
77) 4-Chlorotoluene	10.872	91	1798547	23.70	ppb		100
78) 1,3,5-Trimethylbenzene	10.828	105	1816943	23.03	ppb		98
79) tert-Butylbenzene	11.187	119	1458486	22.76	ppb		99
80) 1,2,4-Trimethylbenzene	11.248	105	1616764	22.29	ppb		99
81) sec-Butylbenzene	11.431	105	1638680	22.33	ppb		98
82) 1,3-Dichlorobenzene	11.587	146	846861	22.19	ppb		98
83) p-Isopropyltoluene	11.593	119	1369850	21.82	ppb		98
84) 1,4-Dichlorobenzene	11.690	146	817886	21.99	ppb		98
85) 1,2,3-Trimethylbenzene	11.726	105	1199589	21.22	ppb		98
86) p-Diethylbenzene	12.027	105	562479	21.23	ppb	#	98
87) 1,2-Dichlorobenzene	12.113	146	645987	22.20	ppb	#	87
88) n-Butylbenzene	12.057	91	1083850	21.43	ppb		95
89) 1,2-Dibromo-3-chloropr...	13.012	75	31253	22.71	ppb		94
90) 1,2,4,5-Tetramethylben...	12.917	119	946176	22.19	ppb		98
91) 1,2,4-Trichlorobenzene	13.935	180	318410	24.33	ppb		97
92) Hexachloro-1,3-Butadiene	14.102	225	76776	21.82	ppb		95
93) Naphthalene	14.222	128	513505	24.34	ppb		99
94) 1,2,3-Trichlorobenzene	14.500	180	219805	25.62	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611404.D
Acq On : 7 Nov 2018 11:54 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL6
Misc : QBQV6110618A CAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 08 09:40:03 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:41:23 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611405.D
Acq On : 8 Nov 2018 12:21 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL7
Misc : QBQV6110618A CAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 08 09:24:39 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:42:40 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.076	70	177177	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.119	117	751826	10.00	ppb	#	0.01
67) 1,2-DICHLOROBENZENE-d4...	12.094	152	112335	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.775	65	157437	9.31	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 93.10%				
51) Toluene-d8 (SURR)	7.617	98	1020192	9.68	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 96.80%				
70) p-Bromofluorobenzene (...	10.382	95	197604m	8.29	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 82.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.490	85	1113232	52.61	ppb	#	1
3) Chloromethane	1.727	50	863001	41.50	ppb	#	42
4) Vinyl Chloride	1.819	62	1664818	52.60	ppb	#	47
5) Bromomethane	2.189	94	544571	38.73	ppb		66
6) Chloroethane	2.317	64	1052886	51.78	ppb		89
7) Trichlorofluoromethane	2.601	101	1992527	52.99	ppb		98
8) Ethanol	2.879	45	376424	2338.03	ppb	#	1
9) Freon-113	3.163	101	1436132	52.75	ppb		96
10) 1,1-Dichloroethylene	3.174	61	1866775	44.12	ppb	#	75
11) Acrolein	3.101	56	124896	47.45	ppb	#	83
12) Acetone	3.268	43	166277	35.28	ppb	#	97
13) Iodomethane	3.343	142	1012608	45.97	ppb		95
14) Methyl Acetate	3.605	43	435427	39.56	ppb	#	95
15) Carbon disulfide	3.402	76	3345091	48.26	ppb		100
16) tert-Butyl Alcohol (TBA)	3.855	59	88874	43.14	ppb	#	1
17) Methylene Chloride	3.711	49	1333240	41.58	ppb	#	50
18) Acrylonitrile	3.983	53	251477	46.09	ppb	#	42
19) trans-1,2-Dichloroethy...	3.972	61	1924028	45.62	ppb	#	90
20) tert-Butyl Methyl Ethe...	3.958	73	3440650	47.87	ppb	#	97
21) 1,1-Dichloroethane	4.403	63	2610494	46.54	ppb		98
22) Vinyl Acetate	4.445	43	2781024	40.70	ppb	#	100
23) Diisopropyl ether (DIPE)	4.434	45	3667862	43.49	ppb	#	93
24) Ethyl-tert-Butyl ether...	4.790	59	3955256	46.88	ppb	#	93
25) cis-1,2-Dichloroethylene	4.979	61	2221179	45.04	ppb	#	86
26) 2-Butanone	4.999	72	110469	45.90	ppb	#	95
27) 2,2-Dichloropropane	4.957	77	2066879	48.99	ppb	#	73
28) Tetrahydrofuran	5.258	42	191723	37.85	ppb	#	1
29) Bromochloromethane	5.219	49	778664	38.59	ppb	#	61
30) Chloroform	5.291	83	2630278	47.94	ppb	#	92
31) 1,1,1-Trichloroethane	5.444	97	2414605	49.95	ppb	#	82
32) Cyclohexane	5.477	56	2422224	49.44	ppb	#	72
33) 1,1-Dichloropropylene	5.603	75	2165417	48.10	ppb	#	84
35) Carbon Tetrachloride	5.597	117	2167800	51.72	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.822	59	797000	424.97	ppb		89
37) 1,2-Dichloroethane	5.850	62	1358596	44.07	ppb	#	87
38) Benzene	5.808	78	6539525	58.57	ppb	#	86
39) tert-Amyl methyl ether...	5.886	73	3794260	48.55	ppb	#	100
41) Trichloroethylene	6.429	95	1783785	45.36	ppb		97
42) Methyl Cyclohexane	6.585	83	2741879	53.34	ppb	#	70
43) Methyl Methacrylate	6.746	69	751374	42.39	ppb	#	27
44) Dibromomethane	6.793	93	743114	43.50	ppb		93
45) Bromodichloromethane	6.938	83	1994960	44.62	ppb	#	92
46) 1,2-Dichloropropane	6.660	63	1540473	41.84	ppb	#	99

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611405.D
Acq On : 8 Nov 2018 12:21 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL7
Misc : QBQV6110618A CAL
ALS Vial : 11 Sample Multiplier: 1

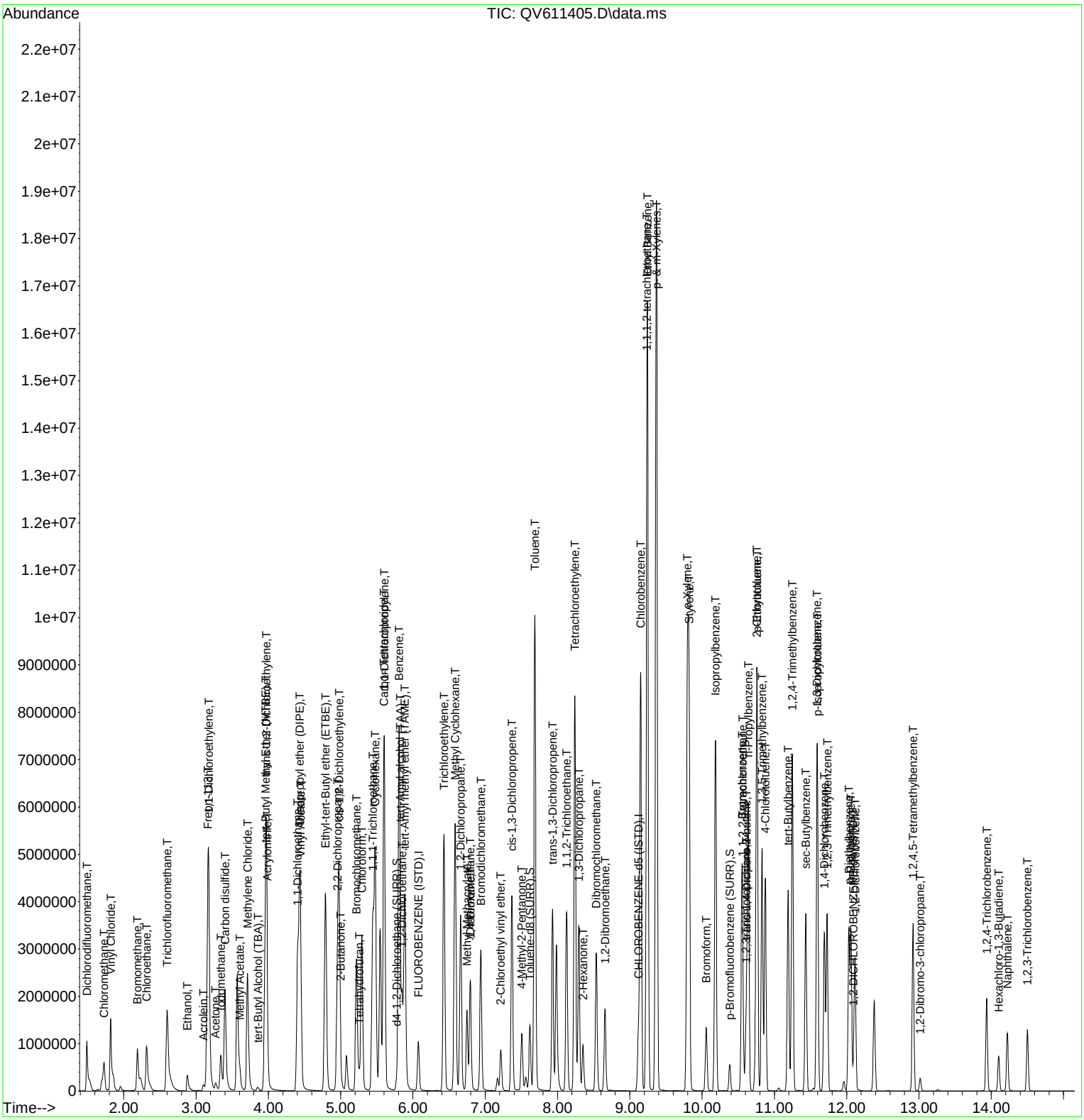
Quant Time: Nov 08 09:24:39 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:42:40 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 1,4-Dioxane	6.796	88	127576	788.36	ppb	#	86
48) 2-Chloroethyl vinyl ether	7.213	63	345012	46.13	ppb	#	93
49) cis-1,3-Dichloropropene	7.369	75	2603127	46.59	ppb	#	72
50) 4-Methyl-2-Pentanone	7.506	43	751649	38.68	ppb	#	71
52) Toluene	7.686	91	7884949	58.31	ppb		99
53) trans-1,3-Dichloropropene	7.931	75	2188450	47.71	ppb		98
54) 1,1,2-Trichloroethane	8.126	97	1313072	50.17	ppb		90
55) 1,3-Dichloropropane	8.296	76	2218959	50.38	ppb	#	75
56) Tetrachloroethylene	8.240	166	2733966	54.72	ppb	#	100
57) 2-Hexanone	8.351	43	584483	46.20	ppb	#	82
58) Dibromochloromethane	8.535	129	1636491	52.39	ppb	#	96
59) 1,2-Dibromoethane	8.657	107	1225317	50.28	ppb		99
60) Chlorobenzene	9.150	112	5257337	55.47	ppb	#	91
61) 1,1,1,2-tetrachloroethane	9.236	131	1922603	52.18	ppb		98
62) Ethyl Benzene	9.245	91	8507079	63.05	ppb		97
63) p- & m-Xylenes	9.367	91	11611187	133.40	ppb		99
64) o-Xylene	9.795	91	5449054	50.43	ppb		100
65) Styrene	9.820	104	4320769	48.50	ppb		98
66) Bromoform	10.057	173	690855	45.76	ppb	#	80
68) p-Ethyltoluene	10.761	105	3671402	44.29	ppb	#	54
69) Isopropylbenzene	10.185	105	5596861	51.89	ppb		98
71) 1,1,2,2-Tetrachloroethane	10.561	83	733856	42.76	ppb	#	69
72) Bromobenzene	10.552	77	1767860	44.30	ppb	#	90
73) trans-1,4-Dichloro-2-b...	10.613	75	787963	42.32	ppb	#	67
74) 1,2,3-Trichloropropane	10.608	110	210479	42.38	ppb		63
75) n-Propylbenzene	10.638	91	4978607	48.16	ppb		98
76) 2-Chlorotoluene	10.755	91	3396296	45.22	ppb		100
77) 4-Chlorotoluene	10.875	91	2897444	44.61	ppb		100
78) 1,3,5-Trimethylbenzene	10.828	105	3027056	44.67	ppb		98
79) tert-Butylbenzene	11.189	119	2438982	44.24	ppb		99
80) 1,2,4-Trimethylbenzene	11.248	105	2937868	46.98	ppb		99
81) sec-Butylbenzene	11.434	105	2980932	46.91	ppb		98
82) 1,3-Dichlorobenzene	11.590	146	1642958	49.33	ppb		98
83) p-Isopropyltoluene	11.596	119	2731758	49.84	ppb		98
84) 1,4-Dichlorobenzene	11.690	146	1601934	49.21	ppb		98
85) 1,2,3-Trimethylbenzene	11.729	105	2385339	48.23	ppb		98
86) p-Diethylbenzene	12.030	105	1232484	52.59	ppb	#	99
87) 1,2-Dichlorobenzene	12.116	146	1353171	52.54	ppb	#	74
88) n-Butylbenzene	12.057	91	2401488	53.71	ppb		94
89) 1,2-Dibromo-3-chloropr...	13.014	75	68333	55.28	ppb		92
90) 1,2,4,5-Tetramethylben...	12.917	119	2176624	57.42	ppb		98
91) 1,2,4-Trichlorobenzene	13.935	180	718778	60.46	ppb		97
92) Hexachloro-1,3-Butadiene	14.102	225	187045	58.94	ppb		95
93) Naphthalene	14.222	128	1092043	56.49	ppb		99
94) 1,2,3-Trichlorobenzene	14.500	180	479985	60.51	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611405.D
Acq On : 8 Nov 2018 12:21 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL7
Misc : QBQV6110618A CAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 08 09:24:39 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:42:40 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611406.D
Acq On : 8 Nov 2018 12:47 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL8
Misc : QBQV6110618A CAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 08 09:25:01 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:44:12 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.075	70	209001	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.119	117	664172	10.00	ppb	#	0.01
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	112664	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.778	65	196201	9.95	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 99.50%				
51) Toluene-d8 (SURR)	7.617	98	1102496	11.81	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 118.10%#				
70) p-Bromofluorobenzene (...	10.382	95	153127m	6.56	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 65.60%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.487	85	1804936	88.40	ppb	#	1
3) Chloromethane	1.727	50	1053812	54.64	ppb	#	50
4) Vinyl Chloride	1.816	62	2623015	84.41	ppb	#	47
5) Bromomethane	2.186	94	923681	74.35	ppb		66
6) Chloroethane	2.311	64	1643089	81.59	ppb		89
7) Trichlorofluoromethane	2.600	101	3101893	82.76	ppb		98
8) Ethanol	2.879	45	622234	4015.59	ppb	#	1
9) Freon-113	3.162	101	2712126	99.77	ppb	#	69
10) 1,1-Dichloroethylene	3.173	61	3602503	87.20	ppb	#	79
11) Acrolein	3.101	56	253282	98.43	ppb	#	86
12) Acetone	3.271	43	360853	78.06	ppb	#	93
13) Iodomethane	3.343	142	1742006	90.81	ppb		96
14) Methyl Acetate	3.602	43	941023	88.10	ppb	#	95
15) Carbon disulfide	3.399	76	6152869	89.46	ppb		100
16) tert-Butyl Alcohol (TBA)	3.850	59	177123	87.61	ppb	#	1
17) Methylene Chloride	3.710	49	2717055	87.17	ppb	#	60
18) Acrylonitrile	3.983	53	533710	102.01	ppb	#	45
19) trans-1,2-Dichloroethy...	3.972	61	3847931	92.74	ppb		92
20) tert-Butyl Methyl Ethe...	3.958	73	6701634	94.59	ppb	#	88
21) 1,1-Dichloroethane	4.406	63	4719211	85.30	ppb		98
22) Vinyl Acetate	4.445	43	6026622	90.60	ppb	#	100
23) Diisopropyl ether (DIPE)	4.437	45	7738795	94.56	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.790	59	7869271	95.11	ppb	#	95
25) cis-1,2-Dichloroethylene	4.979	61	4376350	90.02	ppb		89
26) 2-Butanone	4.999	72	217952	91.72	ppb	#	95
27) 2,2-Dichloropropane	4.960	77	4075713	95.97	ppb	#	76
28) Tetrahydrofuran	5.257	42	424016	86.09	ppb	#	2
29) Bromochloromethane	5.221	49	1607936	81.98	ppb	#	72
30) Chloroform	5.294	83	5045213	92.74	ppb	#	84
31) 1,1,1-Trichloroethane	5.447	97	4662467	96.86	ppb		96
32) Cyclohexane	5.477	56	4938187	101.58	ppb	#	77
33) 1,1-Dichloropropylene	5.605	75	4318031	96.97	ppb	#	83
35) Carbon Tetrachloride	5.600	117	4183072	100.24	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.825	59	1650997	902.43	ppb		90
37) 1,2-Dichloroethane	5.850	62	2814237	93.11	ppb		99
38) Benzene	5.808	78	11941112	107.49	ppb		88
39) tert-Amyl methyl ether...	5.886	73	7379944	95.70	ppb	#	90
41) Trichloroethylene	6.429	95	3371289	115.04	ppb		99
42) Methyl Cyclohexane	6.584	83	5271912	133.75	ppb	#	74
43) Methyl Methacrylate	6.749	69	1451502	110.72	ppb	#	28
44) Dibromomethane	6.793	93	1415105	111.44	ppb		96
45) Bromodichloromethane	6.938	83	3826370	115.67	ppb	#	93
46) 1,2-Dichloropropane	6.660	63	2997177	110.52	ppb	#	99

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611406.D
Acq On : 8 Nov 2018 12:47 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL8
Misc : QBQV6110618A CAL
ALS Vial : 12 Sample Multiplier: 1

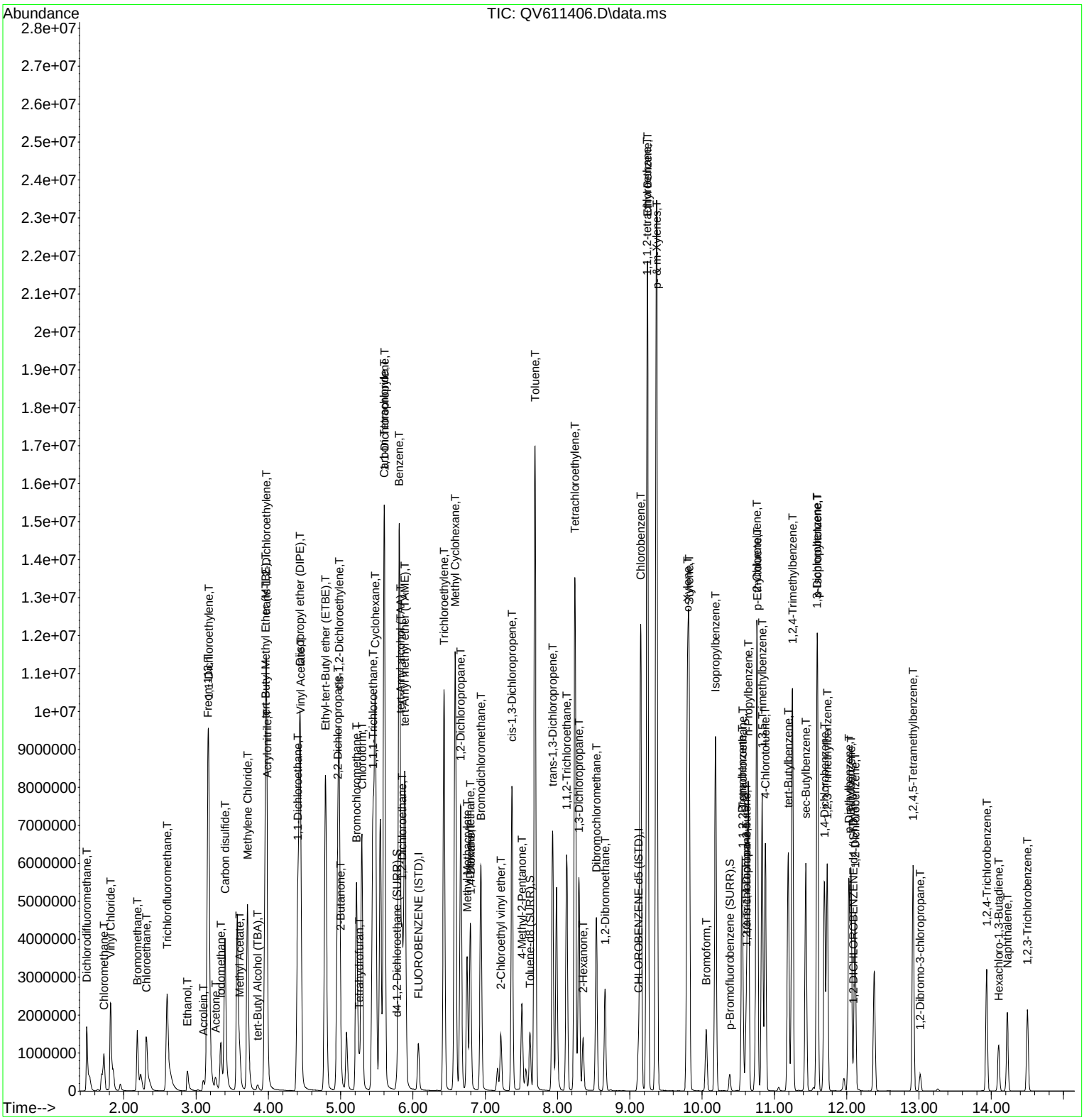
Quant Time: Nov 08 09:25:01 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:44:12 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 1,4-Dioxane	6.799	88	198129	1686.79	ppb	#	88
48) 2-Chloroethyl vinyl ether	7.216	63	552621	92.84	ppb	#	92
49) cis-1,3-Dichloropropene	7.369	75	4759813	114.67	ppb	#	75
50) 4-Methyl-2-Pentanone	7.508	43	1464678	102.49	ppb	#	77
52) Toluene	7.689	91	13014052	125.66	ppb		98
53) trans-1,3-Dichloropropene	7.931	75	3874314	113.67	ppb		99
54) 1,1,2-Trichloroethane	8.126	97	2133823	108.48	ppb		90
55) 1,3-Dichloropropane	8.296	76	3543229	107.31	ppb	#	75
56) Tetrachloroethylene	8.240	166	4437924	116.89	ppb	#	100
57) 2-Hexanone	8.354	43	832688	89.08	ppb	#	83
58) Dibromochloromethane	8.538	129	2592112	110.75	ppb	#	96
59) 1,2-Dibromoethane	8.657	107	1882685	103.04	ppb		98
60) Chlorobenzene	9.150	112	7388412	104.84	ppb	#	91
61) 1,1,1,2-tetrachloroethane	9.239	131	2667350	96.96	ppb		97
62) Ethyl Benzene	9.244	91	10947263	105.45	ppb		96
63) p- & m-Xylenes	9.370	91	14183218	205.03	ppb		96
64) o-Xylene	9.798	91	6687669	84.37	ppb		99
65) Styrene	9.820	104	5316927	82.45	ppb		98
66) Bromoform	10.057	173	855641	78.45	ppb	#	80
68) p-Ethyltoluene	10.763	105	5235919	74.34	ppb	#	54
69) Isopropylbenzene	10.185	105	6780140	73.94	ppb		97
71) 1,1,2,2-Tetrachloroethane	10.560	83	954147	67.45	ppb	#	69
72) Bromobenzene	10.552	77	2277204	69.36	ppb	#	90
73) trans-1,4-Dichloro-2-b...	10.613	75	1038561	67.76	ppb	#	67
74) 1,2,3-Trichloropropane	10.610	110	269409	65.44	ppb		61
75) n-Propylbenzene	10.638	91	6728038	76.54	ppb		98
76) 2-Chlorotoluene	10.755	91	4635877	73.86	ppb		100
77) 4-Chlorotoluene	10.875	91	4093042	75.30	ppb		100
78) 1,3,5-Trimethylbenzene	10.830	105	4530076	78.03	ppb		98
79) tert-Butylbenzene	11.192	119	3708409	77.96	ppb		99
80) 1,2,4-Trimethylbenzene	11.250	105	4599284	85.43	ppb		99
81) sec-Butylbenzene	11.434	105	4727511	85.47	ppb		98
82) 1,3-Dichlorobenzene	11.590	146	2649541	92.59	ppb		98
83) p-Isopropyltoluene	11.595	119	4467656	93.42	ppb		98
84) 1,4-Dichlorobenzene	11.693	146	2600571	92.77	ppb		98
85) 1,2,3-Trimethylbenzene	11.729	105	3848064	89.80	ppb		98
86) p-Diethylbenzene	12.029	105	2065697	101.20	ppb	#	100
87) 1,2-Dichlorobenzene	12.116	146	2240796	100.88	ppb	#	87
88) n-Butylbenzene	12.060	91	4013392	103.01	ppb		93
89) 1,2-Dibromo-3-chloropr...	13.014	75	114754	107.35	ppb		91
90) 1,2,4,5-Tetramethylben...	12.917	119	3580813	109.20	ppb		99
91) 1,2,4-Trichlorobenzene	13.938	180	1188765	113.43	ppb		97
92) Hexachloro-1,3-Butadiene	14.102	225	312416	112.59	ppb		96
93) Naphthalene	14.222	128	1844242	108.00	ppb		99
94) 1,2,3-Trichlorobenzene	14.500	180	809716	113.53	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611406.D
Acq On : 8 Nov 2018 12:47 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL8
Misc : QBQV6110618A CAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 08 09:25:01 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:44:12 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611407.D
Acq On : 8 Nov 2018 1:13 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL9
Misc : QBQV6110618A CAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 08 09:35:13 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:45:29 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.076	70	206743	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.119	117	584045	10.00	ppb	#	0.01
67) 1,2-DICHLOROBENZENE-d4...	12.094	152	113267	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.781	65	197653	10.24	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 102.40%				
51) Toluene-d8 (SURR)	7.620	98	1090909	12.99	ppb		0.01
Spiked Amount 10.000	Range 81 - 117		Recovery = 129.90%#				
70) p-Bromofluorobenzene (...	10.383	95	144324m	6.28	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 62.80%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.488	85	2303310	141.91	ppb	#	1
3) Chloromethane	1.724	50	1357493	95.58	ppb	#	42
4) Vinyl Chloride	1.816	62	3321425	132.06	ppb	#	47
5) Bromomethane	2.186	94	1201143	143.20	ppb		66
6) Chloroethane	2.311	64	2088812	126.64	ppb		89
7) Trichlorofluoromethane	2.598	101	3898699	124.70	ppb		97
8) Ethanol	2.882	45	783023	6591.29	ppb	#	1
9) Freon-113	3.160	101	3498716	154.20	ppb		98
10) 1,1-Dichloroethylene	3.174	61	4555644	133.89	ppb	#	78
11) Acrolein	3.099	56	335360	163.90	ppb	#	83
12) Acetone	3.268	43	447314	119.00	ppb	#	93
13) Iodomethane	3.343	142	2268302	172.06	ppb		96
14) Methyl Acetate	3.602	43	1210000	141.88	ppb	#	96
15) Carbon disulfide	3.399	76	7881539	137.14	ppb		100
16) tert-Butyl Alcohol (TBA)	3.853	59	233426	144.12	ppb	#	1
17) Methylene Chloride	3.711	49	3478931	137.64	ppb	#	60
18) Acrylonitrile	3.983	53	689866	169.56	ppb	#	45
19) trans-1,2-Dichloroethy...	3.975	61	4840450	141.49	ppb		92
20) tert-Butyl Methyl Ethe...	3.958	73	8575157	147.21	ppb	#	88
21) 1,1-Dichloroethane	4.406	63	5765548	126.99	ppb		98
22) Vinyl Acetate	4.445	43	7402448	136.85	ppb	#	100
23) Diisopropyl ether (DIPE)	4.437	45	9582840	142.18	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.790	59	8803096	128.73	ppb	#	93
25) cis-1,2-Dichloroethylene	4.979	61	4745220	118.52	ppb	#	64
26) 2-Butanone	4.999	72	248411	128.92	ppb	#	95
27) 2,2-Dichloropropane	4.960	77	4557458	126.73	ppb	#	74
28) Tetrahydrofuran	5.258	42	457456	115.97	ppb	#	1
29) Bromochloromethane	5.221	49	1720927	108.07	ppb	#	64
30) Chloroform	5.294	83	5816653	128.65	ppb	#	84
31) 1,1,1-Trichloroethane	5.447	97	5510118	137.21	ppb	#	82
32) Cyclohexane	5.480	56	5772657	142.16	ppb	#	74
33) 1,1-Dichloropropylene	5.605	75	5096220	137.85	ppb	#	84
35) Carbon Tetrachloride	5.600	117	5047494	145.10	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.825	59	2098393	1440.87	ppb		90
37) 1,2-Dichloroethane	5.853	62	3630220	147.36	ppb	#	98
38) Benzene	5.808	78	14831583	151.19	ppb		89
39) tert-Amyl methyl ether...	5.889	73	9472596	148.67	ppb	#	90
41) Trichloroethylene	6.429	95	4410258	198.97	ppb		98
42) Methyl Cyclohexane	6.585	83	6764618	217.37	ppb	#	74
43) Methyl Methacrylate	6.749	69	1857382	191.93	ppb	#	28
44) Dibromomethane	6.793	93	1835003	193.67	ppb		96
45) Bromodichloromethane	6.941	83	4965600	200.46	ppb	#	93
46) 1,2-Dichloropropane	6.663	63	3898431	193.19	ppb	#	99

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611407.D
Acq On : 8 Nov 2018 1:13 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL9
Misc : QBQV6110618A CAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 08 09:35:13 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:45:29 2018
Response via : Initial Calibration

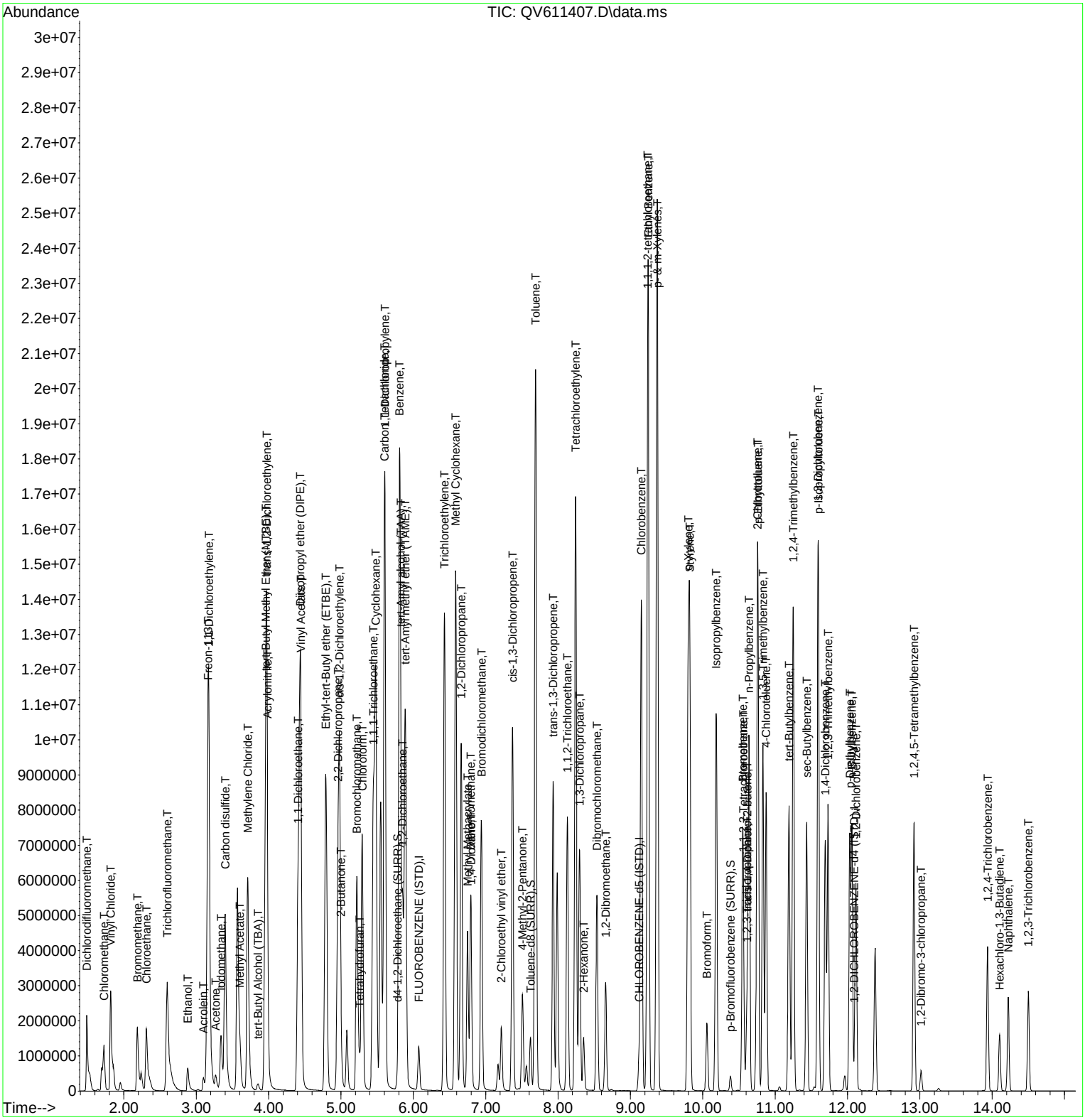
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 1,4-Dioxane	6.802	88	235431	2794.32	ppb	#	86
48) 2-Chloroethyl vinyl ether	7.216	63	662340	140.55	ppb	#	92
49) cis-1,3-Dichloropropene	7.372	75	6106761	195.64	ppb	#	75
50) 4-Methyl-2-Pentanone	7.508	43	1773928	170.14	ppb	#	77
52) Toluene	7.689	91	15608581	183.16	ppb		96
53) trans-1,3-Dichloropropene	7.931	75	4885038	192.27	ppb		98
54) 1,1,2-Trichloroethane	8.129	97	2663498	181.75	ppb		90
55) 1,3-Dichloropropane	8.299	76	4338069	176.43	ppb	#	83
56) Tetrachloroethylene	8.243	166	5574559	191.27	ppb	#	100
57) 2-Hexanone	8.354	43	920784	137.10	ppb	#	82
58) Dibromochloromethane	8.538	129	3168476	182.37	ppb		96
59) 1,2-Dibromoethane	8.658	107	2188221	161.83	ppb		98
60) Chlorobenzene	9.150	112	8358815	154.11	ppb	#	90
61) 1,1,1,2-tetrachloroethane	9.239	131	2963166	146.27	ppb		97
62) Ethyl Benzene	9.247	91	11900920	141.42	ppb		95
63) p- & m-Xylenes	9.373	91	15366000	266.85	ppb		94
64) o-Xylene	9.801	91	7704906	127.04	ppb		99
65) Styrene	9.820	104	6150394	127.00	ppb		97
66) Bromoform	10.057	173	982893	125.73	ppb	#	80
68) p-Ethyltoluene	10.764	105	6654660	106.14	ppb	#	55
69) Isopropylbenzene	10.185	105	8052152	97.99	ppb		97
71) 1,1,2,2-Tetrachloroethane	10.563	83	1169923	97.45	ppb	#	69
72) Bromobenzene	10.552	77	2792302	99.95	ppb	#	90
73) trans-1,4-Dichloro-2-b...	10.616	75	1291709	98.97	ppb	#	67
74) 1,2,3-Trichloropropane	10.611	110	330725	93.81	ppb		63
75) n-Propylbenzene	10.641	91	8333633	104.95	ppb		97
76) 2-Chlorotoluene	10.755	91	5822366	106.04	ppb		100
77) 4-Chlorotoluene	10.875	91	5249642	110.37	ppb		100
78) 1,3,5-Trimethylbenzene	10.830	105	5835287	112.77	ppb		98
79) tert-Butylbenzene	11.192	119	4756884	111.74	ppb		98
80) 1,2,4-Trimethylbenzene	11.251	105	5943245	124.24	ppb		99
81) sec-Butylbenzene	11.437	105	6071786	122.05	ppb		98
82) 1,3-Dichlorobenzene	11.593	146	3449022	137.39	ppb		98
83) p-Isopropyltoluene	11.598	119	5794663	135.66	ppb		98
84) 1,4-Dichlorobenzene	11.693	146	3394610	138.14	ppb		98
85) 1,2,3-Trimethylbenzene	11.732	105	5008598	132.53	ppb		98
86) p-Diethylbenzene	12.032	105	2689866	149.59	ppb	#	98
87) 1,2-Dichlorobenzene	12.119	146	2899637	150.08	ppb	#	88
88) n-Butylbenzene	12.060	91	5182020	150.49	ppb		97
89) 1,2-Dibromo-3-chloropr...	13.017	75	146443	159.60	ppb		91
90) 1,2,4,5-Tetramethylben...	12.920	119	4624077	162.35	ppb		98
91) 1,2,4-Trichlorobenzene	13.935	180	1537716	166.33	ppb		97
92) Hexachloro-1,3-Butadiene	14.102	225	409867	168.22	ppb		96
93) Naphthalene	14.222	128	2368270	156.84	ppb		99
94) 1,2,3-Trichlorobenzene	14.500	180	1056180	164.28	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611407.D
Acq On : 8 Nov 2018 1:13 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CAL9
Misc : QBQV6110618A CAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 08 09:35:13 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 08:45:29 2018
Response via : Initial Calibration



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 18K0078

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Calibration: YK80009 **Laboratory ID:** Y8K1339-SCV1

Sequence: Y8K1339 **Standard ID:** Y18J079

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	10.8	7.7	30.00
1,1,1-Trichloroethane	10.0	10.6	5.7	30.00
1,1,2,2-Tetrachloroethane	10.0	12.7	27.1	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11.2	11.5	30.00
1,1,2-Trichloroethane	10.0	9.53	-4.7	30.00
1,1-Dichloroethane	10.0	10.7	7.4	30.00
1,1-Dichloroethylene	10.0	10.8	7.9	30.00
1,2,3-Trichlorobenzene	10.0	13.1	30.8 *	30.00
1,2,3-Trichloropropane	10.0	12.7	26.8	30.00
1,2,4-Trichlorobenzene	10.0	11.1	11.1	30.00
1,2,4-Trimethylbenzene	10.0	12.3	22.7	30.00
1,2-Dibromo-3-chloropropane	10.0	10.3	3.1	30.00
1,2-Dibromoethane	10.0	10.1	1.1	30.00
1,2-Dichlorobenzene	10.0	10.9	8.6	30.00
1,2-Dichloroethane	10.0	10.7	6.7	30.00
1,2-Dichloropropane	10.0	9.94	-0.6	30.00
1,3,5-Trimethylbenzene	10.0	12.9	28.8	30.00
1,3-Dichlorobenzene	10.0	11.5	14.6	30.00
1,4-Dichlorobenzene	10.0	11.4	14.4	30.00
1,4-Dioxane	210	339	61.6 *	30.00
2-Butanone	10.0	9.02	-9.8	30.00
2-Hexanone	10.0	9.79	-2.1	30.00
4-Methyl-2-pentanone	10.0	9.52	-4.8	30.00
Acetone	10.0	8.32	-16.8	30.00
Acrolein	10.0	2.01	-79.9 *	30.00
Acrylonitrile	10.0	8.68	-13.2	30.00
Benzene	10.0	10.8	8.4	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 18K0078

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Calibration: YK80009 **Laboratory ID:** Y8K1339-SCV1

Sequence: Y8K1339 **Standard ID:** Y18J079

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
Bromochloromethane	10.0	10.6	6.2	30.00
Bromodichloromethane	10.0	10.1	1.4	30.00
Bromoform	10.0	11.2	11.6	30.00
Bromomethane	10.0	14.0	40.3 *	30.00
Carbon disulfide	10.0	11.0	9.9	30.00
Carbon tetrachloride	10.0	10.8	8.2	30.00
Chlorobenzene	10.0	10.7	7.1	30.00
Chloroethane	10.0	9.90	-1.0	30.00
Chloroform	10.0	10.4	4.4	30.00
Chloromethane	10.0	12.0	20.0	30.00
cis-1,2-Dichloroethylene	10.0	10.4	4.2	30.00
cis-1,3-Dichloropropylene	10.0	9.86	-1.4	30.00
Cyclohexane	10.0	10.6	6.4	30.00
Dibromochloromethane	10.0	10.0	0.4	30.00
Dibromomethane	10.0	9.88	-1.2	30.00
Dichlorodifluoromethane	10.0	11.0	10.1	30.00
Ethyl Benzene	10.0	11.1	11.3	30.00
Hexachlorobutadiene	10.0	12.4	23.6	30.00
Isopropylbenzene	10.0	12.7	27.3	30.00
Methyl acetate	10.0	9.12	-8.8	30.00
Methyl tert-butyl ether (MTBE)	10.0	10.3	2.9	30.00
Methylcyclohexane	10.0	9.62	-3.8	30.00
Methylene chloride	10.0	10.9	9.0	30.00
n-Butylbenzene	10.0	11.2	11.7	30.00
n-Propylbenzene	10.0	13.0	29.7	30.00
o-Xylene	10.0	11.7	17.0	30.00
p- & m- Xylenes	20.0	22.7	13.3	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 18K0078

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Calibration: YK80009 **Laboratory ID:** Y8K1339-SCV1

Sequence: Y8K1339 **Standard ID:** Y18J079

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	12.2	22.5	30.00
sec-Butylbenzene	10.0	13.2	32.4 *	30.00
Styrene	10.0	11.7	17.0	30.00
tert-Butyl alcohol (TBA)	50.0	51.2	2.4	30.00
tert-Butylbenzene	10.0	13.0	29.7	30.00
Tetrachloroethylene	10.0	8.71	-12.9	30.00
Toluene	10.0	10.2	1.9	30.00
trans-1,2-Dichloroethylene	10.0	10.4	3.9	30.00
trans-1,3-Dichloropropylene	10.0	9.75	-2.5	30.00
trans-1,4-dichloro-2-butene	10.0	12.5	24.9	30.00
Trichloroethylene	10.0	9.87	-1.3	30.00
Trichlorofluoromethane	10.0	11.3	13.0	30.00
Vinyl Chloride	10.0	10.3	3.2	30.00

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611409.D
Acq On : 8 Nov 2018 2:06 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-SCV1
Misc : QBQV6110618A CAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 08 09:47:16 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.073	70	196674	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	745280	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	117363	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.772	65	183646	9.90	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 99.00%				
51) Toluene-d8 (SURR)	7.614	98	1042644	9.45	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 94.50%				
70) p-Bromofluorobenzene (...	10.380	95	277489	11.98	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 119.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.488	85	136697	11.01	ppb	#	1
3) Chloromethane	1.724	50	108155	12.00	ppb	#	42
4) Vinyl Chloride	1.816	62	206454	10.32	ppb	#	47
5) Bromomethane	2.194	94	81978	14.03	ppb		66
6) Chloroethane	2.319	64	127888	9.90	ppb		89
7) Trichlorofluoromethane	2.598	101	289152	11.30	ppb		98
9) Freon-113	3.162	101	206761	11.15	ppb	#	69
10) 1,1-Dichloroethylene	3.171	61	297532	10.79	ppb		83
11) Acrolein	3.124	56	3173m	2.01	ppb		
12) Acetone	3.282	43	24130	8.32	ppb	#	97
13) Iodomethane	3.343	142	68229m	8.63	ppb		
14) Methyl Acetate	3.610	43	58610	9.12	ppb	#	96
15) Carbon disulfide	3.399	76	524703	10.99	ppb		100
16) tert-Butyl Alcohol (TBA)	3.852	59	62861	51.21	ppb	#	1
17) Methylene Chloride	3.711	49	216183	10.90	ppb	#	61
18) Acrylonitrile	3.994	53	27400	8.68	ppb	#	68
19) trans-1,2-Dichloroethy...	3.972	61	288769	10.39	ppb		93
20) tert-Butyl Methyl Ethe...	3.958	73	495663	10.29	ppb	#	88
21) 1,1-Dichloroethane	4.403	63	391137	10.74	ppb	#	96
22) Vinyl Acetate	4.442	43	428136	10.00	ppb		100
23) Diisopropyl ether (DIPE)	4.434	45	627714	11.03	ppb	#	95
24) Ethyl-tert-Butyl ether...	4.790	59	627593	11.02	ppb	#	95
25) cis-1,2-Dichloroethylene	4.976	61	331585	10.42	ppb		89
26) 2-Butanone	5.010	72	12978	9.02	ppb	#	95
27) 2,2-Dichloropropane	4.957	77	288960	9.79	ppb	#	75
28) Tetrahydrofuran	5.269	42	28243	9.56	ppb	#	1
29) Bromochloromethane	5.219	49	130064	10.62	ppb	#	68
30) Chloroform	5.291	83	381755	10.44	ppb	#	84
31) 1,1,1-Trichloroethane	5.444	97	341323	10.57	ppb		96
32) Cyclohexane	5.475	56	350764	10.64	ppb		78
33) 1,1-Dichloropropylene	5.600	75	318629	10.80	ppb	#	83
35) Carbon Tetrachloride	5.597	117	303693	10.82	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.822	59	108115	97.98	ppb	#	77
37) 1,2-Dichloroethane	5.847	62	205538	10.67	ppb		99
38) Benzene	5.806	78	960004	10.84	ppb	#	85
39) tert-Amyl methyl ether...	5.883	73	577417	10.86	ppb	#	90
41) Trichloroethylene	6.429	95	246065	9.87	ppb		98
42) Methyl Cyclohexane	6.579	83	354207	9.62	ppb	#	75
43) Methyl Methacrylate	6.746	69	105787	10.21	ppb	#	28
44) Dibromomethane	6.791	93	102424	9.88	ppb		96
45) Bromodichloromethane	6.938	83	279395	10.14	ppb	#	93
46) 1,2-Dichloropropane	6.657	63	220520	9.94	ppb	#	99
47) 1,4-Dioxane	6.802	88	30121	339.33	ppb	#	86

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611409.D
Acq On : 8 Nov 2018 2:06 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-SCV1
Misc : QBQV6110618A CAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 08 09:47:16 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

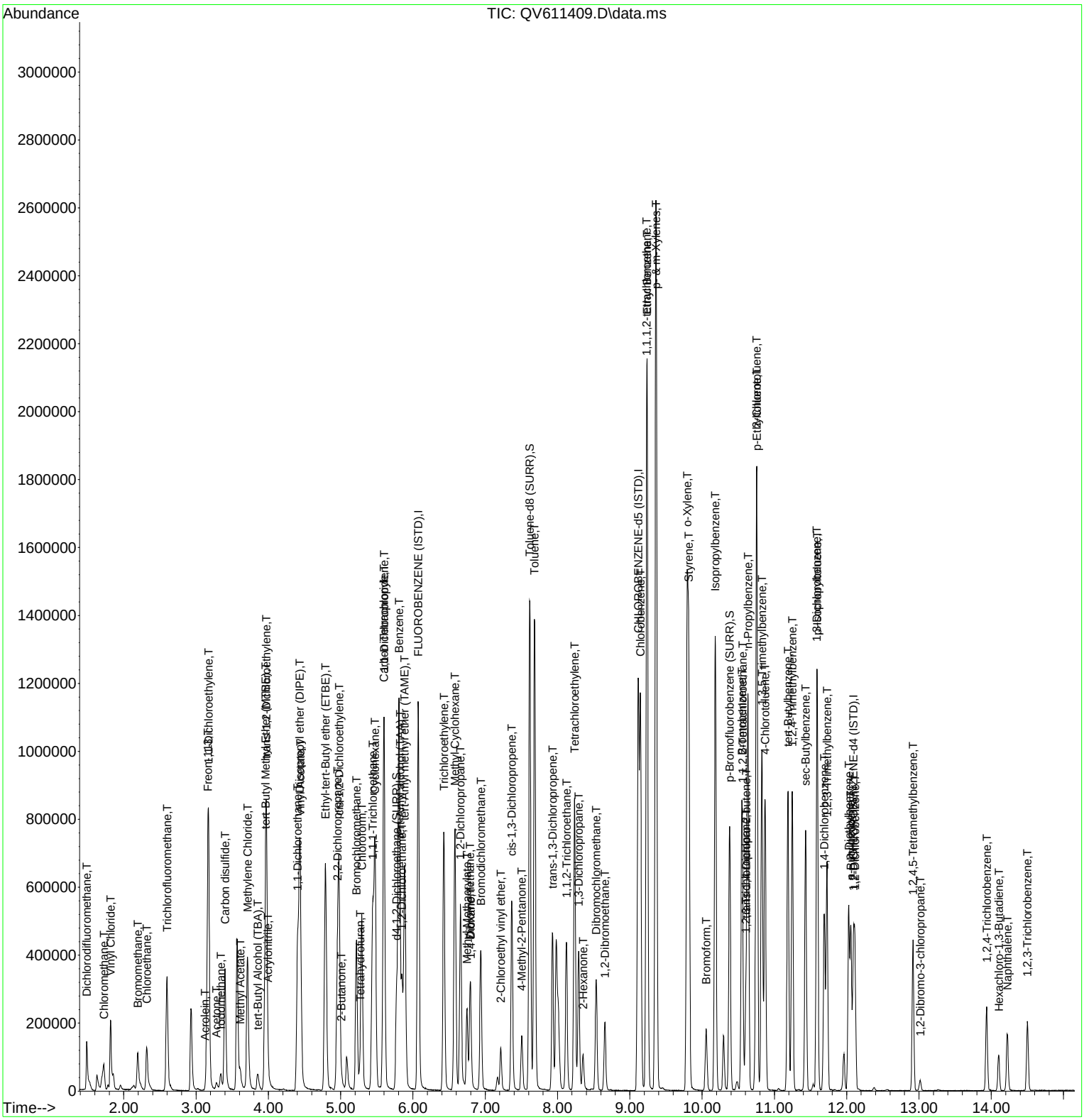
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Chloroethyl vinyl ether	7.216	63	55038	10.66	ppb	#	93
49) cis-1,3-Dichloropropene	7.366	75	343230	9.86	ppb	#	76
50) 4-Methyl-2-Pentanone	7.506	43	104020	9.52	ppb	#	77
52) Toluene	7.681	91	1091391	10.19	ppb		100
53) trans-1,3-Dichloropropene	7.931	75	270843	9.75	ppb	#	92
54) 1,1,2-Trichloroethane	8.123	97	152539	9.53	ppb		90
55) 1,3-Dichloropropane	8.293	76	266180	9.98	ppb	#	75
56) Tetrachloroethylene	8.237	166	287541	8.71	ppb	#	77
57) 2-Hexanone	8.354	43	68282	9.79	ppb	#	83
58) Dibromochloromethane	8.535	129	188363	10.04	ppb	#	96
59) 1,2-Dibromoethane	8.655	107	146308	10.11	ppb		99
60) Chlorobenzene	9.147	112	683072	10.71	ppb	#	92
61) 1,1,1,2-tetrachloroethane	9.233	131	234901	10.77	ppb		98
62) Ethyl Benzene	9.239	91	1147544	11.13	ppb		100
63) p- & m-Xylenes	9.361	91	1644094	22.66	ppb		99
64) o-Xylene	9.795	91	827896	11.70	ppb		100
65) Styrene	9.815	104	653065	11.70	ppb		98
66) Bromoform	10.057	173	95215	11.16	ppb	#	80
68) p-Ethyltoluene	10.758	105	747403	12.79	ppb	#	82
69) Isopropylbenzene	10.182	105	989825	12.73	ppb		98
71) 1,1,2,2-Tetrachloroethane	10.558	83	136269	12.71	ppb	#	99
72) Bromobenzene	10.549	77	319842	12.80	ppb	#	90
73) trans-1,4-Dichloro-2-b...	10.608	75	146231	12.49	ppb	#	68
74) 1,2,3-Trichloropropane	10.605	110	40511	12.68	ppb	#	55
75) n-Propylbenzene	10.633	91	978774	12.97	ppb		98
76) 2-Chlorotoluene	10.752	91	649325	12.79	ppb		100
77) 4-Chlorotoluene	10.869	91	553385m	12.68	ppb		
78) 1,3,5-Trimethylbenzene	10.828	105	617675	12.88	ppb		98
79) tert-Butylbenzene	11.189	119	510865	12.97	ppb		99
80) 1,2,4-Trimethylbenzene	11.248	105	542564	12.27	ppb		99
81) sec-Butylbenzene	11.431	105	613151	13.24	ppb		98
82) 1,3-Dichlorobenzene	11.587	146	260829	11.46	ppb		98
83) p-Isopropyltoluene	11.593	119	481142	12.25	ppb		98
84) 1,4-Dichlorobenzene	11.690	146	253226	11.44	ppb		99
85) 1,2,3-Trimethylbenzene	11.726	105	431849	12.52	ppb		99
86) p-Diethylbenzene	12.029	105	191487	11.94	ppb	#	99
87) 1,2-Dichlorobenzene	12.113	146	188160	10.86	ppb	#	87
88) n-Butylbenzene	12.057	91	346901	11.17	ppb	#	93
89) 1,2-Dibromo-3-chloropr...	13.020	75	8176	10.31	ppb		95
90) 1,2,4,5-Tetramethylben...	12.917	119	267224	10.49	ppb		99
91) 1,2,4-Trichlorobenzene	13.935	180	93282	11.11	ppb		98
92) Hexachloro-1,3-Butadiene	14.105	225	26500	12.36	ppb		95
93) Naphthalene	14.222	128	157633	11.32	ppb		98
94) 1,2,3-Trichlorobenzene	14.500	180	77098	13.08	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611409.D
Acq On : 8 Nov 2018 2:06 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-SCV1
Misc : QBQV6110618A CAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 08 09:47:16 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YK80009
Lab File ID:	QV611524.D	Calibration Date:	11/07/18 07:55
Sequence:	Y8K1229	Injection Date:	11/10/18
Lab Sample ID:	Y8K1229-CCV1	Injection Time:	04:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	10.0	9.16	0.2926535	0.2681846		-8.4	20
1,1,1-Trichloroethane	A	10.0	9.89	1.642363	1.623826	0.1	-1.1	20
1,1,2,2-Tetrachloroethane	A	10.0	9.18	0.9137329	0.8385656	0.3	-8.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane (	A	10.0	10.7	0.9426188	1.011967	0.1	7.4	20
1,1,2-Trichloroethane	A	10.0	7.33	0.2146663	0.157292	0.1	-26.7	20 *
1,1-Dichloroethane	A	10.0	9.54	1.851664	1.766688	0.2	-4.6	20
1,1-Dichloroethylene	A	10.0	9.26	1.401557	1.297658	0.1	-7.4	20
1,2,3-Trichlorobenzene	A	10.0	8.77	0.5024026	0.4406658		-12.3	20
1,2,3-Trichloropropane	A	10.0	9.72	0.2721515	0.2644169		-2.8	20
1,2,4-Trichlorobenzene	A	10.0	9.28	0.7155606	0.6636892	0.2	-7.2	20
1,2,4-Trimethylbenzene	A	10.0	13.1	3.766292	4.920013		30.6	20 *
1,2-Dibromo-3-chloropropane	A	10.0	8.48	6.757007E-02	5.732991E-02	0.05	-15.2	20
1,2-Dibromoethane	A	10.0	7.45	0.1941031	0.1446609	0.1	-25.5	20 *
1,2-Dichlorobenzene	A	10.0	10.2	1.476554	1.500251	0.4	1.6	20
1,2-Dichloroethane	A	10.0	8.22	0.979386	0.8052501	0.1	-17.8	20
1,2-Dichloropropane	A	10.0	7.81	0.297572	0.2323116	0.1	-21.9	20 *
1,3,5-Trimethylbenzene	A	10.0	14.0	4.084821	5.735049		40.4	20 *
1,3-Dichlorobenzene	A	10.0	11.7	1.939387	2.275038	0.6	17.3	20
1,4-Dichlorobenzene	A	10.0	11.4	1.886825	2.152121	0.5	14.1	20
1,4-Dioxane	A	200	162	1.191036E-03	9.63766E-04		-19.1	20
2-Butanone	A	10.0	7.49	7.314935E-02	5.476663E-02	0.1	-25.1	20 *
2-Hexanone	A	10.0	5.21	0.0935935	0.0487498	0.1 *	-47.9	20 *
4-Methyl-2-pentanone	A	10.0	5.17	0.1466188	7.576167E-02	0.1	-48.3	20 *
Acetone	A	10.0	6.02	0.1474799	8.871416E-02	0.1	-39.8	20 *
Acrolein	A	10.0	7.04	8.028395E-02	5.649624E-02		-29.6	20 *
Acrylonitrile	A	10.0	7.86	0.1703321	0.1261273		-26.0	20 *
Benzene	A	10.0	10.2	4.502457	4.574772	0.5	1.6	20
Bromochloromethane	A	10.0	8.20	0.6229549	0.5107893		-18.0	20
Bromodichloromethane	A	10.0	7.77	0.3695632	0.2871096	0.2	-22.3	20 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YK80009
Lab File ID:	QV611524.D	Calibration Date:	11/07/18 07:55
Sequence:	Y8K1229	Injection Date:	11/10/18
Lab Sample ID:	Y8K1229-CCV1	Injection Time:	04:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bromoform	A	10.0	8.04	0.1144713	9.198447E-02	0.1	-19.6	20
Bromomethane	A	10.0	8.02	0.3069142	0.2382326	0.1	-22.4	20 *
Carbon disulfide	A	10.0	10.0	2.426885	2.435567	0.1	0.4	20
Carbon tetrachloride	A	10.0	10.2	1.427124	1.4504	0.1	1.6	20
Chlorobenzene	A	10.0	9.46	0.8555771	0.8094083	0.5	-5.4	20
Chloroethane	A	10.0	9.63	0.6570108	0.6326532	0.1	-3.7	20
Chloroform	A	10.0	9.78	1.859677	1.817862	0.2	-2.2	20
Chloromethane	A	10.0	11.5	0.4584297	0.52843	0.1	15.3	20
cis-1,2-Dichloroethylene	A	10.0	8.93	1.617579	1.444318	0.1	-10.7	20
cis-1,3-Dichloropropylene	A	10.0	7.24	0.4671364	0.3382498	0.2	-27.6	20 *
Cyclohexane	A	10.0	9.90	1.676809	1.66034	0.1	-1.0	20
Dibromochloromethane	A	10.0	7.60	0.2516527	0.1912892	0.1	-24.0	20 *
Dibromomethane	A	10.0	7.25	0.1391445	0.1008793		-27.5	20 *
Dichlorodifluoromethane	A	10.0	10.1	0.6312775	0.6348551	0.1	0.6	20
Ethyl Benzene	A	10.0	9.87	1.383528	1.366179	0.1	-1.3	20
Hexachlorobutadiene	A	10.0	13.6	0.1826726	0.2493954		36.5	20 *
Isopropylbenzene	A	10.0	13.7	6.626127	9.05184	0.1	36.6	20 *
Methyl acetate	A	10.0	8.05	0.3267957	0.2629449	0.1	-19.5	20
Methyl tert-butyl ether (MTBE)	A	10.0	8.19	2.448378	2.005616	0.1	-18.1	20
Methylcyclohexane	A	10.0	9.79	0.4942958	0.4838832	0.1	-2.1	20
Methylene chloride	A	10.0	8.43	1.008705	0.8499327	0.1	-15.7	20
n-Butylbenzene	A	10.0	12.8	2.645104	3.395525		28.4	20 *
n-Propylbenzene	A	10.0	13.6	6.428372	8.742805		36.0	20 *
o-Xylene	A	10.0	10.2	0.9498105	0.9688879	0.3	2.0	20
p- & m- Xylenes	A	20.0	20.2	0.9733882	0.9834976	0.1	1.0	20
p-Isopropyltoluene	A	10.0	14.2	3.347342	4.749853		41.9	20 *
sec-Butylbenzene	A	10.0	14.8	3.945398	5.859458		48.5	20 *
Styrene	A	10.0	10.0	0.7489434	0.7497788	0.3	0.1	20
tert-Butyl alcohol (TBA)	A	10.0	7.51	6.241242E-02	4.687171E-02		-24.9	20 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YK80009
Lab File ID:	QV611524.D	Calibration Date:	11/07/18 07:55
Sequence:	Y8K1229	Injection Date:	11/10/18
Lab Sample ID:	Y8K1229-CCV1	Injection Time:	04:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
tert-Butylbenzene	A	10.0	14.9	3.356285	4.993769		48.8	20 *
Tetrachloroethylene	A	10.0	10.5	0.4430147	0.4649167	0.2	4.9	20
Toluene	A	10.0	8.99	1.436652	1.291735	0.4	-10.1	20
trans-1,2-Dichloroethylene	A	10.0	9.16	1.412705	1.294595	0.1	-8.4	20
trans-1,3-Dichloropropylene	A	10.0	6.53	0.3725824	0.2433834	0.1	-34.7	20 *
trans-1,4-dichloro-2-butene	A	10.0	8.34	0.9978131	0.8317466		-16.6	20
Trichloroethylene	A	10.0	8.75	0.3343918	0.2924758	0.2	-12.5	20
Trichlorofluoromethane	A	10.0	10.9	1.30153	1.415131	0.1	8.7	20
Vinyl Chloride	A	10.0	8.41	1.017593	0.8562575	0.1	-15.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611524.D
Acq On : 10 Nov 2018 4:26 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6110918B CCV AQU
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Nov 12 11:26:08 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.075	70	156683	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	650936	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	91802	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.778	65	115070m	7.79	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 77.90%				
51) Toluene-d8 (SURR)	7.617	98	905440	9.40	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 94.00%				
70) p-Bromofluorobenzene (...	10.379	95	218880m	12.08	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 120.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.490	85	99471	10.06	ppb	#	1
3) Chloromethane	1.716	50	82796	11.53	ppb	#	43
4) Vinyl Chloride	1.819	62	134161	8.41	ppb	#	47
5) Bromomethane	2.194	94	37327	8.02	ppb		65
6) Chloroethane	2.319	64	99126	9.63	ppb		89
7) Trichlorofluoromethane	2.600	101	221727	10.87	ppb		97
8) Ethanol	2.895	45	24910m	367.97	ppb		
9) Freon-113	3.165	101	158558	10.74	ppb		96
10) 1,1-Dichloroethylene	3.173	61	203321	9.26	ppb	#	73
11) Acrolein	3.115	56	8852m	7.04	ppb		
12) Acetone	3.285	43	13900m	6.02	ppb		
13) Iodomethane	3.343	142	78575m	12.47	ppb		
14) Methyl Acetate	3.613	43	41199m	8.05	ppb		
15) Carbon disulfide	3.402	76	381612	10.04	ppb		100
16) tert-Butyl Alcohol (TBA)	3.866	59	7344m	7.51	ppb		
17) Methylene Chloride	3.710	49	133170	8.43	ppb	#	44
18) Acrylonitrile	3.994	53	19762m	7.86	ppb		
19) trans-1,2-Dichloroethy...	3.975	61	202841	9.16	ppb	#	89
20) tert-Butyl Methyl Ethe...	3.958	73	314246	8.19	ppb	#	88
21) 1,1-Dichloroethane	4.403	63	276810	9.54	ppb		98
22) Vinyl Acetate	4.442	43	236225	6.93	ppb		100
23) Diisopropyl ether (DIPE)	4.437	45	379012	8.36	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.790	59	400613	8.83	ppb	#	93
25) cis-1,2-Dichloroethylene	4.982	61	226300	8.93	ppb	#	77
26) 2-Butanone	5.013	72	8581m	7.49	ppb		
27) 2,2-Dichloropropane	4.957	77	153001m	6.50	ppb		
28) Tetrahydrofuran	5.271	42	16529m	7.02	ppb		
29) Bromochloromethane	5.218	49	80032	8.20	ppb	#	55
30) Chloroform	5.294	83	284828	9.78	ppb	#	84
31) 1,1,1-Trichloroethane	5.444	97	254426	9.89	ppb		94
32) Cyclohexane	5.474	56	260147	9.90	ppb	#	69
33) 1,1-Dichloropropylene	5.600	75	225251	9.58	ppb	#	83
35) Carbon Tetrachloride	5.597	117	227253	10.16	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.822	59	60044	68.30	ppb		89
37) 1,2-Dichloroethane	5.850	62	126169m	8.22	ppb		
38) Benzene	5.805	78	716789	10.16	ppb	#	86
39) tert-Amyl methyl ether...	5.889	73	369995	8.74	ppb	#	99
41) Trichloroethylene	6.429	95	190383	8.75	ppb		94
42) Methyl Cyclohexane	6.582	83	314977	9.79	ppb	#	68
43) Methyl Methacrylate	6.749	69	59514	6.57	ppb	#	54
44) Dibromomethane	6.793	93	65666	7.25	ppb		90
45) Bromodichloromethane	6.938	83	186890	7.77	ppb	#	92
46) 1,2-Dichloropropane	6.660	63	151220	7.81	ppb	#	99

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611524.D
Acq On : 10 Nov 2018 4:26 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6110918B CCV AQU
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Nov 12 11:26:08 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

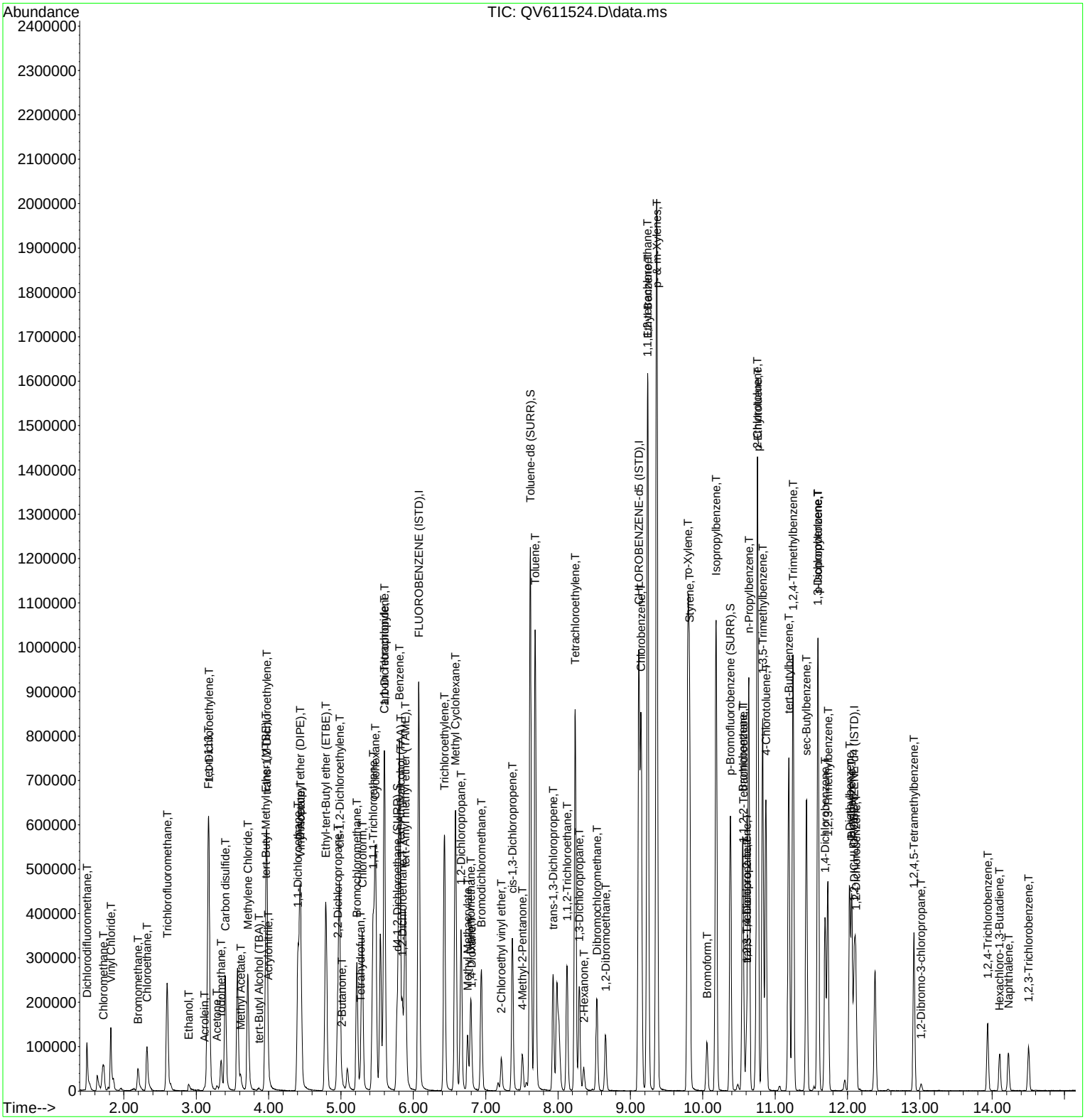
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 1,4-Dioxane	6.807	88	12547	161.84	ppb	#	92
48) 2-Chloroethyl vinyl ether	7.216	63	34758m	7.71	ppb		
49) cis-1,3-Dichloropropene	7.369	75	220179m	7.24	ppb		
50) 4-Methyl-2-Pentanone	7.508	43	49316	5.17	ppb	#	67
52) Toluene	7.683	91	840837	8.99	ppb		99
53) trans-1,3-Dichloropropene	7.931	75	158427	6.53	ppb		98
54) 1,1,2-Trichloroethane	8.123	97	102387	7.33	ppb	#	86
55) 1,3-Dichloropropane	8.293	76	166313	7.14	ppb	#	54
56) Tetrachloroethylene	8.237	166	302631	10.49	ppb	#	100
57) 2-Hexanone	8.357	43	31733	5.21	ppb	#	75
58) Dibromochloromethane	8.538	129	124517m	7.60	ppb		
59) 1,2-Dibromoethane	8.657	107	94165m	7.45	ppb		
60) Chlorobenzene	9.147	112	526873	9.46	ppb	#	88
61) 1,1,1,2-tetrachloroethane	9.236	131	174571	9.16	ppb		98
62) Ethyl Benzene	9.242	91	889295	9.87	ppb		98
63) p- & m-Xylenes	9.364	91	1280388	20.21	ppb		98
64) o-Xylene	9.795	91	630684	10.20	ppb		99
65) Styrene	9.817	104	488058	10.01	ppb		96
66) Bromoform	10.060	173	59876	8.04	ppb		99
68) p-Ethyltoluene	10.761	105	663423	14.52	ppb	#	57
69) Isopropylbenzene	10.185	105	830977	13.66	ppb		97
71) 1,1,2,2-Tetrachloroethane	10.560	83	76982	9.18	ppb	#	99
72) Bromobenzene	10.552	77	211525	10.82	ppb	#	80
73) trans-1,4-Dichloro-2-b...	10.608	75	76356	8.34	ppb	#	65
74) 1,2,3-Trichloropropane	10.608	110	24274	9.72	ppb		87
75) n-Propylbenzene	10.635	91	802607	13.60	ppb		96
76) 2-Chlorotoluene	10.752	91	507176	12.78	ppb		99
77) 4-Chlorotoluene	10.872	91	421550m	12.35	ppb		
78) 1,3,5-Trimethylbenzene	10.827	105	526489	14.04	ppb		96
79) tert-Butylbenzene	11.189	119	458438	14.88	ppb		95
80) 1,2,4-Trimethylbenzene	11.248	105	451667	13.06	ppb		97
81) sec-Butylbenzene	11.431	105	537910	14.85	ppb		96
82) 1,3-Dichlorobenzene	11.590	146	208853	11.73	ppb		96
83) p-Isopropyltoluene	11.593	119	436046	14.19	ppb		97
84) 1,4-Dichlorobenzene	11.690	146	197569	11.41	ppb		97
85) 1,2,3-Trimethylbenzene	11.729	105	308649	11.44	ppb		97
86) p-Diethylbenzene	12.029	105	170452	13.59	ppb	#	96
87) 1,2-Dichlorobenzene	12.116	146	137726	10.16	ppb	#	74
88) n-Butylbenzene	12.057	91	311716	12.84	ppb	#	91
89) 1,2-Dibromo-3-chloropr...	13.017	75	5263m	8.48	ppb		
90) 1,2,4,5-Tetramethylben...	12.917	119	220097	11.04	ppb		97
91) 1,2,4-Trichlorobenzene	13.938	180	60928	9.28	ppb	#	96
92) Hexachloro-1,3-Butadiene	14.099	225	22895	13.65	ppb		94
93) Naphthalene	14.225	128	82835m	7.61	ppb		
94) 1,2,3-Trichlorobenzene	14.503	180	40454	8.77	ppb	#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611524.D
Acq On : 10 Nov 2018 4:26 am
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6110918B CCV AQU
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Nov 12 11:26:08 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YK80009
Lab File ID:	QV611594.D	Calibration Date:	11/07/18 07:55
Sequence:	Y8K1410	Injection Date:	11/13/18
Lab Sample ID:	Y8K1410-CCV1	Injection Time:	12:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	10.0	10.7	0.2926535	0.3137055		7.2	20
1,1,1-Trichloroethane	A	10.0	11.5	1.642363	1.883547	0.1	14.7	20
1,1,2,2-Tetrachloroethane	A	10.0	13.1	0.9137329	1.193213	0.3	30.6	20 *
1,1,2-Trichloro-1,2,2-trifluoroethane (	A	10.0	12.1	0.9426188	1.141512	0.1	21.1	20 *
1,1,2-Trichloroethane	A	10.0	10.5	0.2146663	0.2260247	0.1	5.3	20
1,1-Dichloroethane	A	10.0	11.3	1.851664	2.093074	0.2	13.0	20
1,1-Dichloroethylene	A	10.0	11.2	1.401557	1.569613	0.1	12.0	20
1,2,3-Trichlorobenzene	A	10.0	8.32	0.5024026	0.4178193		-16.8	20
1,2,3-Trichloropropane	A	10.0	13.2	0.2721515	0.3590351		31.9	20 *
1,2,4-Trichlorobenzene	A	10.0	8.12	0.7155606	0.580853	0.2	-18.8	20
1,2,4-Trimethylbenzene	A	10.0	11.5	3.766292	4.314659		14.6	20
1,2-Dibromo-3-chloropropane	A	10.0	9.95	6.757007E-02	6.723521E-02	0.05	-0.5	20
1,2-Dibromoethane	A	10.0	11.2	0.1941031	0.2180918	0.1	12.4	20
1,2-Dichlorobenzene	A	10.0	10.4	1.476554	1.528489	0.4	3.5	20
1,2-Dichloroethane	A	10.0	12.3	0.979386	1.203269	0.1	22.9	20 *
1,2-Dichloropropane	A	10.0	10.1	0.297572	0.3008944	0.1	1.1	20
1,3,5-Trimethylbenzene	A	10.0	11.6	4.084821	4.748123		16.2	20
1,3-Dichlorobenzene	A	10.0	10.9	1.939387	2.118215	0.6	9.2	20
1,4-Dichlorobenzene	A	10.0	11.0	1.886825	2.074056	0.5	9.9	20
1,4-Dioxane	A	200	242	1.191036E-03	1.439798E-03		20.9	20 *
2-Butanone	A	10.0	13.5	7.314935E-02	9.848631E-02	0.1	34.6	20 *
2-Hexanone	A	10.0	12.0	0.0935935	0.1123767	0.1	20.1	20 *
4-Methyl-2-pentanone	A	10.0	10.4	0.1466188	0.1524527	0.1	4.0	20
Acetone	A	10.0	14.5	0.1474799	0.2135763	0.1	44.8	20 *
Acrolein	A	10.0	11.2	8.028395E-02	9.033262E-02		12.5	20
Acrylonitrile	A	10.0	11.3	0.1703321	0.1807196		6.1	20
Benzene	A	10.0	11.3	4.502457	5.076297	0.5	12.7	20
Bromochloromethane	A	10.0	12.2	0.6229549	0.7626441		22.4	20 *
Bromodichloromethane	A	10.0	10.7	0.3695632	0.3967871	0.2	7.4	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YK80009
Lab File ID:	QV611594.D	Calibration Date:	11/07/18 07:55
Sequence:	Y8K1410	Injection Date:	11/13/18
Lab Sample ID:	Y8K1410-CCV1	Injection Time:	12:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bromoform	A	10.0	13.2	0.1144713	0.1513294	0.1	32.2	20 *
Bromomethane	A	10.0	12.6	0.3069142	0.3757562	0.1	22.4	20 *
Carbon disulfide	A	10.0	10.4	2.426885	2.533882	0.1	4.4	20
Carbon tetrachloride	A	10.0	11.5	1.427124	1.642457	0.1	15.1	20
Chlorobenzene	A	10.0	10.3	0.8555771	0.8843532	0.5	3.4	20
Chloroethane	A	10.0	10.4	0.6570108	0.6865249	0.1	4.5	20
Chloroform	A	10.0	11.6	1.859677	2.15134	0.2	15.7	20
Chloromethane	A	10.0	9.34	0.4584297	0.4279626	0.1	-6.6	20
cis-1,2-Dichloroethylene	A	10.0	11.2	1.617579	1.806292	0.1	11.7	20
cis-1,3-Dichloropropylene	A	10.0	10.4	0.4671364	0.487489	0.2	4.4	20
Cyclohexane	A	10.0	10.5	1.676809	1.759236	0.1	4.9	20
Dibromochloromethane	A	10.0	11.1	0.2516527	0.2794686	0.1	11.1	20
Dibromomethane	A	10.0	10.9	0.1391445	0.1514497		8.8	20
Dichlorodifluoromethane	A	10.0	10.0	0.6312775	0.6338544	0.1	0.4	20
Ethyl Benzene	A	10.0	10.8	1.383528	1.492849	0.1	7.9	20
Hexachlorobutadiene	A	10.0	8.13	0.1826726	0.1485764		-18.7	20
Isopropylbenzene	A	10.0	11.4	6.626127	7.569135	0.1	14.2	20
Methyl acetate	A	10.0	12.3	0.3267957	0.400726	0.1	22.6	20 *
Methyl tert-butyl ether (MTBE)	A	10.0	11.8	2.448378	2.881957	0.1	17.7	20
Methylcyclohexane	A	10.0	8.06	0.4942958	0.3985984	0.1	-19.4	20
Methylene chloride	A	10.0	11.2	1.008705	1.133363	0.1	12.4	20
n-Butylbenzene	A	10.0	9.95	2.645104	2.632893		-0.5	20
n-Propylbenzene	A	10.0	11.7	6.428372	7.539413		17.3	20
o-Xylene	A	10.0	11.4	0.9498105	1.078181	0.3	13.5	20
p- & m- Xylenes	A	20.0	22.0	0.9733882	1.07276	0.1	10.2	20
p-Isopropyltoluene	A	10.0	10.8	3.347342	3.602693		7.6	20
sec-Butylbenzene	A	10.0	11.2	3.945398	4.422463		12.1	20
Styrene	A	10.0	11.6	0.7489434	0.8668552	0.3	15.7	20
tert-Butyl alcohol (TBA)	A	10.0	11.8	6.241242E-02	7.341285E-02		17.6	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YK80009
Lab File ID:	QV611594.D	Calibration Date:	11/07/18 07:55
Sequence:	Y8K1410	Injection Date:	11/13/18
Lab Sample ID:	Y8K1410-CCV1	Injection Time:	12:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	10.0	11.3	3.356285	3.803177		13.3	20	
Tetrachloroethylene	A	10.0	8.89	0.4430147	0.3938057	0.2	-11.1	20	
Toluene	A	10.0	10.1	1.436652	1.449345	0.4	0.9	20	
trans-1,2-Dichloroethylene	A	10.0	10.6	1.412705	1.495805	0.1	5.9	20	
trans-1,3-Dichloropropylene	A	10.0	10.6	0.3725824	0.3940318	0.1	5.8	20	
trans-1,4-dichloro-2-butene	A	10.0	13.2	0.9978131	1.318164		32.1	20	*
Trichloroethylene	A	10.0	9.66	0.3343918	0.3229866	0.2	-3.4	20	
Trichlorofluoromethane	A	10.0	13.0	1.30153	1.687187	0.1	29.6	20	*
Vinyl Chloride	A	10.0	10.2	1.017593	1.034017	0.1	1.6	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611594A.D
Acq On : 13 Nov 2018 12:54 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6111318A CCV AQU
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 13 13:25:12 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.076	70	202485	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.117	117	831471	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.091	152	142351	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.778	65	223398	11.70	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 117.00%				
51) Toluene-d8 (SURR)	7.617	98	1089880	8.86	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 88.60%				
70) p-Bromofluorobenzene (...	10.383	95	315228	11.22	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 112.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.490	85	128346	10.04	ppb	#	1
3) Chloromethane	1.733	50	86656	9.34	ppb	#	42
4) Vinyl Chloride	1.819	62	209373	10.16	ppb	#	43
5) Bromomethane	2.197	94	76085	12.65	ppb		66
6) Chloroethane	2.317	64	139011	10.45	ppb		89
7) Trichlorofluoromethane	2.601	101	341630	12.96	ppb		98
8) Ethanol	2.896	45	46224	528.36	ppb	#	1
9) Freon-113	3.163	101	231139	12.11	ppb		100
10) 1,1-Dichloroethylene	3.177	61	317823	11.20	ppb	#	81
11) Acrolein	3.110	56	18291m	11.25	ppb		
12) Acetone	3.279	43	43246	14.48	ppb	#	97
13) Iodomethane	3.343	142	101402	12.46	ppb		96
14) Methyl Acetate	3.611	43	81141	12.26	ppb	#	96
15) Carbon disulfide	3.402	76	513073	10.44	ppb		100
16) tert-Butyl Alcohol (TBA)	3.866	59	14865	11.76	ppb	#	1
17) Methylene Chloride	3.711	49	229489	11.24	ppb	#	56
18) Acrylonitrile	4.000	53	36593m	11.26	ppb		
19) trans-1,2-Dichloroethy...	3.975	61	302878	10.59	ppb		92
20) tert-Butyl Methyl Ethe...	3.961	73	583553	11.77	ppb	#	88
21) 1,1-Dichloroethane	4.406	63	423816	11.30	ppb	#	97
22) Vinyl Acetate	4.445	43	506004	11.48	ppb	#	100
23) Diisopropyl ether (DIPE)	4.437	45	664015	11.33	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.790	59	697084	11.89	ppb	#	94
25) cis-1,2-Dichloroethylene	4.979	61	365747	11.17	ppb	#	64
26) 2-Butanone	5.013	72	19942	13.46	ppb	#	95
27) 2,2-Dichloropropane	4.960	77	377534	12.42	ppb	#	74
28) Tetrahydrofuran	5.274	42	36109m	11.87	ppb		
29) Bromochloromethane	5.219	49	154424	12.24	ppb	#	70
30) Chloroform	5.294	83	435614	11.57	ppb	#	92
31) 1,1,1-Trichloroethane	5.444	97	381390	11.47	ppb	#	82
32) Cyclohexane	5.477	56	356219	10.49	ppb	#	75
33) 1,1-Dichloropropylene	5.603	75	334169	11.00	ppb	#	85
35) Carbon Tetrachloride	5.597	117	332573	11.51	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.825	59	141777	124.80	ppb	#	78
37) 1,2-Dichloroethane	5.850	62	243644	12.29	ppb		99
38) Benzene	5.809	78	1027874	11.27	ppb	#	87
39) tert-Amyl methyl ether...	5.886	73	668395	12.21	ppb	#	100
41) Trichloroethylene	6.429	95	268554	9.66	ppb		98
42) Methyl Cyclohexane	6.582	83	331423	8.06	ppb	#	72
43) Methyl Methacrylate	6.749	69	123959	10.72	ppb	#	59
44) Dibromomethane	6.793	93	125926	10.88	ppb		98
45) Bromodichloromethane	6.941	83	329917	10.74	ppb	#	93
46) 1,2-Dichloropropane	6.660	63	250185	10.11	ppb	#	99
47) 1,4-Dioxane	6.805	88	23943	241.77	ppb	#	86
48) 2-Chloroethyl vinyl ether	7.216	63	62490	10.85	ppb	#	92
49) cis-1,3-Dichloropropene	7.369	75	405333	10.44	ppb	#	74
50) 4-Methyl-2-Pentanone	7.503	43	126760	10.40	ppb	#	76
52) Toluene	7.684	91	1205088	10.09	ppb		100

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611594A.D
Acq On : 13 Nov 2018 12:54 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6111318A CCV AQU
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 13 13:25:12 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

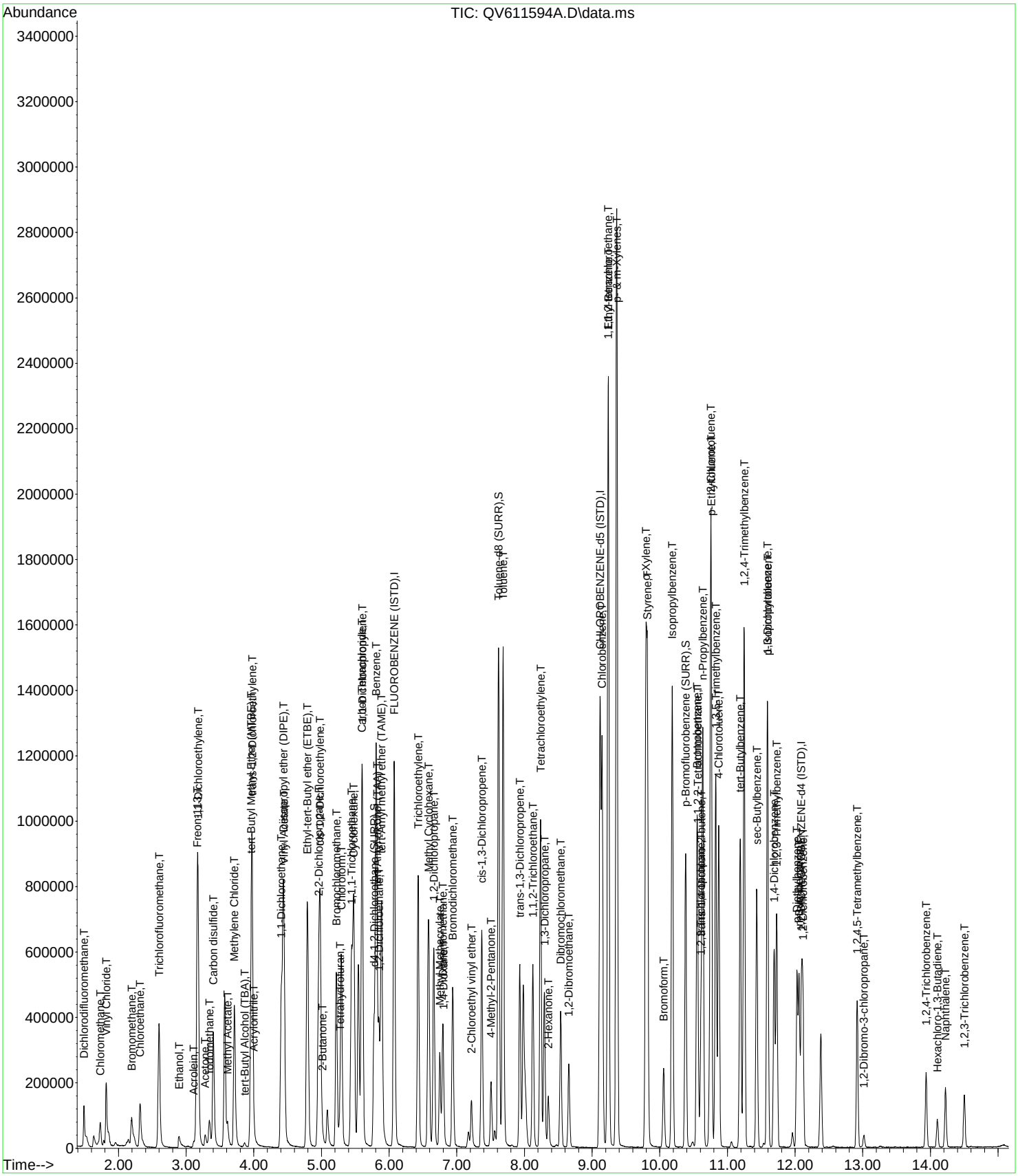
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.931	75	327626	10.58	ppb		99
54) 1,1,2-Trichloroethane	8.123	97	187933	10.53	ppb		90
55) 1,3-Dichloropropane	8.296	76	315014	10.59	ppb	#	81
56) Tetrachloroethylene	8.237	166	327438	8.89	ppb	#	100
57) 2-Hexanone	8.351	43	93438	12.01	ppb	#	81
58) Dibromochloromethane	8.535	129	232370	11.11	ppb		97
59) 1,2-Dibromoethane	8.655	107	181337	11.24	ppb		98
60) Chlorobenzene	9.147	112	735314	10.34	ppb	#	92
61) 1,1,1,2-tetrachloroethane	9.236	131	260837	10.72	ppb		98
62) Ethyl Benzene	9.239	91	1241261	10.79	ppb		100
63) p- & m-Xylenes	9.364	91	1783938	22.04	ppb		99
64) o-Xylene	9.795	91	896476	11.35	ppb		100
65) Styrene	9.818	104	720765	11.57	ppb		98
66) Bromoform	10.057	173	125826	13.22	ppb	#	79
68) p-Ethyltoluene	10.761	105	832932	11.75	ppb	#	70
69) Isopropylbenzene	10.182	105	1077474	11.42	ppb		99
71) 1,1,2,2-Tetrachloroethane	10.561	83	169855	13.06	ppb	#	69
72) Bromobenzene	10.552	77	360177	11.88	ppb	#	90
73) trans-1,4-Dichloro-2-b...	10.611	75	187642	13.21	ppb	#	64
74) 1,2,3-Trichloropropane	10.608	110	51109	13.19	ppb		98
75) n-Propylbenzene	10.636	91	1073243	11.73	ppb		98
76) 2-Chlorotoluene	10.753	91	720601	11.71	ppb		100
77) 4-Chlorotoluene	10.872	91	622055	11.75	ppb		99
78) 1,3,5-Trimethylbenzene	10.828	105	675900	11.62	ppb		99
79) tert-Butylbenzene	11.189	119	541386	11.33	ppb		99
80) 1,2,4-Trimethylbenzene	11.248	105	614196	11.46	ppb		99
81) sec-Butylbenzene	11.434	105	629542	11.21	ppb		99
82) 1,3-Dichlorobenzene	11.590	146	301530	10.92	ppb		98
83) p-Isopropyltoluene	11.593	119	512847	10.76	ppb		99
84) 1,4-Dichlorobenzene	11.690	146	295244	10.99	ppb		98
85) 1,2,3-Trimethylbenzene	11.726	105	453882	10.85	ppb		99
86) p-Diethylbenzene	12.027	105	196197	10.09	ppb	#	99
87) 1,2-Dichlorobenzene	12.116	146	217582	10.35	ppb		99
88) n-Butylbenzene	12.057	91	374795	9.95	ppb		97
89) 1,2-Dibromo-3-chloropr...	13.015	75	9571	9.95	ppb	#	55
90) 1,2,4,5-Tetramethylben...	12.917	119	274622	8.88	ppb		99
91) 1,2,4-Trichlorobenzene	13.935	180	82685	8.12	ppb		97
92) Hexachloro-1,3-Butadiene	14.102	225	21150	8.13	ppb		94
93) Naphthalene	14.222	128	160493	9.51	ppb		99
94) 1,2,3-Trichlorobenzene	14.500	180	59477	8.32	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611594A.D
Acq On : 13 Nov 2018 12:54 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6111318A CCV AQU
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 13 13:25:12 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YK80009
Lab File ID:	QV611650.D	Calibration Date:	11/07/18 07:55
Sequence:	Y8K1430	Injection Date:	11/14/18
Lab Sample ID:	Y8K1430-CCV1	Injection Time:	13:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	10.0	10.7	0.2926535	0.3131868		7.0	20
1,1,1-Trichloroethane	A	10.0	10.9	1.642363	1.791901	0.1	9.1	20
1,1,2,2-Tetrachloroethane	A	10.0	8.84	0.9137329	0.8079729	0.3	-11.6	20
1,1,2-Trichloro-1,2,2-trifluoroethane (	A	10.0	10.5	0.9426188	0.9861405	0.1	4.6	20
1,1,2-Trichloroethane	A	10.0	10.7	0.2146663	0.2297215	0.1	7.0	20
1,1-Dichloroethane	A	10.0	10.9	1.851664	2.015302	0.2	8.8	20
1,1-Dichloroethylene	A	10.0	10.5	1.401557	1.475295	0.1	5.3	20
1,2,3-Trichlorobenzene	A	10.0	8.01	0.5024026	0.4022285		-19.9	20
1,2,3-Trichloropropane	A	10.0	9.23	0.2721515	0.2511166		-7.7	20
1,2,4-Trichlorobenzene	A	10.0	8.18	0.7155606	0.5856553	0.2	-18.2	20
1,2,4-Trimethylbenzene	A	10.0	9.87	3.766292	3.718207		-1.3	20
1,2-Dibromo-3-chloropropane	A	10.0	8.96	6.757007E-02	6.054214E-02	0.05	-10.4	20
1,2-Dibromoethane	A	10.0	10.4	0.1941031	0.2016752	0.1	3.9	20
1,2-Dichlorobenzene	A	10.0	10.2	1.476554	1.513437	0.4	2.5	20
1,2-Dichloroethane	A	10.0	11.1	0.979386	1.084867	0.1	10.8	20
1,2-Dichloropropane	A	10.0	11.8	0.297572	0.351972	0.1	18.3	20
1,3,5-Trimethylbenzene	A	10.0	9.67	4.084821	3.951922		-3.3	20
1,3-Dichlorobenzene	A	10.0	9.77	1.939387	1.894749	0.6	-2.3	20
1,4-Dichlorobenzene	A	10.0	9.88	1.886825	1.863361	0.5	-1.2	20
1,4-Dioxane	A	200	224	1.191036E-03	1.33438E-03		12.0	20
2-Butanone	A	10.0	9.06	7.314935E-02	6.624695E-02	0.1	-9.4	20
2-Hexanone	A	10.0	8.23	0.0935935	0.0770492	0.1 *	-17.7	20
4-Methyl-2-pentanone	A	10.0	9.19	0.1466188	0.1347065	0.1	-8.1	20
Acetone	A	10.0	8.29	0.1474799	0.1222968	0.1	-17.1	20
Acrolein	A	10.0	8.02	8.028395E-02	6.442386E-02		-19.8	20
Acrylonitrile	A	10.0	8.53	0.1703321	0.1367842		-19.7	20
Benzene	A	10.0	10.7	4.502457	4.800623	0.5	6.6	20
Bromochloromethane	A	10.0	10.8	0.6229549	0.674749		8.3	20
Bromodichloromethane	A	10.0	11.9	0.3695632	0.4383034	0.2	18.6	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YK80009
Lab File ID:	QV611650.D	Calibration Date:	11/07/18 07:55
Sequence:	Y8K1430	Injection Date:	11/14/18
Lab Sample ID:	Y8K1430-CCV1	Injection Time:	13:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	8.00	0.1144713	9.154518E-02	0.1	-20.0	20	
Bromomethane	A	10.0	8.33	0.3069142	0.2473727	0.1	-19.4	20	
Carbon disulfide	A	10.0	8.73	2.426885	2.119655	0.1	-12.7	20	
Carbon tetrachloride	A	10.0	10.5	1.427124	1.498197	0.1	5.0	20	
Chlorobenzene	A	10.0	9.96	0.8555771	0.8521576	0.5	-0.4	20	
Chloroethane	A	10.0	8.84	0.6570108	0.5805075	0.1	-11.6	20	
Chloroform	A	10.0	11.2	1.859677	2.07915	0.2	11.8	20	
Chloromethane	A	10.0	7.82	0.4584297	0.3586378	0.1	-21.8	20	*
cis-1,2-Dichloroethylene	A	10.0	9.94	1.617579	1.608417	0.1	-0.6	20	
cis-1,3-Dichloropropylene	A	10.0	10.4	0.4671364	0.4841885	0.2	3.7	20	
Cyclohexane	A	10.0	9.72	1.676809	1.629071	0.1	-2.8	20	
Dibromochloromethane	A	10.0	10.0	0.2516527	0.2524753	0.1	0.3	20	
Dibromomethane	A	10.0	11.5	0.1391445	0.1605209		15.4	20	
Dichlorodifluoromethane	A	10.0	7.50	0.6312775	0.47331	0.1	-25.0	20	*
Ethyl Benzene	A	10.0	10.5	1.383528	1.458494	0.1	5.4	20	
Hexachlorobutadiene	A	10.0	7.45	0.1826726	0.1361676		-25.5	20	*
Isopropylbenzene	A	10.0	10.1	6.626127	6.70786	0.1	1.2	20	
Methyl acetate	A	10.0	10.4	0.3267957	0.3398235	0.1	4.0	20	
Methyl tert-butyl ether (MTBE)	A	10.0	10.2	2.448378	2.48471	0.1	1.5	20	
Methylcyclohexane	A	10.0	9.94	0.4942958	0.491507	0.1	-0.6	20	
Methylene chloride	A	10.0	9.76	1.008705	0.984759	0.1	-2.4	20	
n-Butylbenzene	A	10.0	9.72	2.645104	2.570016		-2.8	20	
n-Propylbenzene	A	10.0	9.72	6.428372	6.250892		-2.8	20	
o-Xylene	A	10.0	10.1	0.9498105	0.9556707	0.3	0.6	20	
p- & m- Xylenes	A	20.0	20.7	0.9733882	1.007663	0.1	3.5	20	
p-Isopropyltoluene	A	10.0	9.45	3.347342	3.16169		-5.5	20	
sec-Butylbenzene	A	10.0	9.28	3.945398	3.66305		-7.2	20	
Styrene	A	10.0	9.60	0.7489434	0.7190958	0.3	-4.0	20	
tert-Butyl alcohol (TBA)	A	10.0	8.65	6.241242E-02	5.399985E-02		-13.5	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YK80009
Lab File ID:	QV611650.D	Calibration Date:	11/07/18 07:55
Sequence:	Y8K1430	Injection Date:	11/14/18
Lab Sample ID:	Y8K1430-CCV1	Injection Time:	13:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
tert-Butylbenzene	A	10.0	9.41	3.356285	3.159929		-5.9	20
Tetrachloroethylene	A	10.0	11.4	0.4430147	0.5027861	0.2	13.5	20
Toluene	A	10.0	11.4	1.436652	1.641485	0.4	14.3	20
trans-1,2-Dichloroethylene	A	10.0	10.0	1.412705	1.414153	0.1	0.1	20
trans-1,3-Dichloropropylene	A	10.0	9.70	0.3725824	0.3614818	0.1	-3.0	20
trans-1,4-dichloro-2-butene	A	10.0	8.05	0.9978131	0.8035684		-19.5	20
Trichloroethylene	A	10.0	11.6	0.3343918	0.3873038	0.2	15.8	20
Trichlorofluoromethane	A	10.0	11.6	1.30153	1.515808	0.1	16.5	20
Vinyl Chloride	A	10.0	8.68	1.017593	0.8837113	0.1	-13.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611650.D
Acq On : 14 Nov 2018 1:27 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6111318C CCV SOIL
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 14 15:37:20 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.078	70	246834	10.00	ppb	#	0.01
40) CHLOROBENZENE-d5 (ISTD)	9.119	117	786770	10.00	ppb	#	0.01
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	129414	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.778	65	244426	10.50	ppb		0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.00%				
51) Toluene-d8 (SURR)	7.620	98	1237746	10.63	ppb		0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.30%				
70) p-Bromofluorobenzene (...	10.385	95	229914	9.00	ppb		0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	116829m	7.50	ppb		
3) Chloromethane	1.730	50	88524m	7.82	ppb		
4) Vinyl Chloride	1.827	62	218130	8.68	ppb	#	47
5) Bromomethane	2.203	94	61060	8.33	ppb		64
6) Chloroethane	2.331	64	143289	8.84	ppb		89
7) Trichlorofluoromethane	2.606	101	374153	11.65	ppb		98
8) Ethanol	2.901	45	32429	304.08	ppb	#	1
9) Freon-113	3.171	101	243413	10.46	ppb		100
10) 1,1-Dichloroethylene	3.179	61	364153	10.53	ppb		84
11) Acrolein	3.118	56	15902m	8.02	ppb		
12) Acetone	3.293	43	30187	8.29	ppb	#	94
13) Iodomethane	3.349	142	87228	8.79	ppb		96
14) Methyl Acetate	3.616	43	83880	10.40	ppb	#	95
15) Carbon disulfide	3.407	76	523203	8.73	ppb		100
16) tert-Butyl Alcohol (TBA)	3.869	59	13329	8.65	ppb	#	1
17) Methylene Chloride	3.719	49	243072	9.76	ppb	#	58
18) Acrylonitrile	4.000	53	33763	8.53	ppb	#	80
19) trans-1,2-Dichloroethy...	3.980	61	349061	10.01	ppb	#	74
20) tert-Butyl Methyl Ethe...	3.967	73	613311	10.15	ppb	#	88
21) 1,1-Dichloroethane	4.412	63	497445	10.88	ppb		98
22) Vinyl Acetate	4.445	43	472109	8.79	ppb		100
23) Diisopropyl ether (DIPE)	4.440	45	768069	10.75	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.796	59	789423	11.05	ppb	#	95
25) cis-1,2-Dichloroethylene	4.982	61	397012	9.94	ppb	#	64
26) 2-Butanone	5.013	72	16352m	9.06	ppb		
27) 2,2-Dichloropropane	4.965	77	225994m	6.10	ppb		
28) Tetrahydrofuran	5.269	42	32416m	8.75	ppb		
29) Bromochloromethane	5.224	49	166551	10.83	ppb	#	71
30) Chloroform	5.296	83	513205	11.18	ppb	#	84
31) 1,1,1-Trichloroethane	5.447	97	442302	10.91	ppb	#	82
32) Cyclohexane	5.477	56	402110	9.72	ppb	#	76
33) 1,1-Dichloropropylene	5.605	75	384575	10.39	ppb	#	83
35) Carbon Tetrachloride	5.600	117	369806	10.50	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.831	59	116717m	84.28	ppb		
37) 1,2-Dichloroethane	5.853	62	267782	11.08	ppb		100
38) Benzene	5.808	78	1184957	10.66	ppb	#	86
39) tert-Amyl methyl ether...	5.889	73	718125	10.76	ppb	#	90
41) Trichloroethylene	6.432	95	304719	11.58	ppb		99
42) Methyl Cyclohexane	6.585	83	386703	9.94	ppb	#	73
43) Methyl Methacrylate	6.754	69	118079	10.79	ppb	#	60
44) Dibromomethane	6.796	93	126293	11.54	ppb		99
45) Bromodichloromethane	6.941	83	344844	11.86	ppb	#	93
46) 1,2-Dichloropropane	6.660	63	276921	11.83	ppb	#	99

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611650.D
Acq On : 14 Nov 2018 1:27 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6111318C CCV SOIL
ALS Vial : 58 Sample Multiplier: 1

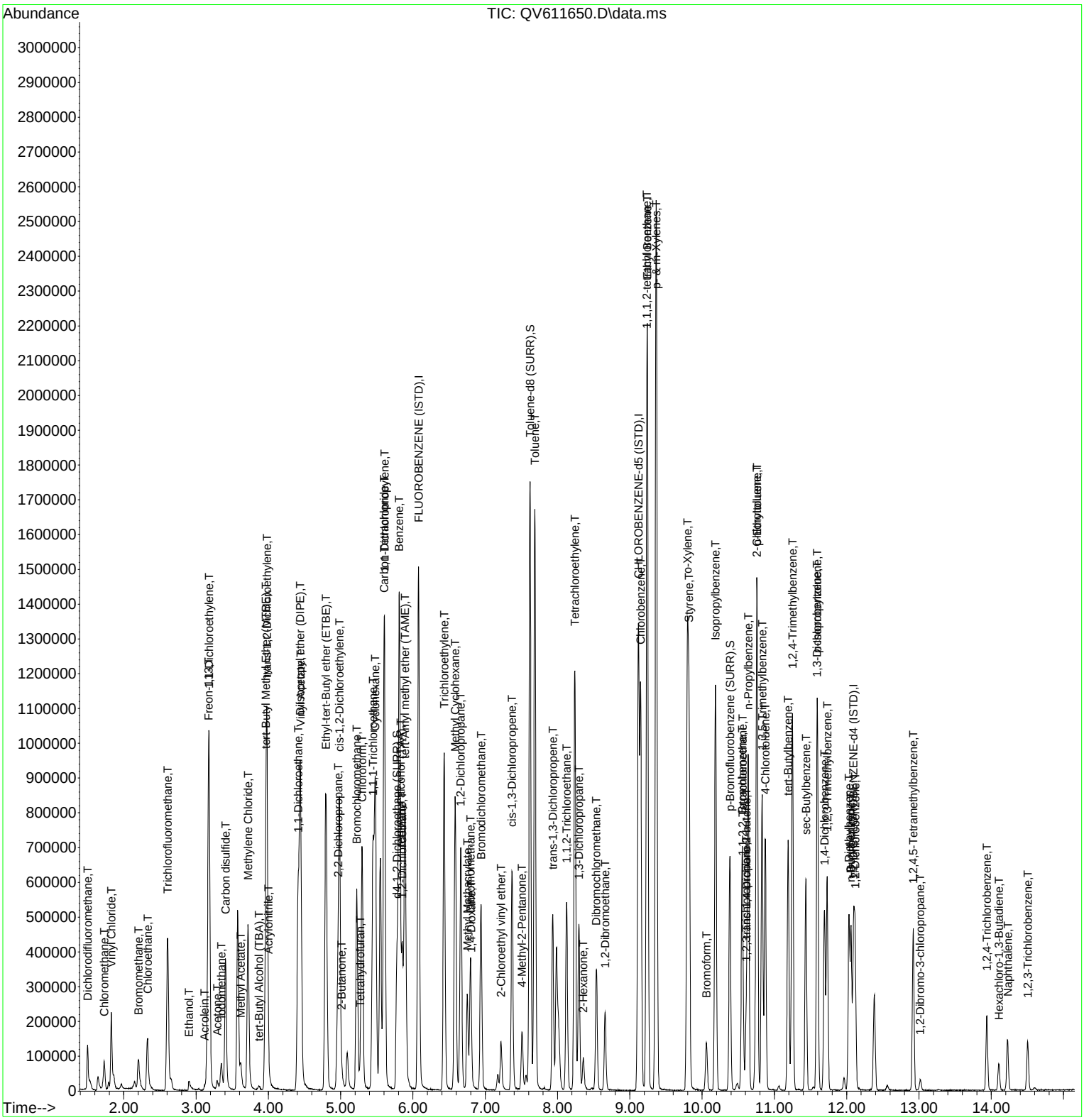
Quant Time: Nov 14 15:37:20 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 1,4-Dioxane	6.807	88	20997	224.07	ppb	#	92
48) 2-Chloroethyl vinyl ether	7.219	63	59343	10.89	ppb	#	92
49) cis-1,3-Dichloropropene	7.369	75	380945	10.37	ppb	#	76
50) 4-Methyl-2-Pentanone	7.508	43	105983	9.19	ppb	#	75
52) Toluene	7.686	91	1291471	11.43	ppb		100
53) trans-1,3-Dichloropropene	7.934	75	284403	9.70	ppb	#	88
54) 1,1,2-Trichloroethane	8.123	97	180738	10.70	ppb		90
55) 1,3-Dichloropropane	8.296	76	302618	10.75	ppb	#	74
56) Tetrachloroethylene	8.240	166	395577	11.35	ppb	#	100
57) 2-Hexanone	8.354	43	60620m	8.23	ppb		
58) Dibromochloromethane	8.535	129	198640	10.03	ppb		97
59) 1,2-Dibromoethane	8.657	107	158672	10.39	ppb		98
60) Chlorobenzene	9.150	112	670452	9.96	ppb	#	93
61) 1,1,1,2-tetrachloroethane	9.236	131	246406	10.70	ppb		98
62) Ethyl Benzene	9.242	91	1147499	10.54	ppb		100
63) p- & m-Xylenes	9.364	91	1585598	20.70	ppb		98
64) o-Xylene	9.798	91	751893	10.06	ppb		100
65) Styrene	9.818	104	565763	9.60	ppb	#	78
66) Bromoform	10.060	173	72025	8.00	ppb		98
68) p-Ethyltoluene	10.761	105	622484	9.66	ppb	#	55
69) Isopropylbenzene	10.185	105	868091	10.12	ppb		99
71) 1,1,2,2-Tetrachloroethane	10.563	83	104563	8.84	ppb	#	69
72) Bromobenzene	10.552	77	245744	8.92	ppb	#	90
73) trans-1,4-Dichloro-2-b...	10.613	75	103993	8.05	ppb	#	72
74) 1,2,3-Trichloropropane	10.608	110	32498	9.23	ppb	#	48
75) n-Propylbenzene	10.638	91	808953	9.72	ppb		99
76) 2-Chlorotoluene	10.755	91	526736	9.41	ppb		100
77) 4-Chlorotoluene	10.872	91	452883	9.41	ppb		99
78) 1,3,5-Trimethylbenzene	10.830	105	511434	9.67	ppb		99
79) tert-Butylbenzene	11.189	119	408939	9.41	ppb		99
80) 1,2,4-Trimethylbenzene	11.250	105	481188	9.87	ppb		98
81) sec-Butylbenzene	11.437	105	474050	9.28	ppb		98
82) 1,3-Dichlorobenzene	11.590	146	245207	9.77	ppb		98
83) p-Isopropyltoluene	11.593	119	409167	9.45	ppb		99
84) 1,4-Dichlorobenzene	11.693	146	241145	9.88	ppb		99
85) 1,2,3-Trimethylbenzene	11.729	105	382265	10.05	ppb		99
86) p-Diethylbenzene	12.030	105	174289	9.86	ppb	#	99
87) 1,2-Dichlorobenzene	12.119	146	195860	10.25	ppb	#	87
88) n-Butylbenzene	12.057	91	332596	9.72	ppb		94
89) 1,2-Dibromo-3-chloropr...	13.017	75	7835	8.96	ppb		96
90) 1,2,4,5-Tetramethylben...	12.920	119	281798	10.03	ppb		99
91) 1,2,4-Trichlorobenzene	13.938	180	75792	8.18	ppb		98
92) Hexachloro-1,3-Butadiene	14.105	225	17622m	7.45	ppb		
93) Naphthalene	14.227	128	132053	8.60	ppb		98
94) 1,2,3-Trichlorobenzene	14.506	180	52054m	8.01	ppb		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611650.D
Acq On : 14 Nov 2018 1:27 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6111318C CCV SOIL
ALS Vial : 58 Sample Multiplier: 1

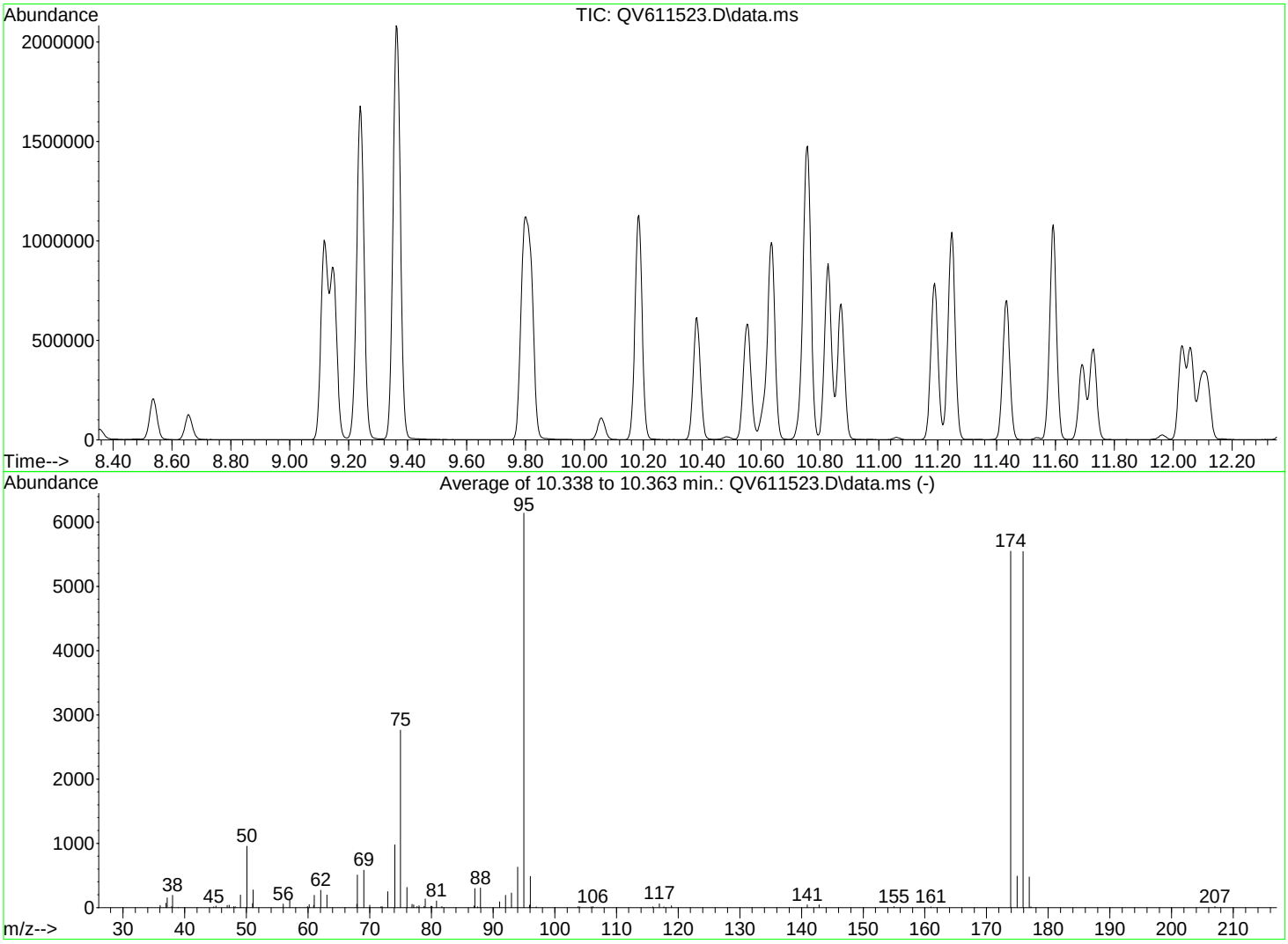
Quant Time: Nov 14 15:37:20 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration



Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611523.D
Acq On : 10 Nov 2018 3:59 am
Operator : LLJ
InstName : QVOA6
Sample : SEQ-TUN1
Misc : QBQV6110918B TUNE AQU
ALS Vial : 37 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO042.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Thu Nov 08 09:41:17 2018



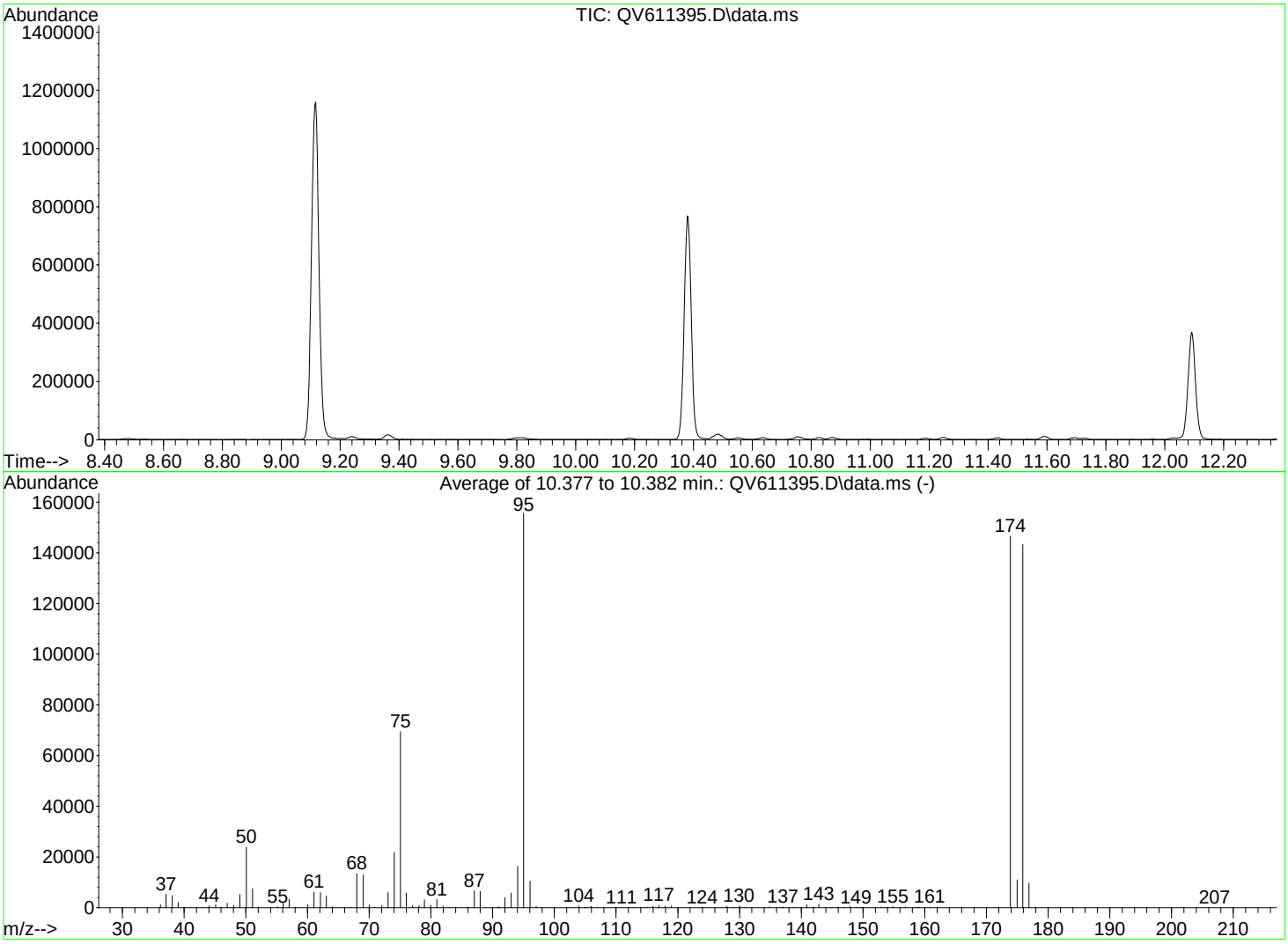
Spectrum Information: Average of 10.338 to 10.363 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.5	954	PASS
75	95	30	60	44.9	2760	PASS
95	95	100	100	100.0	6142	PASS
96	95	5	9	7.9	484	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.3	5547	PASS
175	174	5	9	8.9	491	PASS
176	174	95	101	99.9	5543	PASS
177	176	5	9	8.6	475	PASS

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611395.D
Acq On : 7 Nov 2018 7:56 pm
Operator : LLJ
InstName : QVOA6
Sample : SEQ-TUN1
Misc : QBQV6110618A TUNE AQU
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO042.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Thu Nov 08 09:41:17 2018



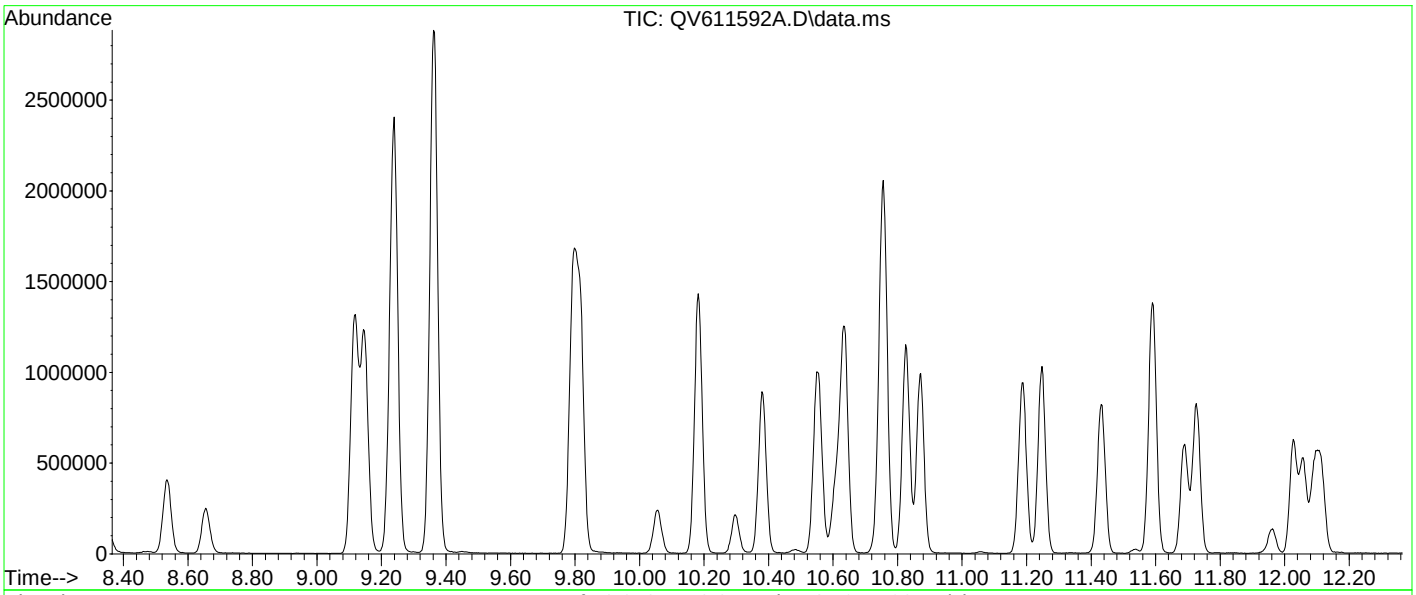
AutoFind: Scans 3232, 3233, 3234; Background Corrected with Scan 3216

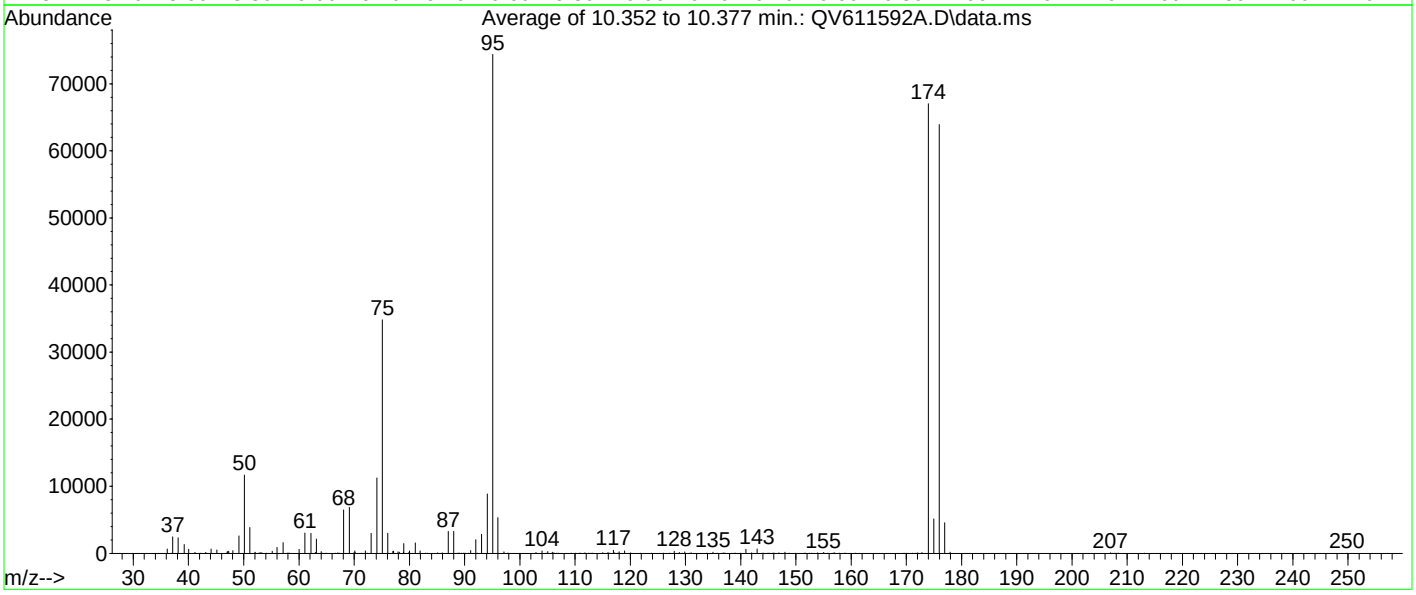
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	23779	PASS
75	95	30	60	44.6	69437	PASS
95	95	100	100	100.0	155712	PASS
96	95	5	9	6.7	10428	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	94.2	146667	PASS
175	174	5	9	7.5	10927	PASS
176	174	95	101	97.7	143339	PASS
177	176	5	9	6.7	9591	PASS

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611592A.D
Acq On : 13 Nov 2018 11:41 am
Operator : LLJ
InstName : QVOA6
Sample : SEQ-TUN1
Misc : QBQV6111318A TUNE AQU
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO038.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Fri Oct 19 11:06:26 2018





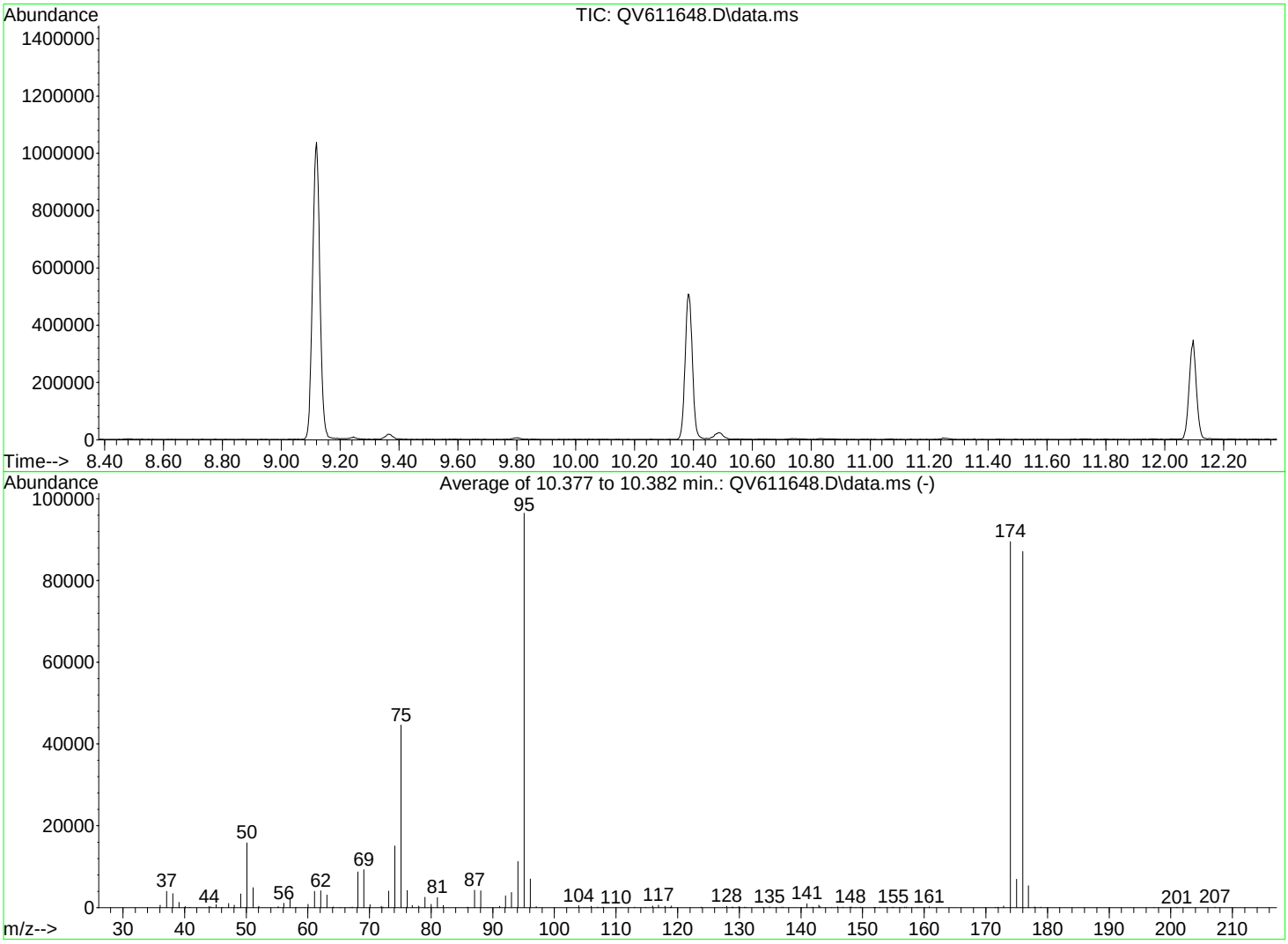
Spectrum Information: Average of 10.352 to 10.377 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.7	11649	PASS
75	95	30	60	46.8	34818	PASS
95	95	100	100	100.0	74358	PASS
96	95	5	9	7.1	5302	PASS
173	174	0.00	2	0.2	142	PASS
174	95	50	100	90.2	67035	PASS
175	174	5	9	7.7	5136	PASS
176	174	95	101	95.4	63932	PASS
177	176	5	9	7.1	4543	PASS

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611648.D
Acq On : 14 Nov 2018 12:34 pm
Operator : LLJ
InstName : QVOA6
Sample : SEQ-TUN1
Misc : QBQV6111318C
ALS Vial : 56 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO042.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Thu Nov 08 09:41:17 2018



AutoFind: Scans 3232, 3233, 3234; Background Corrected with Scan 3218

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	15836	PASS
75	95	30	60	46.2	44624	PASS
95	95	100	100	100.0	96541	PASS
96	95	5	9	7.2	6995	PASS
173	174	0.00	2	0.4	369	PASS
174	95	50	100	92.7	89512	PASS
175	174	5	9	7.8	6941	PASS
176	174	95	101	97.3	87133	PASS
177	176	5	9	6.1	5339	PASS

METHOD BLANK RAW DATA

SDG: 18K0078
CLASS: VOA
METHOD: EPA 8260C

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80517-BLK1	File ID:	QV611527.D
Prepared:	11/10/18 03:58	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/10/18 05:45	Instrument:	QVOA6		
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009

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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
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
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80517-BLK1	File ID:	QV611527.D
Prepared:	11/10/18 03:58	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/10/18 05:45	Instrument:	QVOA6		
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009

CAS NO.	COMPOUND	CONC. (ug/L)	Q
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
110-82-7	Cyclohexane	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
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1.0	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:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80517-BLK1	File ID:	QV611527.D
Prepared:	11/10/18 03:58	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/10/18 05:45	Instrument:	QVOA6		
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009

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
110-57-6	trans-1,4-dichloro-2-butene	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
SURR: 1,2-Dichloroethane-d4	10.0	7.86	78.6	69 - 130	
SURR: Toluene-d8	10.0	9.53	95.3	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.5	115	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	150621	6.075	156683	6.075	
ISTD: Chlorobenzene-d5	622054	9.116	650936	9.116	
ISTD: 1,2-Dichlorobenzene-d4	84590	12.093	91802	12.093	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611527.D
Acq On : 10 Nov 2018 5:45 am
InstName : QVOA6
Operator : LLJ
Sample : BK80517-BLK1
Misc : QBQV6110918B BLK AQU
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Nov 12 12:47:40 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

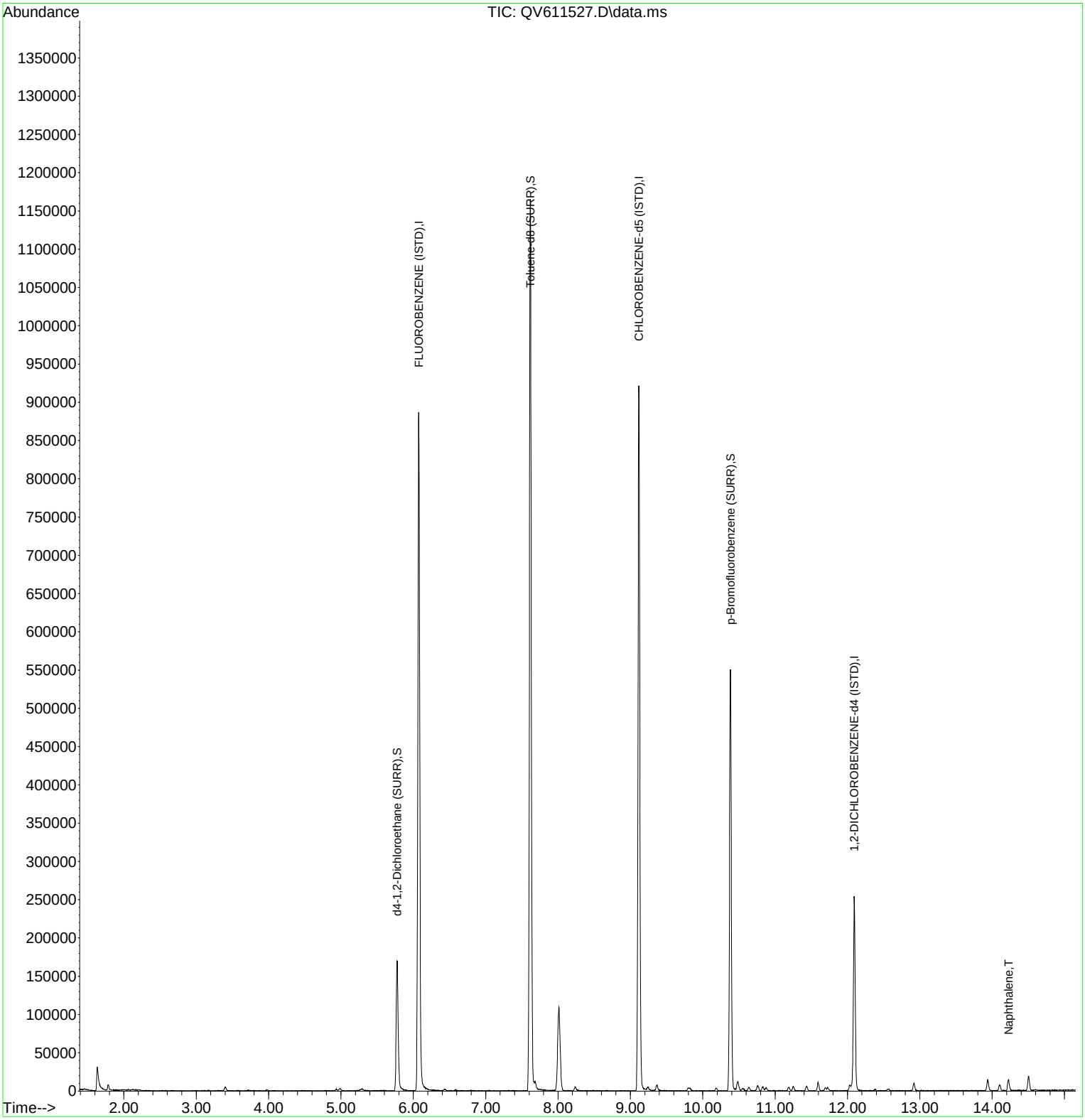
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.075	70	150621	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	622054	10.00	ppb	# 0.00
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	84590	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.775	65	111584	7.86	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 78.60%			
51) Toluene-d8 (SURR)	7.617	98	877805	9.53	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 95.30%			
70) p-Bromofluorobenzene (...	10.382	95	191257	11.46	ppb	0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 114.60%			
Target Compounds						Qvalue
93) Naphthalene	14.225	128	14774	1.47	ppb	# 91

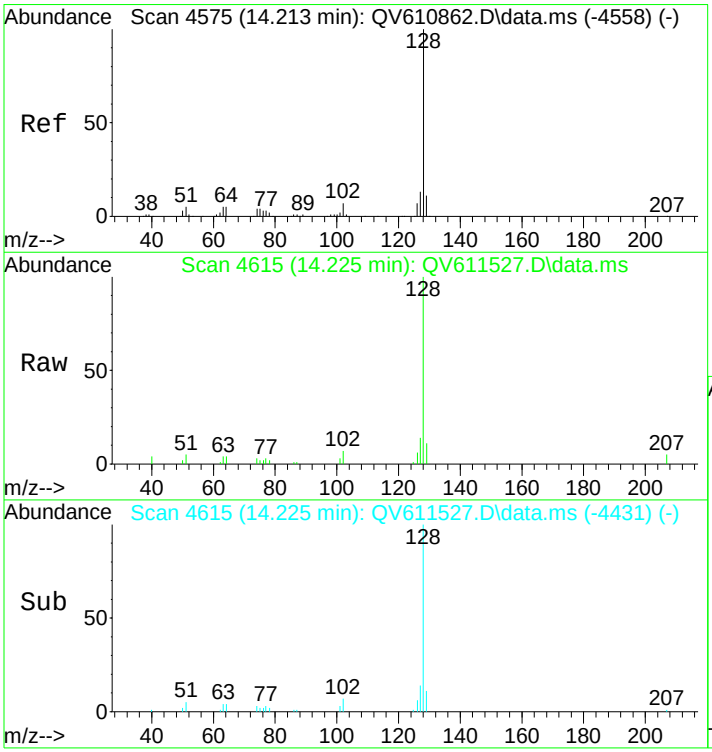
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611527.D
Acq On : 10 Nov 2018 5:45 am
InstName : QVOA6
Operator : LLJ
Sample : BK80517-BLK1
Misc : QBQV6110918B BLK AQU
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Nov 12 12:47:40 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

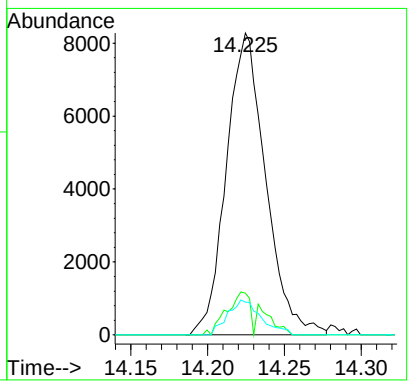




#93
Naphthalene
Concen: 1.47 ppb
RT: 14.225 min Scan# 4615
Delta R.T. 0.011 min
Lab File: QV611527.D
Acq: 10 Nov 2018 5:45 am

Tgt Ion:128 Resp: 14774

Ion	Ratio	Lower	Upper
128	100		
127	8.2	8.9	18.5#
129	9.8	7.3	15.3



METHOD BLANK RAW DATA

SDG: 18K0078
CLASS: VOA
METHOD: EPA 8260C

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80632-BLK1	File ID:	QV611598.D
Prepared:	11/13/18 11:40	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/13/18 14:39	Instrument:	QVOA6		
Batch:	BK80632	Sequence:	Y8K1410	Calibration:	YK80009

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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
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
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80632-BLK1	File ID:	QV611598.D
Prepared:	11/13/18 11:40	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/13/18 14:39	Instrument:	QVOA6		
Batch:	BK80632	Sequence:	Y8K1410	Calibration:	YK80009

CAS NO.	COMPOUND	CONC. (ug/L)	Q
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
110-82-7	Cyclohexane	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
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1.0	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:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80632-BLK1	File ID:	QV611598.D
Prepared:	11/13/18 11:40	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/13/18 14:39	Instrument:	QVOA6		
Batch:	BK80632	Sequence:	Y8K1410	Calibration:	YK80009

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
110-57-6	trans-1,4-dichloro-2-butene	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
SURR: 1,2-Dichloroethane-d4	10.0	11.1	111	69 - 130	
SURR: Toluene-d8	10.0	9.44	94.4	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.3	113	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	215626	6.076	202485	6.076	
ISTD: Chlorobenzene-d5	822713	9.119	831471	9.117	
ISTD: 1,2-Dichlorobenzene-d4	122893	12.094	142351	12.091	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611598A.D
Acq On : 13 Nov 2018 2:39 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80632-BLK1
Misc : QBQV6111318A BLK AQU
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 14 12:30:20 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

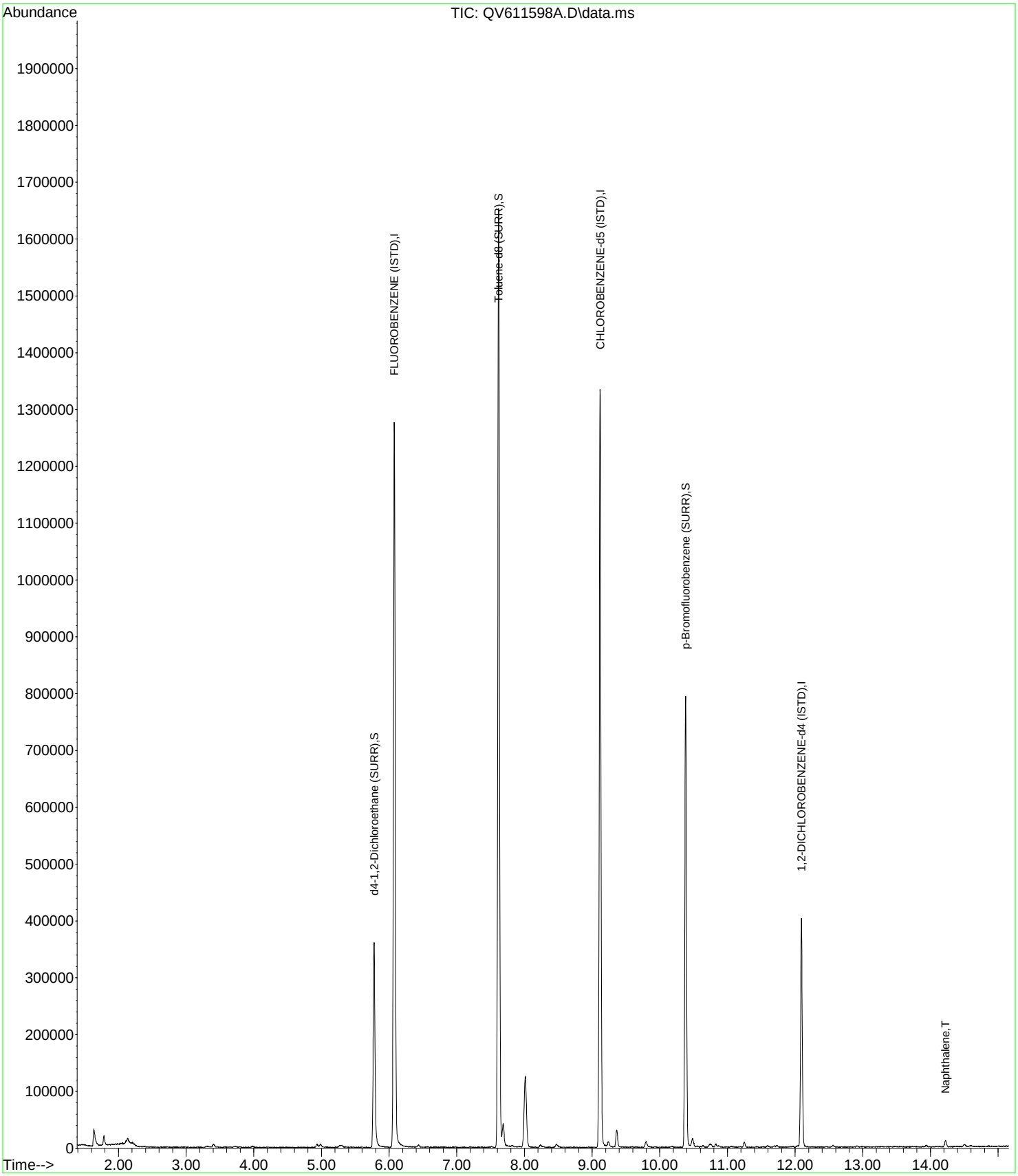
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.076	70	215626	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.119	117	822713	10.00	ppb	# 0.01
67) 1,2-DICHLOROBENZENE-d4...	12.094	152	122893	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.778	65	226079	11.12	ppb	0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 111.20%			
51) Toluene-d8 (SURR)	7.617	98	1149965	9.44	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 94.40%			
70) p-Bromofluorobenzene (...	10.382	95	273428	11.27	ppb	0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 112.70%			
Target Compounds						Qvalue
93) Naphthalene	14.222	128	10208	0.70	ppb	# 93

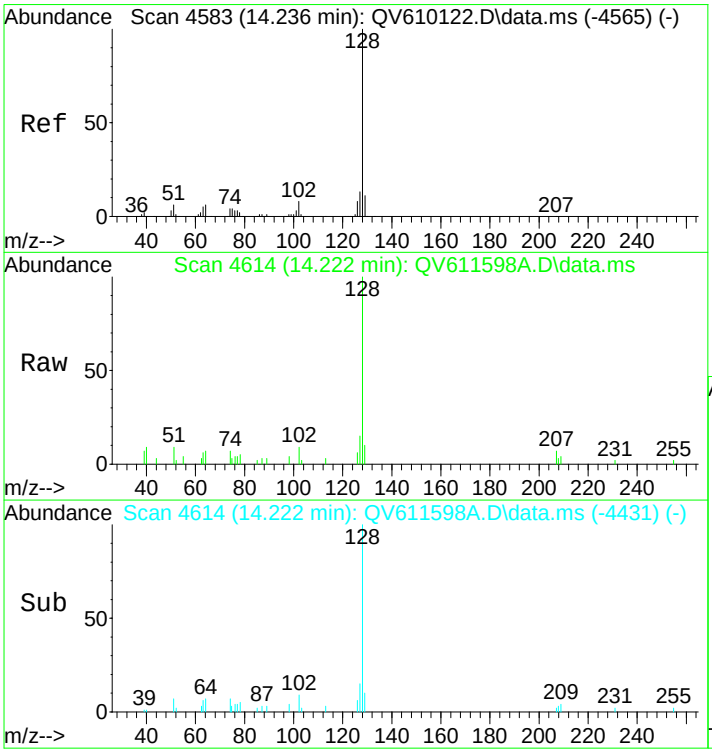
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611598A.D
Acq On : 13 Nov 2018 2:39 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80632-BLK1
Misc : QBQV6111318A BLK AQU
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 14 12:30:20 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

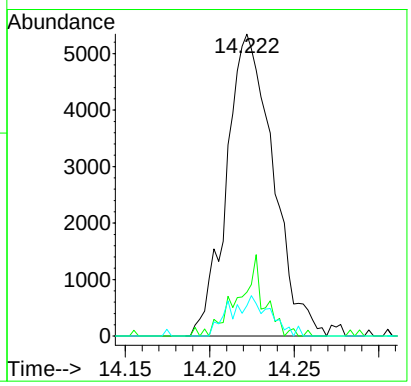




#93
Naphthalene
Concen: 0.70 ppb
RT: 14.222 min Scan# 4614
Delta R.T. 0.008 min
Lab File: QV611598A.D
Acq: 13 Nov 2018 2:39 pm

Tgt Ion:128 Resp: 10208

Ion	Ratio	Lower	Upper
128	100		
127	14.7	8.9	18.5
129	6.9	7.3	15.3#



METHOD BLANK RAW DATA

SDG: 18K0078
CLASS: VOA
METHOD: EPA 8260C

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80724-BLK1	File ID:	QV611654.D
Prepared:	11/14/18 12:33	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/14/18 15:12	Instrument:	QVOA6		
Batch:	BK80724	Sequence:	Y8K1430	Calibration:	YK80009

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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
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
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80724-BLK1	File ID:	QV611654.D
Prepared:	11/14/18 12:33	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/14/18 15:12	Instrument:	QVOA6		
Batch:	BK80724	Sequence:	Y8K1430	Calibration:	YK80009

CAS NO.	COMPOUND	CONC. (ug/L)	Q
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
110-82-7	Cyclohexane	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
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1.0	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:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80724-BLK1	File ID:	QV611654.D
Prepared:	11/14/18 12:33	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/14/18 15:12	Instrument:	QVOA6		
Batch:	BK80724	Sequence:	Y8K1430	Calibration:	YK80009

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
110-57-6	trans-1,4-dichloro-2-butene	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
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	
SURR: Toluene-d8	10.0	11.2	112	81 - 117	
SURR: p-Bromofluorobenzene	10.0	8.11	81.1	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	231158	6.075	246834	6.078	
ISTD: Chlorobenzene-d5	699336	9.116	786770	9.119	
ISTD: 1,2-Dichlorobenzene-d4	119666	12.093	129414	12.093	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611654.D
Acq On : 14 Nov 2018 3:12 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80724-BLK1
Misc : QBQV6111318C BLK AQU
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Nov 14 16:14:25 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

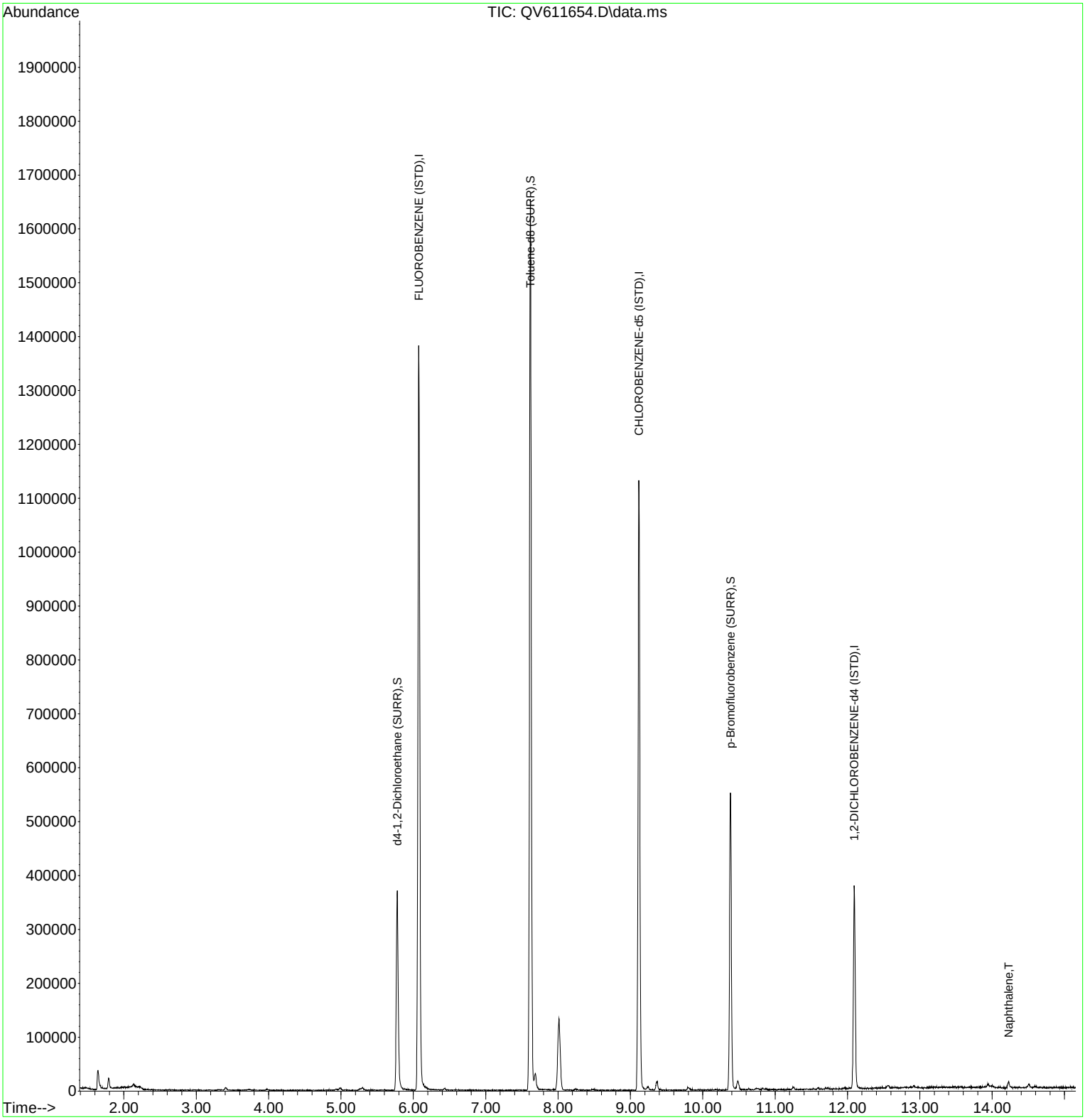
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.075	70	231158	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	699336	10.00	ppb	# 0.00
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	119666	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.778	65	236277	10.84	ppb	0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.40%			
51) Toluene-d8 (SURR)	7.617	98	1158904	11.20	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 112.00%			
70) p-Bromofluorobenzene (...	10.382	95	191501	8.11	ppb	0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 81.10%			
Target Compounds						Qvalue
93) Naphthalene	14.225	128	10560	0.74	ppb	# 85

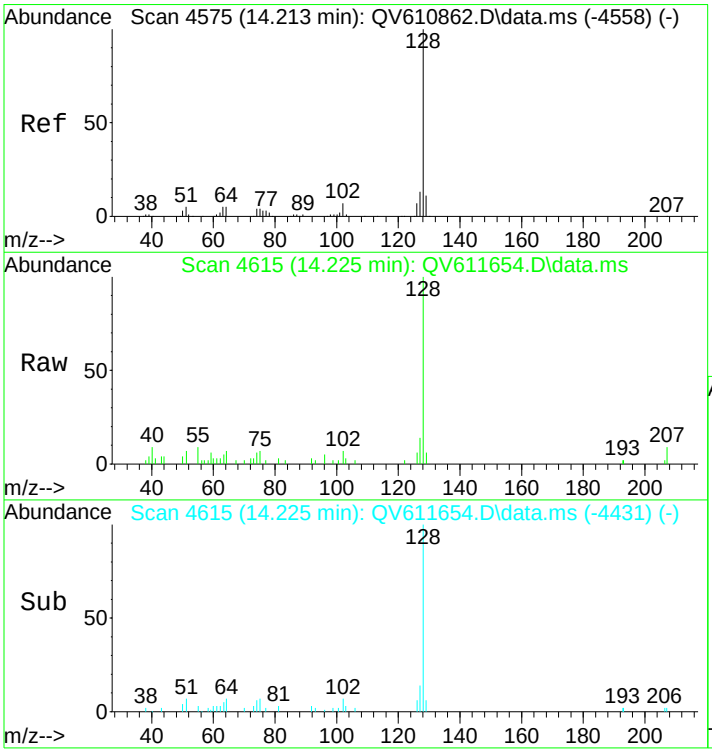
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611654.D
Acq On : 14 Nov 2018 3:12 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80724-BLK1
Misc : QBQV6111318C BLK AQU
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Nov 14 16:14:25 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

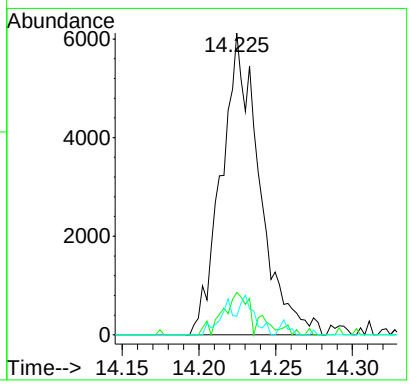




#93
Naphthalene
Concen: 0.74 ppb
RT: 14.225 min Scan# 4615
Delta R.T. 0.011 min
Lab File: QV611654.D
Acq: 14 Nov 2018 3:12 pm

Tgt Ion:128 Resp: 10560

Ion	Ratio	Lower	Upper
128	100		
127	8.6	8.9	18.5#
129	4.8	7.3	15.3#



LCS RAW DATA

SDG: 18K0078
CLASS: VOA
METHOD: EPA 8260C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611525.D
Acq On : 10 Nov 2018 4:53 am
InstName : QVOA6
Operator : LLJ
Sample : BK80517-BS1
Misc : QBQV6110918B ICV AQU
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Nov 12 12:41:25 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.075	70	152563	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	640360m	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	87448m	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.775	65	109413	7.61	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 76.10%				
51) Toluene-d8 (SURR)	7.617	98	881927m	9.30	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 93.00%				
70) p-Bromofluorobenzene (...	10.380	95	208442m	12.08	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 120.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.490	85	111378	11.56	ppb	#	1
3) Chloromethane	1.713	50	57825m	8.27	ppb		
4) Vinyl Chloride	1.819	62	150387	9.69	ppb	#	47
5) Bromomethane	2.194	94	47078	10.39	ppb		68
6) Chloroethane	2.317	64	106996	10.67	ppb		89
7) Trichlorofluoromethane	2.598	101	236682m	11.92	ppb		
9) Freon-113	3.162	101	171243	11.91	ppb		95
10) 1,1-Dichloroethylene	3.174	61	220271	10.30	ppb	#	74
11) Acrolein	3.115	56	8925m	7.29	ppb		
12) Acetone	3.288	43	21158m	9.40	ppb		
13) Iodomethane	3.343	142	94516m	15.41	ppb		
14) Methyl Acetate	3.613	43	40707m	8.16	ppb		
15) Carbon disulfide	3.402	76	415059	11.21	ppb		100
16) tert-Butyl Alcohol (TBA)	3.866	59	7001m	7.35	ppb		
17) Methylene Chloride	3.713	49	139420	9.06	ppb	#	44
18) Acrylonitrile	3.997	53	19913m	8.13	ppb		
19) trans-1,2-Dichloroethy...	3.975	61	216049	10.02	ppb	#	89
20) tert-Butyl Methyl Ethe...	3.961	73	315780	8.45	ppb	#	97
21) 1,1-Dichloroethane	4.406	63	289729	10.26	ppb		98
22) Vinyl Acetate	4.439	43	279062m	8.41	ppb		
23) Diisopropyl ether (DIPE)	4.437	45	390200	8.84	ppb	#	92
24) Ethyl-tert-Butyl ether...	4.790	59	409125	9.27	ppb	#	85
25) cis-1,2-Dichloroethylene	4.979	61	235454	9.54	ppb	#	64
26) 2-Butanone	5.015	72	9840m	8.82	ppb		
27) 2,2-Dichloropropane	4.960	77	158957m	6.94	ppb		
28) Tetrahydrofuran	5.269	42	15672m	6.84	ppb		
29) Bromochloromethane	5.219	49	82506	8.68	ppb	#	55
30) Chloroform	5.294	83	300058	10.58	ppb	#	91
31) 1,1,1-Trichloroethane	5.444	97	274804	10.97	ppb	#	82
32) Cyclohexane	5.474	56	281594	11.01	ppb	#	69
33) 1,1-Dichloropropylene	5.600	75	244069	10.66	ppb	#	82
35) Carbon Tetrachloride	5.597	117	241833	11.11	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.828	59	57499	67.17	ppb	#	87
37) 1,2-Dichloroethane	5.850	62	128636	8.61	ppb	#	86
38) Benzene	5.806	78	745111	10.85	ppb	#	85
39) tert-Amyl methyl ether...	5.886	73	380493	9.23	ppb	#	100
41) Trichloroethylene	6.429	95	203576	9.51	ppb		94
42) Methyl Cyclohexane	6.582	83	343268	10.84	ppb	#	68
43) Methyl Methacrylate	6.752	69	61823m	6.94	ppb		
44) Dibromomethane	6.793	93	73632m	8.26	ppb		
45) Bromodichloromethane	6.938	83	193843	8.19	ppb	#	92
46) 1,2-Dichloropropane	6.660	63	155994	8.19	ppb	#	99
47) 1,4-Dioxane	6.804	88	12945m	169.73	ppb		

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611525.D
Acq On : 10 Nov 2018 4:53 am
InstName : QVOA6
Operator : LLJ
Sample : BK80517-BS1
Misc : QBQV6110918B ICV AQU
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Nov 12 12:41:25 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

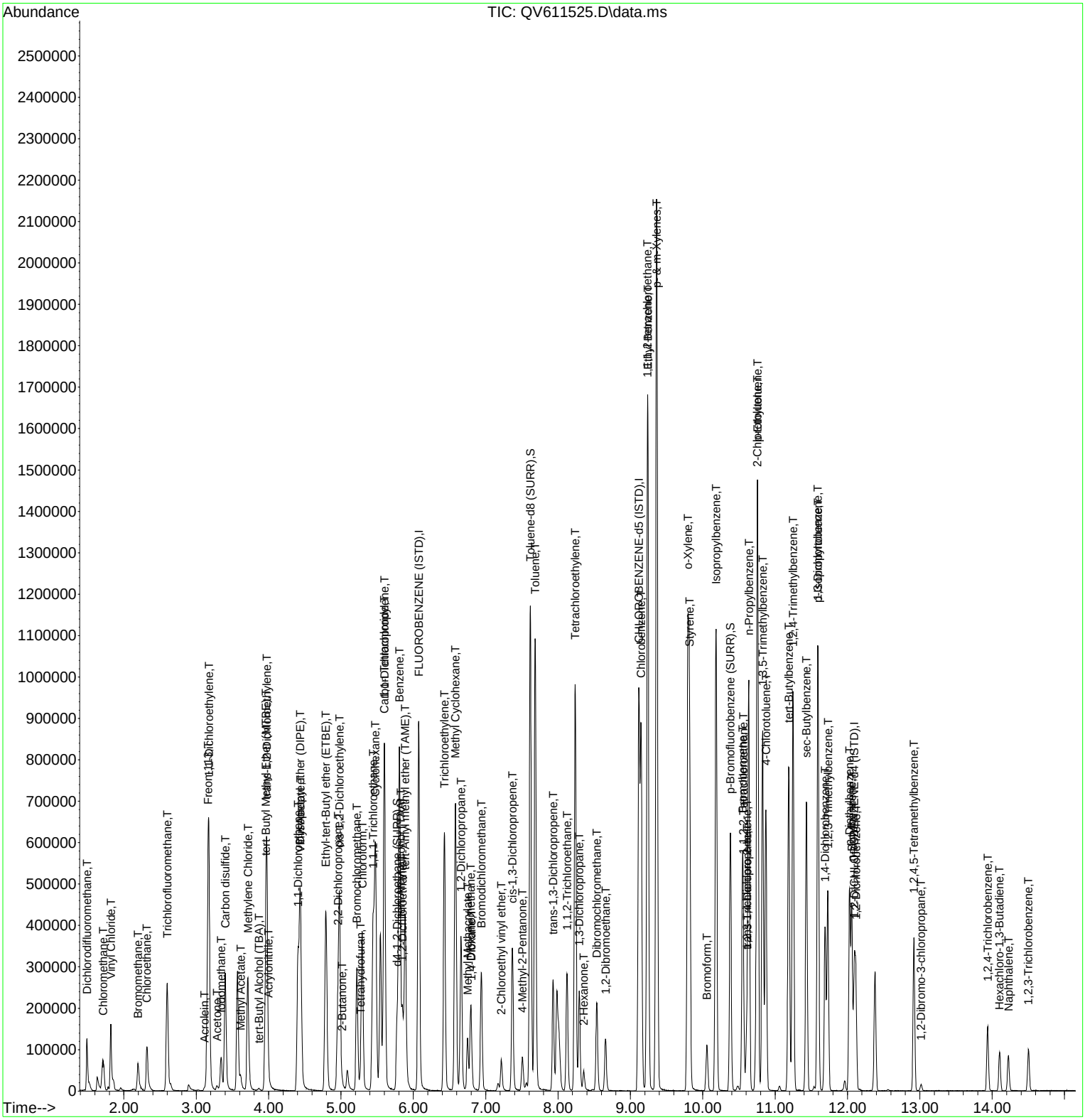
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Chloroethyl vinyl ether	7.216	63	35039m	7.90	ppb		
49) cis-1,3-Dichloropropene	7.369	75	234263m	7.83	ppb		
50) 4-Methyl-2-Pentanone	7.508	43	78711m	8.38	ppb		
52) Toluene	7.684	91	887563	9.65	ppb		99
53) trans-1,3-Dichloropropene	7.931	75	176867m	7.41	ppb		
54) 1,1,2-Trichloroethane	8.126	97	104052	7.57	ppb	#	86
55) 1,3-Dichloropropane	8.293	76	165155m	7.21	ppb		
56) Tetrachloroethylene	8.237	166	353337	12.46	ppb	#	100
57) 2-Hexanone	8.354	43	31546m	5.26	ppb		
58) Dibromochloromethane	8.535	129	129157m	8.01	ppb		
59) 1,2-Dibromoethane	8.657	107	94289	7.59	ppb		97
60) Chlorobenzene	9.147	112	553362	10.10	ppb	#	88
61) 1,1,1,2-tetrachloroethane	9.236	131	181196	9.67	ppb		98
62) Ethyl Benzene	9.242	91	939294	10.60	ppb		98
63) p- & m-Xylenes	9.361	91	1348568	21.64	ppb		98
64) o-Xylene	9.795	91	659827	10.85	ppb		99
65) Styrene	9.818	104	506996	10.57	ppb		96
66) Bromoform	10.057	173	60419	8.24	ppb	#	80
68) p-Ethyltoluene	10.758	105	411843m	9.46	ppb		
69) Isopropylbenzene	10.185	105	684978m	11.82	ppb		
71) 1,1,2,2-Tetrachloroethane	10.560	83	76860	9.62	ppb	#	69
72) Bromobenzene	10.549	77	216450	11.62	ppb	#	80
73) trans-1,4-Dichloro-2-b...	10.611	75	76279	8.74	ppb	#	66
74) 1,2,3-Trichloropropane	10.611	110	24438	10.27	ppb		85
75) n-Propylbenzene	10.636	91	548381m	9.76	ppb		
76) 2-Chlorotoluene	10.752	91	377115m	9.97	ppb		
77) 4-Chlorotoluene	10.872	91	381959m	11.74	ppb		
78) 1,3,5-Trimethylbenzene	10.828	105	396916m	11.11	ppb		
79) tert-Butylbenzene	11.186	119	339678m	11.57	ppb		
80) 1,2,4-Trimethylbenzene	11.248	105	353741m	10.74	ppb		
81) sec-Butylbenzene	11.431	105	437966m	12.69	ppb		
82) 1,3-Dichlorobenzene	11.590	146	174003m	10.26	ppb		
83) p-Isopropyltoluene	11.593	119	343467m	11.73	ppb		
84) 1,4-Dichlorobenzene	11.690	146	151958m	9.21	ppb		
85) 1,2,3-Trimethylbenzene	11.729	105	219502m	8.54	ppb		
86) p-Diethylbenzene	12.027	105	103137m	8.63	ppb		
87) 1,2-Dichlorobenzene	12.116	146	137190	10.62	ppb	#	87
88) n-Butylbenzene	12.060	91	243543m	10.53	ppb		
89) 1,2-Dibromo-3-chloropr...	13.014	75	5294m	8.96	ppb		
90) 1,2,4,5-Tetramethylben...	12.917	119	216274m	11.39	ppb		
91) 1,2,4-Trichlorobenzene	13.938	180	61966	9.90	ppb	#	96
92) Hexachloro-1,3-Butadiene	14.099	225	25789	16.14	ppb	#	94
93) Naphthalene	14.225	128	82122m	7.92	ppb		
94) 1,2,3-Trichlorobenzene	14.500	180	40639	9.25	ppb	#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611525.D
Acq On : 10 Nov 2018 4:53 am
InstName : QVOA6
Operator : LLJ
Sample : BK80517-BS1
Misc : QBQV6110918B ICV AQU
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Nov 12 12:41:25 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611526.D
Acq On : 10 Nov 2018 5:19 am
InstName : QVOA6
Operator : LLJ
Sample : BK80517-BSD1
Misc : QBQV6110918B ICV AQU
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Nov 12 12:46:07 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.075	70	145895	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	638722	10.00	ppb	# 0.00
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	91120m	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.775	65	112295	8.16	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 81.60%			
51) Toluene-d8 (SURR)	7.617	98	879066	9.30	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 93.00%			
70) p-Bromofluorobenzene (...	10.382	95	217429	12.09	ppb	0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 120.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.490	85	107842	11.71	ppb	# 1
3) Chloromethane	1.710	50	71242m	10.65	ppb	
4) Vinyl Chloride	1.819	62	142798	9.62	ppb	# 47
5) Bromomethane	2.197	94	45352	10.46	ppb	65
6) Chloroethane	2.319	64	98805	10.31	ppb	90
7) Trichlorofluoromethane	2.598	101	225282	11.86	ppb	97
9) Freon-113	3.160	101	161677	11.76	ppb	96
10) 1,1-Dichloroethylene	3.173	61	201949	9.88	ppb	# 72
11) Acrolein	3.121	56	8129m	6.94	ppb	
12) Acetone	3.288	43	19546m	9.08	ppb	
13) Iodomethane	3.343	142	82574m	14.08	ppb	
14) Methyl Acetate	3.613	43	41524m	8.71	ppb	
15) Carbon disulfide	3.402	76	386455	10.91	ppb	100
16) tert-Butyl Alcohol (TBA)	3.863	59	7031m	7.72	ppb	
17) Methylene Chloride	3.713	49	129734	8.82	ppb	# 44
18) Acrylonitrile	3.994	53	18729m	8.00	ppb	
19) trans-1,2-Dichloroethy...	3.975	61	197142	9.57	ppb	# 88
20) tert-Butyl Methyl Ethe...	3.961	73	301152	8.43	ppb	# 97
21) 1,1-Dichloroethane	4.406	63	268474	9.94	ppb	# 88
22) Vinyl Acetate	4.437	43	284791m	8.97	ppb	
23) Diisopropyl ether (DIPE)	4.434	45	356666	8.45	ppb	# 94
24) Ethyl-tert-Butyl ether...	4.790	59	381097	9.02	ppb	# 85
25) cis-1,2-Dichloroethylene	4.979	61	217153	9.20	ppb	# 64
26) 2-Butanone	5.015	72	8550m	8.01	ppb	
27) 2,2-Dichloropropane	4.957	77	144614m	6.60	ppb	
28) Tetrahydrofuran	5.271	42	23137m	10.56	ppb	
29) Bromochloromethane	5.221	49	77087	8.48	ppb	# 54
30) Chloroform	5.294	83	278106	10.25	ppb	# 84
31) 1,1,1-Trichloroethane	5.444	97	254995	10.64	ppb	94
32) Cyclohexane	5.474	56	263733	10.78	ppb	# 69
33) 1,1-Dichloropropylene	5.602	75	224850	10.27	ppb	# 82
35) Carbon Tetrachloride	5.600	117	226019	10.86	ppb	# 54
36) tert-Amyl alcohol (TAA)	5.825	59	55461	67.76	ppb	# 88
37) 1,2-Dichloroethane	5.847	62	120679	8.45	ppb	# 99
38) Benzene	5.805	78	697383	10.62	ppb	# 85
39) tert-Amyl methyl ether...	5.889	73	356488	9.04	ppb	# 90
41) Trichloroethylene	6.429	95	187567	8.78	ppb	94
42) Methyl Cyclohexane	6.582	83	324603	10.28	ppb	# 67
43) Methyl Methacrylate	6.749	69	59530m	6.70	ppb	
44) Dibromomethane	6.790	93	69177m	7.78	ppb	
45) Bromodichloromethane	6.941	83	189858m	8.04	ppb	
46) 1,2-Dichloropropane	6.660	63	174488m	9.18	ppb	
47) 1,4-Dioxane	6.802	88	12600m	165.63	ppb	

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611526.D
Acq On : 10 Nov 2018 5:19 am
InstName : QVOA6
Operator : LLJ
Sample : BK80517-BSD1
Misc : QBQV6110918B ICV AQU
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Nov 12 12:46:07 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

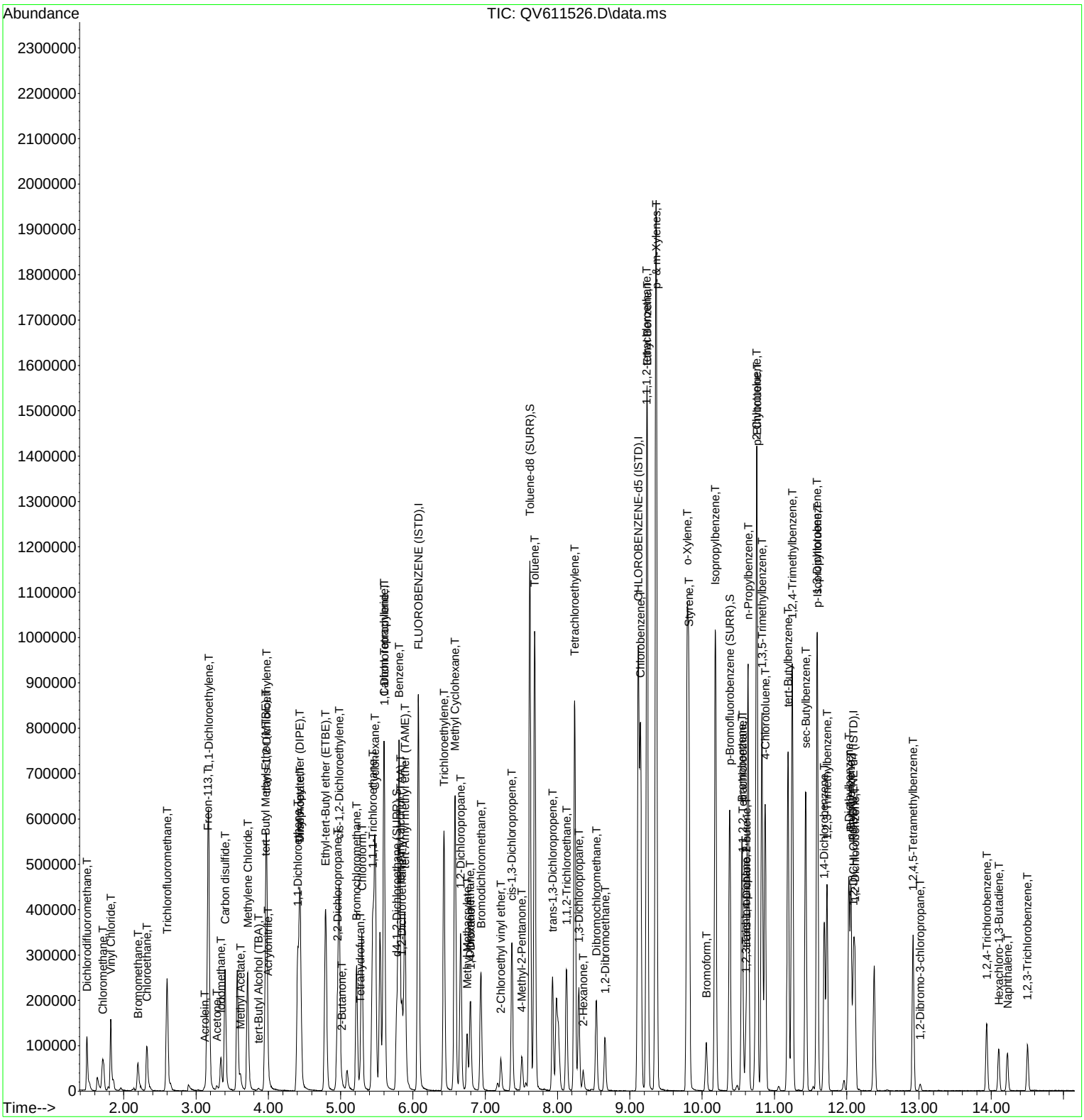
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Chloroethyl vinyl ether	7.216	63	36057m	8.15	ppb		
49) cis-1,3-Dichloropropene	7.366	75	272592m	9.14	ppb		
50) 4-Methyl-2-Pentanone	7.505	43	78071m	8.34	ppb		
52) Toluene	7.684	91	824286	8.98	ppb		99
53) trans-1,3-Dichloropropene	7.931	75	165180m	6.94	ppb		
54) 1,1,2-Trichloroethane	8.123	97	101262m	7.39	ppb		
55) 1,3-Dichloropropane	8.296	76	164361m	7.19	ppb		
56) Tetrachloroethylene	8.237	166	306380	10.83	ppb	#	100
57) 2-Hexanone	8.351	43	36047m	6.03	ppb		
58) Dibromochloromethane	8.538	129	121532m	7.56	ppb		
59) 1,2-Dibromoethane	8.657	107	116473m	9.39	ppb		
60) Chlorobenzene	9.147	112	518272	9.48	ppb	#	88
61) 1,1,1,2-tetrachloroethane	9.233	131	169933	9.09	ppb		99
62) Ethyl Benzene	9.242	91	868876	9.83	ppb		97
63) p- & m-Xylenes	9.364	91	1253543	20.16	ppb		98
64) o-Xylene	9.795	91	611063	10.07	ppb		99
65) Styrene	9.817	104	475052	9.93	ppb		96
66) Bromoform	10.060	173	58054m	7.94	ppb		
68) p-Ethyltoluene	10.761	105	533130m	11.75	ppb		
69) Isopropylbenzene	10.182	105	726381m	12.03	ppb		
71) 1,1,2,2-Tetrachloroethane	10.560	83	72867	8.75	ppb	#	99
72) Bromobenzene	10.549	77	203881	10.51	ppb	#	79
73) trans-1,4-Dichloro-2-b...	10.610	75	72814	8.01	ppb	#	66
74) 1,2,3-Trichloropropane	10.605	110	23206	9.36	ppb		86
75) n-Propylbenzene	10.635	91	646616m	11.04	ppb		
76) 2-Chlorotoluene	10.752	91	422849m	10.73	ppb		
77) 4-Chlorotoluene	10.872	91	379537m	11.20	ppb		
78) 1,3,5-Trimethylbenzene	10.827	105	437813m	11.76	ppb		
79) tert-Butylbenzene	11.189	119	407668m	13.33	ppb		
80) 1,2,4-Trimethylbenzene	11.248	105	442425	12.89	ppb		98
81) sec-Butylbenzene	11.434	105	417679m	11.62	ppb		
82) 1,3-Dichlorobenzene	11.590	146	206325	11.68	ppb		97
83) p-Isopropyltoluene	11.595	119	290870m	9.54	ppb		
84) 1,4-Dichlorobenzene	11.687	146	193977	11.28	ppb		97
85) 1,2,3-Trimethylbenzene	11.726	105	300608	11.22	ppb		97
86) p-Diethylbenzene	12.029	105	110699m	8.89	ppb		
87) 1,2-Dichlorobenzene	12.113	146	130221	9.68	ppb	#	73
88) n-Butylbenzene	12.057	91	315862	13.11	ppb	#	92
89) 1,2-Dibromo-3-chloropr...	13.017	75	5175m	8.41	ppb		
90) 1,2,4,5-Tetramethylben...	12.917	119	217568	11.00	ppb		97
91) 1,2,4-Trichlorobenzene	13.935	180	60629	9.30	ppb	#	96
92) Hexachloro-1,3-Butadiene	14.105	225	24924	14.97	ppb	#	94
93) Naphthalene	14.225	128	79873	7.39	ppb		98
94) 1,2,3-Trichlorobenzene	14.500	180	40554	8.86	ppb	#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\110718A\
Data File : QV611526.D
Acq On : 10 Nov 2018 5:19 am
InstName : QVOA6
Operator : LLJ
Sample : BK80517-BSD1
Misc : QBQV6110918B ICV AQU
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Nov 12 12:46:07 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration



LCS RAW DATA

SDG: 18K0078
CLASS: VOA
METHOD: EPA 8260C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611595A.D
Acq On : 13 Nov 2018 1:20 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80632-BS1
Misc : QBQV6111318A ICV AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 13 15:46:45 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.075	70	224806	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.119	117	904468	10.00	ppb	#	0.01
67) 1,2-DICHLOROBENZENE-d4...	12.096	152	150684	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.775	65	242681	11.45	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 114.50%				
51) Toluene-d8 (SURR)	7.617	98	1201073	8.97	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 89.70%				
70) p-Bromofluorobenzene (...	10.382	95	334740	11.26	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 112.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.490	85	134477	9.48	ppb	#	1
3) Chloromethane	1.730	50	92088	8.94	ppb	#	43
4) Vinyl Chloride	1.821	62	220962	9.66	ppb	#	47
5) Bromomethane	2.194	94	89527	13.41	ppb		66
6) Chloroethane	2.319	64	150591	10.20	ppb		89
7) Trichlorofluoromethane	2.600	101	371060	12.68	ppb		98
8) Ethanol	2.895	45	49576	510.41	ppb	#	1
9) Freon-113	3.168	101	250705	11.83	ppb		100
10) 1,1-Dichloroethylene	3.174	61	350166	11.11	ppb	#	81
11) Acrolein	3.115	56	19576	10.85	ppb	#	85
12) Acetone	3.285	43	51460	15.52	ppb	#	94
13) Iodomethane	3.346	142	115475	12.78	ppb		97
14) Methyl Acetate	3.610	43	89949	12.24	ppb	#	95
15) Carbon disulfide	3.404	76	555483	10.18	ppb		100
16) tert-Butyl Alcohol (TBA)	3.861	59	17330m	12.35	ppb		
17) Methylene Chloride	3.713	49	259297	11.43	ppb	#	57
18) Acrylonitrile	3.991	53	42406m	11.76	ppb		
19) trans-1,2-Dichloroethy...	3.975	61	334158	10.52	ppb		92
20) tert-Butyl Methyl Ethe...	3.964	73	657962	11.95	ppb	#	88
21) 1,1-Dichloroethane	4.406	63	475881	11.43	ppb		99
22) Vinyl Acetate	4.445	43	582199	11.90	ppb	#	100
23) Diisopropyl ether (DIPE)	4.439	45	761743	11.71	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.793	59	802667	12.34	ppb	#	94
25) cis-1,2-Dichloroethylene	4.982	61	414502	11.40	ppb		89
26) 2-Butanone	5.010	72	23353	14.20	ppb	#	95
27) 2,2-Dichloropropane	4.960	77	410826	12.17	ppb	#	83
28) Tetrahydrofuran	5.269	42	36073	10.69	ppb	#	1
29) Bromochloromethane	5.218	49	175182	12.51	ppb	#	70
30) Chloroform	5.294	83	490921	11.74	ppb	#	92
31) 1,1,1-Trichloroethane	5.444	97	423460	11.47	ppb	#	71
32) Cyclohexane	5.477	56	391226	10.38	ppb	#	75
33) 1,1-Dichloropropylene	5.605	75	371603	11.02	ppb	#	84
35) Carbon Tetrachloride	5.600	117	368769	11.49	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.825	59	161356	127.93	ppb	#	78
37) 1,2-Dichloroethane	5.850	62	274412	12.46	ppb		99
38) Benzene	5.808	78	1146897	11.33	ppb	#	87
39) tert-Amyl methyl ether...	5.889	73	764748	12.59	ppb	#	100
41) Trichloroethylene	6.429	95	296191	9.79	ppb		99
42) Methyl Cyclohexane	6.582	83	372656	8.34	ppb	#	72
43) Methyl Methacrylate	6.749	69	142292	11.31	ppb		65
44) Dibromomethane	6.796	93	142962	11.36	ppb		98
45) Bromodichloromethane	6.941	83	371080	11.10	ppb	#	93
46) 1,2-Dichloropropane	6.660	63	282790	10.51	ppb	#	99
47) 1,4-Dioxane	6.804	88	27559	255.83	ppb	#	91
48) 2-Chloroethyl vinyl ether	7.216	63	70800	11.30	ppb	#	92
49) cis-1,3-Dichloropropene	7.372	75	452762	10.72	ppb	#	74
50) 4-Methyl-2-Pentanone	7.508	43	142960	10.78	ppb	#	74
52) Toluene	7.686	91	1344839	10.35	ppb		100

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611595A.D
Acq On : 13 Nov 2018 1:20 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80632-BS1
Misc : QBQV6111318A ICV AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 13 15:46:45 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

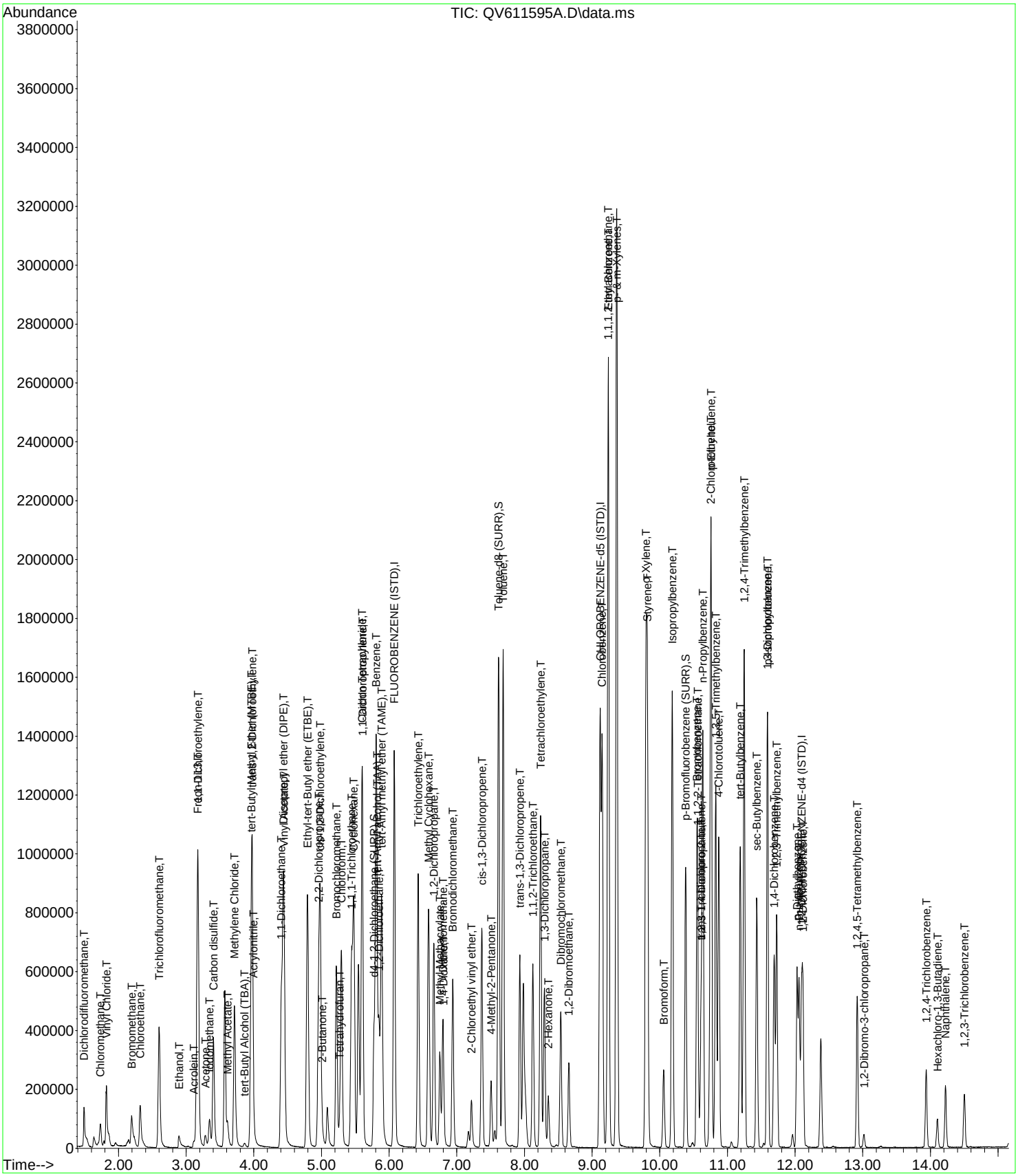
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.931	75	374105	11.10	ppb		99
54) 1,1,2-Trichloroethane	8.123	97	212573	10.95	ppb		90
55) 1,3-Dichloropropane	8.296	76	358062	11.07	ppb	#	73
56) Tetrachloroethylene	8.237	166	364429	9.09	ppb	#	100
57) 2-Hexanone	8.351	43	106010	12.52	ppb	#	82
58) Dibromochloromethane	8.538	129	263597	11.58	ppb		97
59) 1,2-Dibromoethane	8.655	107	204888	11.67	ppb		98
60) Chlorobenzene	9.147	112	823395	10.64	ppb	#	92
61) 1,1,1,2-tetrachloroethane	9.236	131	292848	11.06	ppb		97
62) Ethyl Benzene	9.239	91	1380895	11.04	ppb		99
63) p- & m-Xylenes	9.364	91	1973950	22.42	ppb		99
64) o-Xylene	9.795	91	987563	11.50	ppb		100
65) Styrene	9.818	104	795439	11.74	ppb		99
66) Bromoform	10.060	173	137780	13.31	ppb		99
68) p-Ethyltoluene	10.758	105	906688	12.09	ppb	#	82
69) Isopropylbenzene	10.185	105	1179629	11.81	ppb		99
71) 1,1,2,2-Tetrachloroethane	10.560	83	187633	13.63	ppb	#	99
72) Bromobenzene	10.549	77	393767	12.27	ppb	#	90
73) trans-1,4-Dichloro-2-b...	10.610	75	205004	13.63	ppb	#	50
74) 1,2,3-Trichloropropane	10.610	110	56448	13.76	ppb		98
75) n-Propylbenzene	10.635	91	1163732	12.01	ppb		99
76) 2-Chlorotoluene	10.752	91	781529	11.99	ppb		100
77) 4-Chlorotoluene	10.869	91	672781	12.01	ppb		99
78) 1,3,5-Trimethylbenzene	10.827	105	723188	11.75	ppb		99
79) tert-Butylbenzene	11.189	119	585221	11.57	ppb		99
80) 1,2,4-Trimethylbenzene	11.248	105	657356	11.58	ppb		99
81) sec-Butylbenzene	11.431	105	667403	11.23	ppb		98
82) 1,3-Dichlorobenzene	11.590	146	323843	11.08	ppb		98
83) p-Isopropyltoluene	11.593	119	549427	10.89	ppb		98
84) 1,4-Dichlorobenzene	11.690	146	312150	10.98	ppb		99
85) 1,2,3-Trimethylbenzene	11.726	105	489300	11.05	ppb		99
86) p-Diethylbenzene	12.029	105	213756	10.38	ppb	#	99
87) 1,2-Dichlorobenzene	12.116	146	236351	10.62	ppb	#	87
88) n-Butylbenzene	12.057	91	403583	10.13	ppb		97
89) 1,2-Dibromo-3-chloropr...	13.020	75	11130	10.93	ppb		92
90) 1,2,4,5-Tetramethylben...	12.917	119	310494	9.49	ppb		99
91) 1,2,4-Trichlorobenzene	13.938	180	95742	8.88	ppb		98
92) Hexachloro-1,3-Butadiene	14.105	225	22334	8.11	ppb		96
93) Naphthalene	14.222	128	184321	10.31	ppb		98
94) 1,2,3-Trichlorobenzene	14.503	180	68546	9.05	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611595A.D
Acq On : 13 Nov 2018 1:20 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80632-BS1
Misc : QBQV6111318A ICV AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 13 15:46:45 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611596A.D
Acq On : 13 Nov 2018 1:46 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80632-BSD1
Misc : QBQV6111318A ICV AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 13 15:56:52 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.075	70	209046	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.116	117	834781	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	148011	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.775	65	234119	11.88	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 118.80%				
51) Toluene-d8 (SURR)	7.617	98	1167186	9.45	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 94.50%				
70) p-Bromofluorobenzene (...	10.382	95	311602	10.67	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 106.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.490	85	97409	7.38	ppb	#	1
3) Chloromethane	1.732	50	85084	8.88	ppb	#	48
4) Vinyl Chloride	1.821	62	219123	10.30	ppb	#	47
5) Bromomethane	2.191	94	80245	12.92	ppb		65
6) Chloroethane	2.319	64	140630	10.24	ppb		89
7) Trichlorofluoromethane	2.600	101	351818	12.93	ppb		98
8) Ethanol	2.934	45	103150	1142.05	ppb	#	1
9) Freon-113	3.165	101	246775	12.52	ppb		99
10) 1,1-Dichloroethylene	3.176	61	318600	10.87	ppb	#	78
11) Acrolein	3.118	56	4300m	2.56	ppb		
12) Acetone	3.290	43	31954m	10.36	ppb		
13) Iodomethane	3.343	142	92951	11.06	ppb		97
14) Methyl Acetate	3.610	43	73256	10.72	ppb	#	95
15) Carbon disulfide	3.402	76	528548	10.42	ppb		100
16) tert-Butyl Alcohol (TBA)	3.858	59	80286	61.54	ppb	#	1
17) Methylene Chloride	3.713	49	234708	11.13	ppb	#	59
18) Acrylonitrile	3.992	53	41542m	12.39	ppb		
19) trans-1,2-Dichloroethy...	3.978	61	302739	10.25	ppb		92
20) tert-Butyl Methyl Ethe...	3.964	73	593258	11.59	ppb	#	97
21) 1,1-Dichloroethane	4.406	63	425846	11.00	ppb		98
22) Vinyl Acetate	4.445	43	465751	10.24	ppb	#	100
23) Diisopropyl ether (DIPE)	4.439	45	659479	10.90	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.793	59	708121	11.70	ppb	#	94
25) cis-1,2-Dichloroethylene	4.982	61	361838	10.70	ppb		89
26) 2-Butanone	5.010	72	12688	8.30	ppb	#	95
27) 2,2-Dichloropropane	4.963	77	351334	11.19	ppb	#	84
28) Tetrahydrofuran	5.271	42	35473m	11.30	ppb		
29) Bromochloromethane	5.221	49	150155	11.53	ppb	#	72
30) Chloroform	5.291	83	426506	10.97	ppb	#	84
31) 1,1,1-Trichloroethane	5.444	97	378790	11.03	ppb	#	71
32) Cyclohexane	5.474	56	387473	11.05	ppb	#	76
33) 1,1-Dichloropropylene	5.602	75	332261	10.60	ppb	#	86
35) Carbon Tetrachloride	5.597	117	339767	11.39	ppb	#	55
36) tert-Amyl alcohol (TAA)	5.825	59	136964	116.78	ppb		90
37) 1,2-Dichloroethane	5.850	62	243983	11.92	ppb		99
38) Benzene	5.808	78	1023912	10.88	ppb	#	87
39) tert-Amyl methyl ether...	5.886	73	657481	11.64	ppb	#	90
41) Trichloroethylene	6.429	95	271244	9.72	ppb		98
42) Methyl Cyclohexane	6.582	83	368619	8.93	ppb	#	73
43) Methyl Methacrylate	6.752	69	119637	10.31	ppb		67
44) Dibromomethane	6.793	93	121594	10.47	ppb		100
45) Bromodichloromethane	6.941	83	322308	10.45	ppb	#	93
46) 1,2-Dichloropropane	6.660	63	236773	9.53	ppb	#	99
47) 1,4-Dioxane	6.802	88	41787	420.28	ppb	#	86
48) 2-Chloroethyl vinyl ether	7.213	63	76951	13.30	ppb	#	93
49) cis-1,3-Dichloropropene	7.372	75	381875	9.79	ppb	#	75
50) 4-Methyl-2-Pentanone	7.508	43	127219	10.39	ppb	#	76
52) Toluene	7.686	91	1240548	10.34	ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611596A.D
Acq On : 13 Nov 2018 1:46 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80632-BSD1
Misc : QBQV6111318A ICV AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 13 15:56:52 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

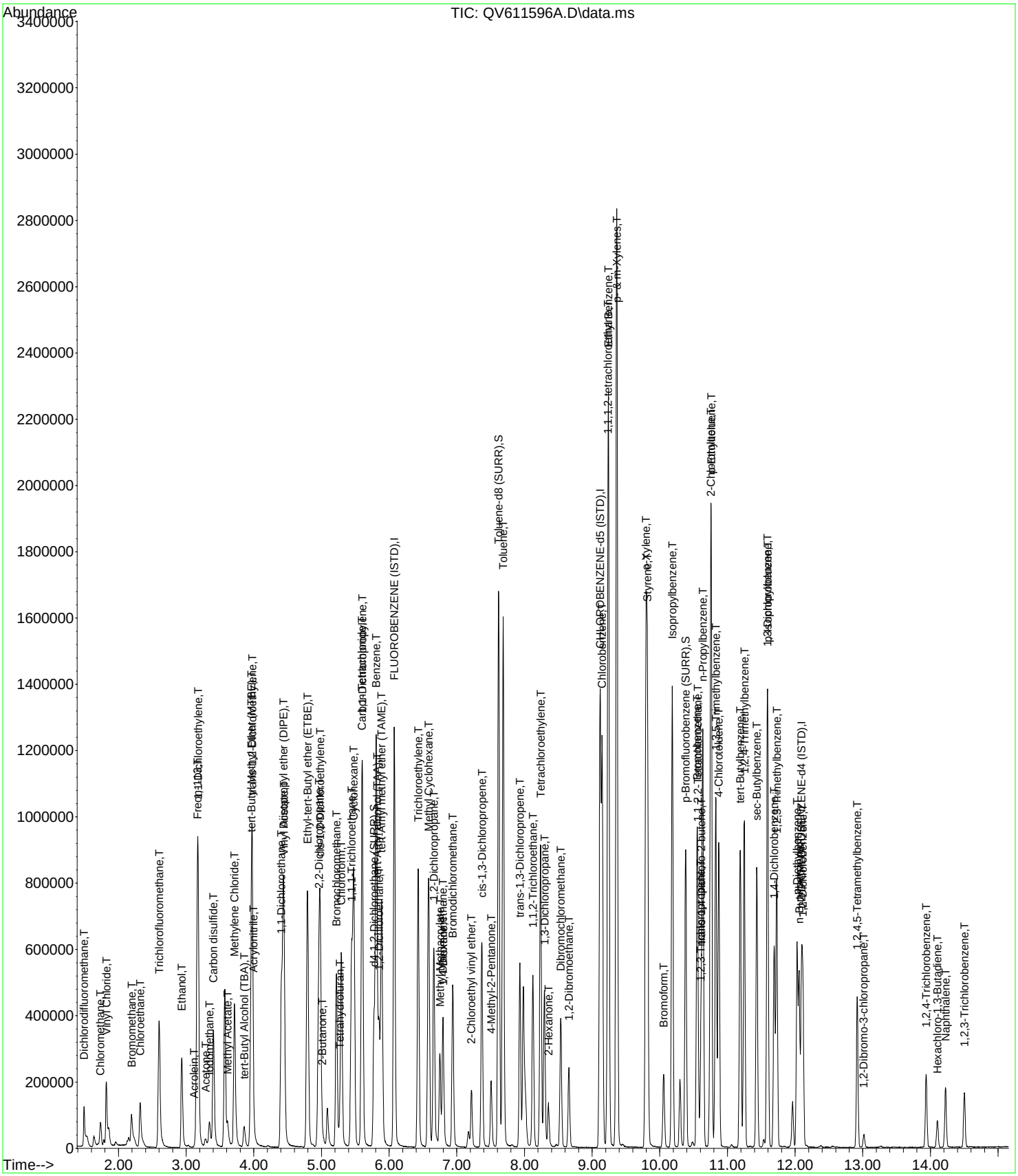
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.934	75	318049	10.23	ppb		99
54) 1,1,2-Trichloroethane	8.126	97	174307	9.73	ppb		90
55) 1,3-Dichloropropane	8.296	76	301556	10.10	ppb	#	74
56) Tetrachloroethylene	8.237	166	290130	7.85	ppb	#	100
57) 2-Hexanone	8.354	43	79996	10.24	ppb	#	83
58) Dibromochloromethane	8.535	129	222531	10.59	ppb		97
59) 1,2-Dibromoethane	8.657	107	170041	10.49	ppb		97
60) Chlorobenzene	9.147	112	702565	9.84	ppb	#	93
61) 1,1,1,2-tetrachloroethane	9.233	131	253805	10.39	ppb		98
62) Ethyl Benzene	9.242	91	1220624	10.57	ppb		99
63) p- & m-Xylenes	9.364	91	1743135	21.45	ppb		98
64) o-Xylene	9.795	91	911009	11.49	ppb		100
65) Styrene	9.818	104	708529	11.33	ppb		98
66) Bromoform	10.057	173	112597	11.78	ppb	#	80
68) p-Ethyltoluene	10.761	105	825528	11.20	ppb	#	55
69) Isopropylbenzene	10.185	105	1027071	10.47	ppb		99
71) 1,1,2,2-Tetrachloroethane	10.560	83	163295	12.07	ppb	#	69
72) Bromobenzene	10.552	77	340729	10.81	ppb	#	91
73) trans-1,4-Dichloro-2-b...	10.610	75	175291	11.87	ppb	#	67
74) 1,2,3-Trichloropropane	10.605	110	47508	11.79	ppb	#	55
75) n-Propylbenzene	10.636	91	1033316	10.86	ppb		99
76) 2-Chlorotoluene	10.752	91	692644	10.82	ppb		100
77) 4-Chlorotoluene	10.872	91	586181	10.65	ppb		99
78) 1,3,5-Trimethylbenzene	10.827	105	634806	10.50	ppb		99
79) tert-Butylbenzene	11.189	119	520443	10.48	ppb		99
80) 1,2,4-Trimethylbenzene	11.250	105	608995	10.92	ppb		98
81) sec-Butylbenzene	11.431	105	663326	11.36	ppb		99
82) 1,3-Dichlorobenzene	11.590	146	299193	10.42	ppb		98
83) p-Isopropyltoluene	11.593	119	519435	10.48	ppb		99
84) 1,4-Dichlorobenzene	11.690	146	285947	10.24	ppb		99
85) 1,2,3-Trimethylbenzene	11.729	105	516142	11.86	ppb		99
86) p-Diethylbenzene	12.029	105	216928	10.73	ppb	#	99
87) 1,2-Dichlorobenzene	12.113	146	214185	9.80	ppb		100
88) n-Butylbenzene	12.060	91	386116	9.86	ppb	#	93
89) 1,2-Dibromo-3-chloropr...	13.012	75	4485	4.48	ppb	#	3
90) 1,2,4,5-Tetramethylben...	12.917	119	267848	8.33	ppb		99
91) 1,2,4-Trichlorobenzene	13.935	180	78433	7.41	ppb		99
92) Hexachloro-1,3-Butadiene	14.102	225	18721	6.92	ppb	#	91
93) Naphthalene	14.225	128	161382	9.19	ppb		99
94) 1,2,3-Trichlorobenzene	14.503	180	60369	8.12	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611596A.D
Acq On : 13 Nov 2018 1:46 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80632-BSD1
Misc : QBQV6111318A ICV AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 13 15:56:52 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration



LCS RAW DATA

SDG: 18K0078
CLASS: VOA
METHOD: EPA 8260C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611651.D
Acq On : 14 Nov 2018 1:53 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80724-BS1
Misc : QBQV6111318C ICV AQU
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Nov 14 15:42:21 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.078	70	232617	10.00	ppb	#	0.01
40) CHLOROBENZENE-d5 (ISTD)	9.119	117	760874	10.00	ppb	#	0.01
67) 1,2-DICHLOROBENZENE-d4...	12.096	152	127924	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.778	65	242623	11.06	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 110.60%				
51) Toluene-d8 (SURR)	7.620	98	1164698	10.34	ppb		0.01
Spiked Amount 10.000	Range 81 - 117		Recovery = 103.40%				
70) p-Bromofluorobenzene (...	10.382	95	228070	9.03	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 90.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	73758	5.02	ppb	#	1
3) Chloromethane	1.727	50	75607	7.09	ppb	#	42
4) Vinyl Chloride	1.827	62	194595	8.22	ppb	#	47
5) Bromomethane	2.205	94	62116	8.99	ppb		65
6) Chloroethane	2.328	64	134591	8.81	ppb		90
7) Trichlorofluoromethane	2.609	101	353159	11.66	ppb		98
9) Freon-113	3.171	101	245685	11.20	ppb		100
10) 1,1-Dichloroethylene	3.182	61	352439	10.81	ppb		83
11) Acrolein	3.124	56	15044	8.06	ppb	#	83
12) Acetone	3.290	43	43383	12.65	ppb	#	97
13) Iodomethane	3.352	142	81622	8.73	ppb		96
14) Methyl Acetate	3.619	43	76557	10.07	ppb	#	96
15) Carbon disulfide	3.410	76	490951	8.70	ppb		100
16) tert-Butyl Alcohol (TBA)	3.866	59	13378	9.21	ppb	#	1
17) Methylene Chloride	3.719	49	245866	10.48	ppb	#	58
18) Acrylonitrile	4.003	53	38111m	10.21	ppb		
19) trans-1,2-Dichloroethy...	3.980	61	334498	10.18	ppb		92
20) tert-Butyl Methyl Ethe...	3.972	73	607905	10.67	ppb	#	88
21) 1,1-Dichloroethane	4.412	63	473437	10.99	ppb		99
22) Vinyl Acetate	4.451	43	550155	10.87	ppb	#	100
23) Diisopropyl ether (DIPE)	4.445	45	744054	11.05	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.796	59	771959	11.47	ppb	#	85
25) cis-1,2-Dichloroethylene	4.988	61	412574	10.96	ppb		89
26) 2-Butanone	5.015	72	20075	11.80	ppb	#	95
27) 2,2-Dichloropropane	4.965	77	420585	12.04	ppb	#	65
28) Tetrahydrofuran	5.277	42	30581	8.75	ppb	#	1
29) Bromochloromethane	5.227	49	158516	10.94	ppb	#	69
30) Chloroform	5.299	83	482862	11.16	ppb	#	93
31) 1,1,1-Trichloroethane	5.449	97	419077	10.97	ppb	#	71
32) Cyclohexane	5.480	56	372785	9.56	ppb	#	76
33) 1,1-Dichloropropylene	5.608	75	364765	10.45	ppb	#	83
35) Carbon Tetrachloride	5.600	117	350631	10.56	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.831	59	117543	90.06	ppb	#	76
37) 1,2-Dichloroethane	5.853	62	248694	10.92	ppb	#	98
38) Benzene	5.811	78	1127005	10.76	ppb	#	85
39) tert-Amyl methyl ether...	5.892	73	702153	11.17	ppb	#	100
41) Trichloroethylene	6.434	95	291196	11.45	ppb		98
42) Methyl Cyclohexane	6.587	83	349478	9.29	ppb	#	73
43) Methyl Methacrylate	6.754	69	118238	11.17	ppb		67
44) Dibromomethane	6.796	93	123464	11.66	ppb		98
45) Bromodichloromethane	6.944	83	334951	11.91	ppb	#	93
46) 1,2-Dichloropropane	6.663	63	266419	11.77	ppb	#	99
47) 1,4-Dioxane	6.813	88	19098	210.74	ppb	#	91

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611651.D
Acq On : 14 Nov 2018 1:53 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80724-BS1
Misc : QBQV6111318C ICV AQU
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Nov 14 15:42:21 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

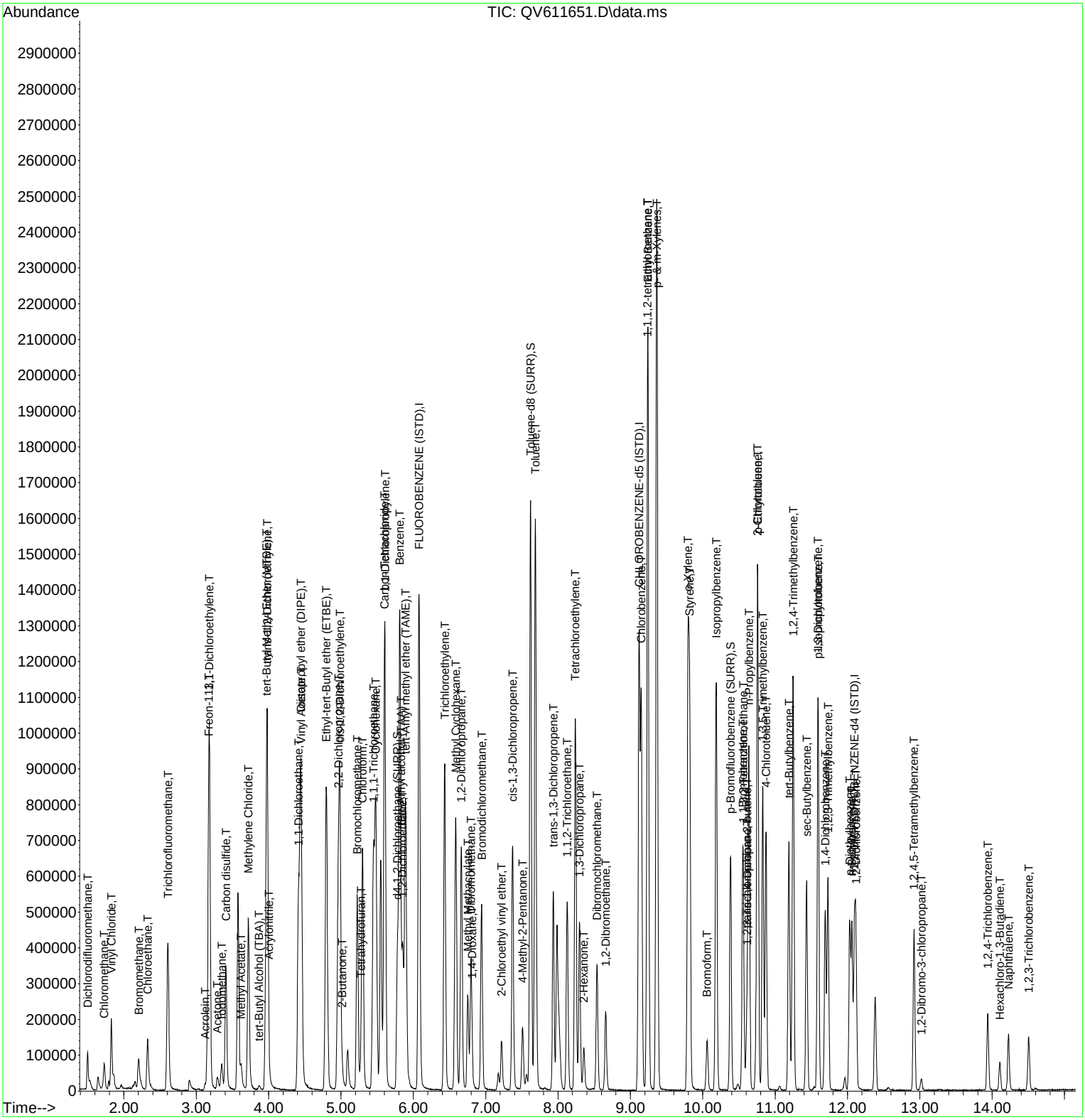
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Chloroethyl vinyl ether	7.219	63	60867	11.55	ppb	#	93
49) cis-1,3-Dichloropropene	7.372	75	411139	11.57	ppb	#	76
50) 4-Methyl-2-Pentanone	7.511	43	110557	9.91	ppb	#	74
52) Toluene	7.686	91	1224095	11.20	ppb		100
53) trans-1,3-Dichloropropene	7.934	75	309366	10.91	ppb		99
54) 1,1,2-Trichloroethane	8.126	97	178667	10.94	ppb		90
55) 1,3-Dichloropropane	8.296	76	297486	10.93	ppb	#	74
56) Tetrachloroethylene	8.237	166	332739	9.87	ppb	#	100
57) 2-Hexanone	8.354	43	74410	10.45	ppb	#	82
58) Dibromochloromethane	8.538	129	197136	10.30	ppb		97
59) 1,2-Dibromoethane	8.657	107	156014	10.56	ppb		98
60) Chlorobenzene	9.150	112	646917	9.94	ppb	#	93
61) 1,1,1,2-tetrachloroethane	9.236	131	235938	10.60	ppb		98
62) Ethyl Benzene	9.242	91	1103071	10.48	ppb		99
63) p- & m-Xylenes	9.364	91	1523122	20.57	ppb		99
64) o-Xylene	9.795	91	728145	10.08	ppb		100
65) Styrene	9.818	104	555469	9.75	ppb		97
66) Bromoform	10.057	173	72169	8.29	ppb		99
68) p-Ethyltoluene	10.761	105	610345	9.58	ppb	#	55
69) Isopropylbenzene	10.188	105	845087	9.97	ppb		99
71) 1,1,2,2-Tetrachloroethane	10.560	83	104212	8.92	ppb	#	99
72) Bromobenzene	10.552	77	241678	8.87	ppb	#	90
73) trans-1,4-Dichloro-2-b...	10.613	75	110939	8.69	ppb	#	70
74) 1,2,3-Trichloropropane	10.611	110	32242	9.26	ppb		93
75) n-Propylbenzene	10.638	91	795774	9.68	ppb		99
76) 2-Chlorotoluene	10.755	91	518398	9.37	ppb		100
77) 4-Chlorotoluene	10.875	91	448704	9.43	ppb		99
78) 1,3,5-Trimethylbenzene	10.828	105	500994	9.59	ppb		99
79) tert-Butylbenzene	11.192	119	393976	9.18	ppb		99
80) 1,2,4-Trimethylbenzene	11.250	105	468815	9.73	ppb		98
81) sec-Butylbenzene	11.437	105	462390	9.16	ppb		99
82) 1,3-Dichlorobenzene	11.593	146	241564	9.74	ppb		98
83) p-Isopropyltoluene	11.595	119	403720	9.43	ppb		99
84) 1,4-Dichlorobenzene	11.693	146	237190	9.83	ppb		99
85) 1,2,3-Trimethylbenzene	11.729	105	373808	9.94	ppb		99
86) p-Diethylbenzene	12.029	105	173707	9.94	ppb	#	99
87) 1,2-Dichlorobenzene	12.118	146	193085	10.22	ppb		100
88) n-Butylbenzene	12.060	91	328607	9.71	ppb		94
89) 1,2-Dibromo-3-chloropr...	13.023	75	7952	9.20	ppb		94
90) 1,2,4,5-Tetramethylben...	12.917	119	273866	9.86	ppb		99
91) 1,2,4-Trichlorobenzene	13.938	180	77775	8.50	ppb		97
92) Hexachloro-1,3-Butadiene	14.108	225	18530	7.93	ppb		96
93) Naphthalene	14.225	128	140219	9.24	ppb		98
94) 1,2,3-Trichlorobenzene	14.506	180	55184	8.59	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611651.D
Acq On : 14 Nov 2018 1:53 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80724-BS1
Misc : QBQV6111318C ICV AQU
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Nov 14 15:42:21 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611652.D
Acq On : 14 Nov 2018 2:19 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80724-BSD1
Misc : QBQV6111318C ICV AQU
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Nov 14 15:55:34 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.075	70	228963	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.119	117	740996	10.00	ppb	#	0.01
67) 1,2-DICHLOROBENZENE-d4...	12.093	152	123444	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.778	65	233605	10.82	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.20%				
51) Toluene-d8 (SURR)	7.617	98	1167967	10.65	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 106.50%				
70) p-Bromofluorobenzene (...	10.382	95	215692	8.85	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 88.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	124630	8.62	ppb	#	1
3) Chloromethane	1.724	50	84463	8.05	ppb	#	42
4) Vinyl Chloride	1.827	62	229434	9.85	ppb	#	47
5) Bromomethane	2.205	94	77528	11.40	ppb		66
6) Chloroethane	2.325	64	151061	10.04	ppb		89
7) Trichlorofluoromethane	2.606	101	424475	14.24	ppb		98
9) Freon-113	3.168	101	290987	13.48	ppb		100
10) 1,1-Dichloroethylene	3.179	61	385012	12.00	ppb	#	79
11) Acrolein	3.123	56	14965	8.14	ppb	#	85
12) Acetone	3.288	43	41678	12.34	ppb	#	94
13) Iodomethane	3.349	142	104961	11.40	ppb		96
14) Methyl Acetate	3.616	43	74422	9.95	ppb	#	96
15) Carbon disulfide	3.407	76	533815	9.61	ppb		100
16) tert-Butyl Alcohol (TBA)	3.864	59	13882	9.71	ppb	#	1
17) Methylene Chloride	3.716	49	256697	11.11	ppb	#	58
18) Acrylonitrile	3.997	53	28532	7.77	ppb	#	42
19) trans-1,2-Dichloroethy...	3.978	61	361179	11.17	ppb		92
20) tert-Butyl Methyl Ethe...	3.964	73	628995	11.22	ppb	#	97
21) 1,1-Dichloroethane	4.412	63	505455	11.92	ppb		98
22) Vinyl Acetate	4.448	43	568212	11.41	ppb	#	100
23) Diisopropyl ether (DIPE)	4.439	45	778453	11.75	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.793	59	793078m	11.97	ppb		
25) cis-1,2-Dichloroethylene	4.982	61	433047	11.69	ppb		89
26) 2-Butanone	5.010	72	20153	12.03	ppb	#	95
27) 2,2-Dichloropropane	4.963	77	451803	13.14	ppb	#	56
28) Tetrahydrofuran	5.277	42	29116	8.47	ppb	#	1
29) Bromochloromethane	5.224	49	168741	11.83	ppb	#	71
30) Chloroform	5.296	83	510477	11.99	ppb	#	84
31) 1,1,1-Trichloroethane	5.447	97	460506	12.25	ppb	#	71
32) Cyclohexane	5.477	56	455945	11.88	ppb	#	76
33) 1,1-Dichloropropylene	5.602	75	402672	11.72	ppb	#	85
35) Carbon Tetrachloride	5.600	117	396619	12.14	ppb	#	55
36) tert-Amyl alcohol (TAA)	5.828	59	117622	91.56	ppb		89
37) 1,2-Dichloroethane	5.853	62	270919	12.08	ppb		100
38) Benzene	5.808	78	1194368	11.59	ppb	#	86
39) tert-Amyl methyl ether...	5.889	73	718204	11.60	ppb	#	90
41) Trichloroethylene	6.432	95	310033	12.51	ppb		98
42) Methyl Cyclohexane	6.585	83	445812	12.17	ppb	#	73
43) Methyl Methacrylate	6.752	69	117666	11.42	ppb	#	60
44) Dibromomethane	6.796	93	127307	12.35	ppb		99
45) Bromodichloromethane	6.941	83	347384	12.69	ppb	#	93
46) 1,2-Dichloropropane	6.660	63	278168	12.62	ppb	#	98
47) 1,4-Dioxane	6.804	88	18810	213.13	ppb	#	88

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611652.D
Acq On : 14 Nov 2018 2:19 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80724-BSD1
Misc : QBQV6111318C ICV AQU
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Nov 14 15:55:34 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration

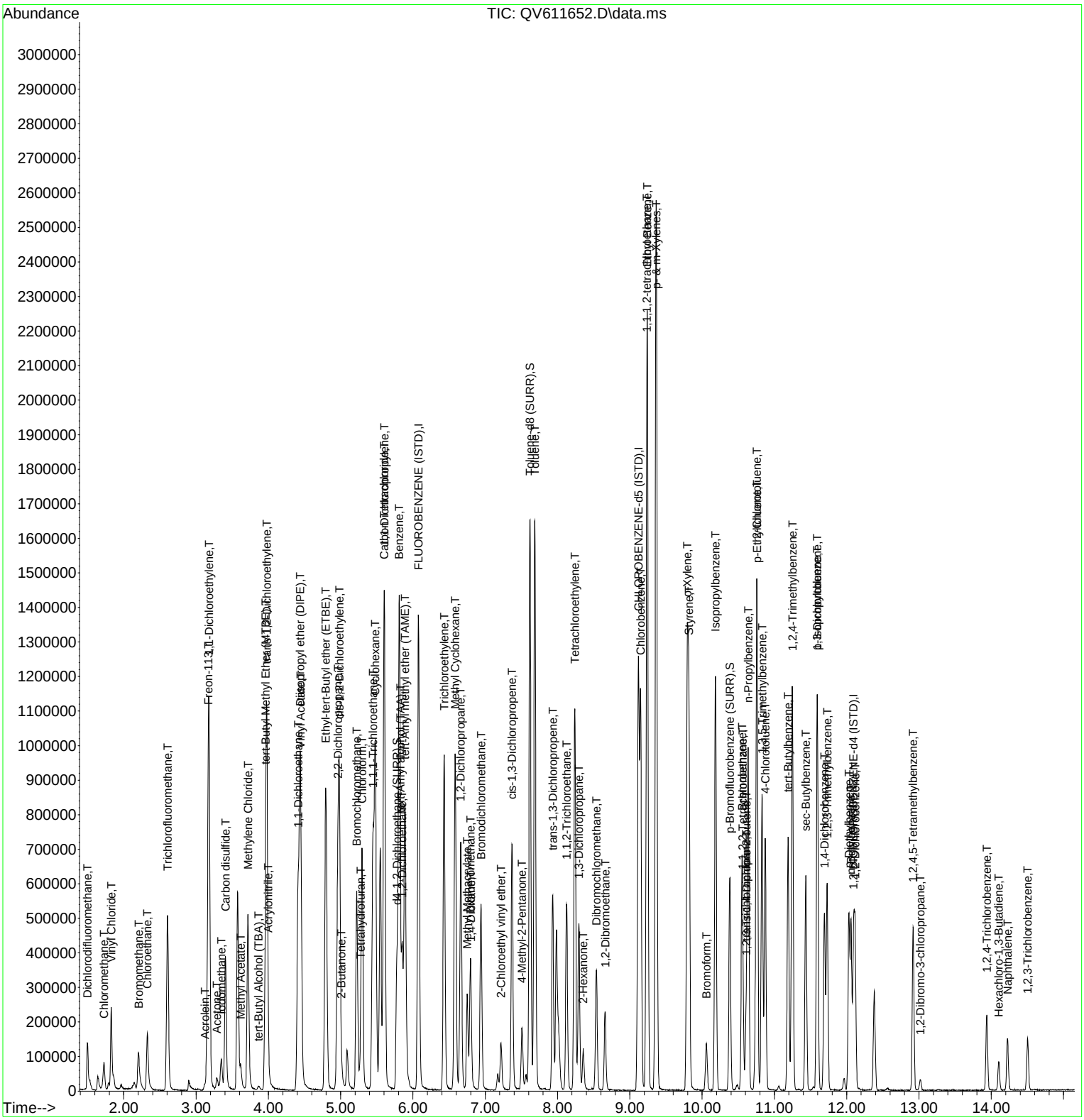
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Chloroethyl vinyl ether	7.219	63	61529	11.98	ppb	#	92
49) cis-1,3-Dichloropropene	7.369	75	430963	12.45	ppb	#	76
50) 4-Methyl-2-Pentanone	7.508	43	111586	10.27	ppb	#	74
52) Toluene	7.686	91	1312231	12.33	ppb		100
53) trans-1,3-Dichloropropene	7.934	75	319314	11.57	ppb	#	92
54) 1,1,2-Trichloroethane	8.123	97	183732	11.55	ppb		89
55) 1,3-Dichloropropane	8.296	76	309905	11.69	ppb	#	74
56) Tetrachloroethylene	8.240	166	362324	11.04	ppb	#	100
57) 2-Hexanone	8.354	43	72590	10.47	ppb	#	82
58) Dibromochloromethane	8.538	129	199792	10.71	ppb		97
59) 1,2-Dibromoethane	8.660	107	161763	11.25	ppb		99
60) Chlorobenzene	9.150	112	673092	10.62	ppb	#	92
61) 1,1,1,2-tetrachloroethane	9.236	131	247921	11.43	ppb		99
62) Ethyl Benzene	9.242	91	1166719	11.38	ppb		99
63) p- & m-Xylenes	9.364	91	1607885	22.29	ppb		98
64) o-Xylene	9.795	91	748975	10.64	ppb		100
65) Styrene	9.818	104	563326	10.15	ppb		97
66) Bromoform	10.060	173	70141	8.27	ppb	#	81
68) p-Ethyltoluene	10.761	105	628701m	10.23	ppb		
69) Isopropylbenzene	10.185	105	869842	10.63	ppb		99
71) 1,1,2,2-Tetrachloroethane	10.563	83	102127	9.05	ppb	#	99
72) Bromobenzene	10.552	77	242836	9.24	ppb	#	90
73) trans-1,4-Dichloro-2-b...	10.610	75	109457	8.89	ppb	#	71
74) 1,2,3-Trichloropropane	10.608	110	31574	9.40	ppb	#	49
75) n-Propylbenzene	10.636	91	824071	10.38	ppb		99
76) 2-Chlorotoluene	10.755	91	527100	9.87	ppb		100
77) 4-Chlorotoluene	10.872	91	451368	9.83	ppb		100
78) 1,3,5-Trimethylbenzene	10.830	105	517040	10.25	ppb		99
79) tert-Butylbenzene	11.189	119	411578	9.93	ppb		99
80) 1,2,4-Trimethylbenzene	11.250	105	480905	10.34	ppb		99
81) sec-Butylbenzene	11.434	105	490191	10.06	ppb		99
82) 1,3-Dichlorobenzene	11.593	146	247802	10.35	ppb		98
83) p-Isopropyltoluene	11.593	119	420783	10.18	ppb		99
84) 1,4-Dichlorobenzene	11.693	146	242334	10.40	ppb		98
85) 1,2,3-Trimethylbenzene	11.729	105	384402	10.59	ppb		99
86) p-Diethylbenzene	12.029	105	183004	10.85	ppb	#	97
87) 1,2-Dichlorobenzene	12.116	146	199034	10.92	ppb	#	87
88) n-Butylbenzene	12.060	91	353137	10.82	ppb		96
89) 1,2-Dibromo-3-chloropr...	13.020	75	7996	9.59	ppb	#	66
90) 1,2,4,5-Tetramethylben...	12.917	119	291175	10.86	ppb		99
91) 1,2,4-Trichlorobenzene	13.941	180	79399	8.99	ppb		98
92) Hexachloro-1,3-Butadiene	14.102	225	19008	8.43	ppb		96
93) Naphthalene	14.225	128	137085	9.36	ppb		99
94) 1,2,3-Trichlorobenzene	14.503	180	54084	8.72	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\111318A\
Data File : QV611652.D
Acq On : 14 Nov 2018 2:19 pm
InstName : QVOA6
Operator : LLJ
Sample : BK80724-BSD1
Misc : QBQV6111318C ICV AQU
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Nov 14 15:55:34 2018
Quant Method : C:\msdchem\2\METHODS\VQ6LO042.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Nov 08 09:41:17 2018
Response via : Initial Calibration



BENCHSHEETS

SDG: 18K0078

CLASS: VOA

METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BK80517

Prepared: **11/10/2018 03:58**

York Analytical Laboratories, Inc.

Printed: 11/16/2018 2:43:57PM

Matrix: Water **Preparation EPA 5030B** **Surrogate used: Y17H086** **1** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
18K0047-04 A	Volatile Organics, 7	25	25							<2	NA		waters only
18K0071-01 A	Volatile Organics, 8	25	25							<2	NA		Log for waters
18K0071-02 A	Volatile Organics, 8	25	25							<2	NA		Log for waters
18K0071-03 A	Volatile Organics, 8	25	25							<2	NA		Log for waters
18K0071-04 A	Volatile Organics, 8	25	25							<2	NA		Log for waters
18K0071-05 A	Volatile Organics, 8	25	25							<2	NA		Log for waters
18K0071-06 A	Volatile Organics, 8	25	25							<2	NA		Log for waters
18K0078-01 A	Volatile Organics, 8	25	25							<2	NA		
18K0078-02 A	Volatile Organics, 8	25	25							<2	NA		
18K0078-03 A	Volatile Organics, 8	25	25							<2	NA		
18K0078-04 A	Volatile Organics, 8	25	25							<2	NA		
18K0078-05 A	Volatile Organics, 8	25	25							<2	NA		
18K0080-01 A	Volatile Organics, (	25	25							<2	NA		waters
18K0080-02 A	Volatile Organics, (	25	25							<2	NA		waters
18K0080-04 A	Volatile Organics, (	25	25							<2	NA		waters
18K0080-05 A	Volatile Organics, (	25	25							<2	NA		waters
18K0080-06 A	Volatile Organics, (	25	25							<2	NA		waters
18K0080-07 A	Volatile Organics, (	25	25							<2	NA		waters
18K0106-01 A	Volatile Organics, 1	25	25							<2	NA		
18K0106-02 A	Volatile Organics, 1	25	25							<2	NA		
BK80517-BLK1	QC	25	25										
BK80517-BS1	QC	25	25	Y18J079	5								
BK80517-BSD1	QC	25	25	Y18J079	5								

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by LDS **Date:** 11/10/2018 03:58

BENCHSHEETS

SDG: 18K0078

CLASS: VOA

METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BK80632

Prepared: **11/13/2018 11:40**

York Analytical Laboratories, Inc.

Printed: 11/16/2018 2:43:35PM

Matrix: Water **Preparation EPA 5030B** **Surrogate used: Y17H091** **1** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
18K0078-01RE1 C	Volatile Organics, 8	25	25							<2	NA		From BK80517 by TMP on 11/13/2018
18K0078-04RE1 C	Volatile Organics, 8	25	25							<2	NA		From BK80517 by TMP on 11/13/2018
18K0080-02RE1 A	Volatile Organics, (	25	25							<2	NA		waters
18K0080-03 B	Volatile Organics, (	25	25							<2	NA		waters
18K0106-03 B	Volatile Organics, 1	25	25							<2	Na		
18K0125-01 C	Volatile Organics, (	25	25							<2	Na		
18K0125-02 A	Volatile Organics, (	25	25							<2	Na		
18K0125-03 A	Volatile Organics, (	25	25							<2	Na		
18K0125-04 A	Volatile Organics, (	25	25							<2	Na		
18K0125-05 A	Volatile Organics, (	25	25							<2	Na		
18K0125-06 A	Volatile Organics, (	25	25							<2	Na		
18K0127-05 C	Volatile Organics, 1	25	25							<2	Na		
18K0167-29 A	Volatile Organics, (	25	25							<2	Na		
BK80632-BLK1	QC	25	25							<2	NA		
BK80632-BS1	QC	25	25	Y18J079	5					<2	NA		
BK80632-BSD1	QC	25	25	Y18J079	5					<2	NA		

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y18B221	Antifoam B Silicone Emulsion	0000171560			

Preparation Performed by **TMP** **Date:** **11/13/2018 11:40**

BENCHSHEETS

SDG: 18K0078

CLASS: VOA

METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BK80724

Prepared: **11/14/2018 12:33**

York Analytical Laboratories, Inc.

Printed: 11/16/2018 2:43:14PM

Matrix: Water **Preparation EPA 5030B** **Surrogate used: Y17H091** **1** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
18K0078-01RE2 C	Volatile Organics, 8	25	25							<2	NA		From BK80632 by LDS on 11/14/2018
18K0078-04RE2 C	Volatile Organics, 8	25	25							<2	NA		From BK80632 by LDS on 11/14/2018
18K0125-03RE1 A	Volatile Organics, C	25	25							<2	Na		From BK80632 by LDS on 11/14/2018
18K0125-05RE1 A	Volatile Organics, C	25	25							<2	Na		From BK80632 by LDS on 11/14/2018
18K0125-05RE2 A	Volatile Organics, C	25	25							<2	Na		Added 11/14/2018 by LDS
18K0125-08RE1 C	Volatile Organics, C	25	25										From BK80633 by LDS on 11/14/2018
18K0125-19RE1 C	Volatile Organics, C	25	25										From BK80633 by LDS on 11/14/2018
18K0165-04 A	Volatile Organics, C	25	25										LOG for WATERS
18K0165-05 A	Volatile Organics, C	25	25										LOG for WATERS
18K0193-01 B	VOA, 8260 LOW M	25	25										1x VOC analysis required
18K0193-02 B	VOA, 8260 LOW M	25	25										1x VOC analysis required
18K0194-01 B	VOA, 8260 LOW M	25	25										1x VOC analysis required
18K0194-02 B	VOA, 8260 LOW M	25	25										1x VOC analysis required
18K0194-03 B	VOA, 8260 LOW M	25	25										1x VOC analysis required
18K0194-04 B	VOA, 8260 LOW M	25	25										1x VOC analysis required
18K0194-05 B	VOA, 8260 LOW M	25	25										1x VOC analysis required
18K0211-01 A	Volatile Organics, 8	25	25										Log for waters
18K0211-02 A	Volatile Organics, 8	25	25										Log for waters
18K0211-03 A	Volatile Organics, 8	25	25										Log for waters
BK80724-BLK1	QC	25	25										
BK80724-BS1	QC	25	25	Y18J079	5								
BK80724-BSD1	QC	25	25	Y18J079	5								

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y18B221	Antifoam B Silicone Emulsion	0000171560			

Preparation Performed by **TMP** **Date:** **11/14/2018 12:33**

York Analytical Laboratories, Inc.
SDG: 18K0078
CLASS: METALS
METHOD: EPA 6010D

DATA PACKAGE COVER PAGE

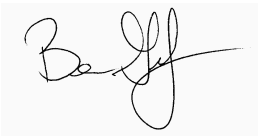
EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 1118	18K0078-01
KC-MW-02 1118	18K0078-02
KC-MW-05 1118	18K0078-03
KC-FD-01 1118	18K0078-04

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: 12/14/2018 Title: Laboratory Director

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK80320	Laboratory ID:	BK80320-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/mL)	LCS CONCENTRATION (ug/mL)	LCS % REC. #	QC LIMITS REC.
Antimony	0.250	0.253	101	80 - 120
Arsenic	2.00	1.82	91.2	80 - 120
Beryllium	0.0500	0.049	97.4	80 - 120
Cadmium	0.0500	0.049	97.1	80 - 120
Chromium	0.200	0.202	101	80 - 120
Copper	0.250	0.259	103	80 - 120
Lead	0.500	0.493	98.7	80 - 120
Nickel	0.500	0.524	105	80 - 120
Selenium	2.00	1.68	84.2	80 - 120
Silver	0.0500	0.052	105	80 - 120
Thallium	2.00	2.01	101	80 - 120
Zinc	0.500	0.497	99.5	80 - 120

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

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BK80320 Batch Matrix: Water Preparation: EPA 3015A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1118	18K0078-01	qbi110718aRE_1-040	11/06/18 18:04	
KC-MW-02 1118	18K0078-02	qbi110718aRE_1-041	11/06/18 18:04	
KC-MW-05 1118	18K0078-03	qbi110718aRE_1-042	11/06/18 18:04	
KC-FD-01 1118	18K0078-04	qbi110718aRE_1-045	11/06/18 18:04	
Blank	BK80320-BLK1	qbi110718aRE_1-037	11/06/18 18:04	
LCS	BK80320-BS1	qbi110718aRE_1-038	11/06/18 18:04	

FORM I **BLANKS**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: WinLabICP Project: 41103.00 KINGSTON CVS

Sequence: Y8K0716 Calibration: 11/07/18 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y8K0716-ICB1	Antimony	0.001	0.025	ug/mL		EPA 6010D
	Arsenic	-0.001	0.015	ug/mL		EPA 6010D
	Beryllium	0.00002	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0001	0.003	ug/mL		EPA 6010D
	Chromium	-0.0002	0.005	ug/mL		EPA 6010D
	Copper	0.00009	0.020	ug/mL		EPA 6010D
	Lead	0.0004	0.005	ug/mL		EPA 6010D
	Nickel	0.0004	0.010	ug/mL		EPA 6010D
	Selenium	-0.0009	0.025	ug/mL		EPA 6010D
	Silver	0.0002	0.005	ug/mL		EPA 6010D
	Thallium	-0.004	0.025	ug/mL		EPA 6010D
	Zinc	0.002	0.025	ug/mL		EPA 6010D
Y8K0716-CCB1	Antimony	0.00009	0.025	ug/mL		EPA 6010D
	Arsenic	0.0005	0.015	ug/mL		EPA 6010D
	Beryllium	0.00002	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0002	0.003	ug/mL		EPA 6010D
	Chromium	-0.000005	0.005	ug/mL		EPA 6010D
	Copper	-0.0003	0.020	ug/mL		EPA 6010D
	Lead	0.002	0.005	ug/mL		EPA 6010D
	Nickel	-0.0005	0.010	ug/mL		EPA 6010D
	Selenium	-0.005	0.025	ug/mL		EPA 6010D
	Silver	0.0005	0.005	ug/mL		EPA 6010D
	Thallium	-0.003	0.025	ug/mL		EPA 6010D
	Zinc	0.003	0.025	ug/mL		EPA 6010D
Y8K0716-CCB3	Antimony	-0.001	0.025	ug/mL		EPA 6010D
	Arsenic	0.008	0.015	ug/mL		EPA 6010D
	Beryllium	0.0001	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0002	0.003	ug/mL		EPA 6010D
	Chromium	0.0005	0.005	ug/mL		EPA 6010D
	Copper	-0.0002	0.020	ug/mL		EPA 6010D
	Lead	0.0006	0.005	ug/mL		EPA 6010D
	Nickel	0.002	0.010	ug/mL		EPA 6010D
	Selenium	-0.004	0.025	ug/mL		EPA 6010D

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Instrument ID: WinLabICP
Project: 41103.00 KINGSTON CVS
Sequence: Y8K0716
Calibration: 11/07/18 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y8K0716-CCB3	Silver	0.0007	0.005	ug/mL		EPA 6010D
	Thallium	0.004	0.025	ug/mL		EPA 6010D
	Zinc	0.003	0.025	ug/mL		EPA 6010D
BK80320-BLK1	Antimony	-0.001	0.028	mg/L		EPA 6010D
	Arsenic	0.003	0.017	mg/L		EPA 6010D
	Beryllium	0.00004	0.0006	mg/L		EPA 6010D
	Cadmium	0.0001	0.003	mg/L		EPA 6010D
	Chromium	0.0002	0.006	mg/L		EPA 6010D
	Copper	-0.0007	0.022	mg/L		EPA 6010D
	Lead	-0.0006	0.006	mg/L		EPA 6010D
	Nickel	-0.0001	0.011	mg/L		EPA 6010D
	Selenium	0.003	0.028	mg/L		EPA 6010D
	Silver	0.001	0.006	mg/L		EPA 6010D
	Thallium	-0.000004	0.028	mg/L		EPA 6010D
	Zinc	-0.0002	0.028	mg/L		EPA 6010D
Y8K0716-CCB4	Antimony	0.0001	0.025	ug/mL		EPA 6010D
	Arsenic	-0.0005	0.015	ug/mL		EPA 6010D
	Beryllium	0.0001	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0002	0.003	ug/mL		EPA 6010D
	Chromium	0.0004	0.005	ug/mL		EPA 6010D
	Copper	-0.001	0.020	ug/mL		EPA 6010D
	Lead	-0.0001	0.005	ug/mL		EPA 6010D
	Nickel	0.005	0.010	ug/mL		EPA 6010D
	Selenium	-0.004	0.025	ug/mL		EPA 6010D
	Silver	0.0005	0.005	ug/mL		EPA 6010D
	Thallium	-0.005	0.025	ug/mL		EPA 6010D
	Zinc	0.002	0.025	ug/mL		EPA 6010D
Y8K0716-CCB5	Antimony	0.0003	0.025	ug/mL		EPA 6010D
	Arsenic	0.005	0.015	ug/mL		EPA 6010D
	Beryllium	0.0001	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0002	0.003	ug/mL		EPA 6010D
	Chromium	0.00007	0.005	ug/mL		EPA 6010D
	Copper	-0.0008	0.020	ug/mL		EPA 6010D

FORM I **BLANKS**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: WinLabICP Project: 41103.00 KINGSTON CVS

Sequence: Y8K0716 Calibration: 11/07/18 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y8K0716-CCB5	Lead	-0.0006	0.005	ug/mL		EPA 6010D
	Nickel	0.006	0.010	ug/mL		EPA 6010D
	Selenium	-0.008	0.025	ug/mL		EPA 6010D
	Silver	0.0009	0.005	ug/mL		EPA 6010D
	Thallium	-0.002	0.025	ug/mL		EPA 6010D
	Zinc	0.003	0.025	ug/mL		EPA 6010D

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Sequence: Y8K0716
Instrument: WinLabICP
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y8K0716-ICV1	qbi110718aRE_1-001	11/07/18 10:29
Initial Cal Blank	Y8K0716-ICB1	qbi110718aRE_1-002	11/07/18 10:32
Instrument RL Check	Y8K0716-CRL1	qbi110718aRE_1-003	11/07/18 10:34
Interference Check A	Y8K0716-IFA1	qbi110718aRE_1-005	11/07/18 10:39
Interference Check B	Y8K0716-IFB1	qbi110718aRE_1-006	11/07/18 10:41
Calibration Check	Y8K0716-CCV1	qbi110718aRE_1-007	11/07/18 10:43
Calibration Blank	Y8K0716-CCB1	qbi110718aRE_1-008	11/07/18 10:46
Calibration Check	Y8K0716-CCV3	qbi110718aRE_1-031	11/07/18 11:37
Calibration Blank	Y8K0716-CCB3	qbi110718aRE_1-032	11/07/18 11:39
Blank	BK80320-BLK1	qbi110718aRE_1-037	11/07/18 11:50
LCS	BK80320-BS1	qbi110718aRE_1-038	11/07/18 11:53
KC-MW-01 1118	18K0078-01	qbi110718aRE_1-040	11/07/18 11:58
KC-MW-02 1118	18K0078-02	qbi110718aRE_1-041	11/07/18 12:00
KC-MW-05 1118	18K0078-03	qbi110718aRE_1-042	11/07/18 12:03
Calibration Check	Y8K0716-CCV4	qbi110718aRE_1-043	11/07/18 12:06
Calibration Blank	Y8K0716-CCB4	qbi110718aRE_1-044	11/07/18 12:08
KC-FD-01 1118	18K0078-04	qbi110718aRE_1-045	11/07/18 12:11
Calibration Check	Y8K0716-CCV5	qbi110718aRE_1-055	11/07/18 12:35
Calibration Blank	Y8K0716-CCB5	qbi110718aRE_1-056	11/07/18 12:37

HOLDING TIME SUMMARY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

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 1118	11/01/18 15:45	11/02/18 14:50	11/06/18 18:04	5.10	180.00	11/07/18 11:58	5.84	180.00	
KC-MW-02 1118	11/01/18 12:19	11/02/18 14:50	11/06/18 18:04	5.24	180.00	11/07/18 12:00	5.99	180.00	
KC-MW-05 1118	11/01/18 11:00	11/02/18 14:50	11/06/18 18:04	5.29	180.00	11/07/18 12:03	6.04	180.00	
KC-FD-01 1118	11/01/18 11:00	11/02/18 14:50	11/06/18 18:04	5.29	180.00	11/07/18 12:11	6.05	180.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 18K0078

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** WinLabICP

Analyte	LOD	LOQ	Units
Antimony	0.025	0.025	mg/L
Arsenic	0.015	0.015	mg/L
Beryllium	0.0005	0.0005	mg/L
Cadmium	0.003	0.003	mg/L
Chromium	0.005	0.005	mg/L
Copper	0.020	0.020	mg/L
Lead	0.005	0.005	mg/L
Nickel	0.010	0.010	mg/L
Selenium	0.025	0.025	mg/L
Silver	0.005	0.005	mg/L
Thallium	0.025	0.025	mg/L
Zinc	0.025	0.025	mg/L

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-01 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-01 File ID: qbi110718aRE_1-040

Sampled: 11/01/18 15:45 Prepared: 11/06/18 18:04 Analyzed: 11/07/18 11:58

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK80320 Sequence: Y8K0716 Calibration: 11/07/18 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.006	1		EPA 6010D
7440-47-3	Chromium	0.008	1		EPA 6010D
7440-50-8	Copper	0.022	1	U	EPA 6010D
7439-92-1	Lead	0.006	1	U	EPA 6010D
7440-02-0	Nickel	0.178	1		EPA 6010D
7782-49-2	Selenium	0.051	1		EPA 6010D
7440-22-4	Silver	0.006	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.028	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-02 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-02 File ID: qbi110718aRE_1-041

Sampled: 11/01/18 12:19 Prepared: 11/06/18 18:04 Analyzed: 11/07/18 12:00

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK80320 Sequence: Y8K0716 Calibration: 11/07/18 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.003	1	U	EPA 6010D
7440-47-3	Chromium	0.007	1		EPA 6010D
7440-50-8	Copper	0.030	1		EPA 6010D
7439-92-1	Lead	0.021	1		EPA 6010D
7440-02-0	Nickel	0.019	1		EPA 6010D
7782-49-2	Selenium	0.056	1		EPA 6010D
7440-22-4	Silver	0.006	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.047	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-05 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-03 File ID: qbi110718aRE_1-042

Sampled: 11/01/18 11:00 Prepared: 11/06/18 18:04 Analyzed: 11/07/18 12:03

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK80320 Sequence: Y8K0716 Calibration: 11/07/18 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.003	1	U	EPA 6010D
7440-47-3	Chromium	0.006	1	U	EPA 6010D
7440-50-8	Copper	0.022	1	U	EPA 6010D
7439-92-1	Lead	0.006	1	U	EPA 6010D
7440-02-0	Nickel	0.011	1	U	EPA 6010D
7782-49-2	Selenium	0.035	1		EPA 6010D
7440-22-4	Silver	0.006	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.028	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-FD-01 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-04 File ID: qbi110718aRE_1-045

Sampled: 11/01/18 11:00 Prepared: 11/06/18 18:04 Analyzed: 11/07/18 12:11

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK80320 Sequence: Y8K0716 Calibration: 11/07/18 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.008	1		EPA 6010D
7440-47-3	Chromium	0.006	1	U	EPA 6010D
7440-50-8	Copper	0.026	1		EPA 6010D
7439-92-1	Lead	0.013	1		EPA 6010D
7440-02-0	Nickel	0.182	1		EPA 6010D
7782-49-2	Selenium	0.046	1		EPA 6010D
7440-22-4	Silver	0.006	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.036	1		EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: WinLabICP
Calibration: 11/07/18
Control Limt: +/- 10.00%
Sequence: Y8K0716

Lab Sample ID	Analyte	True	Found	%R		Units	Method
Y8K0716-ICV1	Antimony	0.250	0.271	108		ug/mL	EPA 6010D
	Arsenic	0.250	0.253	101		ug/mL	EPA 6010D
	Beryllium	0.250	0.254	101		ug/mL	EPA 6010D
	Cadmium	0.125	0.125	99.9		ug/mL	EPA 6010D
	Chromium	1.00	1.05	105		ug/mL	EPA 6010D
	Copper	1.25	1.30	104		ug/mL	EPA 6010D
	Lead	0.250	0.255	102		ug/mL	EPA 6010D
	Nickel	2.50	2.57	103		ug/mL	EPA 6010D
	Selenium	0.250	0.277	111	*	ug/mL	EPA 6010D
	Silver	1.25	1.29	103		ug/mL	EPA 6010D
	Thallium	0.250	0.248	99.1		ug/mL	EPA 6010D
	Zinc	2.50	2.59	103		ug/mL	EPA 6010D
Y8K0716-CCV1	Antimony	0.250	0.256	102		ug/mL	EPA 6010D
	Arsenic	0.500	0.479	95.8		ug/mL	EPA 6010D
	Beryllium	0.250	0.246	98.3		ug/mL	EPA 6010D
	Cadmium	0.250	0.245	98.0		ug/mL	EPA 6010D
	Chromium	1.00	1.02	102		ug/mL	EPA 6010D
	Copper	1.25	1.25	100		ug/mL	EPA 6010D
	Lead	0.500	0.492	98.4		ug/mL	EPA 6010D
	Nickel	2.50	2.51	100		ug/mL	EPA 6010D
	Selenium	0.500	0.491	98.3		ug/mL	EPA 6010D
	Silver	1.25	1.27	101		ug/mL	EPA 6010D
	Thallium	0.500	0.504	101		ug/mL	EPA 6010D
	Zinc	2.50	2.54	102		ug/mL	EPA 6010D
Y8K0716-CCV3	Antimony	0.250	0.245	97.9		ug/mL	EPA 6010D
	Arsenic	0.500	0.501	100		ug/mL	EPA 6010D
	Beryllium	0.250	0.248	99.3		ug/mL	EPA 6010D
	Cadmium	0.250	0.248	99.3		ug/mL	EPA 6010D
	Chromium	1.00	1.04	104		ug/mL	EPA 6010D
	Copper	1.25	1.26	101		ug/mL	EPA 6010D
	Lead	0.500	0.500	100		ug/mL	EPA 6010D
	Nickel	2.50	2.55	102		ug/mL	EPA 6010D
	Selenium	0.500	0.499	99.9		ug/mL	EPA 6010D
	Silver	1.25	1.27	102		ug/mL	EPA 6010D
	Thallium	0.500	0.498	99.7		ug/mL	EPA 6010D
	Zinc	2.50	2.58	103		ug/mL	EPA 6010D
Y8K0716-CCV4	Antimony	0.250	0.247	98.7		ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: WinLabICP
Calibration: 11/07/18
Control Limt: +/- 10.00%
Sequence: Y8K0716

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y8K0716-CCV4	Arsenic	0.500	0.495	99.1	ug/mL	EPA 6010D
	Beryllium	0.250	0.250	99.8	ug/mL	EPA 6010D
	Cadmium	0.250	0.250	99.9	ug/mL	EPA 6010D
	Chromium	1.00	1.04	104	ug/mL	EPA 6010D
	Copper	1.25	1.27	101	ug/mL	EPA 6010D
	Lead	0.500	0.502	100	ug/mL	EPA 6010D
	Nickel	2.50	2.56	102	ug/mL	EPA 6010D
	Selenium	0.500	0.503	101	ug/mL	EPA 6010D
	Silver	1.25	1.28	102	ug/mL	EPA 6010D
	Thallium	0.500	0.527	105	ug/mL	EPA 6010D
	Zinc	2.50	2.60	104	ug/mL	EPA 6010D
Y8K0716-CCV5	Antimony	0.250	0.243	97.2	ug/mL	EPA 6010D
	Arsenic	0.500	0.502	100	ug/mL	EPA 6010D
	Beryllium	0.250	0.247	99.0	ug/mL	EPA 6010D
	Cadmium	0.250	0.251	101	ug/mL	EPA 6010D
	Chromium	1.00	1.05	105	ug/mL	EPA 6010D
	Copper	1.25	1.27	102	ug/mL	EPA 6010D
	Lead	0.500	0.505	101	ug/mL	EPA 6010D
	Nickel	2.50	2.57	103	ug/mL	EPA 6010D
	Selenium	0.500	0.502	100	ug/mL	EPA 6010D
	Silver	1.25	1.29	103	ug/mL	EPA 6010D
	Thallium	0.500	0.503	101	ug/mL	EPA 6010D
	Zinc	2.50	2.63	105	ug/mL	EPA 6010D

* Values outside of QC limits

CRDL STANDARD

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: WinLabICP
Calibration: 11/07/18
Sequence: Y8K0716

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
Y8K0716-CRL1	Antimony	0.0250	0.025	98.2	ug/mL	70 - 130
	Arsenic	0.0150	0.017	113	ug/mL	70 - 130
	Beryllium	0.000500	0.0005	105	ug/mL	70 - 130
	Cadmium	0.00300	0.003	105	ug/mL	70 - 130
	Chromium	0.00500	0.005	99.6	ug/mL	70 - 130
	Copper	0.0400	0.041	102	ug/mL	70 - 130
	Lead	0.00500	0.011	215 *	ug/mL	70 - 130
	Nickel	0.0100	0.011	110	ug/mL	70 - 130
	Selenium	0.0250	0.015	59.1 *	ug/mL	70 - 130
	Silver	0.0100	0.011	106	ug/mL	70 - 130
	Thallium	0.0250	0.032	127	ug/mL	70 - 130
	Zinc	0.0250	0.028	112	ug/mL	70 - 130

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: WinLabICP
Calibration: 11/07/18
Sequence: Y8K0716

Lab Sample ID	Analyte	True	Found	%R	Units
Y8K0716-IFA1	Antimony		0.00		ug/mL
	Arsenic		0.00		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.00		ug/mL
	Chromium		0.00		ug/mL
	Copper		0.00		ug/mL
	Lead		0.00		ug/mL
	Nickel		0.00		ug/mL
	Selenium		0.00		ug/mL
	Silver		0.00		ug/mL
	Thallium		0.00		ug/mL
	Zinc		0.00		ug/mL
Y8K0716-IFB1	Antimony	0.500	0.53	106	ug/mL
	Arsenic	0.500	0.47	93.8	ug/mL
	Beryllium	0.500	0.50	101	ug/mL
	Cadmium	1.00	0.96	95.7	ug/mL
	Chromium	0.500	0.50	99.7	ug/mL
	Copper	0.500	0.54	109	ug/mL
	Lead	1.00	0.95	94.9	ug/mL
	Nickel	1.00	1.02	102	ug/mL
	Selenium	0.500	0.47	93.1	ug/mL
	Silver	1.00	1.09	109	ug/mL
	Thallium	0.500	0.49	98.0	ug/mL
	Zinc	1.00	0.98	98.2	ug/mL

* Values outside of QC limits

Metals Linear Dynamic Range

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Instrument: WinLabICP

CAS NO.	Analyte	Concentration mg/L
7440-36-0	Antimony	50
7440-38-2	Arsenic	250
7440-41-7	Beryllium	12.5
7440-43-9	Cadmium	30
7440-47-3	Chromium	50
7440-50-8	Copper	62.5
7439-92-1	Lead	150
7440-02-0	Nickel	125
7782-49-2	Selenium	100
7440-22-4	Silver	62.5
7440-28-0	Thallium	125
7440-66-6	Zinc	30

IEC File Last Saved: 11/7/2018 11:02:15 AM
Printed On: 11/7/2018 11:02:27 AM

Results Data Set Name: qbi030415
Method Name: METHOD FOR IE
Results Library: C:\pe\Mikew\Results\Results.md

ICP Interelement Correction Factors EPA 6010C

		Interfering Analytes			
	Analytes	Al RADIAL	Ca RADIAL	Fe RADIAL	Mg RADIAL
1	**Ag 338.289**	0	0.011281	-0.03	0
2	**Al 308.215**	0	0.0245069	-0.0817898	0.0376104
3	**Al RADIAL**	n/a	0.0296996	-0.105128	0
4	**As 188.979**	0	0	0.1	0
7	**Ca 227.546**	-0.675005	0	-8.62387	-0.0625929
9	**Cd 226.502**	0	0	0.07	0
10	**Co 228.616**	0	0	-0.03	0
11	**Cr 267.716**	0	0	-0.01	0
12	**Cu 324.752**	0	0	-0.02	0
16	**Mg 279.077**	0	0	0.161547	0
17	**Mg RADIAL**	0	0	0.0994223	n/a
18	**Mn 257.610**	0	0	-0.08	0
19	**Na 330.237**	0	-0.983571	-4.63141	0
21	**Ni 232.003**	0	0	0.085	0
22	**Pb 220.353**	-0.129664	-0.0141428	0.105	0
23	**Sb 206.836**	0.000505	0	-0.115	0
24	**Se 196.026**	0	0	0.555	0
25	**Tl 190.801**	0	0	0.01	0
26	**V 292.402**	0	0	0.095	0
27	**Y 371.029**	9.77357	9.1591	24.475	8.93015
28	**Y RADIAL**	10.2987	9.68204	24.8989	9.399
29	**Zn 206.200**	0	0	-0.005	0

BENCHSHEETS

SDG: 18K0078

CLASS: METALS

METHOD: EPA 6010D

PREPARATION BENCH SHEET-AQUEOUS: BK80320

Prepared: **11/06/2018 18:04**

York Analytical Laboratories, Inc.

Printed: 11/16/2018 2:44:20PM

Matrix: Water **Preparation EPA 3015A** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
18K0058-01 I	Metals, Target Anal	45	50							NA			use for water
18K0078-01 D	Metals, Priority Pol	45	50							NA			
18K0078-02 D	Metals, Priority Pol	45	50							NA			
18K0078-03 D	Metals, Priority Pol	45	50							NA			
18K0078-04 D	Metals, Priority Pol	45	50							NA			
18K0106-03 I	Metals, Target Anal	45	50							NA			
18K0108-01 B	Metals, Total Metal	45	50							NA			6020 = Tin & Molybdenum
18K0108-01 B	Metals, Priority Pol	45	50							NA			Added for BatchQC in: BK80320
18K0108-01 B	Metals, Target Anal	45	50							NA			Added for BatchQC in: BK80320
18K0108-01 B	Metals, Target Anal	45	50							NA			Added for BatchQC in: BK80320
18K0122-04 C	Metals, Target Anal	45	50							NA			
18K0122-05 C	Metals, Target Anal	45	50							NA			
18K0127-05 I	Metals, Target Anal	45	50							NA			
BK80320-BLK1	QC	45	50							NA			
BK80320-BS1	QC	45	50	Y18J016	1					NA			
BK80320-DUP1	QC	45	50					18K0108-01		NA			
BK80320-MS1	QC	45	50	Y18J015	500			18K0108-01		NA			

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by SY **Date:** 11/06/2018 18:04

Sample Information Detail Report
Document Name: 110718a

File Description
Sample Information File

Parameters Common to All Samples

Batch ID	qbi110718a
Analyst Name	KML
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Remarks
1	3	SEQ-ICV1	
2	4	SEQ-ICB1	
3	5	SEQ-CRL1	
4	6	SEQ-CRL2	
5	7	SEQ-IFA1	
6	8	SEQ-IFB1	
7	9	SEQ-CCV1	
8	4	SEQ-CCB1	
9	101	BK80277-BLK1	
10	102	BK80277-SRM1	
11	103	18K0117-01	
12	104	18K0122-01	
13	105	18K0122-02	
14	106	18K0122-03	
15	107	18K0127-01	
16	108	18K0127-02	
17	109	18K0127-03	
18	110	18K0127-04	
19	9	SEQ-CCV2	
20	4	SEQ-CCB2	
21	111	18K0139-01	
22	112	18K0139-02	
23	113	18K0139-03	
24	114	18K0139-04	
25	115	18K0139-05	
26	116	18K0139-06	
27	117	18K0139-07	
28	118	18K0139-08	
29	119	18K0139-09	
30	120	18K0139-10	
31	9	SEQ-CCV3	
32	4	SEQ-CCB3	
33	121	18K0161-01	
34	122	BK80277-DUP1	
35	123	BK80277-MS1	
36	124	SEQ-SRD1	18K0161-01
37	125	BK80320-BLK1	
38	126	BK80320-BS1	
39	127	18K0058-01	
40	128	18K0078-01	
41	129	18K0078-02	
42	130	18K0078-03	
43	9	SEQ-CCV4	
44	4	SEQ-CCB4	
45	131	18K0078-04	
46	132	18K0106-03	
47	133	18K0108-01	
48	134	BK80320-DUP1	
49	135	BK80320-MS1	
50	136	18K0122-04	
51	137	18K0122-05	

52	138	18K0127-05	
53	139	SEQ-SRD2	18K0108-01
54	140	BK80381-BLK1	
55	9	SEQ-CCV5	
56	4	SEQ-CCB5	
57	141	BK80381-BS1	
58	142	18K0058-01	
59	143	BK80381-DUP1	
60	144	BK80381-MS1	
61	145	18K0106-03	
62	146	18K0127-05	
63	147	18K0193-02	
64	148	SEQ-SRD3	
65	149	BK80370-BLK1	
66	150	BK80370-SRM1	
67	9	SEQ-CCV6	
68	4	SEQ-CCB6	
69	151	18K0167-01	
70	152	18K0167-02	
71	153	18K0167-03	
72	154	18K0167-04	
73	155	18K0167-05	
74	156	18K0167-06	
75	157	18K0167-07	
76	158	18K0167-08	
77	159	18K0167-09	
78	160	18K0167-10	
79	9	SEQ-CCV7	
80	4	SEQ-CCB7	
81	201	18K0167-11	
82	202	18K0167-12	
83	203	18K0167-13	
84	204	18K0167-14	
85	205	18K0167-15	
86	206	18K0167-16	
87	207	18K0167-19	
88	208	18K0167-20	
89	209	18K0167-27	
90	210	18K0167-28	
91	10	SEQ-CCV8	
92	1	SEQ-CCB8	
93	211	BK80370-DUP1	
94	212	BK80370-MS1	
95	213	SEQ-SRD4	
96	214	BK80372-BLK1	
97	215	BK80372-SRM1	
98	216	18J1162-14	
99	217	18J1162-16	
100	218	18J1466-02	
101	219	18K0019-01	
102	220	18K0147-01	
103	10	SEQ-CCV9	
104	1	SEQ-CCB9	
105	221	18K0168-01	
106	222	18K0174-01	
107	223	18K0183-01	
108	224	18K0185-01	
109	225	18K0202-01	
110	226	BK80372-DUP1	
111	227	BK80372-MS1	
112	228	SEQ-SRD5	
113	229	BK80395-BLK1	
114	230	BK80395-BS1	
115	10	SEQ-CCVA	

116	1	SEQ-CCBA	
117	231	18K0224-01	
118	232	BK80395-DUP1	
119	233	BK80395-MS1	
120	234	SEQ-SRD6	18K0224-01
121	235	BK80396-BLK1	
122	236	BK80396-LBK1	
123	237	BK80396-BS1	
124	238	18K0001-01	
125	239	18K0001-02	
126	240	18K0001-03	
127	10	SEQ-CCVB	
128	1	SEQ-CCBB	
129	241	18K0001-04	
130	242	18K0010-10	
131	243	18K0010-11	
132	244	18K0013-08	
133	245	18K0019-01	
134	246	18K0021-01	
135	247	18K0086-01	
136	248	18K0100-01	
137	249	18K0109-01	
138	250	18K0109-05	
139	10	SEQ-CCVC	
140	1	SEQ-CCBC	
141	251	18K0109-09	
142	252	18K0109-13	
143	253	18K0109-17	
144	254	18K0109-21	
145	255	18K0130-01	
146	256	18K0143-06	
147	257	BK80396-DUP1	
148	258	BK80396-MS1	
149	259	18K0147-01	
150	260	SEQ-SRD7	18K0147-01
151	10	SEQ-CCVD	
152	1	SEQ-CCBD	
153	301	BK80373-BLK1	
154	302	BK80373-SRM1	
155	303	18K0158-01	
156	304	18K0172-06	
157	305	18K0172-07	
158	306	18K0172-08	
159	307	18K0172-09	
160	308	18K0172-10	
161	309	18K0172-11	
162	310	18K0172-12	
163	9	SEQ-CCVE	
164	4	SEQ-CCBE	
165	311	18K0172-13	
166	312	18K0190-01	
167	313	18K0190-02	
168	314	18K0190-03	
169	315	18K0190-04	
170	316	18K0190-05	
171	317	18K0190-06	
172	318	BK80373-DUP1	
173	319	BK80373-MS1	
174	320	SEQ-SRD8	
175	9	SEQ-CCVF	
176	4	SEQ-CCBF	
177	5	SEQ-CRL3	
178	6	SEQ-CRL4	
179	7	SEQ-IFA2	

180	8	SEQ-IFB2
181	405	SEQ-HCV1
182	1	BLANK1
183	1	BLANK2
184	10	SEQ-CCVG
185	1	SEQ-CCBG

Sequence No.: 3
Sample ID: SEQ-ICV1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/7/2018 10:29:29 AM
Data Type: Reprocessed on 11/8/2018 10:53:03 AM
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	14669703.0	4.793	mg/L	0.0068				0.14%
Y RADIAL	236418.2	4.915	mg/L	0.0728				1.48%
As 188.979†	386.3	0.2530	mg/L	0.00050	0.2530	mg/L	0.00050	0.20%
Tl 190.801†	427.6	0.2477	mg/L	0.00102	0.2477	mg/L	0.00102	0.41%
Se 196.026†	519.0	0.2765	mg/L	0.00707	0.2765	mg/L	0.00707	2.56%
Zn 206.200†	96055.1	2.585	mg/L	0.0213	2.585	mg/L	0.0213	0.82%
Sb 206.836†	621.0	0.2709	mg/L	0.00095	0.2709	mg/L	0.00095	0.35%
Pb 220.353†	2977.5	0.2546	mg/L	0.00135	0.2546	mg/L	0.00135	0.53%
Cd 226.502†	17905.3	0.1248	mg/L	0.00079	0.1248	mg/L	0.00079	0.63%
Co 228.616†	98068.0	2.585	mg/L	0.0148	2.585	mg/L	0.0148	0.57%
Ni 232.003†	45768.8	2.566	mg/L	0.0123	2.566	mg/L	0.0123	0.48%
Ba 233.527†	881156.1	10.16	mg/L	0.151	10.16	mg/L	0.151	1.48%
Mn 257.610†	1601710.6	2.519	mg/L	0.0352	2.519	mg/L	0.0352	1.40%
Cr 267.716†	146791.8	1.052	mg/L	0.0070	1.052	mg/L	0.0070	0.67%
Fe 273.955†	113867.1	5.192	mg/L	0.0321	5.192	mg/L	0.0321	0.62%
Mg 279.077†	505736.6	24.83	mg/L	0.409	24.83	mg/L	0.409	1.65%
V 292.402†	530426.7	2.491	mg/L	0.0370	2.491	mg/L	0.0370	1.49%
Al 308.215†	189662.9	10.20	mg/L	0.066	10.20	mg/L	0.066	0.64%
Be 313.107†	939358.8	0.25358	mg/L	0.003934	0.25358	mg/L	0.003934	1.55%
Cu 324.752†	301044.5	1.298	mg/L	0.0079	1.298	mg/L	0.0079	0.61%
Ag 338.289†	127870.7	1.287	mg/L	0.0077	1.287	mg/L	0.0077	0.60%
Na 330.237†	15199.1	23.88	mg/L	0.275	23.88	mg/L	0.275	1.15%
Ca 227.546†	6045.0	25.04	mg/L	0.074	25.04	mg/L	0.074	0.30%
Al RADIAL†	11367.9	10.31	mg/L	0.162	10.31	mg/L	0.162	1.57%
Fe RADIAL†	1939.3	5.007	mg/L	0.0880	5.007	mg/L	0.0880	1.76%
Ca RADIAL†	93779.6	24.91	mg/L	0.063	24.91	mg/L	0.063	0.25%
K RADIAL†	5773.8	5.018	mg/L	0.0398	5.018	mg/L	0.0398	0.79%
Mg RADIAL†	11014.7	24.67	mg/L	0.351	24.67	mg/L	0.351	1.42%
Na RADIAL†	66117.4	25.08	mg/L	0.245	25.08	mg/L	0.245	0.98%

Sequence No.: 4
Sample ID: SEQ-ICB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/7/2018 10:32:06 AM
Data Type: Reprocessed on 11/8/2018 10:53:04 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-ICB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15340727.1	5.012	mg/L	0.0197				0.39%
Y RADIAL	239156.3	4.972	mg/L	0.0117				0.24%
As 188.979†	-2.0	-0.0013	mg/L	0.00468	-0.0013	mg/L	0.00468	354.39%
Tl 190.801†	-6.4	-0.0037	mg/L	0.00589	-0.0037	mg/L	0.00589	159.16%
Se 196.026†	-1.7	-0.0009	mg/L	0.00466	-0.0009	mg/L	0.00466	495.34%
Zn 206.200†	77.4	0.0021	mg/L	0.00039	0.0021	mg/L	0.00039	18.48%
Sb 206.836†	3.1	0.0014	mg/L	0.00028	0.0014	mg/L	0.00028	20.67%
Pb 220.353†	4.5	0.0004	mg/L	0.00071	0.0004	mg/L	0.00071	185.28%
Cd 226.502†	17.9	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	114.19%
Co 228.616†	-12.1	-0.0003	mg/L	0.00030	-0.0003	mg/L	0.00030	93.21%
Ni 232.003†	6.5	0.0004	mg/L	0.00013	0.0004	mg/L	0.00013	34.57%
Ba 233.527†	17.3	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	65.49%
Mn 257.610†	35.2	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	45.26%
Cr 267.716†	-32.0	-0.0002	mg/L	0.00022	-0.0002	mg/L	0.00022	97.31%
Fe 273.955†	4.3	0.0002	mg/L	0.00070	0.0002	mg/L	0.00070	353.43%
Mg 279.077†	37.5	0.0018	mg/L	0.00218	0.0018	mg/L	0.00218	118.57%
V 292.402†	-18.7	-0.0001	mg/L	0.00024	-0.0001	mg/L	0.00024	268.07%
Al 308.215†	-33.9	-0.0018	mg/L	0.00155	-0.0018	mg/L	0.00155	85.13%
Be 313.107†	80.8	0.00002	mg/L	0.000028	0.00002	mg/L	0.000028	126.58%
Cu 324.752†	21.3	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	151.36%
Ag 338.289†	22.9	0.0002	mg/L	0.00061	0.0002	mg/L	0.00061	264.56%
Na 330.237†	-36.6	-0.0574	mg/L	0.04259	-0.0574	mg/L	0.04259	74.22%
Ca 227.546†	28.3	0.1169	mg/L	0.05567	0.1169	mg/L	0.05567	47.63%
Al RADIAL†	5.8	0.0053	mg/L	0.02018	0.0053	mg/L	0.02018	384.12%
Fe RADIAL†	-0.4	-0.0010	mg/L	0.01036	-0.0010	mg/L	0.01036	>999.9%
Ca RADIAL†	223.5	0.0594	mg/L	0.00249	0.0594	mg/L	0.00249	4.20%
K RADIAL†	-54.1	-0.0471	mg/L	0.08211	-0.0471	mg/L	0.08211	174.51%
Mg RADIAL†	1.2	0.0028	mg/L	0.01520	0.0028	mg/L	0.01520	545.37%
Na RADIAL†	7.1	0.0027	mg/L	0.02859	0.0027	mg/L	0.02859	>999.9%

Sequence No.: 5
Sample ID: SEQ-CRL1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/7/2018 10:34:36 AM
Data Type: Reprocessed on 11/8/2018 10:53:04 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15332817.2	5.010	mg/L	0.0117				0.23%
Y RADIAL	242603.6	5.044	mg/L	0.0602				1.19%
As 188.979†	25.9	0.0170	mg/L	0.00416	0.0170	mg/L	0.00416	24.49%
Tl 190.801†	54.8	0.0318	mg/L	0.00464	0.0318	mg/L	0.00464	14.62%
Se 196.026†	28.0	0.0148	mg/L	0.00436	0.0148	mg/L	0.00436	29.50%
Zn 206.200†	1043.0	0.0281	mg/L	0.00028	0.0281	mg/L	0.00028	0.99%
Sb 206.836†	56.3	0.0246	mg/L	0.00394	0.0246	mg/L	0.00394	16.04%
Pb 220.353†	126.3	0.0108	mg/L	0.00031	0.0108	mg/L	0.00031	2.90%
Cd 226.502†	456.4	0.0032	mg/L	0.00013	0.0032	mg/L	0.00013	4.26%
Co 228.616†	148.5	0.0039	mg/L	0.00041	0.0039	mg/L	0.00041	10.41%
Ni 232.003†	197.2	0.0110	mg/L	0.00121	0.0110	mg/L	0.00121	10.99%
Ba 233.527†	2367.1	0.0273	mg/L	0.00019	0.0273	mg/L	0.00019	0.70%
Mn 257.610†	6612.4	0.0104	mg/L	0.00017	0.0104	mg/L	0.00017	1.67%
Cr 267.716†	694.1	0.0050	mg/L	0.00022	0.0050	mg/L	0.00022	4.52%
Fe 273.955†	11625.5	0.5301	mg/L	0.00429	0.5301	mg/L	0.00429	0.81%
Mg 279.077†	10787.3	0.5296	mg/L	0.00545	0.5296	mg/L	0.00545	1.03%
V 292.402†	2080.0	0.0097	mg/L	0.00052	0.0097	mg/L	0.00052	5.32%
Al 308.215†	8759.8	0.4709	mg/L	0.00060	0.4709	mg/L	0.00060	0.13%
Be 313.107†	1941.4	0.00052	mg/L	0.000020	0.00052	mg/L	0.000020	3.76%
Cu 324.752†	9500.8	0.0410	mg/L	0.00032	0.0410	mg/L	0.00032	0.78%
Ag 338.289†	1050.6	0.0106	mg/L	0.00099	0.0106	mg/L	0.00099	9.38%
Na 330.237†	425.8	0.6705	mg/L	0.02075	0.6705	mg/L	0.02075	3.10%
Ca 227.546†	121.4	0.5066	mg/L	0.03573	0.5066	mg/L	0.03573	7.05%
Al RADIAL†	577.0	0.5234	mg/L	0.02343	0.5234	mg/L	0.02343	4.48%
Fe RADIAL†	198.5	0.5125	mg/L	0.01715	0.5125	mg/L	0.01715	3.35%
Ca RADIAL†	1963.2	0.5215	mg/L	0.00985	0.5215	mg/L	0.00985	1.89%
K RADIAL†	562.1	0.4885	mg/L	0.07677	0.4885	mg/L	0.07677	15.72%
Mg RADIAL†	237.8	0.5326	mg/L	0.00448	0.5326	mg/L	0.00448	0.84%
Na RADIAL†	2561.4	0.9715	mg/L	0.04376	0.9715	mg/L	0.04376	4.50%

Sequence No.: 7
Sample ID: SEQ-IFA1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 11/7/2018 10:39:36 AM
Data Type: Reprocessed on 11/8/2018 10:53:05 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-IFA1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	13040743.7	4.261	mg/L	0.0118				0.28%
Y RADIAL	222626.8	4.629	mg/L	0.0449				0.97%
As 188.979†	30.0	0.0004	mg/L	0.01647	0.0004	mg/L	0.01647	>999.9%
Tl 190.801†	2.6	-0.0004	mg/L	0.00644	-0.0004	mg/L	0.00644	>999.9%
Se 196.026†	199.5	0.0005	mg/L	0.02275	0.0005	mg/L	0.02275	>999.9%
Zn 206.200†	-33.9	0.0001	mg/L	0.00045	0.0001	mg/L	0.00045	878.67%
Sb 206.836†	-51.9	-0.0007	mg/L	0.00304	-0.0007	mg/L	0.00304	433.03%
Pb 220.353†	-628.8	0.0000	mg/L	0.00145	0.0000	mg/L	0.00145	>999.9%
Cd 226.502†	1902.8	-0.0002	mg/L	0.00031	-0.0002	mg/L	0.00031	171.99%
Co 228.616†	-233.2	-0.0004	mg/L	0.00063	-0.0004	mg/L	0.00063	170.85%
Ni 232.003†	278.0	-0.0008	mg/L	0.00232	-0.0008	mg/L	0.00232	296.01%
Ba 233.527†	158.5	0.0018	mg/L	0.00047	0.0018	mg/L	0.00047	25.92%
Mn 257.610†	-10052.2	-0.0004	mg/L	0.00029	-0.0004	mg/L	0.00029	72.51%
Cr 267.716†	-183.2	0.0006	mg/L	0.00034	0.0006	mg/L	0.00034	54.70%
Fe 273.955†	4234293.5	193.1	mg/L	1.85	193.1	mg/L	1.85	0.96%
Mg 279.077†	10368400.4	509.1	mg/L	0.47	509.1	mg/L	0.47	0.09%
V 292.402†	3844.8	-0.0002	mg/L	0.00080	-0.0002	mg/L	0.00080	331.68%
Al 308.215†	9993471.1	537.2	mg/L	0.57	537.2	mg/L	0.57	0.11%
Be 313.107†	-1146.7	-0.00031	mg/L	0.000024	-0.00031	mg/L	0.000024	7.61%
Cu 324.752†	-803.8	0.0004	mg/L	0.00016	0.0004	mg/L	0.00016	40.95%
Ag 338.289†	-9.9	0.0002	mg/L	0.00063	0.0002	mg/L	0.00063	324.05%
Na 330.237†	-1140.2	-0.4174	mg/L	0.09914	-0.4174	mg/L	0.09914	23.75%
Ca 227.546†	123887.5	514.1	mg/L	5.12	514.1	mg/L	5.12	1.00%
Al RADIAL†	568800.5	515.9	mg/L	3.52	515.9	mg/L	3.52	0.68%
Fe RADIAL†	74607.1	192.6	mg/L	0.17	192.6	mg/L	0.17	0.09%
Ca RADIAL†	1830465.1	486.3	mg/L	4.08	486.3	mg/L	4.08	0.84%
K RADIAL†	78.9	0.0686	mg/L	0.04191	0.0686	mg/L	0.04191	61.13%
Mg RADIAL†	214572.4	480.6	mg/L	1.11	480.6	mg/L	1.11	0.23%
Na RADIAL†	-21.5	-0.0081	mg/L	0.02976	-0.0081	mg/L	0.02976	365.33%

Sequence No.: 8
Sample ID: SEQ-IFB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/7/2018 10:41:44 AM
Data Type: Reprocessed on 11/8/2018 10:53:06 AM
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	13181193.3	4.307	mg/L	0.0279				0.65%
Y RADIAL	224460.2	4.667	mg/L	0.0441				0.94%
As 188.979†	743.8	0.4690	mg/L	0.00768	0.4690	mg/L	0.00768	1.64%
Tl 190.801†	849.3	0.4901	mg/L	0.00765	0.4901	mg/L	0.00765	1.56%
Se 196.026†	1062.2	0.4653	mg/L	0.01975	0.4653	mg/L	0.01975	4.24%
Zn 206.200†	36454.6	0.9821	mg/L	0.00447	0.9821	mg/L	0.00447	0.45%
Sb 206.836†	1170.9	0.5315	mg/L	0.00322	0.5315	mg/L	0.00322	0.61%
Pb 220.353†	10520.0	0.9485	mg/L	0.00539	0.9485	mg/L	0.00539	0.57%
Cd 226.502†	138743.8	0.9567	mg/L	0.01022	0.9567	mg/L	0.01022	1.07%
Co 228.616†	18258.6	0.4869	mg/L	0.00197	0.4869	mg/L	0.00197	0.40%
Ni 232.003†	18492.2	1.021	mg/L	0.0096	1.021	mg/L	0.0096	0.94%
Ba 233.527†	44322.9	0.5110	mg/L	0.00481	0.5110	mg/L	0.00481	0.94%
Mn 257.610†	303461.9	0.4926	mg/L	0.00456	0.4926	mg/L	0.00456	0.93%
Cr 267.716†	69298.5	0.4984	mg/L	0.00529	0.4984	mg/L	0.00529	1.06%
Fe 273.955†	4256209.5	194.1	mg/L	1.82	194.1	mg/L	1.82	0.94%
Mg 279.077†	10319746.8	506.7	mg/L	2.46	506.7	mg/L	2.46	0.48%
V 292.402†	109833.0	0.4977	mg/L	0.00515	0.4977	mg/L	0.00515	1.03%
Al 308.215†	9936723.1	534.2	mg/L	2.31	534.2	mg/L	2.31	0.43%
Be 313.107†	1867490.9	0.50414	mg/L	0.006691	0.50414	mg/L	0.006691	1.33%
Cu 324.752†	125043.1	0.5429	mg/L	0.00435	0.5429	mg/L	0.00435	0.80%
Ag 338.289†	107986.3	1.087	mg/L	0.0111	1.087	mg/L	0.0111	1.02%
Na 330.237†	-652.7	0.3416	mg/L	0.01831	0.3416	mg/L	0.01831	5.36%
Ca 227.546†	124512.8	516.6	mg/L	5.44	516.6	mg/L	5.44	1.05%
Al RADIAL†	565004.7	512.5	mg/L	8.27	512.5	mg/L	8.27	1.61%
Fe RADIAL†	74223.1	191.6	mg/L	1.07	191.6	mg/L	1.07	0.56%
Ca RADIAL†	1827513.9	485.5	mg/L	8.97	485.5	mg/L	8.97	1.85%
K RADIAL†	84.6	0.0735	mg/L	0.02786	0.0735	mg/L	0.02786	37.90%
Mg RADIAL†	213033.1	477.2	mg/L	2.39	477.2	mg/L	2.39	0.50%
Na RADIAL†	-78.9	-0.0299	mg/L	0.01872	-0.0299	mg/L	0.01872	62.60%

Sequence No.: 9
Sample ID: SEQ-CCV1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 11/7/2018 10:43:53 AM
Data Type: Reprocessed on 11/8/2018 10:53:06 AM

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	15058757.2	4.920	mg/L	0.0237				0.48%
Y RADIAL	242355.6	5.039	mg/L	0.0368				0.73%
As 188.979†	730.9	0.4792	mg/L	0.00413	0.4792	mg/L	0.00413	0.86%
Tl 190.801†	870.3	0.5042	mg/L	0.00409	0.5042	mg/L	0.00409	0.81%
Se 196.026†	918.1	0.4914	mg/L	0.01436	0.4914	mg/L	0.01436	2.92%
Zn 206.200†	94355.9	2.540	mg/L	0.0056	2.540	mg/L	0.0056	0.22%
Sb 206.836†	587.3	0.2562	mg/L	0.00300	0.2562	mg/L	0.00300	1.17%
Pb 220.353†	5767.0	0.4920	mg/L	0.00286	0.4920	mg/L	0.00286	0.58%
Cd 226.502†	35099.2	0.2451	mg/L	0.00106	0.2451	mg/L	0.00106	0.43%
Co 228.616†	95952.8	2.529	mg/L	0.0097	2.529	mg/L	0.0097	0.38%
Ni 232.003†	44753.6	2.509	mg/L	0.0102	2.509	mg/L	0.0102	0.41%
Ba 233.527†	876019.4	10.10	mg/L	0.097	10.10	mg/L	0.097	0.96%
Mn 257.610†	1594380.0	2.508	mg/L	0.0261	2.508	mg/L	0.0261	1.04%
Cr 267.716†	142422.5	1.020	mg/L	0.0023	1.020	mg/L	0.0023	0.22%
Fe 273.955†	111427.2	5.081	mg/L	0.0138	5.081	mg/L	0.0138	0.27%
Mg 279.077†	507226.0	24.90	mg/L	0.283	24.90	mg/L	0.283	1.14%
V 292.402†	524705.7	2.464	mg/L	0.0317	2.464	mg/L	0.0317	1.29%
Al 308.215†	185543.3	9.974	mg/L	0.0034	9.974	mg/L	0.0034	0.03%
Be 313.107†	910111.1	0.24569	mg/L	0.003495	0.24569	mg/L	0.003495	1.42%
Cu 324.752†	290791.6	1.254	mg/L	0.0010	1.254	mg/L	0.0010	0.08%
Ag 338.289†	125777.2	1.266	mg/L	0.0015	1.266	mg/L	0.0015	0.12%
Na 330.237†	14779.4	23.22	mg/L	0.050	23.22	mg/L	0.050	0.21%
Ca 227.546†	5919.2	24.51	mg/L	0.225	24.51	mg/L	0.225	0.92%
Al RADIAL†	11238.2	10.19	mg/L	0.070	10.19	mg/L	0.070	0.69%
Fe RADIAL†	1888.6	4.876	mg/L	0.0252	4.876	mg/L	0.0252	0.52%
Ca RADIAL†	93204.5	24.76	mg/L	0.067	24.76	mg/L	0.067	0.27%
K RADIAL†	5653.4	4.913	mg/L	0.0233	4.913	mg/L	0.0233	0.47%
Mg RADIAL†	10898.6	24.41	mg/L	0.178	24.41	mg/L	0.178	0.73%
Na RADIAL†	65781.7	24.95	mg/L	0.076	24.95	mg/L	0.076	0.30%

Sequence No.: 10
Sample ID: SEQ-CCB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/7/2018 10:46:30 AM
Data Type: Reprocessed on 11/8/2018 10:53:07 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15575119.8	5.089	mg/L	0.0204				0.40%
Y RADIAL	247217.8	5.140	mg/L	0.0644				1.25%
As 188.979†	0.8	0.0005	mg/L	0.00425	0.0005	mg/L	0.00425	795.85%
Tl 190.801†	-5.4	-0.0031	mg/L	0.00433	-0.0031	mg/L	0.00433	137.50%
Se 196.026†	-10.1	-0.0054	mg/L	0.00378	-0.0054	mg/L	0.00378	69.91%
Zn 206.200†	95.0	0.0026	mg/L	0.00031	0.0026	mg/L	0.00031	12.22%
Sb 206.836†	0.2	0.0001	mg/L	0.00386	0.0001	mg/L	0.00386	>999.9%
Pb 220.353†	17.9	0.0015	mg/L	0.00018	0.0015	mg/L	0.00018	11.61%
Cd 226.502†	30.0	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	52.00%
Co 228.616†	-8.2	-0.0002	mg/L	0.00027	-0.0002	mg/L	0.00027	123.51%
Ni 232.003†	-9.6	-0.0005	mg/L	0.00086	-0.0005	mg/L	0.00086	159.37%
Ba 233.527†	2.0	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	118.91%
Mn 257.610†	5.6	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	288.36%
Cr 267.716†	-0.7	0.0000	mg/L	0.00023	0.0000	mg/L	0.00023	>999.9%
Fe 273.955†	17.5	0.0008	mg/L	0.00032	0.0008	mg/L	0.00032	40.39%
Mg 279.077†	3.2	0.0002	mg/L	0.00203	0.0002	mg/L	0.00203	>999.9%
V 292.402†	-6.8	0.0000	mg/L	0.00038	0.0000	mg/L	0.00038	>999.9%
Al 308.215†	32.5	0.0017	mg/L	0.00503	0.0017	mg/L	0.00503	288.60%
Be 313.107†	72.7	0.00002	mg/L	0.000014	0.00002	mg/L	0.000014	69.15%
Cu 324.752†	-64.0	-0.0003	mg/L	0.00068	-0.0003	mg/L	0.00068	246.43%
Ag 338.289†	48.2	0.0005	mg/L	0.00090	0.0005	mg/L	0.00090	185.66%
Na 330.237†	-12.3	-0.0193	mg/L	0.14611	-0.0193	mg/L	0.14611	757.95%
Ca 227.546†	24.3	0.1002	mg/L	0.07800	0.1002	mg/L	0.07800	77.82%
Al RADIAL†	25.4	0.0230	mg/L	0.04072	0.0230	mg/L	0.04072	177.06%
Fe RADIAL†	-4.0	-0.0103	mg/L	0.01942	-0.0103	mg/L	0.01942	188.07%
Ca RADIAL†	198.7	0.0528	mg/L	0.00467	0.0528	mg/L	0.00467	8.85%
K RADIAL†	-19.8	-0.0172	mg/L	0.04519	-0.0172	mg/L	0.04519	262.49%
Mg RADIAL†	4.4	0.0099	mg/L	0.00684	0.0099	mg/L	0.00684	69.23%
Na RADIAL†	16.6	0.0063	mg/L	0.02226	0.0063	mg/L	0.02226	354.24%

Sequence No.: 33
Sample ID: SEQ-CCV3
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 11/7/2018 11:37:08 AM
Data Type: Reprocessed on 11/8/2018 10:53:19 AM
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	15469830.6	5.055	mg/L	0.0088				0.17%
Y RADIAL	246630.5	5.128	mg/L	0.0283				0.55%
As 188.979†	763.6	0.5007	mg/L	0.00484	0.5007	mg/L	0.00484	0.97%
Tl 190.801†	860.1	0.4983	mg/L	0.00778	0.4983	mg/L	0.00778	1.56%
Se 196.026†	933.0	0.4993	mg/L	0.00776	0.4993	mg/L	0.00776	1.55%
Zn 206.200†	96042.1	2.585	mg/L	0.0250	2.585	mg/L	0.0250	0.97%
Sb 206.836†	561.2	0.2449	mg/L	0.00591	0.2449	mg/L	0.00591	2.41%
Pb 220.353†	5865.1	0.5004	mg/L	0.00320	0.5004	mg/L	0.00320	0.64%
Cd 226.502†	35540.5	0.2481	mg/L	0.00248	0.2481	mg/L	0.00248	1.00%
Co 228.616†	97671.6	2.574	mg/L	0.0224	2.574	mg/L	0.0224	0.87%
Ni 232.003†	45417.6	2.546	mg/L	0.0240	2.546	mg/L	0.0240	0.94%
Ba 233.527†	873646.4	10.07	mg/L	0.048	10.07	mg/L	0.048	0.48%
Mn 257.610†	1597321.5	2.512	mg/L	0.0174	2.512	mg/L	0.0174	0.69%
Cr 267.716†	144544.8	1.036	mg/L	0.0088	1.036	mg/L	0.0088	0.85%
Fe 273.955†	113053.6	5.155	mg/L	0.0419	5.155	mg/L	0.0419	0.81%
Mg 279.077†	509757.6	25.03	mg/L	0.169	25.03	mg/L	0.169	0.67%
V 292.402†	526351.4	2.472	mg/L	0.0242	2.472	mg/L	0.0242	0.98%
Al 308.215†	186640.1	10.03	mg/L	0.068	10.03	mg/L	0.068	0.67%
Be 313.107†	919998.3	0.24836	mg/L	0.003121	0.24836	mg/L	0.003121	1.26%
Cu 324.752†	292303.5	1.260	mg/L	0.0099	1.260	mg/L	0.0099	0.78%
Ag 338.289†	126662.4	1.275	mg/L	0.0098	1.275	mg/L	0.0098	0.77%
Na 330.237†	14897.6	23.41	mg/L	0.201	23.41	mg/L	0.201	0.86%
Ca 227.546†	6003.6	24.87	mg/L	0.099	24.87	mg/L	0.099	0.40%
Al RADIAL†	11668.6	10.58	mg/L	0.116	10.58	mg/L	0.116	1.10%
Fe RADIAL†	1939.5	5.008	mg/L	0.0303	5.008	mg/L	0.0303	0.61%
Ca RADIAL†	95303.5	25.32	mg/L	0.069	25.32	mg/L	0.069	0.27%
K RADIAL†	5724.5	4.975	mg/L	0.1108	4.975	mg/L	0.1108	2.23%
Mg RADIAL†	11186.6	25.06	mg/L	0.171	25.06	mg/L	0.171	0.68%
Na RADIAL†	74140.7	28.12	mg/L	0.284	28.12	mg/L	0.284	1.01%

Sequence No.: 34
Sample ID: SEQ-CCB3
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/7/2018 11:39:45 AM
Data Type: Reprocessed on 11/8/2018 10:53:19 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB3

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15857991.0	5.181	mg/L	0.0678				1.31%
Y RADIAL	249683.8	5.191	mg/L	0.0529				1.02%
As 188.979†	11.5	0.0075	mg/L	0.00770	0.0075	mg/L	0.00770	102.35%
Tl 190.801†	7.8	0.0045	mg/L	0.00405	0.0045	mg/L	0.00405	90.23%
Se 196.026†	-8.0	-0.0043	mg/L	0.00525	-0.0043	mg/L	0.00525	122.57%
Zn 206.200†	104.1	0.0028	mg/L	0.00020	0.0028	mg/L	0.00020	7.09%
Sb 206.836†	-2.9	-0.0013	mg/L	0.00374	-0.0013	mg/L	0.00374	296.60%
Pb 220.353†	7.1	0.0006	mg/L	0.00140	0.0006	mg/L	0.00140	231.26%
Cd 226.502†	25.1	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	22.23%
Co 228.616†	4.4	0.0001	mg/L	0.00029	0.0001	mg/L	0.00029	243.63%
Ni 232.003†	38.6	0.0022	mg/L	0.00231	0.0022	mg/L	0.00231	106.80%
Ba 233.527†	51.6	0.0006	mg/L	0.00014	0.0006	mg/L	0.00014	23.56%
Mn 257.610†	95.5	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	5.05%
Cr 267.716†	63.4	0.0005	mg/L	0.00031	0.0005	mg/L	0.00031	68.08%
Fe 273.955†	32.7	0.0015	mg/L	0.00087	0.0015	mg/L	0.00087	58.03%
Mg 279.077†	25.3	0.0012	mg/L	0.00156	0.0012	mg/L	0.00156	125.62%
V 292.402†	79.2	0.0004	mg/L	0.00094	0.0004	mg/L	0.00094	251.95%
Al 308.215†	-53.3	-0.0029	mg/L	0.00371	-0.0029	mg/L	0.00371	129.32%
Be 313.107†	411.3	0.00011	mg/L	0.000063	0.00011	mg/L	0.000063	56.31%
Cu 324.752†	-55.5	-0.0002	mg/L	0.00050	-0.0002	mg/L	0.00050	208.34%
Ag 338.289†	66.5	0.0007	mg/L	0.00040	0.0007	mg/L	0.00040	60.36%
Na 330.237†	-17.1	-0.0267	mg/L	0.10466	-0.0267	mg/L	0.10466	391.84%
Ca 227.546†	22.5	0.0932	mg/L	0.04302	0.0932	mg/L	0.04302	46.18%
Al RADIAL†	7.6	0.0069	mg/L	0.01698	0.0069	mg/L	0.01698	247.20%
Fe RADIAL†	0.2	0.0006	mg/L	0.01166	0.0006	mg/L	0.01166	>999.9%
Ca RADIAL†	280.7	0.0746	mg/L	0.00313	0.0746	mg/L	0.00313	4.20%
K RADIAL†	-24.1	-0.0210	mg/L	0.06376	-0.0210	mg/L	0.06376	303.94%
Mg RADIAL†	3.1	0.0070	mg/L	0.00403	0.0070	mg/L	0.00403	57.98%
Na RADIAL†	-128.0	-0.0486	mg/L	0.01535	-0.0486	mg/L	0.01535	31.61%

Sequence No.: 39
Sample ID: BK80320-BLK1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 125
Date Collected: 11/7/2018 11:50:52 AM
Data Type: Reprocessed on 11/8/2018 10:53:22 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BK80320-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15834122.0	5.174	mg/L	0.0304				0.59%
Y RADIAL	250589.5	5.210	mg/L	0.0246				0.47%
As 188.979†	4.3	0.0028	mg/L	0.00415	0.0028	mg/L	0.00415	148.71%
Tl 190.801†	-0.0	0.0000	mg/L	0.00066	0.0000	mg/L	0.00066	>999.9%
Se 196.026†	4.8	0.0026	mg/L	0.00309	0.0026	mg/L	0.00309	119.44%
Zn 206.200†	-6.1	-0.0002	mg/L	0.00033	-0.0002	mg/L	0.00033	204.28%
Sb 206.836†	-2.6	-0.0011	mg/L	0.00354	-0.0011	mg/L	0.00354	314.13%
Pb 220.353†	-6.4	-0.0005	mg/L	0.00176	-0.0005	mg/L	0.00176	324.02%
Cd 226.502†	14.6	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	123.47%
Co 228.616†	-13.6	-0.0004	mg/L	0.00029	-0.0004	mg/L	0.00029	81.49%
Ni 232.003†	-1.5	-0.0001	mg/L	0.00200	-0.0001	mg/L	0.00200	>999.9%
Ba 233.527†	15.6	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	82.87%
Mn 257.610†	96.1	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	7.49%
Cr 267.716†	25.5	0.0002	mg/L	0.00037	0.0002	mg/L	0.00037	201.16%
Fe 273.955†	260.3	0.0119	mg/L	0.00016	0.0119	mg/L	0.00016	1.36%
Mg 279.077†	-23.4	-0.0012	mg/L	0.00024	-0.0012	mg/L	0.00024	21.10%
V 292.402†	2.8	0.0000	mg/L	0.00035	0.0000	mg/L	0.00035	>999.9%
Al 308.215†	-174.1	-0.0094	mg/L	0.00381	-0.0094	mg/L	0.00381	40.72%
Be 313.107†	132.3	0.00004	mg/L	0.000015	0.00004	mg/L	0.000015	41.76%
Cu 324.752†	-147.6	-0.0006	mg/L	0.00009	-0.0006	mg/L	0.00009	14.25%
Ag 338.289†	88.6	0.0009	mg/L	0.00087	0.0009	mg/L	0.00087	97.10%
Na 330.237†	13.7	0.0214	mg/L	0.08323	0.0214	mg/L	0.08323	388.32%
Ca 227.546†	7.5	0.0310	mg/L	0.07765	0.0310	mg/L	0.07765	250.78%
Al RADIAL†	22.1	0.0201	mg/L	0.00443	0.0201	mg/L	0.00443	22.04%
Fe RADIAL†	5.2	0.0134	mg/L	0.00722	0.0134	mg/L	0.00722	53.76%
Ca RADIAL†	-126.4	-0.0336	mg/L	0.00278	-0.0336	mg/L	0.00278	8.28%
K RADIAL†	-44.7	-0.0389	mg/L	0.06343	-0.0389	mg/L	0.06343	163.21%
Mg RADIAL†	13.0	0.0292	mg/L	0.01847	0.0292	mg/L	0.01847	63.29%
Na RADIAL†	70.9	0.0269	mg/L	0.02629	0.0269	mg/L	0.02629	97.78%

Sequence No.: 40
Sample ID: BK80320-BS1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 126
Date Collected: 11/7/2018 11:53:21 AM
Data Type: Reprocessed on 11/8/2018 10:53:22 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BK80320-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15796907.7	5.161	mg/L	0.0219				0.42%
Y RADIAL	250997.7	5.218	mg/L	0.0530				1.01%
As 188.979†	2778.6	1.824	mg/L	0.0156	1.824	mg/L	0.0156	0.86%
Tl 190.801†	3471.4	2.011	mg/L	0.0047	2.011	mg/L	0.0047	0.24%
Se 196.026†	3130.6	1.684	mg/L	0.0036	1.684	mg/L	0.0036	0.21%
Zn 206.200†	18483.2	0.4975	mg/L	0.00083	0.4975	mg/L	0.00083	0.17%
Sb 206.836†	581.9	0.2534	mg/L	0.00129	0.2534	mg/L	0.00129	0.51%
Pb 220.353†	5796.4	0.4935	mg/L	0.00219	0.4935	mg/L	0.00219	0.44%
Cd 226.502†	6951.2	0.0485	mg/L	0.00008	0.0485	mg/L	0.00008	0.17%
Co 228.616†	20143.5	0.5309	mg/L	0.00023	0.5309	mg/L	0.00023	0.04%
Ni 232.003†	9348.3	0.5241	mg/L	0.00082	0.5241	mg/L	0.00082	0.16%
Ba 233.527†	177457.2	2.046	mg/L	0.0019	2.046	mg/L	0.0019	0.09%
Mn 257.610†	327135.3	0.5146	mg/L	0.00066	0.5146	mg/L	0.00066	0.13%
Cr 267.716†	28219.3	0.2022	mg/L	0.00015	0.2022	mg/L	0.00015	0.08%
Fe 273.955†	22876.9	1.043	mg/L	0.0020	1.043	mg/L	0.0020	0.19%
Mg 279.077†	21044.2	1.033	mg/L	0.0019	1.033	mg/L	0.0019	0.18%
V 292.402†	104522.9	0.4908	mg/L	0.00116	0.4908	mg/L	0.00116	0.24%
Al 308.215†	33741.4	1.814	mg/L	0.0054	1.814	mg/L	0.0054	0.30%
Be 313.107†	180401.8	0.04870	mg/L	0.000177	0.04870	mg/L	0.000177	0.36%
Cu 324.752†	59991.8	0.2587	mg/L	0.00060	0.2587	mg/L	0.00060	0.23%
Ag 338.289†	5209.0	0.0524	mg/L	0.00079	0.0524	mg/L	0.00079	1.51%
Na 330.237†	687.7	1.084	mg/L	0.0735	1.084	mg/L	0.0735	6.78%
Ca 227.546†	251.6	1.050	mg/L	0.0282	1.050	mg/L	0.0282	2.68%
Al RADIAL†	2320.0	2.104	mg/L	0.0137	2.104	mg/L	0.0137	0.65%
Fe RADIAL†	391.0	1.010	mg/L	0.0173	1.010	mg/L	0.0173	1.72%
Ca RADIAL†	3688.7	0.9800	mg/L	0.00789	0.9800	mg/L	0.00789	0.81%
K RADIAL†	1136.7	0.9879	mg/L	0.08352	0.9879	mg/L	0.08352	8.45%
Mg RADIAL†	449.1	1.006	mg/L	0.0179	1.006	mg/L	0.0179	1.78%
Na RADIAL†	2921.9	1.108	mg/L	0.0297	1.108	mg/L	0.0297	2.68%

Sequence No.: 42
Sample ID: 18K0078-01
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 128
Date Collected: 11/7/2018 11:58:19 AM
Data Type: Reprocessed on 11/8/2018 10:53:23 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 18K0078-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14679712.3	4.796	mg/L	0.0265				0.55%
Y RADIAL	235758.7	4.902	mg/L	0.0587				1.20%
As 188.979†	11.9	0.0078	mg/L	0.00855	0.0078	mg/L	0.00855	109.97%
Tl 190.801†	-5.9	-0.0034	mg/L	0.00303	-0.0034	mg/L	0.00303	89.09%
Se 196.026†	86.0	0.0461	mg/L	0.00251	0.0461	mg/L	0.00251	5.44%
Zn 206.200†	313.2	0.0084	mg/L	0.00028	0.0084	mg/L	0.00028	3.33%
Sb 206.836†	1.6	0.0007	mg/L	0.00529	0.0007	mg/L	0.00529	736.41%
Pb 220.353†	-24.5	0.0006	mg/L	0.00111	0.0006	mg/L	0.00111	178.76%
Cd 226.502†	776.4	0.0054	mg/L	0.00018	0.0054	mg/L	0.00018	3.33%
Co 228.616†	732.5	0.0193	mg/L	0.00018	0.0193	mg/L	0.00018	0.93%
Ni 232.003†	2849.8	0.1598	mg/L	0.00087	0.1598	mg/L	0.00087	0.54%
Ba 233.527†	7948.9	0.0917	mg/L	0.00086	0.0917	mg/L	0.00086	0.94%
Mn 257.610†	802889.3	1.263	mg/L	0.0035	1.263	mg/L	0.0035	0.28%
Cr 267.716†	1062.2	0.0076	mg/L	0.00052	0.0076	mg/L	0.00052	6.81%
Fe 273.955†	5526.7	0.2520	mg/L	0.00231	0.2520	mg/L	0.00231	0.92%
Mg 279.077†	583052.8	28.63	mg/L	0.062	28.63	mg/L	0.062	0.22%
V 292.402†	59.3	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	38.56%
Al 308.215†	630.0	0.0281	mg/L	0.00312	0.0281	mg/L	0.00312	11.10%
Be 313.107†	-360.3	-0.00010	mg/L	0.000027	-0.00010	mg/L	0.000027	27.79%
Cu 324.752†	1568.8	0.0068	mg/L	0.00036	0.0068	mg/L	0.00036	5.31%
Ag 338.289†	135.0	-0.0008	mg/L	0.00124	-0.0008	mg/L	0.00124	152.56%
Na 330.237†	85672.7	134.5	mg/L	0.38	134.5	mg/L	0.38	0.28%
Ca 227.546†	43840.6	181.2	mg/L	0.10	181.2	mg/L	0.10	0.06%
Al RADIAL†	34.2	0.0253	mg/L	0.01123	0.0253	mg/L	0.01123	44.39%
Fe RADIAL†	95.5	0.2466	mg/L	0.00980	0.2466	mg/L	0.00980	3.98%
Ca RADIAL†	726085.4	192.9	mg/L	0.41	192.9	mg/L	0.41	0.21%
K RADIAL†	18061.9	15.70	mg/L	0.158	15.70	mg/L	0.158	1.01%
Mg RADIAL†	12692.6	28.43	mg/L	0.333	28.43	mg/L	0.333	1.17%
Na RADIAL†	397822.3	150.9	mg/L	0.10	150.9	mg/L	0.10	0.06%

Sequence No.: 43
Sample ID: 18K0078-02
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 129
Date Collected: 11/7/2018 12:00:55 PM
Data Type: Reprocessed on 11/8/2018 10:53:24 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 18K0078-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14338281.5	4.685	mg/L	0.0128				0.27%
Y RADIAL	231722.7	4.818	mg/L	0.0442				0.92%
As 188.979†	3.5	0.0015	mg/L	0.00323	0.0015	mg/L	0.00323	209.85%
Tl 190.801†	33.7	0.0194	mg/L	0.00496	0.0194	mg/L	0.00496	25.49%
Se 196.026†	101.1	0.0501	mg/L	0.01503	0.0501	mg/L	0.01503	30.02%
Zn 206.200†	1573.7	0.0424	mg/L	0.00014	0.0424	mg/L	0.00014	0.32%
Sb 206.836†	-8.7	-0.0029	mg/L	0.00350	-0.0029	mg/L	0.00350	121.03%
Pb 220.353†	193.9	0.0191	mg/L	0.00118	0.0191	mg/L	0.00118	6.14%
Cd 226.502†	235.0	0.0011	mg/L	0.00007	0.0011	mg/L	0.00007	6.31%
Co 228.616†	233.2	0.0064	mg/L	0.00042	0.0064	mg/L	0.00042	6.52%
Ni 232.003†	309.6	0.0167	mg/L	0.00094	0.0167	mg/L	0.00094	5.65%
Ba 233.527†	11503.5	0.1326	mg/L	0.00023	0.1326	mg/L	0.00023	0.18%
Mn 257.610†	6409260.0	10.08	mg/L	0.010	10.08	mg/L	0.010	0.10%
Cr 267.716†	909.6	0.0066	mg/L	0.00016	0.0066	mg/L	0.00016	2.38%
Fe 273.955†	167350.1	7.631	mg/L	0.0622	7.631	mg/L	0.0622	0.81%
Mg 279.077†	650526.6	31.94	mg/L	0.237	31.94	mg/L	0.237	0.74%
V 292.402†	535.3	0.0018	mg/L	0.00035	0.0018	mg/L	0.00035	20.05%
Al 308.215†	24489.2	1.310	mg/L	0.0125	1.310	mg/L	0.0125	0.95%
Be 313.107†	833.7	0.00023	mg/L	0.000050	0.00023	mg/L	0.000050	22.31%
Cu 324.752†	6168.4	0.0268	mg/L	0.00048	0.0268	mg/L	0.00048	1.78%
Ag 338.289†	214.1	-0.0002	mg/L	0.00075	-0.0002	mg/L	0.00075	317.25%
Na 330.237†	239991.3	376.6	mg/L	1.91	376.6	mg/L	1.91	0.51%
Ca 227.546†	53768.8	222.3	mg/L	1.21	222.3	mg/L	1.21	0.54%
Al RADIAL†	1501.0	1.355	mg/L	0.0115	1.355	mg/L	0.0115	0.85%
Fe RADIAL†	3031.2	7.826	mg/L	0.0504	7.826	mg/L	0.0504	0.64%
Ca RADIAL†	875826.6	232.7	mg/L	0.13	232.7	mg/L	0.13	0.05%
K RADIAL†	12196.8	10.60	mg/L	0.026	10.60	mg/L	0.026	0.24%
Mg RADIAL†	14379.8	32.21	mg/L	0.271	32.21	mg/L	0.271	0.84%
Na RADIAL†	975928.4	370.2	mg/L	3.36	370.2	mg/L	3.36	0.91%

Sequence No.: 44
Sample ID: 18K0078-03
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 130
Date Collected: 11/7/2018 12:03:26 PM
Data Type: Reprocessed on 11/8/2018 10:53:24 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 18K0078-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	13797481.8	4.508	mg/L	0.0056				0.12%
Y RADIAL	235347.6	4.893	mg/L	0.0114				0.23%
As 188.979†	6.4	0.0042	mg/L	0.00706	0.0042	mg/L	0.00706	168.35%
Tl 190.801†	-39.7	-0.0230	mg/L	0.00332	-0.0230	mg/L	0.00332	14.41%
Se 196.026†	59.4	0.0319	mg/L	0.00163	0.0319	mg/L	0.00163	5.10%
Zn 206.200†	512.3	0.0138	mg/L	0.00012	0.0138	mg/L	0.00012	0.89%
Sb 206.836†	0.2	0.0001	mg/L	0.00611	0.0001	mg/L	0.00611	>999.9%
Pb 220.353†	-47.4	-0.0017	mg/L	0.00056	-0.0017	mg/L	0.00056	33.65%
Cd 226.502†	6.3	0.0000	mg/L	0.00016	0.0000	mg/L	0.00016	414.33%
Co 228.616†	-25.9	-0.0007	mg/L	0.00023	-0.0007	mg/L	0.00023	33.56%
Ni 232.003†	-127.7	-0.0072	mg/L	0.00058	-0.0072	mg/L	0.00058	8.07%
Ba 233.527†	6116.7	0.0705	mg/L	0.00024	0.0705	mg/L	0.00024	0.34%
Mn 257.610†	595027.2	0.9358	mg/L	0.00365	0.9358	mg/L	0.00365	0.39%
Cr 267.716†	258.8	0.0019	mg/L	0.00013	0.0019	mg/L	0.00013	7.16%
Fe 273.955†	1891.6	0.0863	mg/L	0.00204	0.0863	mg/L	0.00204	2.36%
Mg 279.077†	497601.6	24.43	mg/L	0.118	24.43	mg/L	0.118	0.48%
V 292.402†	158.6	0.0007	mg/L	0.00032	0.0007	mg/L	0.00032	43.93%
Al 308.215†	1169.8	0.0579	mg/L	0.00697	0.0579	mg/L	0.00697	12.02%
Be 313.107†	-1192.7	-0.00032	mg/L	0.000047	-0.00032	mg/L	0.000047	14.51%
Cu 324.752†	1469.8	0.0063	mg/L	0.00046	0.0063	mg/L	0.00046	7.28%
Ag 338.289†	154.8	-0.0003	mg/L	0.00105	-0.0003	mg/L	0.00105	330.20%
Na 330.237†	590084.7	925.4	mg/L	3.78	925.4	mg/L	3.78	0.41%
Ca 227.546†	40640.0	168.0	mg/L	0.72	168.0	mg/L	0.72	0.43%
Al RADIAL†	35.1	0.0269	mg/L	0.02714	0.0269	mg/L	0.02714	100.76%
Fe RADIAL†	27.3	0.0706	mg/L	0.00532	0.0706	mg/L	0.00532	7.54%
Ca RADIAL†	627191.0	166.6	mg/L	0.81	166.6	mg/L	0.81	0.49%
K RADIAL†	11451.3	9.952	mg/L	0.0363	9.952	mg/L	0.0363	0.36%
Mg RADIAL†	10301.7	23.08	mg/L	0.037	23.08	mg/L	0.037	0.16%
Na RADIAL†	2034831.9	771.8	mg/L	7.21	771.8	mg/L	7.21	0.93%

Sequence No.: 45
Sample ID: SEQ-CCV4
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 11/7/2018 12:06:02 PM
Data Type: Reprocessed on 11/8/2018 10:53:25 AM
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	15479810.1	5.058	mg/L	0.0244				0.48%
Y RADIAL	249551.3	5.188	mg/L	0.0351				0.68%
As 188.979†	755.5	0.4953	mg/L	0.00695	0.4953	mg/L	0.00695	1.40%
Tl 190.801†	909.8	0.5271	mg/L	0.00459	0.5271	mg/L	0.00459	0.87%
Se 196.026†	939.8	0.5030	mg/L	0.00765	0.5030	mg/L	0.00765	1.52%
Zn 206.200†	96731.9	2.603	mg/L	0.0439	2.603	mg/L	0.0439	1.68%
Sb 206.836†	565.4	0.2467	mg/L	0.00818	0.2467	mg/L	0.00818	3.32%
Pb 220.353†	5886.1	0.5022	mg/L	0.00213	0.5022	mg/L	0.00213	0.42%
Cd 226.502†	35764.8	0.2497	mg/L	0.00515	0.2497	mg/L	0.00515	2.06%
Co 228.616†	98049.0	2.584	mg/L	0.0461	2.584	mg/L	0.0461	1.78%
Ni 232.003†	45573.6	2.555	mg/L	0.0421	2.555	mg/L	0.0421	1.65%
Ba 233.527†	878517.0	10.13	mg/L	0.050	10.13	mg/L	0.050	0.49%
Mn 257.610†	1605244.6	2.525	mg/L	0.0116	2.525	mg/L	0.0116	0.46%
Cr 267.716†	145138.6	1.040	mg/L	0.0167	1.040	mg/L	0.0167	1.60%
Fe 273.955†	113545.0	5.178	mg/L	0.0837	5.178	mg/L	0.0837	1.62%
Mg 279.077†	511442.3	25.11	mg/L	0.139	25.11	mg/L	0.139	0.55%
V 292.402†	528461.2	2.482	mg/L	0.0188	2.482	mg/L	0.0188	0.76%
Al 308.215†	187581.5	10.08	mg/L	0.153	10.08	mg/L	0.153	1.52%
Be 313.107†	924245.2	0.24950	mg/L	0.002456	0.24950	mg/L	0.002456	0.98%
Cu 324.752†	293566.4	1.266	mg/L	0.0194	1.266	mg/L	0.0194	1.54%
Ag 338.289†	127272.0	1.281	mg/L	0.0185	1.281	mg/L	0.0185	1.45%
Na 330.237†	15055.7	23.66	mg/L	0.262	23.66	mg/L	0.262	1.11%
Ca 227.546†	6005.1	24.87	mg/L	0.228	24.87	mg/L	0.228	0.92%
Al RADIAL†	11747.2	10.65	mg/L	0.025	10.65	mg/L	0.025	0.23%
Fe RADIAL†	1937.1	5.001	mg/L	0.0404	5.001	mg/L	0.0404	0.81%
Ca RADIAL†	95455.4	25.36	mg/L	0.039	25.36	mg/L	0.039	0.15%
K RADIAL†	5820.6	5.058	mg/L	0.0423	5.058	mg/L	0.0423	0.84%
Mg RADIAL†	11182.6	25.05	mg/L	0.102	25.05	mg/L	0.102	0.41%
Na RADIAL†	74937.8	28.42	mg/L	0.166	28.42	mg/L	0.166	0.58%

Sequence No.: 46
Sample ID: SEQ-CCB4
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/7/2018 12:08:39 PM
Data Type: Reprocessed on 11/8/2018 10:53:25 AM
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	16072465.3	5.251	mg/L	0.0241				0.46%
Y RADIAL	254159.0	5.284	mg/L	0.0656				1.24%
As 188.979†	-0.8	-0.0005	mg/L	0.00200	-0.0005	mg/L	0.00200	395.16%
Tl 190.801†	-7.9	-0.0046	mg/L	0.00685	-0.0046	mg/L	0.00685	150.56%
Se 196.026†	-7.1	-0.0039	mg/L	0.00315	-0.0039	mg/L	0.00315	81.75%
Zn 206.200†	92.9	0.0025	mg/L	0.00032	0.0025	mg/L	0.00032	12.81%
Sb 206.836†	0.3	0.0001	mg/L	0.00123	0.0001	mg/L	0.00123	>999.9%
Pb 220.353†	-1.6	-0.0001	mg/L	0.00072	-0.0001	mg/L	0.00072	534.61%
Cd 226.502†	27.5	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	55.21%
Co 228.616†	-3.3	-0.0001	mg/L	0.00017	-0.0001	mg/L	0.00017	194.89%
Ni 232.003†	94.1	0.0053	mg/L	0.00346	0.0053	mg/L	0.00346	65.64%
Ba 233.527†	49.0	0.0006	mg/L	0.00004	0.0006	mg/L	0.00004	7.12%
Mn 257.610†	78.1	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	22.22%
Cr 267.716†	51.8	0.0004	mg/L	0.00031	0.0004	mg/L	0.00031	82.37%
Fe 273.955†	28.6	0.0013	mg/L	0.00056	0.0013	mg/L	0.00056	42.66%
Mg 279.077†	0.4	0.0000	mg/L	0.00366	0.0000	mg/L	0.00366	>999.9%
V 292.402†	74.2	0.0003	mg/L	0.00025	0.0003	mg/L	0.00025	72.53%
Al 308.215†	-71.4	-0.0038	mg/L	0.00503	-0.0038	mg/L	0.00503	130.83%
Be 313.107†	382.3	0.00010	mg/L	0.000046	0.00010	mg/L	0.000046	45.02%
Cu 324.752†	-292.0	-0.0013	mg/L	0.00031	-0.0013	mg/L	0.00031	24.39%
Ag 338.289†	54.5	0.0005	mg/L	0.00048	0.0005	mg/L	0.00048	87.87%
Na 330.237†	-54.5	-0.0853	mg/L	0.02337	-0.0853	mg/L	0.02337	27.39%
Ca 227.546†	52.1	0.2154	mg/L	0.10684	0.2154	mg/L	0.10684	49.59%
Al RADIAL†	11.0	0.0099	mg/L	0.05458	0.0099	mg/L	0.05458	549.29%
Fe RADIAL†	3.1	0.0081	mg/L	0.01511	0.0081	mg/L	0.01511	186.63%
Ca RADIAL†	261.2	0.0694	mg/L	0.00735	0.0694	mg/L	0.00735	10.60%
K RADIAL†	-53.6	-0.0465	mg/L	0.02598	-0.0465	mg/L	0.02598	55.82%
Mg RADIAL†	-2.5	-0.0056	mg/L	0.02044	-0.0056	mg/L	0.02044	368.21%
Na RADIAL†	77.3	0.0293	mg/L	0.02160	0.0293	mg/L	0.02160	73.70%

Sequence No.: 47
Sample ID: 18K0078-04
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 131
Date Collected: 11/7/2018 12:11:09 PM
Data Type: Reprocessed on 11/8/2018 10:53:26 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 18K0078-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14588541.3	4.767	mg/L	0.0436				0.91%
Y RADIAL	235596.2	4.898	mg/L	0.0283				0.58%
As 188.979†	15.6	0.0099	mg/L	0.00616	0.0099	mg/L	0.00616	61.97%
Tl 190.801†	-6.4	-0.0038	mg/L	0.00138	-0.0038	mg/L	0.00138	36.71%
Se 196.026†	80.9	0.0418	mg/L	0.00552	0.0418	mg/L	0.00552	13.22%
Zn 206.200†	1218.2	0.0328	mg/L	0.00020	0.0328	mg/L	0.00020	0.61%
Sb 206.836†	2.6	0.0015	mg/L	0.00634	0.0015	mg/L	0.00634	424.36%
Pb 220.353†	101.8	0.0113	mg/L	0.00137	0.0113	mg/L	0.00137	12.18%
Cd 226.502†	1000.6	0.0068	mg/L	0.00006	0.0068	mg/L	0.00006	0.93%
Co 228.616†	782.7	0.0207	mg/L	0.00048	0.0207	mg/L	0.00048	2.30%
Ni 232.003†	2930.4	0.1641	mg/L	0.00124	0.1641	mg/L	0.00124	0.75%
Ba 233.527†	8743.5	0.1008	mg/L	0.00094	0.1008	mg/L	0.00094	0.93%
Mn 257.610†	1134757.3	1.785	mg/L	0.0220	1.785	mg/L	0.0220	1.23%
Cr 267.716†	387.4	0.0028	mg/L	0.00052	0.0028	mg/L	0.00052	18.58%
Fe 273.955†	68456.9	3.122	mg/L	0.0401	3.122	mg/L	0.0401	1.28%
Mg 279.077†	641707.0	31.51	mg/L	0.401	31.51	mg/L	0.401	1.27%
V 292.402†	454.4	0.0018	mg/L	0.00050	0.0018	mg/L	0.00050	27.17%
Al 308.215†	11044.5	0.5879	mg/L	0.01283	0.5879	mg/L	0.01283	2.18%
Be 313.107†	215.6	0.00006	mg/L	0.000017	0.00006	mg/L	0.000017	28.42%
Cu 324.752†	5429.9	0.0235	mg/L	0.00085	0.0235	mg/L	0.00085	3.62%
Ag 338.289†	120.6	-0.0010	mg/L	0.00092	-0.0010	mg/L	0.00092	94.54%
Na 330.237†	85100.9	133.7	mg/L	1.81	133.7	mg/L	1.81	1.35%
Ca 227.546†	46060.1	190.4	mg/L	2.42	190.4	mg/L	2.42	1.27%
Al RADIAL†	692.9	0.6227	mg/L	0.01090	0.6227	mg/L	0.01090	1.75%
Fe RADIAL†	1238.5	3.198	mg/L	0.0425	3.198	mg/L	0.0425	1.33%
Ca RADIAL†	763626.3	202.9	mg/L	0.21	202.9	mg/L	0.21	0.10%
K RADIAL†	17530.7	15.23	mg/L	0.025	15.23	mg/L	0.025	0.16%
Mg RADIAL†	13578.5	30.42	mg/L	0.179	30.42	mg/L	0.179	0.59%
Na RADIAL†	394970.1	149.8	mg/L	1.13	149.8	mg/L	1.13	0.75%

Sequence No.: 57
Sample ID: SEQ-CCV5
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 11/7/2018 12:35:14 PM
Data Type: Reprocessed on 11/8/2018 10:53:31 AM
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	15551256.2	5.081	mg/L	0.0150				0.30%
Y RADIAL	249695.3	5.191	mg/L	0.1062				2.05%
As 188.979†	765.4	0.5018	mg/L	0.00436	0.5018	mg/L	0.00436	0.87%
Tl 190.801†	867.6	0.5026	mg/L	0.00320	0.5026	mg/L	0.00320	0.64%
Se 196.026†	937.1	0.5015	mg/L	0.00899	0.5015	mg/L	0.00899	1.79%
Zn 206.200†	97784.4	2.632	mg/L	0.0103	2.632	mg/L	0.0103	0.39%
Sb 206.836†	557.0	0.2430	mg/L	0.00119	0.2430	mg/L	0.00119	0.49%
Pb 220.353†	5923.7	0.5054	mg/L	0.00172	0.5054	mg/L	0.00172	0.34%
Cd 226.502†	36020.4	0.2515	mg/L	0.00091	0.2515	mg/L	0.00091	0.36%
Co 228.616†	98886.5	2.606	mg/L	0.0106	2.606	mg/L	0.0106	0.41%
Ni 232.003†	45866.6	2.572	mg/L	0.0049	2.572	mg/L	0.0049	0.19%
Ba 233.527†	873563.4	10.07	mg/L	0.031	10.07	mg/L	0.031	0.31%
Mn 257.610†	1599650.4	2.516	mg/L	0.0111	2.516	mg/L	0.0111	0.44%
Cr 267.716†	145921.5	1.046	mg/L	0.0032	1.046	mg/L	0.0032	0.31%
Fe 273.955†	114290.3	5.212	mg/L	0.0123	5.212	mg/L	0.0123	0.24%
Mg 279.077†	509896.5	25.04	mg/L	0.090	25.04	mg/L	0.090	0.36%
V 292.402†	523656.1	2.459	mg/L	0.0089	2.459	mg/L	0.0089	0.36%
Al 308.215†	188399.9	10.13	mg/L	0.014	10.13	mg/L	0.014	0.14%
Be 313.107†	916791.6	0.24749	mg/L	0.001304	0.24749	mg/L	0.001304	0.53%
Cu 324.752†	294706.3	1.271	mg/L	0.0027	1.271	mg/L	0.0027	0.21%
Ag 338.289†	128094.0	1.289	mg/L	0.0024	1.289	mg/L	0.0024	0.19%
Na 330.237†	15069.4	23.68	mg/L	0.132	23.68	mg/L	0.132	0.56%
Ca 227.546†	6014.3	24.91	mg/L	0.065	24.91	mg/L	0.065	0.26%
Al RADIAL†	11825.8	10.73	mg/L	0.193	10.73	mg/L	0.193	1.80%
Fe RADIAL†	1951.4	5.038	mg/L	0.0951	5.038	mg/L	0.0951	1.89%
Ca RADIAL†	95807.2	25.45	mg/L	0.101	25.45	mg/L	0.101	0.40%
K RADIAL†	5670.7	4.928	mg/L	0.0356	4.928	mg/L	0.0356	0.72%
Mg RADIAL†	11262.5	25.23	mg/L	0.450	25.23	mg/L	0.450	1.78%
Na RADIAL†	75424.2	28.61	mg/L	0.116	28.61	mg/L	0.116	0.41%

Sequence No.: 58
Sample ID: SEQ-CCB5
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/7/2018 12:37:51 PM
Data Type: Reprocessed on 11/8/2018 10:53:31 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB5

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16089832.2	5.257	mg/L	0.0296				0.56%
Y RADIAL	254390.1	5.289	mg/L	0.0080				0.15%
As 188.979†	7.9	0.0052	mg/L	0.00404	0.0052	mg/L	0.00404	77.53%
Tl 190.801†	-3.2	-0.0019	mg/L	0.00357	-0.0019	mg/L	0.00357	189.62%
Se 196.026†	-13.9	-0.0075	mg/L	0.00324	-0.0075	mg/L	0.00324	43.19%
Zn 206.200†	95.0	0.0026	mg/L	0.00011	0.0026	mg/L	0.00011	4.36%
Sb 206.836†	0.7	0.0003	mg/L	0.00233	0.0003	mg/L	0.00233	771.40%
Pb 220.353†	-6.5	-0.0006	mg/L	0.00058	-0.0006	mg/L	0.00058	104.82%
Cd 226.502†	26.2	0.0002	mg/L	0.00026	0.0002	mg/L	0.00026	142.87%
Co 228.616†	1.1	0.0000	mg/L	0.00041	0.0000	mg/L	0.00041	>999.9%
Ni 232.003†	102.0	0.0057	mg/L	0.00307	0.0057	mg/L	0.00307	53.75%
Ba 233.527†	58.5	0.0007	mg/L	0.00017	0.0007	mg/L	0.00017	25.76%
Mn 257.610†	85.5	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	13.04%
Cr 267.716†	9.7	0.0001	mg/L	0.00021	0.0001	mg/L	0.00021	294.52%
Fe 273.955†	17.6	0.0008	mg/L	0.00032	0.0008	mg/L	0.00032	39.71%
Mg 279.077†	4.6	0.0002	mg/L	0.00611	0.0002	mg/L	0.00611	>999.9%
V 292.402†	46.9	0.0002	mg/L	0.00021	0.0002	mg/L	0.00021	95.85%
Al 308.215†	-194.4	-0.0105	mg/L	0.00320	-0.0105	mg/L	0.00320	30.61%
Be 313.107†	390.1	0.00011	mg/L	0.000062	0.00011	mg/L	0.000062	59.30%
Cu 324.752†	-186.8	-0.0008	mg/L	0.00014	-0.0008	mg/L	0.00014	16.93%
Ag 338.289†	87.3	0.0009	mg/L	0.00037	0.0009	mg/L	0.00037	41.70%
Na 330.237†	34.4	0.0540	mg/L	0.16608	0.0540	mg/L	0.16608	307.56%
Ca 227.546†	46.3	0.1914	mg/L	0.05950	0.1914	mg/L	0.05950	31.09%
Al RADIAL†	10.8	0.0098	mg/L	0.01617	0.0098	mg/L	0.01617	164.68%
Fe RADIAL†	0.6	0.0016	mg/L	0.00639	0.0016	mg/L	0.00639	411.86%
Ca RADIAL†	253.7	0.0674	mg/L	0.00309	0.0674	mg/L	0.00309	4.58%
K RADIAL†	-31.4	-0.0273	mg/L	0.02496	-0.0273	mg/L	0.02496	91.46%
Mg RADIAL†	2.9	0.0065	mg/L	0.01145	0.0065	mg/L	0.01145	176.10%
Na RADIAL†	42.6	0.0162	mg/L	0.01496	0.0162	mg/L	0.01496	92.52%

York Analytical Laboratories, Inc.
SDG: 18K0078
CLASS: HG
METHOD: EPA 7473

DATA PACKAGE COVER PAGE

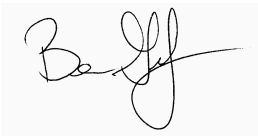
EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 1118	18K0078-01
KC-MW-02 1118	18K0078-02
KC-MW-05 1118	18K0078-03
KC-FD-01 1118	18K0078-04

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: 12/14/2018 Title: Laboratory Director

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-01 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-01 File ID: QBHGDMA80-01 110718A-034

Sampled: 11/01/18 15:45 Prepared: 11/07/18 12:40 Analyzed: 11/07/18 17:12

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK80385 Sequence: Y8K0737 Calibration: 11/07/18 1 Instrument: DMA 80-01

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 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-02 File ID: QBHGDMA80-01 110718A-035

Sampled: 11/01/18 12:19 Prepared: 11/07/18 12:40 Analyzed: 11/07/18 17:22

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK80385 Sequence: Y8K0737 Calibration: 11/07/18 1 Instrument: DMA 80-01

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 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-03 File ID: QBHGDMA80-01 110718A-036

Sampled: 11/01/18 11:00 Prepared: 11/07/18 12:40 Analyzed: 11/07/18 17:33

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK80385 Sequence: Y8K0737 Calibration: 11/07/18 1 Instrument: DMA 80-01

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 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-04 File ID: QBHGDMA80-01 110718A-037

Sampled: 11/01/18 11:00 Prepared: 11/07/18 12:40 Analyzed: 11/07/18 17:44

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK80385 Sequence: Y8K0737 Calibration: 11/07/18 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I

METHOD BLANK DATA SHEET

EPA 7473

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK80385-BLK1	File ID:	QBHGDMA80-01 110718A-024
Prepared:	11/07/18 12:40	Preparation:	EPA 7473 water	Initial/Final:	0.25 mL / 0.25 mL
Analyzed:	11/07/18 15:14	Instrument:	DMA 80-01		
Batch:	BK80385	Sequence:	Y8K0737	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	Q
7439-97-6	Mercury	0.00020	U

STANDARD REFERENCE MATERIAL RECOVERY

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Matrix: Water
Batch: BK80385
Laboratory ID: BK80385-SRM1
Preparation: EPA 7473 water
Initial/Final: 0.1 mL / 0.1 mL

ANALYTE	TRUE (mg/L)	FOUND (mg/L)	SRM % REC.	QC LIMITS REC.
Mercury	0.0100	0.00956	95.6	70 - 130

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 7473

Laboratory: York Analytical Laboratories, Inc. **SDG:** 18K0078

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** DMA 80-01

Analyte	LOD	LOQ	Units
Mercury	0.00020	0.00020	mg/L

FORM IV **PREPARATION BATCH SUMMARY**

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BK80385 Batch Matrix: Water Preparation: EPA 7473 water

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1118	18K0078-01	HGDMA80-01 110718A-	11/07/18 12:40	
KC-MW-02 1118	18K0078-02	HGDMA80-01 110718A-	11/07/18 12:40	
KC-MW-05 1118	18K0078-03	HGDMA80-01 110718A-	11/07/18 12:40	
KC-FD-01 1118	18K0078-04	HGDMA80-01 110718A-	11/07/18 12:40	
Blank	BK80385-BLK1	HGDMA80-01 110718A-	11/07/18 12:40	
Reference	BK80385-SRM1	HGDMA80-01 110718A-	11/07/18 12:40	

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7473

Laboratory:	York Analytical Laboratories, Inc.	SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y8K0737	Instrument:	DMA 80-01
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	Y8K0737-CCV2	QBHGDMA80-01 110718A-014	11/07/18 12:29
Calibration Blank	Y8K0737-CCB2	QBHGDMA80-01 110718A-015	11/07/18 12:37
Blank	BK80385-BLK1	QBHGDMA80-01 110718A-024	11/07/18 15:14
Reference	BK80385-SRM1	QBHGDMA80-01 110718A-025	11/07/18 15:25
Calibration Check	Y8K0737-CCV3	QBHGDMA80-01 110718A-026	11/07/18 15:38
Calibration Blank	Y8K0737-CCB3	QBHGDMA80-01 110718A-027	11/07/18 15:46
Calibration Check	Y8K0737-CCV4	QBHGDMA80-01 110718A-032	11/07/18 16:52
Calibration Blank	Y8K0737-CCB4	QBHGDMA80-01 110718A-033	11/07/18 17:01
KC-MW-01 1118	18K0078-01	QBHGDMA80-01 110718A-034	11/07/18 17:12
KC-MW-02 1118	18K0078-02	QBHGDMA80-01 110718A-035	11/07/18 17:22
KC-MW-05 1118	18K0078-03	QBHGDMA80-01 110718A-036	11/07/18 17:33
KC-FD-01 1118	18K0078-04	QBHGDMA80-01 110718A-037	11/07/18 17:44
Calibration Check	Y8K0737-CCV5	QBHGDMA80-01 110718A-044	11/07/18 22:21
Calibration Blank	Y8K0737-CCB5	QBHGDMA80-01 110718A-045	11/08/18 00:19

CONTINUING CALIBRATION CHECK

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 18K0078
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: DMA 80-01
Calibration: 11/07/18
Control Limt: +/- %
Sequence: Y8K0737

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y8K0737-CCV2	Mercury	0.0100	0.0109	109	mg/L	EPA 7473
Y8K0737-CCV3	Mercury	0.0100	0.0101	101	mg/L	EPA 7473
Y8K0737-CCV4	Mercury	0.0100	0.0104	104	mg/L	EPA 7473
Y8K0737-CCV5	Mercury	0.0100	0.00998	99.8	mg/L	EPA 7473

* Values outside of QC limits

FORM I **BLANKS**

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: DMA 80-01 Project: 41103.00 KINGSTON CVS

Sequence: Y8K0737 Calibration: 11/07/18 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y8K0737-CCB2	Mercury	0.00	0.00020	mg/L		EPA 7473
BK80385-BLK1	Mercury	0.00	0.00020	mg/L		EPA 7473
Y8K0737-CCB3	Mercury	0.00	0.00020	mg/L		EPA 7473
Y8K0737-CCB4	Mercury	0.00	0.00020	mg/L		EPA 7473
Y8K0737-CCB5	Mercury	0.00	0.00020	mg/L		EPA 7473

BENCHSHEETS

SDG: 18K0078

CLASS: HG

METHOD: EPA 7473

PREPARATION BENCH SHEET-AQUEOUS: BK80385

Prepared: **11/07/2018 12:40**

York Analytical Laboratories, Inc.

Printed: 11/13/2018 3:36:01PM

Matrix: Water **Preparation EPA 7473 water** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data			Decanted Y/N	Comments
									Initial	Acid	Basic		
18K0058-01 I	Mercury by 7473	0.25	0.25										use for water
18K0078-01 D	Mercury by 7473	0.25	0.25										
18K0078-02 D	Mercury by 7473	0.25	0.25										
18K0078-03 D	Mercury by 7473	0.25	0.25										
18K0078-04 D	Mercury by 7473	0.25	0.25										
18K0106-03 I	Mercury by 7473	0.25	0.25										
18K0108-01 B	Mercury by 7473	0.25	0.25										6020 = Tin & Molybdenum
18K0122-04 C	Mercury by 7473	0.25	0.25										
18K0122-05 C	Mercury by 7473	0.25	0.25										
18K0127-05 I	Mercury by 7473	0.25	0.25										
18K0178-01 B	Mercury by 7473	0.25	0.25										Use for water (tot)
18K0178-02 F	Mercury by 7473	0.25	0.25										Use for water (tot)
BK80385-BLK1	QC	0.25	0.25										
BK80385-DUP1	QC	0.25	0.25					18K0058-01					
BK80385-MS1	QC	0.25	0.25	Y18C036	125			18K0058-01					
BK80385-SRM1	QC	0.1	0.1	Y18C033	100								

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by SY **Date:** 11/07/2018 12:40

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
1 1	mb	0.1000	g	07.11.2018 10:00:16	✓	0.0020	0.4008	4.0075	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
2 2	SEQ-CCV1	0.1000	g	07.11.2018 10:21:47	✓	0.4012	9.0452	90.4520	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
3 3	SEQ-CCB1	0.1000	g	07.11.2018 10:21:53	✓	0.0037	0.4339	4.3386	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
4 4	BK80351-BLK1	0.2000	g	07.11.2018 10:33:05	✓	0.0014	0.3897	1.9486	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
5 5	BK80351-SRM1	0.0226	g	07.11.2018 10:33:09	✓	0.2574	293.2732	12,976.6904	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
6 -	auto BV (1)	0.0000	g	07.11.2018 10:57:15	✓B	0.1308	2.9552	0.0000	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	29.08.2014
7 -	auto BV (2)	0.0000	g	07.11.2018 11:00:48	✓B	0.0220	0.7869	0.0000	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	29.08.2014
8 6	18K0147-01	0.2168	g	07.11.2018 10:44:39	✓	0.0816	90.5311	417.5788	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
9 7	18K0167-19	0.2084	g	07.11.2018 10:44:43	✓	0.0241	31.9370	153.2488	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
10 8	18K0167-20	0.2279	g	07.11.2018 10:44:48	✓	0.3410	7.5832	33.2742	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
11 9	18K0167-27	0.2303	g	07.11.2018 10:44:49	✓	0.2821	6.2184	27.0015	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
12 10	18K0167-28	0.2293	g	07.11.2018 10:44:52	✓	0.0342	1.0228	4.4607	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
13 11	18K0168-01	0.2183	g	07.11.2018 10:44:53	✓	0.2542	5.5933	25.6219	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
14 12	18K0169-01	0.2118	g	07.11.2018 10:44:55	✓	0.0279	35.7171	168.6358	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
15 13	18K0174-01	0.2101	g	07.11.2018 10:44:58	✓	0.0174	0.6978	3.3215	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
16 14	SEQ-CCV2	0.1000	g	07.11.2018 12:17:31	✓	0.4020	9.0643	90.6435	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
17 15	SEQ-CCB2	0.1000	g	07.11.2018 12:17:33	✓	0.0041	0.4411	4.4113	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
18 16	18K0183-01	0.2148	g	07.11.2018 12:30:43	✓	0.4243	9.6252	44.8101	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
19 17	18K0185-01	0.2186	g	07.11.2018 12:30:46	✓	0.2438	5.3629	24.5331	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
20 18	18K0190-01	0.2270	g	07.11.2018 12:30:51	✓	0.0304	38.2107	168.3292	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
21 19	18K0190-02	0.2097	g	07.11.2018 12:30:53	✓	0.0447	52.5801	250.7396	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
22 20	18K0190-03	0.2223	g	07.11.2018 12:30:55	✓	0.0309	38.7101	174.1345	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
23 21	18K0190-04	0.2083	g	07.11.2018 12:30:57	✓	0.5698	13.5982	65.2819	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
24 22	18K0190-05	0.2141	g	07.11.2018 12:31:00	✓	0.7311	18.9434	88.4791	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
25 23	18K0190-06	0.2164	g	07.11.2018 12:31:02	✓	0.7527	19.7796	91.4027	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
26 24	BK80351-DUP1	0.2052	g	07.11.2018 12:31:05	✓	0.6735	16.8776	82.2495	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
27 25	BK80351-MS1	0.2124	g	07.11.2018 13:51:45	✓	0.1005	110.4889	520.1926	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
28 -	auto BV (1)	0.0000	g	07.11.2018 13:59:42	✓B	0.0438	1.2102	0.0000	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	29.08.2014
29 26	SEQ-CCV3	0.1000	g	07.11.2018 14:06:58	✓	0.4157	9.4092	94.0916	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014
30 27	SEQ-CCB3	0.1000	g	07.11.2018 14:07:00	✓	0.0059	0.4746	4.7458	1.0000	ICAL Soil DMA80-02 060618a.c80 06.06.2018 10:42:26	Soil.m80 29.08.2014

Sample listing "QBHgDMA80-02ICAL060618C.d80"

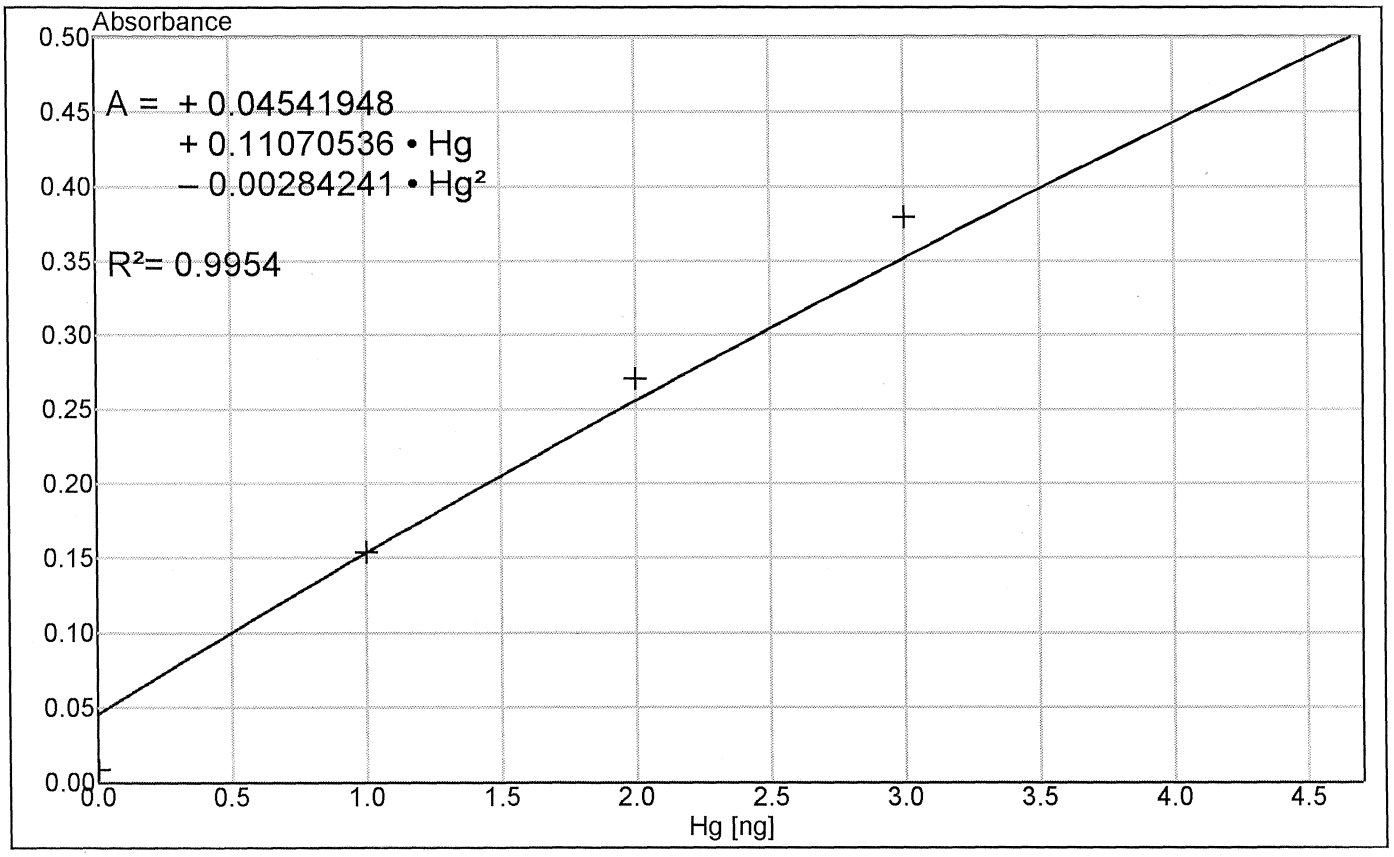
Created by "Service"
06.06.2018 17:06:44

Pos Nr.	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [µg/kg]	Σ	Cal- Factor
1 (1)	0.0 ng	0.1000 g 06.06.18 14:27	✔ C 06.06.18 14:36	0.0087	0.0000	0.0001		1.0000
2 (2)	1.0 ng	0.1000 g 06.06.18 14:28	✔ C 06.06.18 14:43	0.1542	1.0000	10.0000		1.0000
3 (3)	2.0 ng	0.2000 g 06.06.18 14:28	✔ C 06.06.18 14:52	0.2706	2.0000	10.0000		1.0000
4 (4)	3.0 ng	0.3000 g 06.06.18 14:29	✔ C 06.06.18 15:01	0.3794	3.0000	10.0000		1.0000
5 (5)	5.0 ng	0.5000 g 06.06.18 14:29	✔ C 06.06.18 15:10	0.5511	5.0000	10.0000		1.0000
6 (6)	10.0 ng	0.1000 g 06.06.18 14:30	✔ C 06.06.18 15:19	0.8312	10.0000	100.0000		1.0000
7 (7)	20.0 ng	0.2000 g 06.06.18 14:30	✔ C 06.06.18 15:29	1.1296	20.0000	100.0000		1.0000
8 (8)	50.0 ng	0.5000 g 06.06.18 14:31	✔ C 06.06.18 15:38	0.0410	50.0000	100.0000		1.0000
9 (9)	100 ng	0.1000 g 06.06.18 14:31	✔ C 06.06.18 15:47	0.0993	100.0000	1000.000		1.0000
10 (10)	200 ng	0.2000 g 06.06.18 14:31	✔ C 06.06.18 15:56	0.1851	200.0000	1000.000		1.0000
- (11)	auto BV (1)	0.0000 g 06.06.18 16:06	✔ B 06.06.18 16:05	0.0484	0.0000			1.0000
11 (12)	500 ng	0.5000 g 06.06.18 14:32	✔ C 06.06.18 16:09	0.4031	500.0000	1000.000		1.0000
- (13)	auto BV (1)	0.0000 g 06.06.18 16:18	✔ B 06.06.18 16:18	0.1764	0.0000			1.0000
1 (14)	mb	0.1000 g 06.06.18 16:35	✔ 06.06.18 16:36	0.1513	0.9811	9.8113		1.0000
2 (15)	ICV	0.1000 g 06.06.18 16:35	✔ 06.06.18 16:43	0.4985	10.6445	106.4454		1.0000
1 (16)	mb	0.1000 g 06.06.18 16:55	✔ 06.06.18 16:55	0.0571	0.1058	1.0580		1.0000

Calibration data "ICAL Soil DMA80-2 060618C.c80"

Created by "Service" at
06.06.2018 16:35:24

Cell 0



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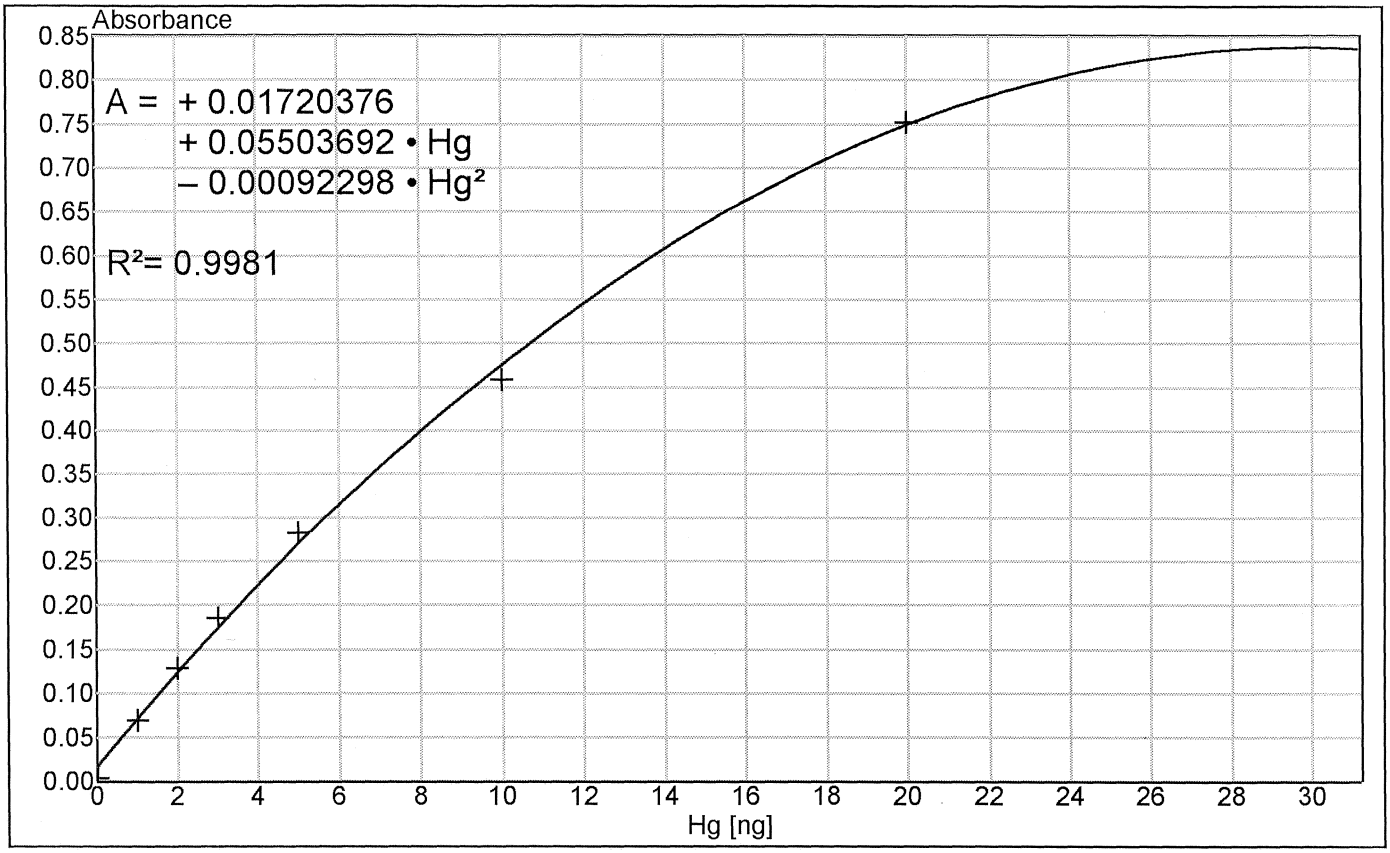
3	✔	2.0000	0.2706	0.0151	06.06.2018 15:01:32	
4	✔	3.0000	0.3794	0.0274	06.06.2018 15:10:44	
5	✔	5.0000	0.5511	0.0232	06.06.2018 15:20:00	
6	✔	10.0000	0.8312	-0.0370	06.06.2018 15:29:13	
7	✔	20.0000	1.1296	0.0070	06.06.2018 15:38:27	

Calibration data "ICAL Soil DMA80-2 060618C.c80"

Created by "Service" at
06.06.2018 16:35:24

Cell 1

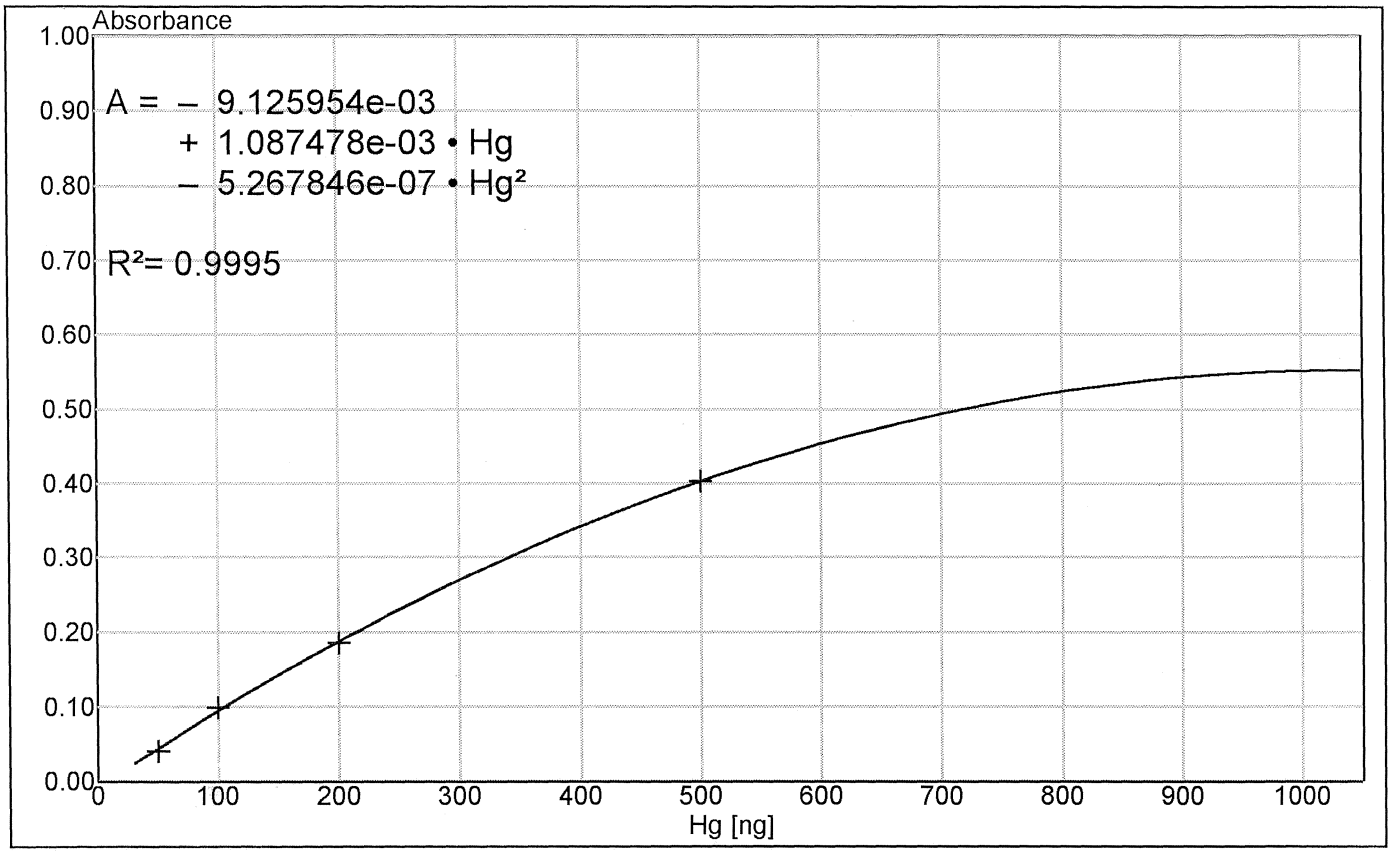


Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks
1	✔	0.0000	0.0038	-0.0134	06.06.2018 14:43:28	
2	✔	1.0000	0.0695	-0.0018	06.06.2018 14:52:19	
3	✔	2.0000	0.1284	0.0048	06.06.2018 15:01:32	
4	✔	3.0000	0.1852	0.0112	06.06.2018 15:10:44	
5	✔	5.0000	0.2821	0.0128	06.06.2018 15:20:00	
6	✔	10.0000	0.4585	-0.0167	06.06.2018 15:29:13	
7	✔	20.0000	0.7518	0.0031	06.06.2018 15:38:27	

Calibration data "ICAL Soil DMA80-2 060618C.c80"

Created by "Service" at
06.06.2018 16:35:24

Cell 2



Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks
1	✔	50.0000	0.0410	-0.0029	06.06.2018 15:47:39	
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3	✔	200.0000	0.1851	-0.0022	06.06.2018 16:06:05	
4	✔	500.0000	0.4031	0.0002	06.06.2018 16:18:11	

INITIAL CALIBRATION VERIFICATION (Hg)

Lab Name: York Analytical Laboratories, Inc.

I Cal Source: Inorganic Ventures

Sequence: DMA80-02 060618C.d80

C Cal Source: Absolute Standards

Concentration units: ug/kg

Analyte	TRUE	ICV FOUND	%R(1)
Mercury	100.0000	106.4454	106.4

(1) Control Limits Hg 80-120 %

INITIAL CALIBRATION BLANK

Lab Name: York Analytical Laboratories, Inc

Preparation Blank Matrix: Soil

Prep Blank ID: N/A

Prep. Blank Conc. Units: ug/kg

Sequence ID: DMA80-02 060618C.d80

Initial Calibration Blank (ug/kg)		
Analyte	ICB	C
Mercury	0.00	U

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

The Chazen Companies
21 Fox Street
Poughkeepsie, NY 12601
ATTN: Mr. Eric Orlowski
eorlowski@chazencompanies.com

February 12, 2019

SUBJECT: Former Utility Platers/Kingston Diagnostics, Data Usability Report

Dear Mr. Orlowski,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on January 22, 2019. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #44246:

SDG #	Fraction
18K0048	Volatiles, Metals

The data validation was performed under Category B guidelines using quality control summaries provided by the laboratory. The analyses were validated using the following documents, as applicable to each method:

- USEPA Region 2 Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry, SOP HW-24, Revision 4; October 2014
- USEPA Region 2 Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program, SOP HW-2a/c, Revision 15; December 2012
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA 540-R-2017-002; January 2017
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, EPA 540-R-2017-001; January 2017
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink

Christina Rink
crink@lab-data.com
Project Manager/Senior Chemist

360 pages-ADV

Attachment 1

EDD Category B **LDC#44246 (Chazen Companies, Poughkeepsie, NY / Former Utility Platers/Kingston Diagnostics)**

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (8260B)		Metals (6010D /7473)																																	
Matrix: Air/Water/Soil				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	18K0048	01/22/19	02/15/19	5	0	4	0																																
Total	J/CR			5	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9

Shaded cells indicate Category B validation (all other cells are Category A validation). These sample counts do not include MS/MSD, and DUPs

L:\Chazen\Kingston\44246ST.wpd

Site: Former Utility Platers/Kingston Diagnostics
Laboratory: York Analytical Laboratories, Inc.
Report No.: 18K0078
Reviewer: Josephine Go and Christina Rink/Laboratory Data Consultants for Chazen Companies – Troy, NY
Date: February 8, 2019

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
KC-MW-01 1118	18K0078-01	VOC
KC-MW-02 1118	18K0078-02	VOC
KC-MW-05 1118	18K0078-03	VOC
KC-FD-01 1118	18K0078-04	VOC
KC-TB-01 1118	18K0078-05	VOC

Associated QC Samples(s):
Field/Trip Blanks: KC-TB-01 1118
Field Duplicate pair: KC-MW-01 1118 and KC-FD-01 1118

The above-listed water samples were collected on November 1, 2018 and were analyzed for volatile organic compounds (VOCs) by SW-846 method 8260C. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry,* SOP HW-24, Revision 4 (October 2014) and the USEPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review,* EPA 540-R-2017-002 (January 2017), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

Initial Calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Instrument ID	Compound	ICAL %RSD	Associated Samples		Validation Action
11/07/18	ICAL-QVOA6	Bromodichloromethane	21.46757	KC-MW-01 1118	X	J detects/UJ nondetects
		Bromomethane	28.32285	KC-MW-02 1118	X	J detects/UJ nondetects
		Dibromomethane	20.04867	KC-MW-05 1118	X	J detects/UJ nondetects
		Methyl cyclohexane	25.70785	KC-FD-01 1118	X	J detects/UJ nondetects
		trans-1,3-Dichloropropene	20.71088	KC-TB-01 1118	X	J detects/UJ nondetects
		Trichloroethene	21.14182		X	J detects/UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The bromodichloromethane, bromomethane, dibromomethane, methyl cyclohexane, trans-1,3-dichloropropene, and trichloroethene results were estimated due to initial calibration exceedances. The bias cannot be determined. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Date	Instrument ID	Compound	ICV %D	Associated Samples		Validation Action
11/08/18	QV611409	1,2,3-Trichlorobenzene	30.8	KC-MW-01 1118	SS	UJ nondetects
		1,4-Dioxane	61.6	KC-MW-02 1118	SS	UJ nondetects
		Acrolein	79.9	KC-MW-05 1118	SS	UJ nondetects
		Bromomethane	40.3	KC-FD-01 1118	SS	UJ nondetects
		sec-Butylbenzene	32.4	KC-TB-01 1118	SS	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,2,3-trichlorobenzene, 1,4-dioxane, acrolein, bromomethane, and sec-butylbenzene results were estimated due to second source calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Instrument ID	Compound	CC %D	Associated Samples		Validation Action
11/10/18	QV611524	1,1,2-Trichloroethane	26.7	KC-MW-01 1118	XX	UJ nondetects
		1,2,4-Trimethylbenzene	30.6	KC-MW-02 1118	XX	UJ nondetects
		1,1,2-Trichloro-1,2,2-trifluoroethane	25.5	KC-MW-05 1118	XX	UJ nondetects
		1,2-Dichloropropane	21.9	KC-FD-01 1118	XX	UJ nondetects
		1,3,5-Trimethylbenzene	40.4	KC-TB-01 1118	XX	UJ nondetects
		2-Butanone	25.1		XX	UJ nondetects
		2-Hexanone	47.9		XX	UJ nondetects
		4-Methyl-2-pentanone	48.3		XX	UJ nondetects
		Acetone	39.8		XX	UJ nondetects
		Acrolein	29.6		XX	UJ nondetects
		Acrylonitrile	26.0		XX	UJ nondetects
		Bromodichloromethane	22.3		XX	UJ nondetects
		Bromomethane	22.4		XX	UJ nondetects
		cis-1,3-Dichloropropene	27.6		XX	UJ nondetects
		Dibromochloromethane	24.0		XX	UJ nondetects
		Dibromomethane	27.5		XX	UJ nondetects
		Hexachlorobutadiene	36.5		XX	UJ nondetects
		Isopropylbenzene	36.6		XX	UJ nondetects
		n-Butylbenzene	28.4		XX	UJ nondetects
		n-Propylbenzene	36.0		XX	UJ nondetects
		p-Isopropyltoluene	41.9		XX	UJ nondetects
		sec-Butylbenzene	48.5		XX	UJ nondetects
		tert-Butyl alcohol	24.9		XX	UJ nondetects
		tert-Butylbenzene	48.8		XX	UJ nondetects
		trans-1,3-Dichloropropene	34.7		XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,1,2-trichloroethane, 1,2,4-trimethylbenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, 1,2-dichloropropane, 1,3,5-trimethylbenzene, 2-butanone, 2-hexanone, 4-methyl-2-pentanone, acetone, acrolein, acrylonitrile, bromodichloromethane, bromomethane, cis-1,3-dichloropropene, dibromochloromethane, dibromomethane, hexachlorobutadiene, isopropylbenzene, n-butylbenzene, n-propylbenzene, p-isopropyltoluene, sec-butylbenzene, tert-butyl alcohol, tert-butylbenzene, and trans-1,3-dichloropropene results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Blanks

Contamination was not detected in the method blanks.

Contamination was detected in the trip blank sample KC-TB-01 1118 for VOC analysis. The presence of blank contamination indicates that false positives may exist for these compounds in the associated samples. Action Levels (ALs) were established at <2x reporting limits (RL) (for common contaminants) and <RL (for other contaminants) of the concentrations detected. The following table summarizes the contamination detected.

Field Blank ID	Compound	Level Detected	Action Level	Associated Samples
KC-TB-01 1118	cis-1,2-Dichloroethene	7.3 ug/L	RL	KC-MW-01 1118 KC-MW-02 1118 KC-MW-05 1118 KC-FD-01 1118

Sample results were qualified as follows:

- If sample concentration was < the reporting limit (RL) and ≤ the Action Level, qualify the result as a nondetect (U) at the RL.
- If sample concentration was > the RL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.

No samples were qualified since the associated sample results were greater than the action level.

Surrogate Recoveries

The following table lists the surrogate percent recoveries (%R) outside of control limits in the pesticide analysis and the resulting validation actions.

Sample ID	Surrogate	Surrogate %R (Limits)	Affected Compound	Validation Action
KC-FD-01 1118	1,2-Dichloroethane-d4	63.8 (69-130)	All VOC except trans-1,2-Dichloroethene Vinyl chloride cis-1,2-Dichloroethene Trichloroethene	J detects/UJ nondetects

The VOC results except for trans-1,2-dichloroethene, vinyl chloride, cis-1,2-dichloroethene, and trichloroethene may be biased high due to high surrogate percent recoveries. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

MS/MSD Results

MS/MSD analyses were not associated with this samples set. Validation action was not required on this basis.

LCS Results

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the pesticide analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
BK80517-BS1/BSD1	1,1,2-Trichloroethane	75.7 (82-123)	73.9 (82-123)	KC-MW-01 1118	UJ nondetects
	1,2-Dibromoethane	75.9 (83-124)	-	KC-MW-02 1118	UJ nondetects
	cis-1,3-Dichloropropene	78.3 (80-131)	-	KC-MW-05 1118	UJ nondetects
	tert-Butyl alcohol	74.1 (25-162)	15.4 (25-162)	KC-FD-01 1118	UJ nondetects
	trans-1,3-Dichloropropene	14.7 (78-131)	69.4 (78-131)	KC-TB-01 1118	UJ nondetects
	Dibromochloromethane	-	75.6 (80-130)		UJ nondetects
BK80517-BS1/BSD1	Hexachlorobutadiene	161 (67-146)	150 (67-146)	KC-MW-01 1118 KC-MW-02 1118 KC-MW-05 1118 KC-FD-01 1118 KC-TB-01 1118	None

- Within control limits

The 1,1,2-trichloroethane, 1,2-dibromoethane, cis-1,3-dichloropropene, tert-butyl alcohol, trans-1,3-dichloropropene, and dibromochloromethane results may be biased low due to low LCS/LCSD percent recoveries. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Validation action was not required for hexachlorobutadiene due to high LCS/LCSD percent recovery as positive results only are affected and this compound was not detected in the associated samples.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples KC-MW-01 1118 and KC-FD-01 1118 were submitted as the field duplicate pairs with this sample group. The following table summarizes the concentrations and validation actions taken.

Compound	Concentration (ug/L)		RPD
	KC-MW-01 1118	KC-FD-01 1118	
1,1-Dichloroethane	6.4	5.7	12
1,1-Dichloroethene	24	18	29
Benzene	0.40U	0.28	Not comparable
Carbon disulfide	0.40U	0.37	Not comparable
cis-1,2-Dichloroethene	8200	15000	59
Tetrachloroethene	0.40U	0.34	Not comparable
Toluene	0.64	0.44	327
trans-1,2-Dichloroethene	270	300	11
Trichloroethene	8800	15000	52
Vinyl chloride	1400	1500	7

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC analysis. These results were qualified as estimated (J) by the laboratory.

Due to high target compound levels or difficult sample matrix, select samples were analyzed at dilutions. The following table lists the sample dilutions which were performed and the results reported. RLs were elevated accordingly.

Sample	VOC Analysis Reported
KC-MW-01 1118	200-fold dilution due to high analyte levels for cis-1,2-dichloroethene and trichloroethene 20-fold dilution due to high analyte levels for vinyl chloride 2-fold dilution due to high analyte levels for all VOC except cis-1,2-dichloroethene, trichloroethene, and vinyl chloride
KC-FD-01 1118	200-fold dilution due to high analyte levels for cis-1,2-dichloroethene and trichloroethene 20-fold dilution due to high analyte levels for vinyl chloride and trans-1,2-dichloroethene

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

KC-MW-01 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-01 File ID: QV611535.D

Sampled: 11/01/18 15:45 Prepared: 11/10/18 03:58 Analyzed: 11/10/18 09:17

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK80517 Sequence: Y8K1229 Calibration: YK80009 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	2	1.0 U	U
71-55-6	1,1,1-Trichloroethane	2	1.0	U
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 UJ	U
79-00-5	1,1,2-Trichloroethane	2	1.0 UJ	U
75-34-3	1,1-Dichloroethane	2	6.4	D
75-35-4	1,1-Dichloroethylene	2	24	D
87-61-6	1,2,3-Trichlorobenzene	2	1.0 UJ	U
96-18-4	1,2,3-Trichloropropane	2	1.0 U	U
120-82-1	1,2,4-Trichlorobenzene	2	1.0 U	U
95-63-6	1,2,4-Trimethylbenzene	2	1.0 UJ	U
96-12-8	1,2-Dibromo-3-chloropropane	2	1.0 U	U
106-93-4	1,2-Dibromoethane	2	1.0 UJ	U
95-50-1	1,2-Dichlorobenzene	2	1.0 U	U
107-06-2	1,2-Dichloroethane	2	1.0 U	U
78-87-5	1,2-Dichloropropane	2	1.0 UJ	U
108-67-8	1,3,5-Trimethylbenzene	2	1.0 UJ	U
541-73-1	1,3-Dichlorobenzene	2	1.0 U	U
106-46-7	1,4-Dichlorobenzene	2	1.0 U	U
123-91-1	1,4-Dioxane	2	80 UJ	U
78-93-3	2-Butanone	2	1.0 UJ	U
591-78-6	2-Hexanone	2	1.0 UJ	U
108-10-1	4-Methyl-2-pentanone	2	1.0 UJ	U
67-64-1	Acetone	2	4.0 UJ	U
107-02-8	Acrolein	2	1.0 UJ	U
107-13-1	Acrylonitrile	2	1.0 UJ	U
71-43-2	Benzene	2	1.0 U	U
74-97-5	Bromochloromethane	2	1.0 U	U
75-27-4	Bromodichloromethane	2	1.0 UJ	U
75-25-2	Bromoform	2	1.0 U	U
74-83-9	Bromomethane	2	1.0 UJ	U
75-15-0	Carbon disulfide	2	1.0 U	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
10061-01-5	cis-1,3-Dichloropropylene	2	1.0 UJ	U
110-82-7	Cyclohexane	2	1.0 U	U
124-48-1	Dibromochloromethane	2	1.0 UJ	U

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FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

KC-MW-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-01	File ID:	QV611535.D
Sampled:	11/01/18 15:45	Prepared:	11/10/18 03:58	Analyzed:	11/10/18 09:17
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	2	1.0 UJ	U
75-71-8	Dichlorodifluoromethane	2	1.0 U	U
100-41-4	Ethyl Benzene	2	1.0 U	U
87-68-3	Hexachlorobutadiene	2	1.0 UJ	U
98-82-8	Isopropylbenzene	2	1.0 UJ	U
79-20-9	Methyl acetate	2	1.0 U	U
1634-04-4	Methyl tert-butyl ether (MTBE)	2	1.0 U	U
108-87-2	Methylcyclohexane	2	1.0 UJ	U
75-09-2	Methylene chloride	2	4.0 U	U
104-51-8	n-Butylbenzene	2	1.0 UJ	U
103-65-1	n-Propylbenzene	2	1.0 UJ	U
95-47-6	o-Xylene	2	1.0 U	U
179601-23-1	p- & m- Xylenes	2	2.0 U	U
99-87-6	p-Isopropyltoluene	2	1.0 UJ	U
135-98-8	sec-Butylbenzene	2	1.0 UJ	U
100-42-5	Styrene	2	1.0 U	U
75-65-0	tert-Butyl alcohol (TBA)	2	2.0 UJ	U
98-06-6	tert-Butylbenzene	2	1.0 UJ	U
127-18-4	Tetrachloroethylene	2	1.0 U	U
108-88-3	Toluene	2	0.64 J	JD
156-60-5	trans-1,2-Dichloroethylene	2	270	D
10061-02-6	trans-1,3-Dichloropropylene	2	1.0 UJ	U
110-57-6	trans-1,4-dichloro-2-butene	2	1.0 U	U
75-69-4	Trichlorofluoromethane	2	1.0 ↓	U
1330-20-7	Xylenes, Total	2	3.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	6.91	69.1	69 - 130	
SURR: Toluene-d8	10.0	10.4	104	81 - 117	
SURR: p-Bromofluorobenzene	10.0	12.1	121	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	159016	6.078	156683	6.075	
ISTD: Chlorobenzene-d5	602167	9.116	650936	9.116	
ISTD: 1,2-Dichlorobenzene-d4	67798	12.093	91802	12.093	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET
EPA 8260C

KC-MW-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-01RE1	File ID:	QV611606.D
Sampled:	11/01/18 15:45	Prepared:	11/13/18 11:40	Analyzed:	11/13/18 18:09
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80632	Sequence:	Y8K1410	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-01-4	Vinyl Chloride	20	1400	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	12.0	120	69 - 130	
SURR: Toluene-d8	10.0	9.53	95.3	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.7	107	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	180245	6.076	202485	6.076	
ISTD: Chlorobenzene-d5	673846	9.117	831471	9.117	
ISTD: 1,2-Dichlorobenzene-d4	97757	12.096	142351	12.091	

* Values outside of QC limits

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-01 1118

Laboratory:	York Analytical Laboratories, Inc.		SDG:	18K0078	
Client:	Chazen Environmental Services (Poughkeepsie)		Project:	41103.00 KINGSTON CVS	
Matrix:	Water	Laboratory ID:	18K0078-01RE2	File ID:	QV611655.D
Sampled:	11/01/18 15:45	Prepared:	11/14/18 12:33	Analyzed:	11/14/18 15:38
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80724	Sequence:	Y8K1430	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	200	8200	D
79-01-6	Trichloroethylene	200	8800 J	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	D
SURR: Toluene-d8	10.0	11.0	110	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	8.52	85.2	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	235228	6.075	246834	6.078	
ISTD: Chlorobenzene-d5	734762	9.116	786770	9.119	
ISTD: 1,2-Dichlorobenzene-d4	121620	12.096	129414	12.093	

* Values outside of QC limits

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-02 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-02 File ID: QV611536.D

Sampled: 11/01/18 12:19 Prepared: 11/10/18 03:58 Analyzed: 11/10/18 09:44

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK80517 Sequence: Y8K1229 Calibration: YK80009 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50 U	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 UJ	U
79-00-5	1,1,2-Trichloroethane	1	0.50 UJ	U
75-34-3	1,1-Dichloroethane	1	0.31 J	J
75-35-4	1,1-Dichloroethylene	1	0.50 U	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 UJ	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50 UJ	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50 U	U
106-93-4	1,2-Dibromoethane	1	0.50 UJ	U
95-50-1	1,2-Dichlorobenzene	1	0.50 U	U
107-06-2	1,2-Dichloroethane	1	0.50 U	U
78-87-5	1,2-Dichloropropane	1	0.50 UJ	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50 UJ	U
541-73-1	1,3-Dichlorobenzene	1	0.50 U	U
106-46-7	1,4-Dichlorobenzene	1	0.50 U	U
123-91-1	1,4-Dioxane	1	40 UJ	U
78-93-3	2-Butanone	1	0.50 UJ	U
591-78-6	2-Hexanone	1	0.50 UJ	U
108-10-1	4-Methyl-2-pentanone	1	0.50 UJ	U
67-64-1	Acetone	1	2.0 UJ	U
107-02-8	Acrolein	1	0.50 UJ	U
107-13-1	Acrylonitrile	1	0.50 UJ	U
71-43-2	Benzene	1	0.50 U	U
74-97-5	Bromochloromethane	1	0.50 U	U
75-27-4	Bromodichloromethane	1	0.50 UJ	U
75-25-2	Bromoform	1	0.50 U	U
74-83-9	Bromomethane	1	0.50 UJ	U
75-15-0	Carbon disulfide	1	0.24 J	J
56-23-5	Carbon tetrachloride	1	0.50 U	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
156-59-2	cis-1,2-Dichloroethylene	1	13	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50 UJ	U
110-82-7	Cyclohexane	1	0.50 U	U

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FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

KC-MW-02 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-02	File ID:	QV611536.D
Sampled:	11/01/18 12:19	Prepared:	11/10/18 03:58	Analyzed:	11/10/18 09:44
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50 UJ	U
74-95-3	Dibromomethane	1	0.50 UJ	U
75-71-8	Dichlorodifluoromethane	1	0.50 U	U
100-41-4	Ethyl Benzene	1	0.50 U	U
87-68-3	Hexachlorobutadiene	1	0.50 UJ	U
98-82-8	Isopropylbenzene	1	0.50 UJ	U
79-20-9	Methyl acetate	1	0.50 U	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50 U	U
108-87-2	Methylcyclohexane	1	0.50 UJ	U
75-09-2	Methylene chloride	1	2.0 U	U
104-51-8	n-Butylbenzene	1	0.50 UJ	U
103-65-1	n-Propylbenzene	1	0.50 UJ	U
95-47-6	o-Xylene	1	0.50 U	U
179601-23-1	p- & m- Xylenes	1	1.0 U	U
99-87-6	p-Isopropyltoluene	1	0.50 UJ	U
135-98-8	sec-Butylbenzene	1	0.50 UJ	U
100-42-5	Styrene	1	0.50 U	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0 UJ	U
98-06-6	tert-Butylbenzene	1	0.50 U	U
127-18-4	Tetrachloroethylene	1	0.50 U	U
108-88-3	Toluene	1	0.50 U	U
156-60-5	trans-1,2-Dichloroethylene	1	0.36 J	J
10061-02-6	trans-1,3-Dichloropropylene	1	0.50 UJ	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50 U	U
79-01-6	Trichloroethylene	1	6.0 J	
75-69-4	Trichlorofluoromethane	1	0.50 U	U
75-01-4	Vinyl Chloride	1	2.7	
1330-20-7	Xylenes, Total	1	1.5 U	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	7.08	70.8	69 - 130	
SURR: Toluene-d8	10.0	10.3	103	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.8	118	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	136471	6.075	156683	6.075	
ISTD: Chlorobenzene-d5	522150	9.116	650936	9.116	
ISTD: 1,2-Dichlorobenzene-d4	63442	12.096	91802	12.093	

* Values outside of QC limits

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FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

KC-MW-05 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-03 File ID: QV611537.D

Sampled: 11/01/18 11:00 Prepared: 11/10/18 03:58 Analyzed: 11/10/18 10:10

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK80517 Sequence: Y8K1229 Calibration: YK80009 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50 U	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 UJ	U
79-00-5	1,1,2-Trichloroethane	1	0.50 UJ	U
75-34-3	1,1-Dichloroethane	1	0.41 J	J
75-35-4	1,1-Dichloroethylene	1	0.46 J	J
87-61-6	1,2,3-Trichlorobenzene	1	0.50 U	U
96-18-4	1,2,3-Trichloropropane	1	0.50 U	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50 UJ	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50 UJ	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50 U	U
106-93-4	1,2-Dibromoethane	1	0.50 UJ	U
95-50-1	1,2-Dichlorobenzene	1	0.50 U	U
107-06-2	1,2-Dichloroethane	1	0.50 U	U
78-87-5	1,2-Dichloropropane	1	0.50 UJ	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50 UJ	U
541-73-1	1,3-Dichlorobenzene	1	0.50 U	U
106-46-7	1,4-Dichlorobenzene	1	0.50 U	U
123-91-1	1,4-Dioxane	1	40 UJ	U
78-93-3	2-Butanone	1	0.50 UJ	U
591-78-6	2-Hexanone	1	0.50 UJ	U
108-10-1	4-Methyl-2-pentanone	1	0.50 UJ	U
67-64-1	Acetone	1	2.0 UJ	U
107-02-8	Acrolein	1	0.50 UJ	U
107-13-1	Acrylonitrile	1	0.50 UJ	U
71-43-2	Benzene	1	0.50 U	U
74-97-5	Bromochloromethane	1	0.50 U	U
75-27-4	Bromodichloromethane	1	0.50 UJ	U
75-25-2	Bromoform	1	0.50 U	U
74-83-9	Bromomethane	1	0.50 UJ	U
75-15-0	Carbon disulfide	1	0.50 U	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	1.1	
156-59-2	cis-1,2-Dichloroethylene	1	26	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50 UJ	U
110-82-7	Cyclohexane	1	0.50 U	U

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-05 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-03	File ID:	QV611537.D
Sampled:	11/01/18 11:00	Prepared:	11/10/18 03:58	Analyzed:	11/10/18 10:10
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50 UJ	U
74-95-3	Dibromomethane	1	0.50 UJ	U
75-71-8	Dichlorodifluoromethane	1	0.50 U	U
100-41-4	Ethyl Benzene	1	0.50 U	U
87-68-3	Hexachlorobutadiene	1	0.50 UJ	U
98-82-8	Isopropylbenzene	1	0.50 UJ	U
79-20-9	Methyl acetate	1	0.50 U	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50 U	U
108-87-2	Methylcyclohexane	1	0.50 UJ	U
75-09-2	Methylene chloride	1	2.0 U	U
104-51-8	n-Butylbenzene	1	0.50 UJ	U
103-65-1	n-Propylbenzene	1	0.50 UJ	U
95-47-6	o-Xylene	1	0.50 U	U
179601-23-1	p- & m- Xylenes	1	1.0 U	U
99-87-6	p-Isopropyltoluene	1	0.50 UJ	U
135-98-8	sec-Butylbenzene	1	0.50 UJ	U
100-42-5	Styrene	1	0.50 U	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0 UJ	U
98-06-6	tert-Butylbenzene	1	0.50 U	U
127-18-4	Tetrachloroethylene	1	0.50 U	U
108-88-3	Toluene	1	0.50 U	U
156-60-5	trans-1,2-Dichloroethylene	1	0.47 J	J
10061-02-6	trans-1,3-Dichloropropylene	1	0.50 UJ	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50 U	U
79-01-6	Trichloroethylene	1	70 J	
75-69-4	Trichlorofluoromethane	1	0.50 U	U
75-01-4	Vinyl Chloride	1	0.30 J	J
1330-20-7	Xylenes, Total	1	1.5 U	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	8.08	80.8	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	12.0	120	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	138715	6.076	156683	6.075	
ISTD: Chlorobenzene-d5	539696	9.119	650936	9.116	
ISTD: 1,2-Dichlorobenzene-d4	65027	12.094	91802	12.093	

* Values outside of QC limits

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FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

KC-FD-01 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-04 File ID: QV611538.D

Sampled: 11/01/18 11:00 Prepared: 11/10/18 03:58 Analyzed: 11/10/18 10:37

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK80517 Sequence: Y8K1229 Calibration: YK80009 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50 UJ	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	5.7 J	
75-35-4	1,1-Dichloroethylene	1	18 J	
87-61-6	1,2,3-Trichlorobenzene	1	0.50 UJ	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
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.28 J	J
74-97-5	Bromochloromethane	1	0.50 UJ	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	0.37 J	J
56-23-5	Carbon tetrachloride	1	0.50 UJ	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
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U

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Initials: CR

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

KC-FD-01 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-04 File ID: QV611538.D

Sampled: 11/01/18 11:00 Prepared: 11/10/18 03:58 Analyzed: 11/10/18 10:37

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK80517 Sequence: Y8K1229 Calibration: YK80009 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	1	0.50	UJ
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
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.34	J
108-88-3	Toluene	1	0.44	J
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	UJ
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
75-69-4	Trichlorofluoromethane	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
SURR: 1,2-Dichloroethane-d4	10.0	6.38	63.8	69 - 130	*
SURR: Toluene-d8	10.0	11.1	111	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.2	112	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	160402	6.081	156683	6.075	
ISTD: Chlorobenzene-d5	552809	9.119	650936	9.116	
ISTD: 1,2-Dichlorobenzene-d4	62509	12.094	91802	12.093	

* Values outside of QC limits

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Initials: CR

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-FD-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-04RE1	File ID:	QV611607.D
Sampled:	11/01/18 11:00	Prepared:	11/13/18 11:40	Analyzed:	11/13/18 18:35
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80632	Sequence:	Y8K1410	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-60-5	trans-1,2-Dichloroethylene	20	300	D
75-01-4	Vinyl Chloride	20	1500	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	12.5	125	69 - 130	
SURR: Toluene-d8	10.0	9.51	95.1	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.3	103	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	124114	6.078	202485	6.076	
ISTD: Chlorobenzene-d5	465560	9.119	831471	9.117	
ISTD: 1,2-Dichlorobenzene-d4	70861	12.099	142351	12.091	*

* Values outside of QC limits

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Initials: CR

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-FD-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-04RE2	File ID:	QV611656.D
Sampled:	11/01/18 11:00	Prepared:	11/14/18 12:33	Analyzed:	11/14/18 16:04
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80724	Sequence:	Y8K1430	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	200	15000	D
79-01-6	Trichloroethylene	200	15000 J	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.9	109	69 - 130	D
SURR: Toluene-d8	10.0	10.9	109	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	8.50	85.0	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	231138	6.078	246834	6.078	
ISTD: Chlorobenzene-d5	722053	9.119	786770	9.119	
ISTD: 1,2-Dichlorobenzene-d4	117796	12.094	129414	12.093	

* Values outside of QC limits

FEB 11 2019

Initials: CR

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

KC-TB-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-05	File ID:	QV611539.D
Sampled:	11/01/18 09:45	Prepared:	11/10/18 03:58	Analyzed:	11/10/18 11:03
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50 U	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 UJ	U
79-00-5	1,1,2-Trichloroethane	1	0.50 UJ	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	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 UJ	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50 UJ	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50 U	U
106-93-4	1,2-Dibromoethane	1	0.50 UJ	U
95-50-1	1,2-Dichlorobenzene	1	0.50 U	U
107-06-2	1,2-Dichloroethane	1	0.50 U	U
78-87-5	1,2-Dichloropropane	1	0.50 UJ	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50 UJ	U
541-73-1	1,3-Dichlorobenzene	1	0.50 U	U
106-46-7	1,4-Dichlorobenzene	1	0.50 U	U
123-91-1	1,4-Dioxane	1	40 UJ	U
78-93-3	2-Butanone	1	0.50 UJ	U
591-78-6	2-Hexanone	1	0.50 UJ	U
108-10-1	4-Methyl-2-pentanone	1	0.50 UJ	U
67-64-1	Acetone	1	2.0 UJ	U
107-02-8	Acrolein	1	0.50 UJ	U
107-13-1	Acrylonitrile	1	0.50 UJ	U
71-43-2	Benzene	1	0.50 U	U
74-97-5	Bromochloromethane	1	0.50 U	U
75-27-4	Bromodichloromethane	1	0.50 UJ	U
75-25-2	Bromoform	1	0.50 U	U
74-83-9	Bromomethane	1	0.50 UJ	U
75-15-0	Carbon disulfide	1	0.50 U	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
156-59-2	cis-1,2-Dichloroethylene	1	7.3	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50 UJ	U
110-82-7	Cyclohexane	1	0.50 U	U

FEB 11 2019

Initials: CR

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

KC-TB-01 1118

Laboratory:	York Analytical Laboratories, Inc.			SDG:	18K0078
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	18K0078-05	File ID:	QV611539.D
Sampled:	11/01/18 09:45	Prepared:	11/10/18 03:58	Analyzed:	11/10/18 11:03
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK80517	Sequence:	Y8K1229	Calibration:	YK80009
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50 UJ	U
74-95-3	Dibromomethane	1	0.50 UJ	U
75-71-8	Dichlorodifluoromethane	1	0.50 U	U
100-41-4	Ethyl Benzene	1	0.50 U	U
87-68-3	Hexachlorobutadiene	1	0.50 UJ	U
98-82-8	Isopropylbenzene	1	0.50 UJ	U
79-20-9	Methyl acetate	1	0.50 U	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50 U	U
108-87-2	Methylcyclohexane	1	0.50 UJ	U
75-09-2	Methylene chloride	1	2.0 U	U
104-51-8	n-Butylbenzene	1	0.50 UJ	U
103-65-1	n-Propylbenzene	1	0.50 UJ	U
95-47-6	o-Xylene	1	0.50 U	U
179601-23-1	p- & m- Xylenes	1	1.0 U	U
99-87-6	p-Isopropyltoluene	1	0.50 UJ	U
135-98-8	sec-Butylbenzene	1	0.50 UJ	U
100-42-5	Styrene	1	0.50 U	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0 UJ	U
98-06-6	tert-Butylbenzene	1	0.50 U	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	J
10061-02-6	trans-1,3-Dichloropropylene	1	0.50 UJ	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50 U	U
79-01-6	Trichloroethylene	1	6.1 J	
75-69-4	Trichlorofluoromethane	1	0.50 U	U
75-01-4	Vinyl Chloride	1	0.65	
1330-20-7	Xylenes, Total	1	1.5 U	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	6.97	69.7	69 - 130	
SURR: Toluene-d8	10.0	9.93	99.3	81 - 117	
SURR: p-Bromofluorobenzene	10.0	12.0	120	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	138746	6.075	156683	6.075	
ISTD: Chlorobenzene-d5	556403	9.116	650936	9.116	
ISTD: 1,2-Dichlorobenzene-d4	68342	12.093	91802	12.093	

* Values outside of QC limits

FEB 11 2019

Initials: CR

LDC #: 44246A1 **VALIDATION COMPLETENESS WORKSHEET** Date: 02/07/19
SDG #: 18K0078 Category B Page: 1 of 1
Laboratory: York Analytical Laboratories, Inc. Reviewer: SW
2nd Reviewer:

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	SW/SW	ICAL ≤ 20% ICV ≤ 30%
IV.	Continuing calibration	SW	CCV ≤ 20%
V.	Laboratory Blanks	A	
VI.	Field blanks	SW	TB = 5
VII.	Surrogate spikes	SW	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	SW	LCS/D
X.	Field duplicates	SW	D = 1/4
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Result < RL > MDL = J dets
XIII.	Target compound identification	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
SW = See worksheet FB = Field blank EB = Equipment blank

	Client ID			Lab ID	Matrix	Date
1	KC-MW-01 1118	D	(200X - QQQ,S) (20X - C) (2X - All others)	18K0078-01	Water	11/01/18
2	KC-MW-02 1118			18K0078-02	Water	11/01/18
3	KC-MW-05 1118			18K0078-03	Water	11/01/18
4	KC-FD-01 1118	D	(200X - QQQ,S) (20X - C, PPP) (2X - All others)	18K0078-04	Water	11/01/18
5	KC-TB-01 1118			18K0078-05	Water	11/01/18
6						
7						
8						

Notes:

1	BK80517-BLK1						
2	BK80632-	(C, PPP)					
3	BK80724-	(QQQ,S)					

LDC #: 44246 A1

VALIDATION FINDINGS CHECKLIST

Reviewer: JVG
2nd Reviewer:

Method: Volatiles (EPA SW 846 Method 8260C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% and relative response factors (RRF) within method criteria?		✓		
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 30%?		✓		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target compounds detected in the field blanks?	✓			
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓	✓		
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?		✓		
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?		✓		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	

LDC #: 44246 A1

VALIDATION FINDINGS CHECKLIST

Reviewer: JVG
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed per analytical batch in this SDG?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	✓			
Were target compounds detected in the field duplicates?	✓			
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2.
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2.
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2.
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2.
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2.
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2.
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2.
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2.
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2.
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2.
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2.
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2.
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2.
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2.
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane	O2.
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2.
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2.
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane	R2.
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1.	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.	Z2.

LDC #: 44296 A1

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer: JVG
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Were percent relative standard deviations (%RSD) ≤ 20% and relative response factors (RRF) within the method criteria?
Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation? NA
Y N N/A Did the initial calibration meet the acceptance criteria?

#	Date	Standard ID	Compound	Finding %RSD (Limit: <20.0)	Finding RRF (Limit)	Associated Samples	Qualifications
	11/07/18	ICAL-QVOA6	P	21.46757		All (ND + DH)	J/UJ/A
			B	28.32285			
			RR	20.04867			
			TTTT	25.70785			
			W	20.71088			
			S	21.14182			

Note: * = Ave RRF failed method criteria but within validation criteria

LDC #: 44246A1

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

Reviewer: JVG
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?

Y N N/A Were all %D within the validation criteria of ≤30 %D?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30.0%)	Associated Samples	Qualifications
	11/08/18	QV611409	NNN	30.8	All (ND)	J/UJ/A
			HHHH	61.6		
			FFFF	79.9		
			B	40.3		
			EEE	32.4		

LDC #: 44246A1

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: JVG
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Y (N) N/A Were percent differences (%D) ≤20 % and relative response factors (RRF) within the method criteria?

#	Date	Standard ID	Compound	Finding %D (Limit: <20.0%)	Finding RRF (Limit)	Associated Samples	Qualifications
	11/10/18	QV611524	U	26.7		All MB 1 (MD)	J/UJ/A
			DDD	30.6			
			TT	25.5			
			Q	21.9			
			AAA	40.4			
			M	25.1			
			Z	47.9			
			Y	48.3			
			F	39.8			
			FFFF	29.6			
			GGGG	26.0			
			P	22.3			
			B	22.4			
			R	27.6			
			T	24.0			
			RR	27.5			
			LLL	36.5			
			VV	36.6			
			III	28.4			
			YY	36.0			
			GGG	41.9			
			EEE	48.5			
			ZZZ	24.9			
			CCC	48.8			
			W	34.7			

Note: * = Ave RRF failed method criteria but within validation criteria

LDC #: 49246 A1

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: JVG
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

(Y) N N/A Were field blanks identified in this SDG?
(Y) N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L
Sampling date: 11/01/18
Field blank type: (circle one) Field Blank / Rinsate / (Trip Blank) / Other: Associated Samples: All except 5 (+ TB)

Compound	Blank ID	Sample Identification								
	5									
QQQ	7.3									

TRL

Blank units: **Associated sample units:**
Sampling date:
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: Associated Samples:

Compound	Blank ID	Sample Identification								

Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 44246 A1

VALIDATION FINDINGS WORKSHEET
Surrogate Spikes

Page: 1 of 1
Reviewer: JVG
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

N N/A Were all surrogate %R within QC limits?

N N/A If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R out of outside of criteria?

#	Date	Sample ID	Surrogate	%Recovery (Limits)	Qualifications
		4 (MD + Det)	DCE	63.8 (69-130)	J/nJ/A
				( )	(qual all except PPP, C, QQQ, S)
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
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				( )	
				( )	
				( )	
				( )	
				( )	

(TOL) = Toluene-d8
(BFB) = Bromofluorobenzene
(DCE) = 1,2-Dichloroethane-d4
(DFM) = Dibromofluoromethane

LDC #: 44246 A1

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: JVG
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

[✓ Y] N N/A Was a LCS required?

Y [✓ N] N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	BK80517-BS1/BSD1	U	75.7 (82-123)	73.9 (82-123)	( )	All, MB1 (ND)	J/UJ/P
		TT	75.9 (83-124)	( )	( )		
		R	78.3 (80-131)	( )	( )		
		LLL	161 (67-146)	150 (67-146)	( )		J dets/P
		ZZZ	14.7 (25-162)	15.4 (25-162)	( )		J/UJ/P
		W	74.1 (78-131)	69.4 (78-131)	( )		
		T	( )	75.6 (80-130)	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC#: 44246A1

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: JVG
2nd Reviewer:

METHOD: GCMS VOA (EPA SW 846 Method 8260C)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD
	1	4	
I	6.4	5.7	12
H	24	18	29
V	0.40U	0.28	NC
G	0.40U	0.37	NC
QQQ	8200	15000	59
AA	0.40U	0.34	NC
CC	0.64	0.44	37
PPP	270	300	11
S	8800	15000	52
C	1400	1500	7

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LDC #: 44246A1

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: JVG
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$ — A_x = Area of Compound — A_{is} = Area of associated internal standard

average RRF = sum of the RRFs/number of standards — C_x = Concentration of compound, — C_{is} = Concentration of internal standard

%RSD = 100 * (S/X) — S= Standard deviation of the RRFs — X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL QVOA6	11/7/2018	cis-1,2-DCE (FBZ)	1.52782	1.52782	1.61758	1.61758	10.26	10.26
			Trichloroethene (CBZ)	0.30358	0.30365	0.33439	0.33439	21.14	21.14
			1,3,5-TMB (DCB)	4.69056	4.69054	4.08482	4.08482	15.19	15.19

LDC#: 44246A1

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Calculation Verification

Reviewer: JVG
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = (Ax)(Cis)/(Ais)(Cx)

Where:
ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
Ax = Area of compound
Cx = Concentration of compound,
Ais = Area of associated internal standard
Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CCV)	Recalculated RRF (CCV)	Reported % D	Recalculated %D
1	QV611524 QVOA6	11/10/18	cis-1,2-DCE (FBZ)	1.617579	1.444318	1.444318	10.7	10.7
			Trichloroethene (CBZ)	0.334392	0.292476	0.292476	12.5	12.5
			1,3,5-TMB (DCB)	4.084824	5.735049	5.735049	40.4	40.4
2	QV611594 QVOA6	11/13/18	cis-1,2-DCE (FBZ)	1.617579	1.806292	1.806292	11.7	11.7
			Trichloroethene (CBZ)	0.334392	0.322987	0.322987	3.4	3.4
3	QV611650 QVOA6	11/14/18	cis-1,2-DCE (FBZ)	1.617579	1.608417	1.608417	0.6	0.6
			Trichloroethene (CBZ)	0.334392	0.387304	0.387304	15.8	15.8

LDC #: 44246A1

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: JVG
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4	10.0	6.91	69.1	69.1	0
Toluene-d8	↓	10.4	104	104	↓
Bromofluorobenzene	↓	12.1	121	121	↓

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 49246 A1

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: JVG
2nd Reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration; SA = Spike added

RPD = I LCSC - LCSDC I * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: BK80517-BS1/BSD1

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	10.0	10.0	10.30	9.88	103	103	98.8	98.8	4.16	4.16
Trichloroethene			9.51	8.78	95	95	87.8	87.8	7.98	7.98
Benzene			10.85	10.62	108	108	106	106	2.14	2.14
Toluene			9.65	8.98	96.5	96.5	89.8	89.8	7.19	7.19
Chlorobenzene			10.10	9.48	101	101	99.8	94.8	6.33	6.33

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 94246 A1

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: JVG
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 1, QQQ:

Conc. = $\frac{(1560244)(10.0)(200)}{(235228)(1.61758)(\quad)(\quad)}$

= 8201 ug/L

#	Sample ID	Compound	Reported Concentration (ug/L)	Calculated Concentration ( )	Qualification
			8200		

Site: Former Utility Platers/Kingston Diagnostics
Laboratory: York Analytical Laboratories, Inc.
Report No.: 18K0078
Reviewer: Jennifer Beyer and Christina Rink/Laboratory Data Consultants for Chazen Companies – Troy, NY
Date: February 11, 2019

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
KC-MW-01 1118	18K0078-01	Metals
KC-MW-02 1118	18K0078-02	Metals
KC-MW-05 1118	18K0078-03	Metals
KC-FD-01 1118	18K0078-04	Metals

Associated QC Samples(s):
Field/Trip Blanks: None Associated
Field Duplicate pair: KC-MW-01 1118 and KC-FD-01 1118

The above-listed water samples were collected on November 1, 2018 and were analyzed for metals by SW-846 methods 6010D/7473. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program,* SOP HW-2a/c, Revision 15 (December 2012) and the USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review,* EPA 540-R-2017-001 (January 2017), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- Instrument Calibration
- Contract Required Quantitation Limit (CRQL) Standard Recoveries
- Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
- Field Duplicate Results
- Laboratory Control Sample (LCS) Results
- Serial Dilution Results
- Detection Limits Results
- Sample Quantitation Results

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

Analytes that did not meet criteria are summarized in the following table.

Date	Calibration ID	Analyte	%R (Limits)	Associated Samples	Validation Action
11/07/18	ICV (10:29)	Selenium	111 (90-110)	KC-MW-01 1118 KC-MW-02 1118 KC-MW-05 1118 KC-FD-01 1118	J detects

The selenium results may be biased high due to high calibration percent recovery. The results can be used for project objectives as estimated values (J) which may have a minor impact on the data usability.

CRQL Standard Recoveries

Analytes that did not meet criteria are summarized in the following table.

Date	Calibration ID	Analyte	%R (Limits)	Associated Samples	Validation Action
11/07/18	CRL (10:34)	Lead	215 (70-130)	KC-MW-01 1118 KC-MW-05 1118	None
11/07/18	CRL (10:34)	Selenium	59.1 (70-130)	KC-MW-02 1118 KC-FD-01 1118	J detects

Validation action was not required for lead due to high CRQL percent recovery as positive results only are affected and this analyte was not detected in the associated samples.

The selenium results for the samples listed above may be biased low due to low CRQL percent recovery. The results can be used for project objectives as estimated values (J) which may have a minor impact on the data usability.

Although the lead and selenium CRQL standards were outside validation limits, no action was taken since the affected samples is greater than two times the reporting limit (RL).

Blank Results

Contamination was not detected in the laboratory blank samples.

A field blank was not associated with this sample set. Validation action was not required on this basis.

ICP ICS Results

Analytes were within control limits in the ICSA and ICSAB analyses.

MS/MSD Results

MS/MSD analyses were not associated with this sample set. Validation action was not required on this basis.

Laboratory Duplicate Results

Laboratory duplicates were not associated with this sample set. Validation action was not required on this basis.

Field Duplicate Results

Samples KC-MW-01 1118 and KC-FD-01 1118 were submitted as the field duplicate pair with this sample group. The following table summarizes the concentrations and validation actions taken.

Analyte	Concentration (mg/L)		RPD
	KC-MW-01 1118	KC-FD-01 1118	
Cadmium	0.006	0.008	29
Chromium	0.008	0.006U	Not comparable
Copper	0.022U	0.026	Not comparable
Lead	0.006U	0.013	Not comparable
Nickel	0.178	0.182	2
Selenium	0.051	0.046	10
Zinc	0.028U	0.036	Not comparable

LCS Results

All criteria were met.

Serial Dilution Results

A serial dilution analysis was not associated with this sample set. Validation action was not required on this basis.

Detection Limits Results

No results were reported below the reporting limit (RL) and above the method detection limit (MDL) in the metals analyses.

Dilutions were not required for metals analyses.

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-01 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-01 File ID: qbi110718aRE_1-040

Sampled: 11/01/18 15:45 Prepared: 11/06/18 18:04 Analyzed: 11/07/18 11:58

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK80320 Sequence: Y8K0716 Calibration: 11/07/18 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028 U	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.006	1		EPA 6010D
7440-47-3	Chromium	0.008	1		EPA 6010D
7440-50-8	Copper	0.022 J	1	U	EPA 6010D
7439-92-1	Lead	0.006 J	1	U	EPA 6010D
7440-02-0	Nickel	0.178	1		EPA 6010D
7782-49-2	Selenium	0.051 J	1		EPA 6010D
7440-22-4	Silver	0.006 U	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.028	1	U	EPA 6010D

FEB 11 2019

Initials: CR

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-02 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-02 File ID: qbi110718aRE_1-041

Sampled: 11/01/18 12:19 Prepared: 11/06/18 18:04 Analyzed: 11/07/18 12:00

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK80320 Sequence: Y8K0716 Calibration: 11/07/18 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028 U	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.003	1	U	EPA 6010D
7440-47-3	Chromium	0.007	1		EPA 6010D
7440-50-8	Copper	0.030	1		EPA 6010D
7439-92-1	Lead	0.021	1		EPA 6010D
7440-02-0	Nickel	0.019	1		EPA 6010D
7782-49-2	Selenium	0.056 J	1		EPA 6010D
7440-22-4	Silver	0.006 U	1	U	EPA 6010D
7440-28-0	Thallium	0.028 U	1	U	EPA 6010D
7440-66-6	Zinc	0.047	1		EPA 6010D

FEB 1 1 2019

Initials: CR

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-05 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-03 File ID: qbi110718aRE_1-042

Sampled: 11/01/18 11:00 Prepared: 11/06/18 18:04 Analyzed: 11/07/18 12:03

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK80320 Sequence: Y8K0716 Calibration: 11/07/18 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.003	1	U	EPA 6010D
7440-47-3	Chromium	0.006	1	U	EPA 6010D
7440-50-8	Copper	0.022	1	U	EPA 6010D
7439-92-1	Lead	0.006	1	U	EPA 6010D
7440-02-0	Nickel	0.011	1	U	EPA 6010D
7782-49-2	Selenium	0.035	1		EPA 6010D
7440-22-4	Silver	0.006	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.028	1	U	EPA 6010D

FEB 11 2019

Initials: CR

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-FD-01 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-04 File ID: qbi110718aRE_1-045

Sampled: 11/01/18 11:00 Prepared: 11/06/18 18:04 Analyzed: 11/07/18 12:11

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK80320 Sequence: Y8K0716 Calibration: 11/07/18 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028 J	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.008	1		EPA 6010D
7440-47-3	Chromium	0.006 J	1	U	EPA 6010D
7440-50-8	Copper	0.026	1		EPA 6010D
7439-92-1	Lead	0.013	1		EPA 6010D
7440-02-0	Nickel	0.182	1		EPA 6010D
7782-49-2	Selenium	0.046 J	1		EPA 6010D
7440-22-4	Silver	0.006 J	1	U	EPA 6010D
7440-28-0	Thallium	0.028 J	1	U	EPA 6010D
7440-66-6	Zinc	0.036	1		EPA 6010D

FEB 11 2019

Initials: CR

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-01 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-01 File ID: QBHGDMA80-01 110718A-034

Sampled: 11/01/18 15:45 Prepared: 11/07/18 12:40 Analyzed: 11/07/18 17:12

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK80385 Sequence: Y8K0737 Calibration: 11/07/18 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020 J	1	U	EPA 7473

FEB 1 1 2019

Initials: CR

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-02 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-02 File ID: QBHGDMA80-01 110718A-035

Sampled: 11/01/18 12:19 Prepared: 11/07/18 12:40 Analyzed: 11/07/18 17:22

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK80385 Sequence: Y8K0737 Calibration: 11/07/18 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FEB 11 2019

Initials:

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-05 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-03 File ID: QBHGDMA80-01 110718A-036

Sampled: 11/01/18 11:00 Prepared: 11/07/18 12:40 Analyzed: 11/07/18 17:33

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK80385 Sequence: Y8K0737 Calibration: 11/07/18 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FEB 1 1 2019

Initials: CR

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-FD-01 1118

Laboratory: York Analytical Laboratories, Inc. SDG: 18K0078

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 18K0078-04 File ID: QBHGDMA80-01 110718A-037

Sampled: 11/01/18 11:00 Prepared: 11/07/18 12:40 Analyzed: 11/07/18 17:44

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK80385 Sequence: Y8K0737 Calibration: 11/07/18 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020 U	1	U	EPA 7473

FEB 1 1 2019

Initials: CR

LDC #: 44246A4b

SDG #: 18K0078

Laboratory: York Analytical Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 2/6/19

Page: 1 of 1

Reviewer: JS

2nd Reviewer:

METHOD: Metals (EPA SW 846 Method 6010D/7473)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	~~A~~/~~A~~	
II.	Instrument Calibration	SW	
III.	ICP Interference Check Sample (ICS) Analysis	~~A~~	
IV.	Laboratory Blanks	~~A~~	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	a.s.
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	~~A~~	LCS / SRM
X.	Field Duplicates	SW	(1,4)
XI.	Sample Result Verification	~~A~~	ND < RL
XII.	Overall Assessment of Data	~~A~~	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	KC-MW-01 1118	18K0078-01	Water	11/01/18
2	KC-MW-02 1118	18K0078-02	Water	11/01/18
3	KC-MW-05 1118	18K0078-03	Water	11/01/18
4	KC-FD-01 1118	18K0078-04	Water	11/01/18
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				

Notes:

LDC #: 44246A46

VALIDATION FINDINGS CHECKLIST

Reviewer: JB
2nd Reviewer:

Method: Metals (EPA SW 846 Method 6010/6020/7000)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?			✓	
Were %RSD of isotopes in the tuning solution ≤5%?			✓	
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?		✓		
Were the low standard checks within 70-130%		✓		
Were all initial calibration correlation coefficients within limits as specified by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.			✓	
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.			✓	
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?			✓	
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?			✓	
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XII. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XIII. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 44246A4b

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: JB
2nd reviewer:

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-4	W	Al, [✓ Sb], [✓ As], Ba, [✓ Be], [✓ Cd], Ca, [✓ Cr], Co, [✓ Cu], Fe, [✓ Pb], Mg, Mn, [✓ Hg], [✓ Ni], K, [✓ Se], [✓ Ag], Na, [✓ Tl], V, [✓ Zn], Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___

Analysis Method

ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U

Comments: Mercury by CVAA if performed

LDC #: 44246A4b
SDG # 18K0078

VALIDATION FINDINGS WORKSHEET
Calibration

Reviewer: JB
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all instruments calibrated daily, each set-up time, and were the proper number of standards used?

Y N N/A Were all initial and continuing calibration verification percent recoveries (%R) within the control limits of 90-110% for all analytes except mercury (80-120%) and cyanide (85-115%)?

LEVEL IV ONLY:

X N N/A Was a midrange cyanide standard distilled?

Y N N/A Are all correlation coefficients ≥0.995?

Y N N/A Were recalculated results acceptable? See Level IV Initial and Continuing Calibration Recalculation Worksheet for recalculations.

#	Date	Calibration ID	Analyte	%R	Associated Samples	Qualification of Data
	11/07/18	ICV (10:29)	Se	111 (90-110)	All	√det /P (Det)
	11/07/18	CRL (10:34)	Pb	215 (70-130)	1, 3	√det / P (ND)
			Se	59.1 (70-130)	3, 4	J / UJ / P (Det)
			Pb	215 (70-130)	2, 4	ND Qual > 2 x RL
			Se	59.1 (70-130)	1, 2,	ND Qual > 2 x RL

Comments:

LDC#: 44246A4b

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: VB
2nd Reviewer:

METHOD: Metals (EPA Method 6010D/7000)

Analyte	Concentration (mg/L)		RPD	
	1	4		
Cadmium	0.006	0.008	29	
Chromium	0.008	0.006U	~~29~~ NC	
Copper	0.022U	0.026	~~17~~ NC	
Lead	0.006U	0.013	~~74~~ NC	
Nickel	0.178	0.182	2	
Selenium	0.051	0.046	10	
Zinc	0.028U	0.036	~~25~~ NC	

LDC #: 44246A46

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: JB
2nd Reviewer:

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
CRL	ICP (Low Level calibration) 10:34	Be	0.00052 mg/L	0.000500 mg/L	104%	105%	Y
	ICP/MS (Low Level calibration)						
ICV	ICP (Initial calibration) 10:29	Sb	0.2709 mg/L	0.250 mg/L	108%	109%	Y
	ICP/MS (Initial calibration)						
ICV	CVAA (Initial calibration)	Hg	106.4454 ug/kg	100.000 ug/kg	106.4%	106.4%	Y
CCV_4	ICP (Continuing calibration) 12:06	Ag	1.281 mg/L	1.25 mg/L	102%	102%	Y
	ICP/MS (Continuing calibration)						
CCV_5	CVAA (Continuing calibration)	Hg	9.9848 ug/L	0.0100 mg/L	99.8%	99.8%	Y

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated /Found %RSD / X%	Acceptable (Y/N)
	Mass Axis			± 0.1 AMU	NA	
	%RSD			≤ 5% RSD		

Comments:

LDC #: 44246A46

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: JB
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
IFB	ICP interference check	Pb	0.9485 mg/L	1.00 mg/L	94.9%	94.9%	Y
LCS (SRM)	Laboratory control sample	Hg	9.5615 ug/L	0.0100 mg/L	95.6%	95.6%	Y
	Matrix spike		(SSR-SR)				
	Duplicate						
	Post digestion spike						
	ICP serial dilution						

Comments: _____

LDC #: 44246A46
SDG #: 18K0078

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: JB
2nd reviewer:

METHOD: Trace metals (EPA CLP SOW ILM02.1)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Cu #2 were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$Cu\ \#2 = \frac{0.0268\ mg/L \times 50mL}{45mL} = 0.029777\ mg/L$

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
	1	Cd	0.006	0.006	Y
	2	Cu	0.030	0.030	Y
	3	Se	0.035	0.035	Y
	4	Zn	0.036	0.036	Y

Note:

LDC #: 44246

EDD POPULATION COMPLETENESS WORKSHEET

Date: 2/11/19
Page: 1 of 1
2nd Reviewer:

The LDC job number listed above was entered by 96
Entered from Body or Summary

	EDD Process		Comments/Action
I.	EDD Completeness	-	
Ia.	- All methods present?	y	
Ib.	- All samples present/match report?	y	
Ic.	- All reported analytes present?	y	
Id.	- 10% or 100% verification of EDD?	y	
II.	EDD Preparation/Entry	-	
IIa.	- Carryover U/J?	y	
IIb.	- Reason Codes used? If so, note which codes.	~~y~~ N	
IIc.	- Additional Information (QC Level, Validator, Validated Y/N, etc.)	y	
III.	Reasonableness Checks	-	
IIIa.	- Do all qualified ND results have ND qualifier (e.g. UJ)?	y	
IIIb.	- Do all qualified detect results have detect qualifier (e.g. J)?	y	
IIIc.	- If reason codes are used, do all qualified results have reason code field populated, and vice versa?	—	
IIId.	-Does the detect flag require changing for blank qualifier? If so, are all U results marked ND?	y/NA	
IIIe.	- Do blank concentrations in report match EDD where data was qualified due to blank contamination?	NA	
IIIf.	- Were multiple results reported due to dilutions/reanalysis? If so, were results qualified appropriately?	N/NA	
IIIg.	-Are there any discrepancies between the data packet and the EDD?	N	

Notes: *see discrepancy sheet

Table of Contents for York SDG 19C1266

Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Eric Orlowski

Report Date: 04/12/2019
Client Project ID: 41103.00 KINGSTON CVS
York Project (SDG) No.: 19C1266

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 04/12/2019
Client Project ID: 41103.00 KINGSTON CVS
York Project (SDG) No.: 19C1266

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 29, 2019 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 Sample and Analysis Qualifiers 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 Sample and Data Qualifiers Relating to This Work Order section of 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.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
19C1266-01	KC-MW-01 0319	Water	03/28/2019	03/29/2019
19C1266-02	KC-MW-02 0319	Water	03/28/2019	03/29/2019
19C1266-03	KC-MW-05 0319	Water	03/28/2019	03/29/2019
19C1266-04	KC-MW-07 0319	Water	03/28/2019	03/29/2019
19C1266-05	KC-MW-DUP 0319	Water	03/28/2019	03/29/2019
19C1266-06	TRIP BLANK 0319	Water	03/28/2019	03/29/2019

General Notes for York Project (SDG) No.: 19C1266

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 analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 04/12/2019

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: KC-MW-01 0319 **York Sample ID:** 19C1266-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 1:39 pm	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	**1,1,1-Trichloroethane**	**2.8**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**1.6**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	**1,1-Dichloroethylene**	**4.3**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-01 0319 **York Sample ID:** 19C1266-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 1:39 pm	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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**	**1.1**	J	ug/L	1.0	2.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	**Chloroform**	**0.28**	J	ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**880**		ug/L	4.0	10	20	EPA 8260C	04/03/2019 07:00	04/05/2019 18:23	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-01 0319 **York Sample ID:** 19C1266-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 1:39 pm	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	**Tetrachloroethylene**	**0.35**	QL-02, J	ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**40**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**1300**		ug/L	4.0	10	20	EPA 8260C	04/03/2019 07:00	04/05/2019 18:23	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**150**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/03/2019 07:00	04/04/2019 04:44	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*114 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-01 0319 **York Sample ID:** 19C1266-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 1:39 pm	03/29/2019

Metals, Priority Pollutant

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/L	0.017	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.0006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**0.060**		mg/L	0.003	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**0.138**		mg/L	0.006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.022	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**0.145**		mg/L	0.011	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**0.085**		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**0.138**		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	04/04/2019 09:09	04/04/2019 10:03	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-02 0319 **York Sample ID:** 19C1266-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 2:15 pm	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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

Sample Information

Client Sample ID: KC-MW-02 0319 **York Sample ID:** 19C1266-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 2:15 pm	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-02 0319 **York Sample ID:** 19C1266-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 2:15 pm	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**0.96**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-02 0319 **York Sample ID:** 19C1266-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 2:15 pm	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**2.2**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:12	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*111 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-02 0319 **York Sample ID:** 19C1266-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 2:15 pm	03/29/2019

Metals, Priority Pollutant

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:20	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/L	0.017	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:20	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.0006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:20	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/L	0.003	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:20	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:20	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.022	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:20	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:20	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	Nickel	ND		mg/L	0.011	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:20	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**0.037**		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:20	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:20	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:20	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	Zinc	ND		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:20	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	04/04/2019 09:09	04/04/2019 10:14	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 0319 **York Sample ID:** 19C1266-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 10:18 am	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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

Sample Information

Client Sample ID: KC-MW-05 0319 **York Sample ID:** 19C1266-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 10:18 am	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**0.33**	J	ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	**1,1-Dichloroethylene**	**0.32**	J	ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 0319 **York Sample ID:** 19C1266-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 10:18 am	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**16**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 0319 **York Sample ID:** 19C1266-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 10:18 am	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**0.27**	J	ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**31**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/03/2019 07:00	04/04/2019 05:42	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*110 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*112 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-05 0319 **York Sample ID:** 19C1266-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 10:18 am	03/29/2019

Metals, Priority Pollutant

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:22	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/L	0.017	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:22	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.0006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:22	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/L	0.003	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:22	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:22	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.022	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:22	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:22	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	Nickel	ND		mg/L	0.011	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:22	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**0.102**		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:22	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:22	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:22	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	Zinc	ND		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:22	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	04/04/2019 09:09	04/04/2019 10:24	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-07 0319 **York Sample ID:** 19C1266-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 12:42 pm	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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

Sample Information

Client Sample ID: KC-MW-07 0319 **York Sample ID:** 19C1266-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 12:42 pm	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	**1,1,1-Trichloroethane**	**0.28**	J	ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**0.29**	J	ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-07 0319 **York Sample ID:** 19C1266-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 12:42 pm	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**8.2**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-07 0319 **York Sample ID:** 19C1266-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 12:42 pm	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**0.50**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**17**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:09	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*112 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*112 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-DUP 0319 **York Sample ID:** 19C1266-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 12:00 am	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	**1,1,1-Trichloroethane**	**2.7**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**1.6**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	**1,1-Dichloroethylene**	**4.1**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	**Acetone**	**1.9**	J	ug/L	1.0	2.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-DUP 0319 **York Sample ID:** 19C1266-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 12:00 am	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	**Chloroform**	**0.27**	J	ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**920**		ug/L	4.0	10	20	EPA 8260C	04/03/2019 07:00	04/05/2019 18:50	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-DUP 0319 **York Sample ID:** 19C1266-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 12:00 am	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	**Tetrachloroethylene**	**0.28**	QL-02, J	ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**36**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**1300**		ug/L	4.0	10	20	EPA 8260C	04/03/2019 07:00	04/05/2019 18:50	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**140**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/03/2019 07:00	04/04/2019 06:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*110 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*115 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-DUP 0319 **York Sample ID:** 19C1266-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 12:00 am	03/29/2019

Metals, Priority Pollutant

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:25	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/L	0.017	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:25	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.0006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:25	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**0.059**		mg/L	0.003	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:25	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**0.139**		mg/L	0.006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:25	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.022	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:25	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:25	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**0.139**		mg/L	0.011	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:25	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**0.094**		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:25	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.006	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:25	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:25	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**0.129**		mg/L	0.028	1	EPA 6010D	04/01/2019 13:13	04/03/2019 11:25	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	04/04/2019 09:09	04/04/2019 10:35	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: TRIP BLANK 0319 **York Sample ID:** 19C1266-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 12:00 am	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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

Sample Information

Client Sample ID: TRIP BLANK 0319 **York Sample ID:** 19C1266-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 12:00 am	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: TRIP BLANK 0319 **York Sample ID:** 19C1266-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 12:00 am	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**0.81**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: TRIP BLANK 0319 **York Sample ID:** 19C1266-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19C1266	41103.00 KINGSTON CVS	Water	March 28, 2019 12:00 am	03/29/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**1.9**		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	04/03/2019 07:00	04/04/2019 07:05	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*108 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*114 %*	*79-122*

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 samples submitted to our laboratory on **03/29/2019 14:15** as detailed on the chain-of-custody form.

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

Cooler	Temp C°
Default Cooler	**1.5**

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

Methodology

All preparation and analyses were conducted according to the appropriate EPA methods detailed in the report.

Sample and Analysis Qualifiers

Sample Name	Matrix
KC-MW-01 0319	Water
KC-MW-02 0319	Water
KC-MW-05 0319	Water
KC-MW-07 0319	Water
KC-MW-DUP 0319	Water
TRIP BLANK 0319	Water

Sample Name	Analysis	Analyte	Qualifier	Description
KC-MW-01 0319	Volatile Organics, 8260 - Comprehensive	Tetrachloroethylene	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.
KC-MW-DUP 0319	Volatile Organics, 8260 - Comprehensive	Tetrachloroethylene	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.

QC Sample Non-Conformances

Any QC sample non-conformances (CCV, LCS, DUP, MS) are detailed in the data package and in the attached tables.

No other problems were encountered during analysis.

York Project/SDG no.: 19C1266 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

Date: 4/12/2019

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

$$Cx\ (ug/m^3) = \frac{(ppbv \times Molecular\ wt.)}{(24.040)}$$

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

Soils/Waters

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

Medium Level Soils

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

4. Semi-Volatiles (waters and soils)

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

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

$$Cx = \frac{(Ax)(VE)(DF)}{(CF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

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

Case Narrative Non-Conformance Summary

Laboratory:	York Analytical Laboratories, Inc.	Client:	Chazen Environmental Services (Poughkeepsie)
Project:	41103.00 KINGSTON CVS	Lab Project No:	19C1266
Laboratory Sample ID(s):	19C1266-01 - 19C1266-06	Sampling Date(s):	03/28/2019 - 03/28/2019
Review Date(s):	04/12/2019 - 04/12/2019	Laboratory Reviewer(s):	DEB

QC Sample Nonconformances

Batch ID: BD90225 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BD90225-BS1	Bromoform - 75-25-2	6.4 ug/L	LCS	64.5	78-133	Low Bias				
BD90225-BS1	Tetrachloroethylene - 127-18-4	7.1 ug/L	LCS	71.0	82-131	Low Bias				
BD90225-BSD1	Bromoform - 75-25-2	6.6 ug/L	LCS Dup	66.3	78-133	Low Bias	2.75	30		
BD90225-BSD1	Tetrachloroethylene - 127-18-4	7.7 ug/L	LCS Dup	77.0	82-131	Low Bias	8.11	30		

Batch ID: BD90281 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BD90281-BS1	1,2,3-Trichlorobenzene - 87-61-6	7.3 ug/L	LCS	73.2	76-136	Low Bias				
BD90281-BS1	Bromoform - 75-25-2	6.2 ug/L	LCS	61.6	78-133	Low Bias				
BD90281-BS1	Hexachlorobutadiene - 87-68-3	5.8 ug/L	LCS	57.9	67-146	Low Bias				
BD90281-BS1	Tetrachloroethylene - 127-18-4	7.4 ug/L	LCS	74.5	82-131	Low Bias				
BD90281-BSD1	1,2,3-Trichlorobenzene - 87-61-6	6.9 ug/L	LCS Dup	69.1	76-136	Low Bias	5.76	30		
BD90281-BSD1	Acrolein - 107-02-8	0.51 ug/L	LCS Dup	5.10	10-153	Low Bias	176	30	Non-dir.	
BD90281-BSD1	Bromoform - 75-25-2	6.6 ug/L	LCS Dup	65.6	78-133	Low Bias	6.29	30		
BD90281-BSD1	Hexachlorobutadiene - 87-68-3	6.5 ug/L	LCS Dup	64.6	67-146	Low Bias	10.9	30		
BD90281-BSD1	Tetrachloroethylene - 127-18-4	7.5 ug/L	LCS Dup	75.1	82-131	Low Bias	0.802	30		

Batch ID: Y9C1923 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y9C1923-SCV1	1,4-Dioxane - 123-91-1	50.4 ug/L	Secondary Cal Check	24.0	70-130	Low Bias				

Batch ID: Y9D0415 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y9D0415-CCV1	Acrolein - 107-02-8	6.69 ug/L	Calibration Check	66.9	80-120	Low Bias				
Y9D0415-CCV1	Bromoform - 75-25-2	6.85 ug/L	Calibration Check	68.5	80-120	Low Bias				
Y9D0415-CCV1	Bromomethane - 74-83-9	6.63 ug/L	Calibration Check	66.3	80-120	Low Bias				
Y9D0415-CCV1	Hexachlorobutadiene - 87-68-3	6.88 ug/L	Calibration Check	68.8	80-120	Low Bias				
Y9D0415-CCV1	n-Butylbenzene - 104-51-8	12.1 ug/L	Calibration Check	121	80-120	High Bias				

Batch ID: Y9D0501 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y9D0501-CCV1	1,2,3-Trichlorobenzene - 87-61-6	7.48 ug/L	Calibration Check	74.8	80-120	Low Bias				
Y9D0501-CCV1	Acrolein - 107-02-8	4.69 ug/L	Calibration Check	46.9	80-120	Low Bias				
Y9D0501-CCV1	Bromoform - 75-25-2	6.40 ug/L	Calibration Check	64.0	80-120	Low Bias				
Y9D0501-CCV1	Dibromochloromethane - 124-48-1	7.87 ug/L	Calibration Check	78.7	80-120	Low Bias				
Y9D0501-CCV1	Hexachlorobutadiene - 87-68-3	6.05 ug/L	Calibration Check	60.5	80-120	Low Bias				
Y9D0501-CCV1	Isopropylbenzene - 98-82-8	12.2 ug/L	Calibration Check	122	80-120	High Bias				
Y9D0501-CCV1	n-Propylbenzene - 103-65-1	12.1 ug/L	Calibration Check	121	80-120	High Bias				

Batch ID: Y9D0315 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y9D0315-CRL1	Arsenic - 7440-38-2	0.021 ug/mL	Instrument RL Check	139	70-130	High Bias				
Y9D0315-CRL1	Beryllium - 7440-41-7	0.0007 ug/mL	Instrument RL Check	146	70-130	High Bias				
Y9D0315-CRL1	Lead - 7439-92-1	0.003 ug/mL	Instrument RL Check	68.7	70-130	Low Bias				
Y9D0315-CRL1	Selenium - 7782-49-2	0.016 ug/mL	Instrument RL Check	63.5	70-130	Low Bias				
Y9D0315-CRL1	Zinc - 7440-66-6	0.052 ug/mL	Instrument RL Check	206	70-130	High Bias				
Y9D0315-ICV1	Selenium - 7782-49-2	0.282 ug/mL	Initial Cal Check	113	90-110	High Bias				
Y9D0315-SRD1	Cadmium - 7440-43-9	0.081 mg/L	Serial Dilution (KC-MW-01 0319)		-		34.3	10	Non-dir.	
Y9D0315-SRD1	Chromium - 7440-47-3	0.179 mg/L	Serial Dilution (KC-MW-01 0319)		-		29.5	10	Non-dir.	
Y9D0315-SRD1	Nickel - 7440-02-0	0.212 mg/L	Serial Dilution (KC-MW-01 0319)		-		46.1	10	Non-dir.	
Y9D0315-SRD1	Zinc - 7440-66-6	0.189 mg/L	Serial Dilution (KC-MW-01 0319)		-		37.2	10	Non-dir.	

Batch ID: BD90225 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
19C1266-01	KC-MW-01 0319
19C1266-02	KC-MW-02 0319
19C1266-03	KC-MW-05 0319
19C1266-04	KC-MW-07 0319
19C1266-05	KC-MW-DUP 0319
19C1266-06	TRIP BLANK 0319
BD90225-BLK1	Blank
BD90225-BS1	LCS
BD90225-BSD1	LCS Dup

Batch ID: BD90281 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
19C1266-01RE1	KC-MW-01 0319
19C1266-05RE1	KC-MW-DUP 0319
BD90281-BLK1	Blank
BD90281-BS1	LCS
BD90281-BSD1	LCS Dup

No Sample Nonconformances Found

Notes: Other nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

QC DATA QUALIFIERS

LabID	Analysis	Analyte	Qualifier	Definition
Y9D0415-CCV1	Volatile Organics, 8260 - Comprehensive	Acrolein	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).
BD90225-BS1	Volatile Organics, 8260 - Comprehensive	Tetrachloroethylene	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.
BD90225-BSD1	Volatile Organics, 8260 - Comprehensive	Bromoform	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.
BD90225-BSD1	Volatile Organics, 8260 - Comprehensive	Tetrachloroethylene	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.
BD90281-BS1	Volatile Organics, 8260 - Comprehensive	1,2,3-Trichlorobenzene	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.
BD90281-BS1	Volatile Organics, 8260 - Comprehensive	Hexachlorobutadiene	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.
BD90281-BS1	Volatile Organics, 8260 - Comprehensive	Bromoform	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.
BD90281-BS1	Volatile Organics, 8260 - Comprehensive	Tetrachloroethylene	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.

LabID	Analysis	Analyte	Qualifier	Definition
BD90281-BSD1	Volatile Organics, 8260 - Comprehensive	1,2,3-Trichlorobenzene	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.
BD90281-BSD1	Volatile Organics, 8260 - Comprehensive	Acrolein	QL-02, QR-(	
BD90281-BSD1	Volatile Organics, 8260 - Comprehensive	Bromoform	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.
BD90225-BS1	Volatile Organics, 8260 - Comprehensive	Bromoform	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.
BD90281-BSD1	Volatile Organics, 8260 - Comprehensive	Tetrachloroethylene	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.
Y9D0501-CCV1	Volatile Organics, 8260 - Comprehensive	n-Propylbenzene	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).
Y9D0415-CCV1	Volatile Organics, 8260 - Comprehensive	Hexachlorobutadiene	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).
Y9D0415-CCV1	Volatile Organics, 8260 - Comprehensive	Bromoform	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).
Y9D0415-CCV1	Volatile Organics, 8260 - Comprehensive	Bromomethane	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).

LabID	Analysis	Analyte	Qualifier	Definition
Y9D0415-CCV1	Volatile Organics, 8260 - Comprehensive	n-Butylbenzene	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).
Y9D0501-CCV1	Volatile Organics, 8260 - Comprehensive	1,2,3-Trichlorobenzene	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).
Y9D0501-CCV1	Volatile Organics, 8260 - Comprehensive	Acrolein	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).
Y9D0501-CCV1	Volatile Organics, 8260 - Comprehensive	Bromoform	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).
Y9D0501-CCV1	Volatile Organics, 8260 - Comprehensive	Dibromochloromethane	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).
Y9D0501-CCV1	Volatile Organics, 8260 - Comprehensive	Hexachlorobutadiene	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).
Y9D0501-CCV1	Volatile Organics, 8260 - Comprehensive	Isopropylbenzene	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).
BD90281-BSD1	Volatile Organics, 8260 - Comprehensive	Hexachlorobutadiene	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.

QC DATA QUALIFIERS

LabID	Analysis	Analyte	Qualifier	Definition
Y9D0315-SRD1	Metals, Priority Pollutant	Selenium	M-SRD1	The serial dilution for this element was outside control limits.
Y9D0315-SRD1	Metals, Priority Pollutant	Chromium	M-SRD1	The serial dilution for this element was outside control limits.
Y9D0315-SRD1	Metals, Priority Pollutant	Cadmium	M-SRD1	The serial dilution for this element was outside control limits.
Y9D0315-SRD1	Metals, Priority Pollutant	Zinc	M-SRD1	The serial dilution for this element was outside control limits.
Y9D0315-SRD1	Metals, Priority Pollutant	Nickel	M-SRD1	The serial dilution for this element was outside control limits.
Y9D0315-ICV1	Metals, Priority Pollutant	Selenium	M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
Y9D0315-CRL1	Metals, Priority Pollutant	Selenium	M-CRL	The RL check for this element recovered outside of control limits.
Y9D0315-CRL1	Metals, Priority Pollutant	Arsenic	M-CRL	The RL check for this element recovered outside of control limits.
Y9D0315-CRL1	Metals, Priority Pollutant	Zinc	M-CRL	The RL check for this element recovered outside of control limits.
Y9D0315-CRL1	Metals, Priority Pollutant	Lead	M-CRL	The RL check for this element recovered outside of control limits.
Y9D0315-CRL1	Metals, Priority Pollutant	Beryllium	M-CRL	The RL check for this element recovered outside of control limits.

Analytical Batch Summary

Batch ID: BD90044 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19C1266-01	KC-MW-01 0319	04/01/19
19C1266-02	KC-MW-02 0319	04/01/19
19C1266-03	KC-MW-05 0319	04/01/19
19C1266-05	KC-MW-DUP 0319	04/01/19
BD90044-BLK1	Blank	04/01/19
BD90044-BS1	LCS	04/01/19
BD90044-DUP1	Duplicate	04/01/19
BD90044-MS1	Matrix Spike	04/01/19

Batch ID: BD90225 **Preparation Method:** EPA 5030B **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
19C1266-01	KC-MW-01 0319	04/03/19
19C1266-02	KC-MW-02 0319	04/03/19
19C1266-03	KC-MW-05 0319	04/03/19
19C1266-04	KC-MW-07 0319	04/03/19
19C1266-05	KC-MW-DUP 0319	04/03/19
19C1266-06	TRIP BLANK 0319	04/03/19
BD90225-BLK1	Blank	04/03/19
BD90225-BS1	LCS	04/02/19
BD90225-BSD1	LCS Dup	04/02/19

Batch ID: BD90254 **Preparation Method:** EPA 7473 water **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19C1266-01	KC-MW-01 0319	04/04/19
19C1266-02	KC-MW-02 0319	04/04/19
19C1266-03	KC-MW-05 0319	04/04/19
19C1266-05	KC-MW-DUP 0319	04/04/19
BD90254-BLK1	Blank	04/04/19
BD90254-SRM1	Reference	04/04/19

Batch ID: BD90281 **Preparation Method:** EPA 5030B **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
19C1266-01RE1	KC-MW-01 0319	04/03/19
19C1266-05RE1	KC-MW-DUP 0319	04/03/19
BD90281-BLK1	Blank	04/05/19
BD90281-BS1	LCS	04/05/19
BD90281-BSD1	LCS Dup	04/05/19

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 BD90225 - EPA 5030B											
Blank (BD90225-BLK1)											
Prepared: 04/03/2019 Analyzed: 04/04/2019											
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	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	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	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	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	"								
Cyclohexane	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 acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	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 BD90225 - EPA 5030B											
Blank (BD90225-BLK1)									Prepared: 04/03/2019 Analyzed: 04/04/2019		
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-Butyl alcohol (TBA)	ND	1.0	"								
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	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.4*		*"*	*10.0*		*104*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.0*		*"*	*10.0*		*110*	*79-122*				
LCS (BD90225-BS1)									Prepared: 04/02/2019 Analyzed: 04/03/2019		
1,1,1,2-Tetrachloroethane	8.8		ug/L	10.0		87.9	82-126				
1,1,1-Trichloroethane	10		"	10.0		103	78-136				
1,1,2,2-Tetrachloroethane	11		"	10.0		109	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		103	54-165				
1,1,2-Trichloroethane	8.8		"	10.0		87.9	82-123				
1,1-Dichloroethane	10		"	10.0		99.9	82-129				
1,1-Dichloroethylene	9.6		"	10.0		96.1	68-138				
1,2,3-Trichlorobenzene	8.3		"	10.0		83.2	76-136				
1,2,3-Trichloropropane	11		"	10.0		107	77-128				
1,2,4-Trichlorobenzene	8.9		"	10.0		88.9	76-137				
1,2,4-Trimethylbenzene	11		"	10.0		108	82-132				
1,2-Dibromo-3-chloropropane	9.5		"	10.0		94.9	45-147				
1,2-Dibromoethane	8.9		"	10.0		89.1	83-124				
1,2-Dichlorobenzene	10		"	10.0		103	79-123				
1,2-Dichloroethane	9.8		"	10.0		97.7	73-132				
1,2-Dichloropropane	9.1		"	10.0		90.6	78-126				
1,3,5-Trimethylbenzene	11		"	10.0		110	80-131				
1,3-Dichlorobenzene	10		"	10.0		101	86-122				
1,4-Dichlorobenzene	10		"	10.0		101	85-124				
1,4-Dioxane	50		"	210		24.0	10-349				
2-Butanone	9.0		"	10.0		89.5	49-152				
2-Hexanone	8.8		"	10.0		87.7	51-146				
4-Methyl-2-pentanone	9.4		"	10.0		94.0	57-145				
Acetone	8.0		"	10.0		80.5	14-150				
Acrolein	7.4		"	10.0		73.6	10-153				
Acrylonitrile	9.8		"	10.0		98.0	51-150				
Benzene	9.6		"	10.0		95.6	85-126				
Bromochloromethane	10		"	10.0		100	77-128				

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 BD90225 - EPA 5030B											
LCS (BD90225-BS1)								Prepared: 04/02/2019 Analyzed: 04/03/2019			
Bromodichloromethane	9.2		ug/L	10.0		91.5	79-128				
Bromoform	6.4		"	10.0		64.5	78-133	Low Bias			
Bromomethane	7.3		"	10.0		73.3	43-168				
Carbon disulfide	9.6		"	10.0		96.2	68-146				
Carbon tetrachloride	9.5		"	10.0		95.0	77-141				
Chlorobenzene	9.2		"	10.0		92.0	88-120				
Chloroethane	8.9		"	10.0		88.8	65-136				
Chloroform	9.9		"	10.0		98.9	82-128				
Chloromethane	10		"	10.0		99.7	43-155				
cis-1,2-Dichloroethylene	9.5		"	10.0		95.2	83-129				
cis-1,3-Dichloropropylene	8.6		"	10.0		86.5	80-131				
Cyclohexane	11		"	10.0		107	63-149				
Dibromochloromethane	8.2		"	10.0		81.6	80-130				
Dibromomethane	9.3		"	10.0		92.9	72-134				
Dichlorodifluoromethane	11		"	10.0		106	44-144				
Ethyl Benzene	9.8		"	10.0		98.2	80-131				
Hexachlorobutadiene	7.1		"	10.0		71.3	67-146				
Isopropylbenzene	11		"	10.0		114	76-140				
Methyl acetate	8.5		"	10.0		85.1	51-139				
Methyl tert-butyl ether (MTBE)	9.5		"	10.0		95.1	76-135				
Methylcyclohexane	10		"	10.0		100	72-143				
Methylene chloride	10		"	10.0		104	55-137				
n-Butylbenzene	12		"	10.0		125	79-132				
n-Propylbenzene	12		"	10.0		117	78-133				
o-Xylene	9.7		"	10.0		96.6	78-130				
p- & m- Xylenes	20		"	20.0		99.8	77-133				
p-Isopropyltoluene	11		"	10.0		111	81-136				
sec-Butylbenzene	12		"	10.0		118	79-137				
Styrene	9.1		"	10.0		91.2	67-132				
tert-Butyl alcohol (TBA)	38		"	50.0		76.5	25-162				
tert-Butylbenzene	11		"	10.0		111	77-138				
Tetrachloroethylene	7.1		"	10.0		71.0	82-131	Low Bias			
Toluene	9.5		"	10.0		95.1	80-127				
trans-1,2-Dichloroethylene	9.3		"	10.0		93.1	80-132				
trans-1,3-Dichloropropylene	8.4		"	10.0		83.5	78-131				
trans-1,4-dichloro-2-butene	10		"	10.0		102	63-141				
Trichloroethylene	9.1		"	10.0		91.2	82-128				
Trichlorofluoromethane	9.5		"	10.0		95.4	67-139				
Vinyl Chloride	9.9		"	10.0		99.1	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.7*		*"*	*10.0*		*107*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.1*		*"*	*10.0*		*111*	*79-122*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD90225 - EPA 5030B											
LCS Dup (BD90225-BSD1)								Prepared: 04/02/2019 Analyzed: 04/04/2019			
1,1,1,2-Tetrachloroethane	8.9		ug/L	10.0		89.0	82-126		1.24	30	
1,1,1-Trichloroethane	11		"	10.0		110	78-136		6.47	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		104	76-129		4.51	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		116	54-165		12.3	30	
1,1,2-Trichloroethane	9.0		"	10.0		89.7	82-123		2.03	30	
1,1-Dichloroethane	11		"	10.0		105	82-129		5.26	30	
1,1-Dichloroethylene	10		"	10.0		102	68-138		6.15	30	
1,2,3-Trichlorobenzene	8.2		"	10.0		82.2	76-136		1.21	30	
1,2,3-Trichloropropane	11		"	10.0		108	77-128		0.650	30	
1,2,4-Trichlorobenzene	8.5		"	10.0		84.9	76-137		4.60	30	
1,2,4-Trimethylbenzene	11		"	10.0		110	82-132		1.93	30	
1,2-Dibromo-3-chloropropane	8.6		"	10.0		86.3	45-147		9.49	30	
1,2-Dibromoethane	9.1		"	10.0		90.8	83-124		1.89	30	
1,2-Dichlorobenzene	10		"	10.0		104	79-123		1.26	30	
1,2-Dichloroethane	10		"	10.0		104	73-132		6.73	30	
1,2-Dichloropropane	9.5		"	10.0		94.9	78-126		4.64	30	
1,3,5-Trimethylbenzene	11		"	10.0		114	80-131		3.84	30	
1,3-Dichlorobenzene	10		"	10.0		104	86-122		2.44	30	
1,4-Dichlorobenzene	10		"	10.0		102	85-124		1.28	30	
1,4-Dioxane	48		"	210		22.9	10-349		4.59	30	
2-Butanone	9.4		"	10.0		94.4	49-152		5.33	30	
2-Hexanone	8.5		"	10.0		85.4	51-146		2.66	30	
4-Methyl-2-pentanone	9.5		"	10.0		95.4	57-145		1.48	30	
Acetone	8.3		"	10.0		82.9	14-150		2.94	30	
Acrolein	7.9		"	10.0		78.9	10-153		6.95	30	
Acrylonitrile	10		"	10.0		102	51-150		3.90	30	
Benzene	10		"	10.0		102	85-126		6.28	30	
Bromochloromethane	10		"	10.0		105	77-128		4.28	30	
Bromodichloromethane	9.6		"	10.0		95.5	79-128		4.28	30	
Bromoform	6.6		"	10.0		66.3	78-133	Low Bias	2.75	30	
Bromomethane	8.0		"	10.0		79.9	43-168		8.62	30	
Carbon disulfide	11		"	10.0		106	68-146		9.79	30	
Carbon tetrachloride	10		"	10.0		101	77-141		6.02	30	
Chlorobenzene	9.8		"	10.0		97.8	88-120		6.11	30	
Chloroethane	9.3		"	10.0		93.2	65-136		4.84	30	
Chloroform	11		"	10.0		105	82-128		6.08	30	
Chloromethane	11		"	10.0		113	43-155		12.5	30	
cis-1,2-Dichloroethylene	10		"	10.0		103	83-129		7.48	30	
cis-1,3-Dichloropropylene	8.9		"	10.0		89.4	80-131		3.30	30	
Cyclohexane	12		"	10.0		118	63-149		9.35	30	
Dibromochloromethane	8.4		"	10.0		84.3	80-130		3.25	30	
Dibromomethane	9.4		"	10.0		93.7	72-134		0.857	30	
Dichlorodifluoromethane	12		"	10.0		119	44-144		11.5	30	
Ethyl Benzene	10		"	10.0		104	80-131		5.64	30	
Hexachlorobutadiene	7.8		"	10.0		77.7	67-146		8.59	30	
Isopropylbenzene	12		"	10.0		117	76-140		2.42	30	
Methyl acetate	8.5		"	10.0		85.4	51-139		0.352	30	
Methyl tert-butyl ether (MTBE)	9.8		"	10.0		97.9	76-135		2.90	30	
Methylcyclohexane	11		"	10.0		106	72-143		6.01	30	
Methylene chloride	11		"	10.0		111	55-137		7.08	30	
n-Butylbenzene	13		"	10.0		127	79-132		1.67	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 BD90225 - EPA 5030B											
LCS Dup (BD90225-BSD1)								Prepared: 04/02/2019 Analyzed: 04/04/2019			
n-Propylbenzene	12		ug/L	10.0		118	78-133		0.939	30	
o-Xylene	10		"	10.0		99.7	78-130		3.16	30	
p- & m- Xylenes	21		"	20.0		105	77-133		5.13	30	
p-Isopropyltoluene	11		"	10.0		114	81-136		3.02	30	
sec-Butylbenzene	12		"	10.0		122	79-137		3.41	30	
Styrene	9.5		"	10.0		94.9	67-132		3.98	30	
tert-Butyl alcohol (TBA)	41		"	50.0		82.3	25-162		7.25	30	
tert-Butylbenzene	12		"	10.0		115	77-138		3.80	30	
Tetrachloroethylene	7.7		"	10.0		77.0	82-131	Low Bias	8.11	30	
Toluene	10		"	10.0		100	80-127		5.42	30	
trans-1,2-Dichloroethylene	10		"	10.0		99.8	80-132		6.95	30	
trans-1,3-Dichloropropylene	8.5		"	10.0		84.6	78-131		1.31	30	
trans-1,4-dichloro-2-butene	10		"	10.0		100	63-141		1.68	30	
Trichloroethylene	9.9		"	10.0		98.6	82-128		7.80	30	
Trichlorofluoromethane	10		"	10.0		104	67-139		8.43	30	
Vinyl Chloride	11		"	10.0		107	58-145		7.76	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.9*		*"*	*10.0*		*109*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.9*		*"*	*10.0*		*109*	*79-122*				
Batch BD90281 - EPA 5030B											
Blank (BD90281-BLK1)								Prepared & Analyzed: 04/05/2019			
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	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	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	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								

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 BD90281 - EPA 5030B											
Blank (BD90281-BLK1)									Prepared & Analyzed: 04/05/2019		
Bromodichloromethane	ND	0.50	ug/L								
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	"								
Cyclohexane	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 acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
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-Butyl alcohol (TBA)	ND	1.0	"								
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	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.6*		*"*	*10.0*		*106*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.5*		*"*	*10.0*		*105*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.3*		*"*	*10.0*		*113*	*79-122*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD90281 - EPA 5030B											
LCS (BD90281-BS1)								Prepared & Analyzed: 04/05/2019			
1,1,1,2-Tetrachloroethane	8.4		ug/L	10.0		84.0	82-126				
1,1,1-Trichloroethane	10		"	10.0		104	78-136				
1,1,2,2-Tetrachloroethane	11		"	10.0		106	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		99.6	54-165				
1,1,2-Trichloroethane	8.3		"	10.0		82.8	82-123				
1,1-Dichloroethane	10		"	10.0		99.7	82-129				
1,1-Dichloroethylene	9.8		"	10.0		97.5	68-138				
1,2,3-Trichlorobenzene	7.3		"	10.0		73.2	76-136	Low Bias			
1,2,3-Trichloropropane	11		"	10.0		108	77-128				
1,2,4-Trichlorobenzene	8.0		"	10.0		80.2	76-137				
1,2,4-Trimethylbenzene	11		"	10.0		109	82-132				
1,2-Dibromo-3-chloropropane	8.8		"	10.0		88.3	45-147				
1,2-Dibromoethane	8.6		"	10.0		85.7	83-124				
1,2-Dichlorobenzene	11		"	10.0		106	79-123				
1,2-Dichloroethane	9.4		"	10.0		93.5	73-132				
1,2-Dichloropropane	8.9		"	10.0		89.0	78-126				
1,3,5-Trimethylbenzene	11		"	10.0		113	80-131				
1,3-Dichlorobenzene	11		"	10.0		105	86-122				
1,4-Dichlorobenzene	10		"	10.0		104	85-124				
1,4-Dioxane	47		"	210		22.5	10-349				
2-Butanone	8.8		"	10.0		87.5	49-152				
2-Hexanone	8.7		"	10.0		87.1	51-146				
4-Methyl-2-pentanone	8.4		"	10.0		84.5	57-145				
Acetone	8.0		"	10.0		80.1	14-150				
Acrolein	8.0		"	10.0		80.3	10-153				
Acrylonitrile	9.2		"	10.0		92.2	51-150				
Benzene	9.5		"	10.0		94.8	85-126				
Bromochloromethane	9.8		"	10.0		98.2	77-128				
Bromodichloromethane	8.8		"	10.0		88.4	79-128				
Bromoform	6.2		"	10.0		61.6	78-133	Low Bias			
Bromomethane	9.1		"	10.0		91.1	43-168				
Carbon disulfide	9.2		"	10.0		92.3	68-146				
Carbon tetrachloride	9.6		"	10.0		95.6	77-141				
Chlorobenzene	9.1		"	10.0		91.4	88-120				
Chloroethane	8.7		"	10.0		87.0	65-136				
Chloroform	9.8		"	10.0		97.6	82-128				
Chloromethane	9.2		"	10.0		92.3	43-155				
cis-1,2-Dichloroethylene	9.6		"	10.0		96.1	83-129				
cis-1,3-Dichloropropylene	8.1		"	10.0		81.2	80-131				
Cyclohexane	10		"	10.0		104	63-149				
Dibromochloromethane	8.1		"	10.0		80.9	80-130				
Dibromomethane	8.9		"	10.0		88.8	72-134				
Dichlorodifluoromethane	8.8		"	10.0		88.0	44-144				
Ethyl Benzene	9.8		"	10.0		98.4	80-131				
Hexachlorobutadiene	5.8		"	10.0		57.9	67-146	Low Bias			
Isopropylbenzene	12		"	10.0		122	76-140				
Methyl acetate	8.6		"	10.0		85.9	51-139				
Methyl tert-butyl ether (MTBE)	8.8		"	10.0		87.8	76-135				
Methylcyclohexane	9.5		"	10.0		95.3	72-143				
Methylene chloride	10		"	10.0		102	55-137				
n-Butylbenzene	11		"	10.0		111	79-132				

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 BD90281 - EPA 5030B											
LCS (BD90281-BS1)								Prepared & Analyzed: 04/05/2019			
n-Propylbenzene	12		ug/L	10.0		122	78-133				
o-Xylene	9.5		"	10.0		94.7	78-130				
p- & m- Xylenes	20		"	20.0		99.3	77-133				
p-Isopropyltoluene	11		"	10.0		106	81-136				
sec-Butylbenzene	12		"	10.0		115	79-137				
Styrene	9.0		"	10.0		89.8	67-132				
tert-Butyl alcohol (TBA)	36		"	50.0		72.9	25-162				
tert-Butylbenzene	11		"	10.0		113	77-138				
Tetrachloroethylene	7.4		"	10.0		74.5	82-131	Low Bias			
Toluene	9.5		"	10.0		95.0	80-127				
trans-1,2-Dichloroethylene	9.3		"	10.0		92.7	80-132				
trans-1,3-Dichloropropylene	8.2		"	10.0		82.2	78-131				
trans-1,4-dichloro-2-butene	9.9		"	10.0		99.1	63-141				
Trichloroethylene	9.3		"	10.0		92.9	82-128				
Trichlorofluoromethane	9.6		"	10.0		95.8	67-139				
Vinyl Chloride	9.6		"	10.0		95.8	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.6*		*"*	*10.0*		*106*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.1*		*"*	*10.0*		*111*	*79-122*				
LCS Dup (BD90281-BSD1)								Prepared & Analyzed: 04/05/2019			
1,1,1,2-Tetrachloroethane	9.0		ug/L	10.0		89.5	82-126		6.34	30	
1,1,1-Trichloroethane	11		"	10.0		111	78-136		6.51	30	
1,1,2,2-Tetrachloroethane	11		"	10.0		112	76-129		5.12	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		108	54-165		8.28	30	
1,1,2-Trichloroethane	8.7		"	10.0		87.4	82-123		5.41	30	
1,1-Dichloroethane	10		"	10.0		104	82-129		4.61	30	
1,1-Dichloroethylene	9.8		"	10.0		97.7	68-138		0.205	30	
1,2,3-Trichlorobenzene	6.9		"	10.0		69.1	76-136	Low Bias	5.76	30	
1,2,3-Trichloropropane	12		"	10.0		116	77-128		6.96	30	
1,2,4-Trichlorobenzene	8.0		"	10.0		80.5	76-137		0.373	30	
1,2,4-Trimethylbenzene	11		"	10.0		112	82-132		2.08	30	
1,2-Dibromo-3-chloropropane	8.3		"	10.0		83.0	45-147		6.19	30	
1,2-Dibromoethane	9.1		"	10.0		91.1	83-124		6.11	30	
1,2-Dichlorobenzene	11		"	10.0		106	79-123		0.189	30	
1,2-Dichloroethane	10		"	10.0		103	73-132		9.96	30	
1,2-Dichloropropane	9.1		"	10.0		91.2	78-126		2.44	30	
1,3,5-Trimethylbenzene	12		"	10.0		116	80-131		3.06	30	
1,3-Dichlorobenzene	11		"	10.0		107	86-122		1.51	30	
1,4-Dichlorobenzene	11		"	10.0		106	85-124		1.33	30	
1,4-Dioxane	45		"	210		21.5	10-349		4.70	30	
2-Butanone	9.8		"	10.0		97.5	49-152		10.8	30	
2-Hexanone	8.9		"	10.0		89.1	51-146		2.27	30	
4-Methyl-2-pentanone	9.6		"	10.0		96.1	57-145		12.8	30	
Acetone	8.5		"	10.0		85.2	14-150		6.17	30	
Acrolein	0.51		"	10.0		5.10	10-153	Low Bias	176	30	Non-dir.
Acrylonitrile	10		"	10.0		102	51-150		9.60	30	
Benzene	9.9		"	10.0		99.2	85-126		4.54	30	
Bromochloromethane	11		"	10.0		107	77-128		8.48	30	
Bromodichloromethane	9.2		"	10.0		92.0	79-128		3.99	30	
Bromoform	6.6		"	10.0		65.6	78-133	Low Bias	6.29	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 BD90281 - EPA 5030B											
LCS Dup (BD90281-BSD1)								Prepared & Analyzed: 04/05/2019			
Bromomethane	9.8		ug/L	10.0		97.8	43-168		7.09	30	
Carbon disulfide	9.6		"	10.0		96.2	68-146		4.14	30	
Carbon tetrachloride	10		"	10.0		102	77-141		6.77	30	
Chlorobenzene	9.5		"	10.0		94.6	88-120		3.44	30	
Chloroethane	8.6		"	10.0		85.5	65-136		1.74	30	
Chloroform	10		"	10.0		102	82-128		4.41	30	
Chloromethane	9.6		"	10.0		96.5	43-155		4.45	30	
cis-1,2-Dichloroethylene	10		"	10.0		103	83-129		6.93	30	
cis-1,3-Dichloropropylene	8.9		"	10.0		89.3	80-131		9.50	30	
Cyclohexane	11		"	10.0		111	63-149		6.40	30	
Dibromochloromethane	8.5		"	10.0		84.8	80-130		4.71	30	
Dibromomethane	9.4		"	10.0		93.7	72-134		5.37	30	
Dichlorodifluoromethane	9.2		"	10.0		91.5	44-144		3.90	30	
Ethyl Benzene	10		"	10.0		101	80-131		2.21	30	
Hexachlorobutadiene	6.5		"	10.0		64.6	67-146	Low Bias	10.9	30	
Isopropylbenzene	12		"	10.0		124	76-140		1.22	30	
Methyl acetate	8.9		"	10.0		88.9	51-139		3.43	30	
Methyl tert-butyl ether (MTBE)	9.6		"	10.0		95.5	76-135		8.40	30	
Methylcyclohexane	10		"	10.0		103	72-143		8.15	30	
Methylene chloride	11		"	10.0		109	55-137		7.30	30	
n-Butylbenzene	11		"	10.0		112	79-132		1.52	30	
n-Propylbenzene	12		"	10.0		124	78-133		1.06	30	
o-Xylene	9.8		"	10.0		98.2	78-130		3.63	30	
p- & m- Xylenes	21		"	20.0		103	77-133		3.46	30	
p-Isopropyltoluene	11		"	10.0		115	81-136		8.15	30	
sec-Butylbenzene	12		"	10.0		124	79-137		7.52	30	
Styrene	9.3		"	10.0		93.1	67-132		3.61	30	
tert-Butyl alcohol (TBA)	37		"	50.0		74.8	25-162		2.63	30	
tert-Butylbenzene	12		"	10.0		117	77-138		4.00	30	
Tetrachloroethylene	7.5		"	10.0		75.1	82-131	Low Bias	0.802	30	
Toluene	9.9		"	10.0		98.9	80-127		4.02	30	
trans-1,2-Dichloroethylene	9.6		"	10.0		95.6	80-132		3.08	30	
trans-1,3-Dichloropropylene	8.6		"	10.0		86.5	78-131		5.10	30	
trans-1,4-dichloro-2-butene	11		"	10.0		108	63-141		8.32	30	
Trichloroethylene	9.4		"	10.0		94.4	82-128		1.60	30	
Trichlorofluoromethane	9.1		"	10.0		90.9	67-139		5.25	30	
Vinyl Chloride	9.9		"	10.0		99.4	58-145		3.69	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.3*		*"*	*10.0*		*103*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.2*		*"*	*10.0*		*112*	*79-122*				

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 BD90044 - EPA 3015A											
Blank (BD90044-BLK1)											Prepared: 04/01/2019 Analyzed: 04/03/2019
Antimony	ND	0.028	mg/L								
Arsenic	ND	0.017	"								
Beryllium	ND	0.0006	"								
Cadmium	ND	0.003	"								
Chromium	ND	0.006	"								
Copper	ND	0.022	"								
Lead	ND	0.006	"								
Nickel	ND	0.011	"								
Selenium	ND	0.028	"								
Silver	ND	0.006	"								
Thallium	ND	0.028	"								
Zinc	ND	0.028	"								
LCS (BD90044-BS1)											Prepared: 04/01/2019 Analyzed: 04/03/2019
Antimony	0.300	0.028	mg/L	0.278		108	80-120				
Arsenic	2.13	0.017	"	2.22		95.7	80-120				
Beryllium	0.057	0.0006	"	0.0556		102	80-120				
Cadmium	0.058	0.003	"	0.0556		104	80-120				
Chromium	0.223	0.006	"	0.222		100	80-120				
Copper	0.299	0.022	"	0.278		108	80-120				
Lead	0.571	0.006	"	0.556		103	80-120				
Nickel	0.590	0.011	"	0.556		106	80-120				
Selenium	1.90	0.028	"	2.22		85.3	80-120				
Silver	0.056	0.006	"	0.0556		101	80-120				
Thallium	2.44	0.028	"	2.22		110	80-120				
Zinc	0.561	0.028	"	0.556		101	80-120				
Duplicate (BD90044-DUP1)	*Source sample: 19C1266-01 (KC-MW-01 0319)										Prepared: 04/01/2019 Analyzed: 04/03/2019
Antimony	ND	0.028	mg/L		ND					20	
Arsenic	ND	0.017	"		ND					20	
Beryllium	ND	0.0006	"		ND					20	
Cadmium	0.061	0.003	"		0.060				0.511	20	
Chromium	0.139	0.006	"		0.138				1.02	20	
Copper	ND	0.022	"		ND					20	
Lead	ND	0.006	"		ND					20	
Nickel	0.145	0.011	"		0.145				0.251	20	
Selenium	0.091	0.028	"		0.085				6.79	20	
Silver	ND	0.006	"		ND					20	
Thallium	ND	0.028	"		ND					20	
Zinc	0.131	0.028	"		0.138				5.21	20	

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 BD90044 - EPA 3015A											
Matrix Spike (BD90044-MS1)	*Source sample: 19C1266-01 (KC-MW-01 0319)							Prepared: 04/01/2019 Analyzed: 04/03/2019			
Antimony	0.308	0.028	mg/L	0.278	ND	111	75-125				
Arsenic	2.18	0.017	"	2.22	ND	98.1	75-125				
Beryllium	0.056	0.0006	"	0.0556	ND	102	75-125				
Cadmium	0.112	0.003	"	0.0556	0.060	93.1	75-125				
Chromium	0.354	0.006	"	0.222	0.138	97.0	75-125				
Copper	0.300	0.022	"	0.278	ND	108	75-125				
Lead	0.529	0.006	"	0.556	ND	95.3	75-125				
Nickel	0.709	0.011	"	0.556	0.145	101	75-125				
Selenium	2.02	0.028	"	2.22	0.085	87.0	75-125				
Silver	0.059	0.006	"	0.0556	ND	106	75-125				
Thallium	2.33	0.028	"	2.22	ND	105	75-125				
Zinc	0.662	0.028	"	0.556	0.138	94.4	75-125				

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 BD90254 - EPA 7473 water											
Blank (BD90254-BLK1)										Prepared & Analyzed: 04/04/2019	
Mercury	ND	0.00020	mg/L								
Reference (BD90254-SRM1)										Prepared & Analyzed: 04/04/2019	
Mercury	0.00793		mg/L	0.0100		79.3	70-130				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19C1266-01	KC-MW-01 0319	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19C1266-02	KC-MW-02 0319	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19C1266-03	KC-MW-05 0319	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19C1266-04	KC-MW-07 0319	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19C1266-05	KC-MW-DUP 0319	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19C1266-06	TRIP BLANK 0319	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QR-04	The RPD exceeded control limits for the LCS/LCSD QC.
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-SRD1	The serial dilution for this element was outside control limits.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
M-CRL	The RL check for this element recovered outside of control limits.
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).

Definitions and Other Explanations

*	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.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Laboratory Chain-of-Custody Record

York Project (SDG) No.: 19C1266

Samples Received: 03/29/2019 14:15 **By:** Paul Grace **Logged In:** 03/29/2019 12:48 **By:** Tom Gabrielson

Sample Conditions:

- [X] Custody Seals
- [X] Containers Intact
- [X] COC/Labels Agree
- [X] Preservation Confirmed
- [X] Cooler Temperature Confirmed
- [X] COC Complete
- [X] Chain of Custody Form Received
- [X] Appropriate Sample Volumes Received
- [X] Appropriate Sample Containers Submitted
- [X] Samples Submitted within Holding Times
- [ ] Corrective Action Form Required

Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
19C1266-01	EPA 3015A	04/01/2019 13:13	04/01/2019 13:13	Sarah Yu
19C1266-02	EPA 3015A	04/01/2019 13:13	04/01/2019 13:13	Sarah Yu
19C1266-03	EPA 3015A	04/01/2019 13:13	04/01/2019 13:13	Sarah Yu
19C1266-05	EPA 3015A	04/01/2019 13:13	04/01/2019 13:13	Sarah Yu
19C1266-01	EPA 5030B	04/03/2019 7:00	04/03/2019 7:00	Lie Ling Jauw
19C1266-01RE1	EPA 5030B	04/03/2019 7:00	04/03/2019 7:00	Lie Ling Jauw
19C1266-02	EPA 5030B	04/03/2019 7:00	04/03/2019 7:00	Lie Ling Jauw
19C1266-03	EPA 5030B	04/03/2019 7:00	04/03/2019 7:00	Lie Ling Jauw
19C1266-04	EPA 5030B	04/03/2019 7:00	04/03/2019 7:00	Lie Ling Jauw
19C1266-05	EPA 5030B	04/03/2019 7:00	04/03/2019 7:00	Lie Ling Jauw
19C1266-05RE1	EPA 5030B	04/03/2019 7:00	04/03/2019 7:00	Lie Ling Jauw
19C1266-06	EPA 5030B	04/03/2019 7:00	04/03/2019 7:00	Lie Ling Jauw
19C1266-01	EPA 7473 water	04/04/2019 9:09	04/04/2019 9:09	Sarah Yu
19C1266-02	EPA 7473 water	04/04/2019 9:09	04/04/2019 9:09	Sarah Yu
19C1266-03	EPA 7473 water	04/04/2019 9:09	04/04/2019 9:09	Sarah Yu
19C1266-05	EPA 7473 water	04/04/2019 9:09	04/04/2019 9:09	Sarah Yu

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
19C1266-01	Mercury by 7473	04/04/2019 9:09	04/04/2019 10:03	Sarah Yu
19C1266-02	Mercury by 7473	04/04/2019 9:09	04/04/2019 10:14	Sarah Yu
19C1266-03	Mercury by 7473	04/04/2019 9:09	04/04/2019 10:24	Sarah Yu
19C1266-05	Mercury by 7473	04/04/2019 9:09	04/04/2019 10:35	Sarah Yu
19C1266-01	Metals, Priority Pollutant	04/01/2019 13:13	04/03/2019 11:10	Kristin M. Lopez

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
19C1266-02	Metals, Priority Pollutant	04/01/2019 13:13	04/03/2019 11:20	Kristin M. Lopez
19C1266-03	Metals, Priority Pollutant	04/01/2019 13:13	04/03/2019 11:22	Kristin M. Lopez
19C1266-05	Metals, Priority Pollutant	04/01/2019 13:13	04/03/2019 11:25	Kristin M. Lopez
19C1266-01	Volatile Organics, 8260 - Comprehens	04/03/2019 7:00	04/04/2019 4:44	Lie Ling Jauw
19C1266-01RE1	Volatile Organics, 8260 - Comprehens	04/03/2019 7:00	04/05/2019 18:23	Lie Ling Jauw
19C1266-02	Volatile Organics, 8260 - Comprehens	04/03/2019 7:00	04/04/2019 5:12	Lie Ling Jauw
19C1266-03	Volatile Organics, 8260 - Comprehens	04/03/2019 7:00	04/04/2019 5:42	Lie Ling Jauw
19C1266-04	Volatile Organics, 8260 - Comprehens	04/03/2019 7:00	04/04/2019 6:09	Lie Ling Jauw
19C1266-05	Volatile Organics, 8260 - Comprehens	04/03/2019 7:00	04/04/2019 6:37	Lie Ling Jauw
19C1266-05RE1	Volatile Organics, 8260 - Comprehens	04/03/2019 7:00	04/05/2019 18:50	Lie Ling Jauw
19C1266-06	Volatile Organics, 8260 - Comprehens	04/03/2019 7:00	04/04/2019 7:05	Lie Ling Jauw

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 19C1266

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: CHAZEN	Company: CHAZEN	Company: CHAZEN
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact: ERIC ORLOWSKI	Contact: ERIC ORLOWSKI	Contact: ACCTS PAYABLE
E-mail:	E-mail:	E-mail:

YOUR Project Number: 41103.00

YOUR Project Name: KINGSTON CVS

YOUR PO#: 04455

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please 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 any questions by YORK are resolved.

ERIC ORLOWSKI

Samples Collected by: (print your name above and sign below)

EJOrlowski

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)

Summary Report (circled)
QA Report
NY ASP A Package
NY ASP B Package (circled)
CT RCP
CT RCP DQA/DUE
NJDEP Reduced Deliverables
NJDKQP
Standard Excel EDD
EQuIS (Standard)
NYSDEC EQuIS
NJDEP SRP HazSite
Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
KC-MW-01 0319	GW	3/28/2019 1339	8260 VOCs, Priority Pollutant Metals	3x40mL, 1x500mL
KC-MW-02 0319	↓	1415	↓	3x40mL, 1x500mL
KC-MW-05 0319	↓	1018	↓	3x40mL, 1x1L
KC-MW-07 0319	↓	1242	↓	3x40mL
KC-MW-DUP 0319	↓	↓	, Priority Pollutant Metals	3x40mL, 1x1L
TRIP BLANK 0319	DI		↓	3x40mL

Comments: SAMPLES RELINQUISHED TO SECURE FRIDGE AT CHAZEN ON 3/28/19 AT 20:00

Preservation: (check all that apply)

HCl X MeOH ___ HNO3 X H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: 4°C

Special Instruction

Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
EJOrlowski	3/28/2019 20:00	Chazen	3-29-19 10:10	Chazen	3-29-19
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				EGrace 3-29-19 1415	@ 1.5 Degrees C

York Analytical Laboratories, Inc.
SDG: 19C1266
CLASS: VOA
METHOD: EPA 8260C

DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 0319	19C1266-01
KC-MW-01 0319	19C1266-01RE1
KC-MW-02 0319	19C1266-02
KC-MW-05 0319	19C1266-03
KC-MW-07 0319	19C1266-04
KC-MW-DUP 0319	19C1266-05
KC-MW-DUP 0319	19C1266-05RE1
TRIP BLANK 0319	19C1266-06

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: 4/11/2019 Title: Laboratory Director

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Sequence: Y9D0415 Instrument: QVOA6

Calibration: YC90007

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BD90225-BS1)			Lab File ID: QV613934.D		Analyzed: 04/03/19 23:40			
SURR: 1,2-Dichloroethane-d4	10.0	107	69 - 130	5.778	5.777222	0.0008	+/-1.00	
SURR: Toluene-d8	10.0	102	81 - 117	7.62	7.620667	-0.0007	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	111	79 - 122	10.391	10.39078	0.0002	+/-1.00	
LCS Dup (BD90225-BSD1)			Lab File ID: QV613935.D		Analyzed: 04/04/19 00:11			
SURR: 1,2-Dichloroethane-d4	10.0	109	69 - 130	5.775	5.777222	-0.0022	+/-1.00	
SURR: Toluene-d8	10.0	102	81 - 117	7.62	7.620667	-0.0007	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	109	79 - 122	10.388	10.39078	-0.0028	+/-1.00	
Blank (BD90225-BLK1)			Lab File ID: QV613937.D		Analyzed: 04/04/19 01:12			
SURR: 1,2-Dichloroethane-d4	10.0	108	69 - 130	5.778	5.777222	0.0008	+/-1.00	
SURR: Toluene-d8	10.0	104	81 - 117	7.62	7.620667	-0.0007	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	110	79 - 122	10.391	10.39078	0.0002	+/-1.00	
KC-MW-01 0319 (19C1266-01)			Lab File ID: QV613944.D		Analyzed: 04/04/19 04:44			
SURR: 1,2-Dichloroethane-d4	10.0	106	69 - 130	5.778	5.777222	0.0008	+/-1.00	
SURR: Toluene-d8	10.0	104	81 - 117	7.622	7.620667	0.0013	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	114	79 - 122	10.394	10.39078	0.0032	+/-1.00	
KC-MW-02 0319 (19C1266-02)			Lab File ID: QV613945.D		Analyzed: 04/04/19 05:12			
SURR: 1,2-Dichloroethane-d4	10.0	105	69 - 130	5.775	5.777222	-0.0022	+/-1.00	
SURR: Toluene-d8	10.0	105	81 - 117	7.622	7.620667	0.0013	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	111	79 - 122	10.391	10.39078	0.0002	+/-1.00	
KC-MW-05 0319 (19C1266-03)			Lab File ID: QV613946.D		Analyzed: 04/04/19 05:42			
SURR: 1,2-Dichloroethane-d4	10.0	110	69 - 130	5.78	5.777222	0.0028	+/-1.00	
SURR: Toluene-d8	10.0	105	81 - 117	7.622	7.620667	0.0013	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	112	79 - 122	10.391	10.39078	0.0002	+/-1.00	
KC-MW-07 0319 (19C1266-04)			Lab File ID: QV613947.D		Analyzed: 04/04/19 06:09			
SURR: 1,2-Dichloroethane-d4	10.0	112	69 - 130	5.783	5.777222	0.0058	+/-1.00	
SURR: Toluene-d8	10.0	105	81 - 117	7.622	7.620667	0.0013	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	112	79 - 122	10.391	10.39078	0.0002	+/-1.00	
KC-MW-DUP 0319 (19C1266-05)			Lab File ID: QV613948.D		Analyzed: 04/04/19 06:37			
SURR: 1,2-Dichloroethane-d4	10.0	110	69 - 130	5.783	5.777222	0.0058	+/-1.00	
SURR: Toluene-d8	10.0	106	81 - 117	7.625	7.620667	0.0043	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	115	79 - 122	10.388	10.39078	-0.0028	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y9D0415	Instrument:	QVOA6
		Calibration:	YC90007

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
TRIP BLANK 0319 (19C1266-06)			Lab File ID: QV613949.D		Analyzed: 04/04/19 07:05			
SURR: 1,2-Dichloroethane-d4	10.0	108	69 - 130	5.786	5.777222	0.0088	+/-1.00	
SURR: Toluene-d8	10.0	104	81 - 117	7.625	7.620667	0.0043	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	114	79 - 122	10.393	10.39078	0.0022	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Sequence: Y9D0501
Instrument: QVOA6
Calibration: YC90007

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BD90281-BS1)			Lab File ID: QV614015.D		Analyzed: 04/05/19 15:00			
SURR: 1,2-Dichloroethane-d4	10.0	101	69 - 130	5.783	5.777222	0.0058	+/-1.00	
SURR: Toluene-d8	10.0	106	81 - 117	7.622	7.620667	0.0013	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	111	79 - 122	10.391	10.39078	0.0002	+/-1.00	
Blank (BD90281-BLK1)			Lab File ID: QV614017.D		Analyzed: 04/05/19 16:02			
SURR: 1,2-Dichloroethane-d4	10.0	106	69 - 130	5.781	5.777222	0.0038	+/-1.00	
SURR: Toluene-d8	10.0	105	81 - 117	7.622	7.620667	0.0013	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	113	79 - 122	10.385	10.39078	-0.0058	+/-1.00	
LCS Dup (BD90281-BSD1)			Lab File ID: QV614018.D		Analyzed: 04/05/19 16:29			
SURR: 1,2-Dichloroethane-d4	10.0	108	69 - 130	5.781	5.777222	0.0038	+/-1.00	
SURR: Toluene-d8	10.0	103	81 - 117	7.622	7.620667	0.0013	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	112	79 - 122	10.388	10.39078	-0.0028	+/-1.00	
KC-MW-01 0319 (19C1266-01RE1)			Lab File ID: QV614022.D		Analyzed: 04/05/19 18:23			
SURR: 1,2-Dichloroethane-d4	10.0	108	69 - 130	5.781	5.777222	0.0038	+/-1.00	
SURR: Toluene-d8	10.0	104	81 - 117	7.625	7.620667	0.0043	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	113	79 - 122	10.391	10.39078	0.0002	+/-1.00	
KC-MW-DUP 0319 (19C1266-05RE1)			Lab File ID: QV614023.D		Analyzed: 04/05/19 18:50			
SURR: 1,2-Dichloroethane-d4	10.0	106	69 - 130	5.783	5.777222	0.0058	+/-1.00	
SURR: Toluene-d8	10.0	105	81 - 117	7.622	7.620667	0.0013	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	113	79 - 122	10.391	10.39078	0.0002	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BD90225	Laboratory ID:	BD90225-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	8.8	87.9	82 - 126
1,1,1-Trichloroethane	10.0	10	103	78 - 136
1,1,2,2-Tetrachloroethane	10.0	11	109	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10	103	54 - 165
1,1,2-Trichloroethane	10.0	8.8	87.9	82 - 123
1,1-Dichloroethane	10.0	10	99.9	82 - 129
1,1-Dichloroethylene	10.0	9.6	96.1	68 - 138
1,2,3-Trichlorobenzene	10.0	8.3	83.2	76 - 136
1,2,3-Trichloropropane	10.0	11	107	77 - 128
1,2,4-Trichlorobenzene	10.0	8.9	88.9	76 - 137
1,2,4-Trimethylbenzene	10.0	11	108	82 - 132
1,2-Dibromo-3-chloropropane	10.0	9.5	94.9	45 - 147
1,2-Dibromoethane	10.0	8.9	89.1	83 - 124
1,2-Dichlorobenzene	10.0	10	103	79 - 123
1,2-Dichloroethane	10.0	9.8	97.7	73 - 132
1,2-Dichloropropane	10.0	9.1	90.6	78 - 126
1,3,5-Trimethylbenzene	10.0	11	110	80 - 131
1,3-Dichlorobenzene	10.0	10	101	86 - 122
1,4-Dichlorobenzene	10.0	10	101	85 - 124
1,4-Dioxane	210	50	24.0	10 - 349
2-Butanone	10.0	9.0	89.5	49 - 152
2-Hexanone	10.0	8.8	87.7	51 - 146
4-Methyl-2-pentanone	10.0	9.4	94.0	57 - 145
Acetone	10.0	8.0	80.5	14 - 150
Acrolein	10.0	7.4	73.6	10 - 153
Acrylonitrile	10.0	9.8	98.0	51 - 150
Benzene	10.0	9.6	95.6	85 - 126
Bromochloromethane	10.0	10	100	77 - 128
Bromodichloromethane	10.0	9.2	91.5	79 - 128
Bromoform	10.0	6.4	64.5 *	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BD90225	Laboratory ID:	BD90225-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	7.3	73.3	43 - 168
Carbon disulfide	10.0	9.6	96.2	68 - 146
Carbon tetrachloride	10.0	9.5	95.0	77 - 141
Chlorobenzene	10.0	9.2	92.0	88 - 120
Chloroethane	10.0	8.9	88.8	65 - 136
Chloroform	10.0	9.9	98.9	82 - 128
Chloromethane	10.0	10	99.7	43 - 155
cis-1,2-Dichloroethylene	10.0	9.5	95.2	83 - 129
cis-1,3-Dichloropropylene	10.0	8.6	86.5	80 - 131
Cyclohexane	10.0	11	107	63 - 149
Dibromochloromethane	10.0	8.2	81.6	80 - 130
Dibromomethane	10.0	9.3	92.9	72 - 134
Dichlorodifluoromethane	10.0	11	106	44 - 144
Ethyl Benzene	10.0	9.8	98.2	80 - 131
Hexachlorobutadiene	10.0	7.1	71.3	67 - 146
Isopropylbenzene	10.0	11	114	76 - 140
Methyl acetate	10.0	8.5	85.1	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.5	95.1	76 - 135
Methylcyclohexane	10.0	10	100	72 - 143
Methylene chloride	10.0	10	104	55 - 137
n-Butylbenzene	10.0	12	125	79 - 132
n-Propylbenzene	10.0	12	117	78 - 133
o-Xylene	10.0	9.7	96.6	78 - 130
p- & m- Xylenes	20.0	20	99.8	77 - 133
p-Isopropyltoluene	10.0	11	111	81 - 136
sec-Butylbenzene	10.0	12	118	79 - 137
Styrene	10.0	9.1	91.2	67 - 132
tert-Butyl alcohol (TBA)	50.0	38	76.5	25 - 162
tert-Butylbenzene	10.0	11	111	77 - 138
Tetrachloroethylene	10.0	7.1	71.0 *	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BD90225	Laboratory ID:	BD90225-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	9.5	95.1	80 - 127
trans-1,2-Dichloroethylene	10.0	9.3	93.1	80 - 132
trans-1,3-Dichloropropylene	10.0	8.4	83.5	78 - 131
trans-1,4-dichloro-2-butene	10.0	10	102	63 - 141
Trichloroethylene	10.0	9.1	91.2	82 - 128
Trichlorofluoromethane	10.0	9.5	95.4	67 - 139
Vinyl Chloride	10.0	9.9	99.1	58 - 145

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: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Matrix: Water
Batch: BD90225
Laboratory ID: BD90225-BSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	8.9	89.0	1.24	30	82 - 126
1,1,1-Trichloroethane	10.0	11	110	6.47	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	10	104	4.51	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (	10.0	12	116	12.3	30	54 - 165
1,1,2-Trichloroethane	10.0	9.0	89.7	2.03	30	82 - 123
1,1-Dichloroethane	10.0	11	105	5.26	30	82 - 129
1,1-Dichloroethylene	10.0	10	102	6.15	30	68 - 138
1,2,3-Trichlorobenzene	10.0	8.2	82.2	1.21	30	76 - 136
1,2,3-Trichloropropane	10.0	11	108	0.650	30	77 - 128
1,2,4-Trichlorobenzene	10.0	8.5	84.9	4.60	30	76 - 137
1,2,4-Trimethylbenzene	10.0	11	110	1.93	30	82 - 132
1,2-Dibromo-3-chloropropane	10.0	8.6	86.3	9.49	30	45 - 147
1,2-Dibromoethane	10.0	9.1	90.8	1.89	30	83 - 124
1,2-Dichlorobenzene	10.0	10	104	1.26	30	79 - 123
1,2-Dichloroethane	10.0	10	104	6.73	30	73 - 132
1,2-Dichloropropane	10.0	9.5	94.9	4.64	30	78 - 126
1,3,5-Trimethylbenzene	10.0	11	114	3.84	30	80 - 131
1,3-Dichlorobenzene	10.0	10	104	2.44	30	86 - 122
1,4-Dichlorobenzene	10.0	10	102	1.28	30	85 - 124
1,4-Dioxane	210	48	22.9	4.59	30	10 - 349
2-Butanone	10.0	9.4	94.4	5.33	30	49 - 152
2-Hexanone	10.0	8.5	85.4	2.66	30	51 - 146
4-Methyl-2-pentanone	10.0	9.5	95.4	1.48	30	57 - 145
Acetone	10.0	8.3	82.9	2.94	30	14 - 150
Acrolein	10.0	7.9	78.9	6.95	30	10 - 153
Acrylonitrile	10.0	10	102	3.90	30	51 - 150
Benzene	10.0	10	102	6.28	30	85 - 126
Bromochloromethane	10.0	10	105	4.28	30	77 - 128
Bromodichloromethane	10.0	9.6	95.5	4.28	30	79 - 128
Bromoform	10.0	6.6	66.3 *	2.75	30	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Matrix: Water
Batch: BD90225
Laboratory ID: BD90225-BSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	8.0	79.9	8.62	30	43 - 168
Carbon disulfide	10.0	11	106	9.79	30	68 - 146
Carbon tetrachloride	10.0	10	101	6.02	30	77 - 141
Chlorobenzene	10.0	9.8	97.8	6.11	30	88 - 120
Chloroethane	10.0	9.3	93.2	4.84	30	65 - 136
Chloroform	10.0	11	105	6.08	30	82 - 128
Chloromethane	10.0	11	113	12.5	30	43 - 155
cis-1,2-Dichloroethylene	10.0	10	103	7.48	30	83 - 129
cis-1,3-Dichloropropylene	10.0	8.9	89.4	3.30	30	80 - 131
Cyclohexane	10.0	12	118	9.35	30	63 - 149
Dibromochloromethane	10.0	8.4	84.3	3.25	30	80 - 130
Dibromomethane	10.0	9.4	93.7	0.857	30	72 - 134
Dichlorodifluoromethane	10.0	12	119	11.5	30	44 - 144
Ethyl Benzene	10.0	10	104	5.64	30	80 - 131
Hexachlorobutadiene	10.0	7.8	77.7	8.59	30	67 - 146
Isopropylbenzene	10.0	12	117	2.42	30	76 - 140
Methyl acetate	10.0	8.5	85.4	0.352	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.8	97.9	2.90	30	76 - 135
Methylcyclohexane	10.0	11	106	6.01	30	72 - 143
Methylene chloride	10.0	11	111	7.08	30	55 - 137
n-Butylbenzene	10.0	13	127	1.67	30	79 - 132
n-Propylbenzene	10.0	12	118	0.939	30	78 - 133
o-Xylene	10.0	10	99.7	3.16	30	78 - 130
p- & m- Xylenes	20.0	21	105	5.13	30	77 - 133
p-Isopropyltoluene	10.0	11	114	3.02	30	81 - 136
sec-Butylbenzene	10.0	12	122	3.41	30	79 - 137
Styrene	10.0	9.5	94.9	3.98	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	41	82.3	7.25	30	25 - 162
tert-Butylbenzene	10.0	12	115	3.80	30	77 - 138
Tetrachloroethylene	10.0	7.7	77.0 *	8.11	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BD90225	Laboratory ID:	BD90225-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	10.0	10	100	5.42	30	80 - 127
trans-1,2-Dichloroethylene	10.0	10	99.8	6.95	30	80 - 132
trans-1,3-Dichloropropylene	10.0	8.5	84.6	1.31	30	78 - 131
trans-1,4-dichloro-2-butene	10.0	10	100	1.68	30	63 - 141
Trichloroethylene	10.0	9.9	98.6	7.80	30	82 - 128
Trichlorofluoromethane	10.0	10	104	8.43	30	67 - 139
Vinyl Chloride	10.0	11	107	7.76	30	58 - 145

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:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BD90281	Laboratory ID:	BD90281-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	8.4	84.0	82 - 126
1,1,1-Trichloroethane	10.0	10	104	78 - 136
1,1,2,2-Tetrachloroethane	10.0	11	106	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10	99.6	54 - 165
1,1,2-Trichloroethane	10.0	8.3	82.8	82 - 123
1,1-Dichloroethane	10.0	10	99.7	82 - 129
1,1-Dichloroethylene	10.0	9.8	97.5	68 - 138
1,2,3-Trichlorobenzene	10.0	7.3	73.2 *	76 - 136
1,2,3-Trichloropropane	10.0	11	108	77 - 128
1,2,4-Trichlorobenzene	10.0	8.0	80.2	76 - 137
1,2,4-Trimethylbenzene	10.0	11	109	82 - 132
1,2-Dibromo-3-chloropropane	10.0	8.8	88.3	45 - 147
1,2-Dibromoethane	10.0	8.6	85.7	83 - 124
1,2-Dichlorobenzene	10.0	11	106	79 - 123
1,2-Dichloroethane	10.0	9.4	93.5	73 - 132
1,2-Dichloropropane	10.0	8.9	89.0	78 - 126
1,3,5-Trimethylbenzene	10.0	11	113	80 - 131
1,3-Dichlorobenzene	10.0	11	105	86 - 122
1,4-Dichlorobenzene	10.0	10	104	85 - 124
1,4-Dioxane	210	47	22.5	10 - 349
2-Butanone	10.0	8.8	87.5	49 - 152
2-Hexanone	10.0	8.7	87.1	51 - 146
4-Methyl-2-pentanone	10.0	8.4	84.5	57 - 145
Acetone	10.0	8.0	80.1	14 - 150
Acrolein	10.0	8.0	80.3	10 - 153
Acrylonitrile	10.0	9.2	92.2	51 - 150
Benzene	10.0	9.5	94.8	85 - 126
Bromochloromethane	10.0	9.8	98.2	77 - 128
Bromodichloromethane	10.0	8.8	88.4	79 - 128
Bromoform	10.0	6.2	61.6 *	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BD90281	Laboratory ID:	BD90281-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	9.1	91.1	43 - 168
Carbon disulfide	10.0	9.2	92.3	68 - 146
Carbon tetrachloride	10.0	9.6	95.6	77 - 141
Chlorobenzene	10.0	9.1	91.4	88 - 120
Chloroethane	10.0	8.7	87.0	65 - 136
Chloroform	10.0	9.8	97.6	82 - 128
Chloromethane	10.0	9.2	92.3	43 - 155
cis-1,2-Dichloroethylene	10.0	9.6	96.1	83 - 129
cis-1,3-Dichloropropylene	10.0	8.1	81.2	80 - 131
Cyclohexane	10.0	10	104	63 - 149
Dibromochloromethane	10.0	8.1	80.9	80 - 130
Dibromomethane	10.0	8.9	88.8	72 - 134
Dichlorodifluoromethane	10.0	8.8	88.0	44 - 144
Ethyl Benzene	10.0	9.8	98.4	80 - 131
Hexachlorobutadiene	10.0	5.8	57.9 *	67 - 146
Isopropylbenzene	10.0	12	122	76 - 140
Methyl acetate	10.0	8.6	85.9	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	8.8	87.8	76 - 135
Methylcyclohexane	10.0	9.5	95.3	72 - 143
Methylene chloride	10.0	10	102	55 - 137
n-Butylbenzene	10.0	11	111	79 - 132
n-Propylbenzene	10.0	12	122	78 - 133
o-Xylene	10.0	9.5	94.7	78 - 130
p- & m- Xylenes	20.0	20	99.3	77 - 133
p-Isopropyltoluene	10.0	11	106	81 - 136
sec-Butylbenzene	10.0	12	115	79 - 137
Styrene	10.0	9.0	89.8	67 - 132
tert-Butyl alcohol (TBA)	50.0	36	72.9	25 - 162
tert-Butylbenzene	10.0	11	113	77 - 138
Tetrachloroethylene	10.0	7.4	74.5 *	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BD90281	Laboratory ID:	BD90281-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	9.5	95.0	80 - 127
trans-1,2-Dichloroethylene	10.0	9.3	92.7	80 - 132
trans-1,3-Dichloropropylene	10.0	8.2	82.2	78 - 131
trans-1,4-dichloro-2-butene	10.0	9.9	99.1	63 - 141
Trichloroethylene	10.0	9.3	92.9	82 - 128
Trichlorofluoromethane	10.0	9.6	95.8	67 - 139
Vinyl Chloride	10.0	9.6	95.8	58 - 145

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: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water

Batch: BD90281 Laboratory ID: BD90281-BSD1

Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.0	89.5	6.34	30	82 - 126
1,1,1-Trichloroethane	10.0	11	111	6.51	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	11	112	5.12	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (	10.0	11	108	8.28	30	54 - 165
1,1,2-Trichloroethane	10.0	8.7	87.4	5.41	30	82 - 123
1,1-Dichloroethane	10.0	10	104	4.61	30	82 - 129
1,1-Dichloroethylene	10.0	9.8	97.7	0.205	30	68 - 138
1,2,3-Trichlorobenzene	10.0	6.9	69.1 *	5.76	30	76 - 136
1,2,3-Trichloropropane	10.0	12	116	6.96	30	77 - 128
1,2,4-Trichlorobenzene	10.0	8.0	80.5	0.373	30	76 - 137
1,2,4-Trimethylbenzene	10.0	11	112	2.08	30	82 - 132
1,2-Dibromo-3-chloropropane	10.0	8.3	83.0	6.19	30	45 - 147
1,2-Dibromoethane	10.0	9.1	91.1	6.11	30	83 - 124
1,2-Dichlorobenzene	10.0	11	106	0.189	30	79 - 123
1,2-Dichloroethane	10.0	10	103	9.96	30	73 - 132
1,2-Dichloropropane	10.0	9.1	91.2	2.44	30	78 - 126
1,3,5-Trimethylbenzene	10.0	12	116	3.06	30	80 - 131
1,3-Dichlorobenzene	10.0	11	107	1.51	30	86 - 122
1,4-Dichlorobenzene	10.0	11	106	1.33	30	85 - 124
1,4-Dioxane	210	45	21.5	4.70	30	10 - 349
2-Butanone	10.0	9.8	97.5	10.8	30	49 - 152
2-Hexanone	10.0	8.9	89.1	2.27	30	51 - 146
4-Methyl-2-pentanone	10.0	9.6	96.1	12.8	30	57 - 145
Acetone	10.0	8.5	85.2	6.17	30	14 - 150
Acrolein	10.0	0.51	5.10 *	176 *	30	10 - 153
Acrylonitrile	10.0	10	102	9.60	30	51 - 150
Benzene	10.0	9.9	99.2	4.54	30	85 - 126
Bromochloromethane	10.0	11	107	8.48	30	77 - 128
Bromodichloromethane	10.0	9.2	92.0	3.99	30	79 - 128
Bromoform	10.0	6.6	65.6 *	6.29	30	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BD90281	Laboratory ID:	BD90281-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	9.8	97.8		7.09	30	43 - 168
Carbon disulfide	10.0	9.6	96.2		4.14	30	68 - 146
Carbon tetrachloride	10.0	10	102		6.77	30	77 - 141
Chlorobenzene	10.0	9.5	94.6		3.44	30	88 - 120
Chloroethane	10.0	8.6	85.5		1.74	30	65 - 136
Chloroform	10.0	10	102		4.41	30	82 - 128
Chloromethane	10.0	9.6	96.5		4.45	30	43 - 155
cis-1,2-Dichloroethylene	10.0	10	103		6.93	30	83 - 129
cis-1,3-Dichloropropylene	10.0	8.9	89.3		9.50	30	80 - 131
Cyclohexane	10.0	11	111		6.40	30	63 - 149
Dibromochloromethane	10.0	8.5	84.8		4.71	30	80 - 130
Dibromomethane	10.0	9.4	93.7		5.37	30	72 - 134
Dichlorodifluoromethane	10.0	9.2	91.5		3.90	30	44 - 144
Ethyl Benzene	10.0	10	101		2.21	30	80 - 131
Hexachlorobutadiene	10.0	6.5	64.6	*	10.9	30	67 - 146
Isopropylbenzene	10.0	12	124		1.22	30	76 - 140
Methyl acetate	10.0	8.9	88.9		3.43	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.6	95.5		8.40	30	76 - 135
Methylcyclohexane	10.0	10	103		8.15	30	72 - 143
Methylene chloride	10.0	11	109		7.30	30	55 - 137
n-Butylbenzene	10.0	11	112		1.52	30	79 - 132
n-Propylbenzene	10.0	12	124		1.06	30	78 - 133
o-Xylene	10.0	9.8	98.2		3.63	30	78 - 130
p- & m- Xylenes	20.0	21	103		3.46	30	77 - 133
p-Isopropyltoluene	10.0	11	115		8.15	30	81 - 136
sec-Butylbenzene	10.0	12	124		7.52	30	79 - 137
Styrene	10.0	9.3	93.1		3.61	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	37	74.8		2.63	30	25 - 162
tert-Butylbenzene	10.0	12	117		4.00	30	77 - 138
Tetrachloroethylene	10.0	7.5	75.1	*	0.802	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BD90281	Laboratory ID:	BD90281-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	10.0	9.9	98.9	4.02	30	80 - 127
trans-1,2-Dichloroethylene	10.0	9.6	95.6	3.08	30	80 - 132
trans-1,3-Dichloropropylene	10.0	8.6	86.5	5.10	30	78 - 131
trans-1,4-dichloro-2-butene	10.0	11	108	8.32	30	63 - 141
Trichloroethylene	10.0	9.4	94.4	1.60	30	82 - 128
Trichlorofluoromethane	10.0	9.1	90.9	5.25	30	67 - 139
Vinyl Chloride	10.0	9.9	99.4	3.69	30	58 - 145

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

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BD90225 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 0319	19C1266-01	QV613944.D	04/03/19 07:00	
KC-MW-02 0319	19C1266-02	QV613945.D	04/03/19 07:00	
KC-MW-05 0319	19C1266-03	QV613946.D	04/03/19 07:00	
KC-MW-07 0319	19C1266-04	QV613947.D	04/03/19 07:00	
KC-MW-DUP 0319	19C1266-05	QV613948.D	04/03/19 07:00	
TRIP BLANK 0319	19C1266-06	QV613949.D	04/03/19 07:00	
Blank	BD90225-BLK1	QV613937.D	04/03/19 07:00	
LCS	BD90225-BS1	QV613934.D	04/02/19 07:00	
LCS Dup	BD90225-BSD1	QV613935.D	04/02/19 07:00	

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BD90281 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 0319	19C1266-01RE1	QV614022.D	04/03/19 07:00	From BD90225 by LLJ on 04/05/2019
KC-MW-DUP 0319	19C1266-05RE1	QV614023.D	04/03/19 07:00	From BD90225 by LLJ on 04/05/2019
Blank	BD90281-BLK1	QV614017.D	04/05/19 07:19	
LCS	BD90281-BS1	QV614015.D	04/05/19 07:19	
LCS Dup	BD90281-BSD1	QV614018.D	04/05/19 07:19	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BD90225-BLK1	File ID:	QV613937.D
Prepared:	04/03/19 07:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	04/04/19 01:12	Instrument:	QVOA6		
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007

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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
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
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BD90225-BLK1	File ID:	QV613937.D
Prepared:	04/03/19 07:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	04/04/19 01:12	Instrument:	QVOA6		
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
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
110-82-7	Cyclohexane	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
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1.0	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:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BD90225-BLK1	File ID:	QV613937.D
Prepared:	04/03/19 07:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	04/04/19 01:12	Instrument:	QVOA6		
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007

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
110-57-6	trans-1,4-dichloro-2-butene	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
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	
SURR: p-Bromofluorobenzene	10.0	11.0	110	79 - 122	
SURR: Toluene-d8	10.0	10.4	104	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	271973	12.105	300249	12.102	
ISTD: Chlorobenzene-d5	843853	9.128	899612	9.122	
ISTD: Fluorobenzene	187040	6.081	196866	6.075	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BD90281-BLK1	File ID:	QV614017.D
Prepared:	04/05/19 07:19	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	04/05/19 16:02	Instrument:	QVOA6		
Batch:	BD90281	Sequence:	Y9D0501	Calibration:	YC90007

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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
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
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BD90281-BLK1	File ID:	QV614017.D
Prepared:	04/05/19 07:19	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	04/05/19 16:02	Instrument:	QVOA6		
Batch:	BD90281	Sequence:	Y9D0501	Calibration:	YC90007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
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
110-82-7	Cyclohexane	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
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1.0	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:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BD90281-BLK1	File ID:	QV614017.D
Prepared:	04/05/19 07:19	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	04/05/19 16:02	Instrument:	QVOA6		
Batch:	BD90281	Sequence:	Y9D0501	Calibration:	YC90007

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
110-57-6	trans-1,4-dichloro-2-butene	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
SURR: 1,2-Dichloroethane-d4	10.0	10.6	106	69 - 130	
SURR: p-Bromofluorobenzene	10.0	11.3	113	79 - 122	
SURR: Toluene-d8	10.0	10.5	105	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	257680	12.099	281829	12.096	
ISTD: Chlorobenzene-d5	873457	9.122	912751	9.122	
ISTD: Fluorobenzene	190121	6.078	199731	6.081	

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Lab File ID:	QV613526.D	Injection Date:	03/15/19
Instrument ID:	QVOA6	Injection Time:	16:58
Sequence:	Y9C1923	Lab Sample ID:	Y9C1923-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19	PASS
75	30 - 60% of 95	43.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.99	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	91.4	PASS
175	5 - 9% of 174	7.8	PASS
176	95 - 101% of 174	96.5	PASS
177	5 - 9% of 176	6.48	PASS

FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Lab File ID:	QV613931.D	Injection Date:	04/03/19
Instrument ID:	QVOA6	Injection Time:	22:03
Sequence:	Y9D0415	Lab Sample ID:	Y9D0415-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.3	PASS
75	30 - 60% of 95	46.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.77	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	81.6	PASS
175	5 - 9% of 174	7.85	PASS
176	95 - 101% of 174	95.7	PASS
177	5 - 9% of 176	6.65	PASS

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Lab File ID:	QV614013.D	Injection Date:	04/05/19
Instrument ID:	QVOA6	Injection Time:	14:00
Sequence:	Y9D0501	Lab Sample ID:	Y9D0501-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.9	PASS
75	30 - 60% of 95	48.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.59	PASS
173	Less than 2% of 174	0.0497	PASS
174	50 - 100% of 95	85.5	PASS
175	5 - 9% of 174	8	PASS
176	95 - 101% of 174	96.7	PASS
177	5 - 9% of 176	6.56	PASS

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y9C1923	Instrument:	QVOA6
		Calibration:	YC90007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y9C1923-TUN1	QV613526.D	03/15/19 16:58
Cal Standard	Y9C1923-CAL1	QV613527.D	03/15/19 17:25
Cal Standard	Y9C1923-CAL2	QV613528.D	03/15/19 17:52
Cal Standard	Y9C1923-CAL3	QV613529.D	03/15/19 18:20
Cal Standard	Y9C1923-CAL4	QV613530.D	03/15/19 18:48
Cal Standard	Y9C1923-CAL5	QV613531.D	03/15/19 19:20
Cal Standard	Y9C1923-CAL6	QV613532.D	03/15/19 19:57
Cal Standard	Y9C1923-CAL7	QV613533.D	03/15/19 20:29
Cal Standard	Y9C1923-CAL8	QV613534.D	03/15/19 21:02
Cal Standard	Y9C1923-CAL9	QV613535.D	03/15/19 21:34
Secondary Cal Check	Y9C1923-SCV1	QV613537.D	03/15/19 22:39

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y9D0415	Instrument:	QVOA6
		Calibration:	YC90007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y9D0415-TUN1	QV613931.D	04/03/19 22:03
Calibration Check	Y9D0415-CCV1	QV613933.D	04/03/19 23:09
LCS	BD90225-BS1	QV613934.D	04/03/19 23:40
LCS Dup	BD90225-BSD1	QV613935.D	04/04/19 00:11
Blank	BD90225-BLK1	QV613937.D	04/04/19 01:12
KC-MW-01 0319	19C1266-01	QV613944.D	04/04/19 04:44
KC-MW-02 0319	19C1266-02	QV613945.D	04/04/19 05:12
KC-MW-05 0319	19C1266-03	QV613946.D	04/04/19 05:42
KC-MW-07 0319	19C1266-04	QV613947.D	04/04/19 06:09
KC-MW-DUP 0319	19C1266-05	QV613948.D	04/04/19 06:37
TRIP BLANK 0319	19C1266-06	QV613949.D	04/04/19 07:05

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Sequence: Y9D0501
Instrument: QVOA6
Calibration: YC90007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y9D0501-TUN1	QV614013.D	04/05/19 14:00
Calibration Check	Y9D0501-CCV1	QV614014.D	04/05/19 14:26
LCS	BD90281-BS1	QV614015.D	04/05/19 15:00
Blank	BD90281-BLK1	QV614017.D	04/05/19 16:02
LCS Dup	BD90281-BSD1	QV614018.D	04/05/19 16:29
KC-MW-01 0319	19C1266-01RE1	QV614022.D	04/05/19 18:23
KC-MW-DUP 0319	19C1266-05RE1	QV614023.D	04/05/19 18:50

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS
Sequence: Y9C1923 Instrument: QVOA6
Calibration: YC90007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (Y9C1923-CAL1)			Lab File ID: QV613527.D			Analyzed: 03/15/19 17:25			
ISTD: Fluorobenzene	287223	6.078	287036	6.073	100	50 - 200	0.0050	+/-0.17	
ISTD: Chlorobenzene-d5	1309221	9.125	1303763	9.122	100	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	476734	12.099	505561	12.102	94	50 - 200	-0.0030	+/-0.17	
Cal Standard (Y9C1923-CAL2)			Lab File ID: QV613528.D			Analyzed: 03/15/19 17:52			
ISTD: Fluorobenzene	296957	6.081	287036	6.073	103	50 - 200	0.0080	+/-0.17	
ISTD: Chlorobenzene-d5	1334749	9.125	1303763	9.122	102	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	484736	12.102	505561	12.102	96	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9C1923-CAL3)			Lab File ID: QV613529.D			Analyzed: 03/15/19 18:20			
ISTD: Fluorobenzene	289430	6.081	287036	6.073	101	50 - 200	0.0080	+/-0.17	
ISTD: Chlorobenzene-d5	1316067	9.125	1303763	9.122	101	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	490864	12.102	505561	12.102	97	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9C1923-CAL4)			Lab File ID: QV613530.D			Analyzed: 03/15/19 18:48			
ISTD: Fluorobenzene	287036	6.073	287036	6.073	100	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1303763	9.122	1303763	9.122	100	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	505561	12.102	505561	12.102	100	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9C1923-CAL5)			Lab File ID: QV613531.D			Analyzed: 03/15/19 19:20			
ISTD: Fluorobenzene	286431	6.078	287036	6.073	100	50 - 200	0.0050	+/-0.17	
ISTD: Chlorobenzene-d5	1328010	9.125	1303763	9.122	102	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	504469	12.102	505561	12.102	100	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9C1923-CAL6)			Lab File ID: QV613532.D			Analyzed: 03/15/19 19:57			
ISTD: Fluorobenzene	293521	6.075	287036	6.073	102	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	1344007	9.125	1303763	9.122	103	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	517968	12.102	505561	12.102	102	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9C1923-CAL7)			Lab File ID: QV613533.D			Analyzed: 03/15/19 20:29			
ISTD: Fluorobenzene	293883	6.073	287036	6.073	102	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1300492	9.125	1303763	9.122	100	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	527691	12.105	505561	12.102	104	50 - 200	0.0030	+/-0.17	
Cal Standard (Y9C1923-CAL8)			Lab File ID: QV613534.D			Analyzed: 03/15/19 21:02			
ISTD: Fluorobenzene	295938	6.075	287036	6.073	103	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	1290857	9.125	1303763	9.122	99	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	543548	12.105	505561	12.102	108	50 - 200	0.0030	+/-0.17	
Cal Standard (Y9C1923-CAL9)			Lab File ID: QV613535.D			Analyzed: 03/15/19 21:34			
ISTD: Fluorobenzene	299515	6.07	287036	6.073	104	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	1288537	9.125	1303763	9.122	99	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	564993	12.104	505561	12.102	112	50 - 200	0.0020	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y9C1923	Instrument:	QVOA6
		Calibration:	YC90007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (Y9C1923-SCV1)			Lab File ID: QV613537.D			Analyzed: 03/15/19 22:39			
ISTD: Fluorobenzene	286276	6.073	287036	6.073	100	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1321182	9.122	1303763	9.122	101	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	517263	12.102	505561	12.102	102	50 - 200	0.0000	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS
Sequence: Y9D0415 Instrument: QVOA6
Calibration: YC90007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y9D0415-CCV1)			Lab File ID: QV613933.D			Analyzed: 04/03/19 23:09			
ISTD: Fluorobenzene	196866	6.075				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	899612	9.122				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	300249	12.102				50 - 200		+/-0.17	
LCS (BD90225-BS1)			Lab File ID: QV613934.D			Analyzed: 04/03/19 23:40			
ISTD: Fluorobenzene	198827	6.075	196866	6.075	101	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	906964	9.125	899612	9.122	101	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	294538	12.102	300249	12.102	98	50 - 200	0.0000	+/-0.17	
LCS Dup (BD90225-BSD1)			Lab File ID: QV613935.D			Analyzed: 04/04/19 00:11			
ISTD: Fluorobenzene	195775	6.075	196866	6.075	99	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	901447	9.125	899612	9.122	100	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	301001	12.102	300249	12.102	100	50 - 200	0.0000	+/-0.17	
Blank (BD90225-BLK1)			Lab File ID: QV613937.D			Analyzed: 04/04/19 01:12			
ISTD: Fluorobenzene	187040	6.081	196866	6.075	95	50 - 200	0.0060	+/-0.17	
ISTD: Chlorobenzene-d5	843853	9.128	899612	9.122	94	50 - 200	0.0060	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	271973	12.105	300249	12.102	91	50 - 200	0.0030	+/-0.17	
KC-MW-01 0319 (19C1266-01)			Lab File ID: QV613944.D			Analyzed: 04/04/19 04:44			
ISTD: Fluorobenzene	192077	6.076	196866	6.075	98	50 - 200	0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	900731	9.125	899612	9.122	100	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	271629	12.102	300249	12.102	90	50 - 200	0.0000	+/-0.17	
KC-MW-02 0319 (19C1266-02)			Lab File ID: QV613945.D			Analyzed: 04/04/19 05:12			
ISTD: Fluorobenzene	184752	6.078	196866	6.075	94	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	831391	9.125	899612	9.122	92	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	259787	12.105	300249	12.102	87	50 - 200	0.0030	+/-0.17	
KC-MW-05 0319 (19C1266-03)			Lab File ID: QV613946.D			Analyzed: 04/04/19 05:42			
ISTD: Fluorobenzene	182652	6.081	196866	6.075	93	50 - 200	0.0060	+/-0.17	
ISTD: Chlorobenzene-d5	826195	9.125	899612	9.122	92	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	257999	12.102	300249	12.102	86	50 - 200	0.0000	+/-0.17	
KC-MW-07 0319 (19C1266-04)			Lab File ID: QV613947.D			Analyzed: 04/04/19 06:09			
ISTD: Fluorobenzene	177393	6.084	196866	6.075	90	50 - 200	0.0090	+/-0.17	
ISTD: Chlorobenzene-d5	813896	9.125	899612	9.122	90	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	253141	12.099	300249	12.102	84	50 - 200	-0.0030	+/-0.17	
KC-MW-DUP 0319 (19C1266-05)			Lab File ID: QV613948.D			Analyzed: 04/04/19 06:37			
ISTD: Fluorobenzene	189190	6.084	196866	6.075	96	50 - 200	0.0090	+/-0.17	
ISTD: Chlorobenzene-d5	874238	9.125	899612	9.122	97	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	263802	12.105	300249	12.102	88	50 - 200	0.0030	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS
Sequence: Y9D0415 Instrument: QVOA6
Calibration: YC90007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TRIP BLANK 0319 (19C1266-06)			Lab File ID: QV613949.D			Analyzed: 04/04/19 07:05			
ISTD: Fluorobenzene	181753	6.084	196866	6.075	92	50 - 200	0.0090	+/-0.17	
ISTD: Chlorobenzene-d5	823867	9.125	899612	9.122	92	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	252943	12.102	300249	12.102	84	50 - 200	0.0000	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS
Sequence: Y9D0501 Instrument: QVOA6
Calibration: YC90007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y9D0501-CCV1)			Lab File ID: QV614014.D			Analyzed: 04/05/19 14:26			
ISTD: Fluorobenzene	199731	6.081				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	912751	9.122				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	281829	12.096				50 - 200		+/-0.17	
LCS (BD90281-BS1)			Lab File ID: QV614015.D			Analyzed: 04/05/19 15:00			
ISTD: Fluorobenzene	195319	6.084	199731	6.081	98	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	891014	9.125	912751	9.122	98	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	267432	12.099	281829	12.096	95	50 - 200	0.0030	+/-0.17	
Blank (BD90281-BLK1)			Lab File ID: QV614017.D			Analyzed: 04/05/19 16:02			
ISTD: Fluorobenzene	190121	6.078	199731	6.081	95	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	873457	9.122	912751	9.122	96	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	257680	12.099	281829	12.096	91	50 - 200	0.0030	+/-0.17	
LCS Dup (BD90281-BSD1)			Lab File ID: QV614018.D			Analyzed: 04/05/19 16:29			
ISTD: Fluorobenzene	198780	6.081	199731	6.081	100	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	937217	9.122	912751	9.122	103	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	290563	12.102	281829	12.096	103	50 - 200	0.0060	+/-0.17	
KC-MW-01 0319 (19C1266-01RE1)			Lab File ID: QV614022.D			Analyzed: 04/05/19 18:23			
ISTD: Fluorobenzene	194203	6.081	199731	6.081	97	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	899535	9.125	912751	9.122	99	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	266333	12.102	281829	12.096	95	50 - 200	0.0060	+/-0.17	
KC-MW-DUP 0319 (19C1266-05RE1)			Lab File ID: QV614023.D			Analyzed: 04/05/19 18:50			
ISTD: Fluorobenzene	193163	6.081	199731	6.081	97	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	884586	9.125	912751	9.122	97	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	264601	12.099	281829	12.096	94	50 - 200	0.0030	+/-0.17	

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

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 0319	03/28/19 13:39	03/29/19 14:15	04/03/19 07:00	5.72	14.00	04/04/19 04:44	6.63	14.00	
KC-MW-01 0319	03/28/19 13:39	03/29/19 14:15	04/03/19 07:00	5.72	14.00	04/05/19 18:23	8.20	14.00	
KC-MW-02 0319	03/28/19 14:15	03/29/19 14:15	04/03/19 07:00	5.70	14.00	04/04/19 05:12	6.62	14.00	
KC-MW-05 0319	03/28/19 10:18	03/29/19 14:15	04/03/19 07:00	5.86	14.00	04/04/19 05:42	6.81	14.00	
KC-MW-07 0319	03/28/19 12:42	03/29/19 14:15	04/03/19 07:00	5.76	14.00	04/04/19 06:09	6.73	14.00	
KC-MW-DUP 0319	03/28/19 00:00	03/29/19 14:15	04/03/19 07:00	6.29	14.00	04/04/19 06:37	7.28	14.00	
KC-MW-DUP 0319	03/28/19 00:00	03/29/19 14:15	04/03/19 07:00	6.29	14.00	04/05/19 18:50	8.78	14.00	
TRIP BLANK 0319	03/28/19 00:00	03/29/19 14:15	04/03/19 07:00	6.29	14.00	04/04/19 07:05	7.30	14.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19C1266

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** QVOA6

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 (Fr	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
1,2,3-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
1,4-Dichlorobenzene	0.20	0.50	ug/L
1,4-Dioxane	40	40	ug/L
2-Butanone	0.20	0.50	ug/L
2-Hexanone	0.20	0.50	ug/L
4-Methyl-2-pentanone	0.20	0.50	ug/L
Acetone	1.0	2.0	ug/L
Acrolein	0.20	0.50	ug/L
Acrylonitrile	0.20	0.50	ug/L
Benzene	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
Chloroethane	0.20	0.50	ug/L
Chloroform	0.20	0.50	ug/L
Chloromethane	0.20	0.50	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19C1266

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** QVOA6

Analyte	LOD	LOQ	Units
cis-1,2-Dichloroethylene	0.20	0.50	ug/L
cis-1,3-Dichloropropylene	0.20	0.50	ug/L
Cyclohexane	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 acetate	0.20	0.50	ug/L
Methyl tert-butyl ether (MTBE)	0.20	0.50	ug/L
Methylcyclohexane	0.20	0.50	ug/L
Methylene chloride	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-Butyl alcohol (TBA)	0.50	1.0	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
trans-1,4-dichloro-2-butene	0.20	0.50	ug/L
Trichloroethylene	0.20	0.50	ug/L
Trichlorofluoromethane	0.20	0.50	ug/L
Vinyl Chloride	0.20	0.50	ug/L
Xylenes, Total	0.60	1.5	ug/L

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

KC-MW-01 0319

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19C1266-01	File ID:	QV613944.D
Sampled:	03/28/19 13:39	Prepared:	04/03/19 07:00	Analyzed:	04/04/19 04:44
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007
Instrument:	QVOA6				

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	2.8	
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	1.6	
75-35-4	1,1-Dichloroethylene	1	4.3	
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
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	1.1	J
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	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	0.28	J
74-87-3	Chloromethane	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-01 0319

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19C1266-01	File ID:	QV613944.D
Sampled:	03/28/19 13:39	Prepared:	04/03/19 07:00	Analyzed:	04/04/19 04:44
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
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
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.35	J
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	40	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	150	
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.6	106	69 - 130	
SURR: Toluene-d8	10.0	10.4	104	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.4	114	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	192077	6.076	196866	6.075	
ISTD: Chlorobenzene-d5	900731	9.125	899612	9.122	
ISTD: 1,2-Dichlorobenzene-d4	271629	12.102	300249	12.102	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613944.D
Acq On : 4 Apr 2019 4:44 am
InstName : QVOA6
Operator : LLJ
Sample : 19C1266-01
Misc : QBQV6040219C 8260 B
ALS Vial : 93 Sample Multiplier: 1

Quant Time: Apr 04 10:18:48 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

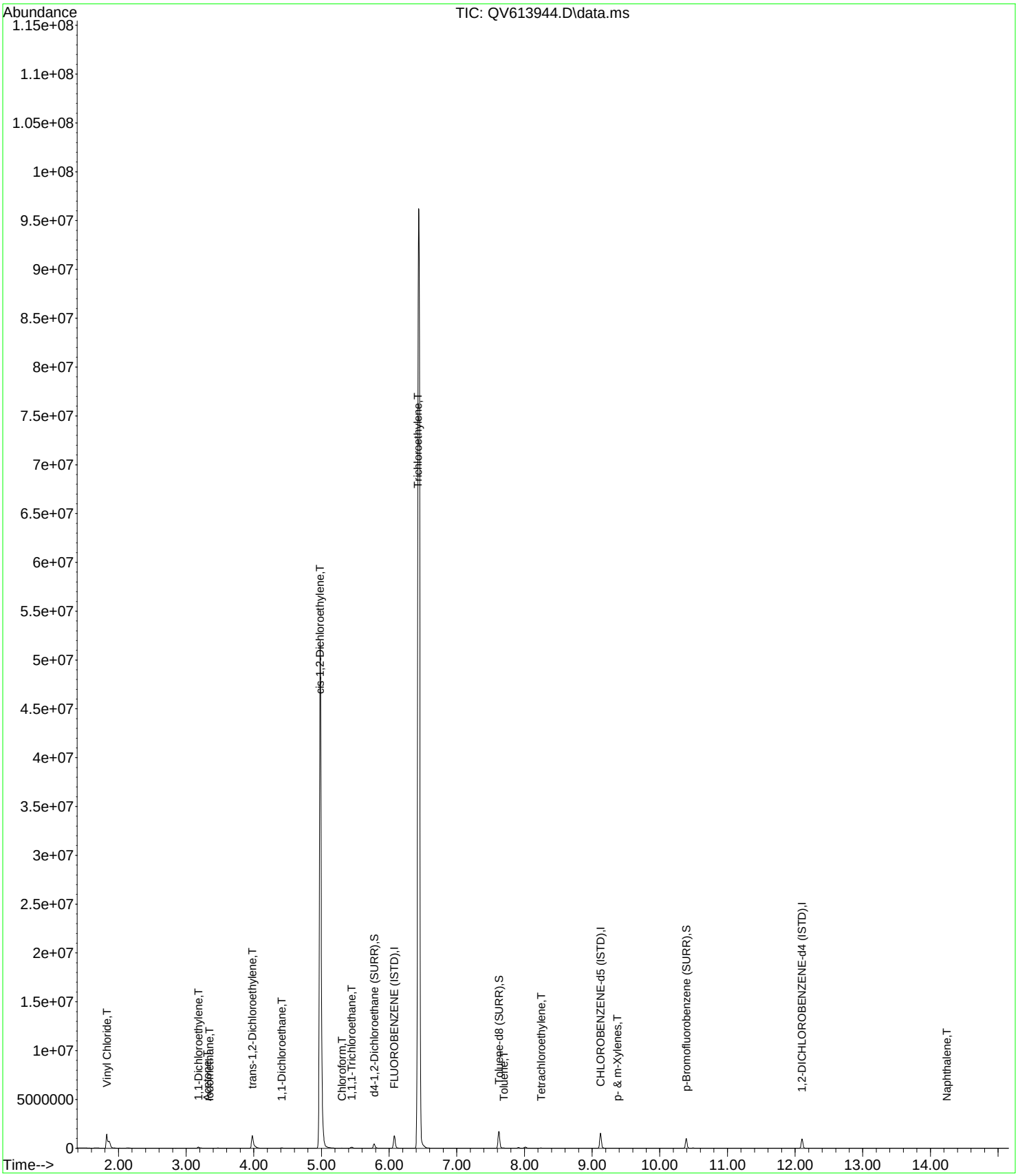
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.076	70	192077	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	900731	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	271629	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.778	65	257890	10.62	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 106.20%				
51) Toluene-d8 (SURR)	7.622	98	1169800	10.40	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 104.00%				
70) p-Bromofluorobenzene (...	10.394	95	334874	11.44	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 114.40%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.827	62	2008150m	151.63	ppb		
10) 1,1-Dichloroethylene	3.182	61	83505	4.31	ppb	#	64
12) Acetone	3.313	43	4835	1.14	ppb		100
13) Iodomethane	3.346	142	288	1.91	ppb		99
19) trans-1,2-Dichloroethy...	3.978	61	795683	40.31	ppb		96
21) 1,1-Dichloroethane	4.412	63	40117	1.60	ppb	#	87
25) cis-1,2-Dichloroethylene	4.974	61	20590685m	891.74	ppb		
30) Chloroform	5.302	83	7001m	0.28	ppb		
31) 1,1,1-Trichloroethane	5.444	97	66662	2.81	ppb	#	82
41) Trichloroethylene	6.423	95	22107426m	1315.66	ppb		
52) Toluene	7.695	91	11612	0.16	ppb		99
56) Tetrachloroethylene	8.246	166	7913	0.35	ppb	#	95
63) p- & m-Xylenes	9.373	91	6850	0.12	ppb	#	61
93) Naphthalene	14.241	128	5616m	0.17	ppb		

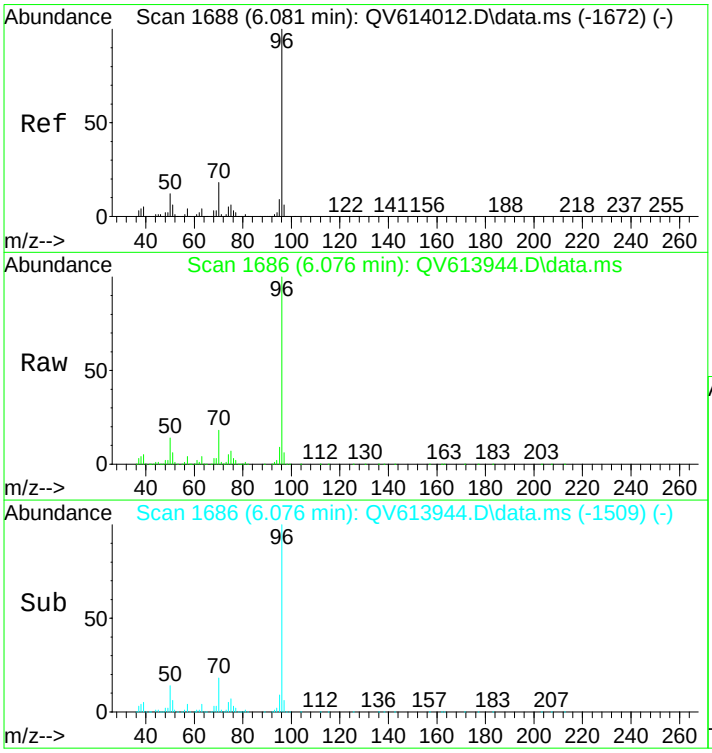
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613944.D
Acq On : 4 Apr 2019 4:44 am
InstName : QVOA6
Operator : LLJ
Sample : 19C1266-01
Misc : QBQV6040219C 8260 B
ALS Vial : 93 Sample Multiplier: 1

Quant Time: Apr 04 10:18:48 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

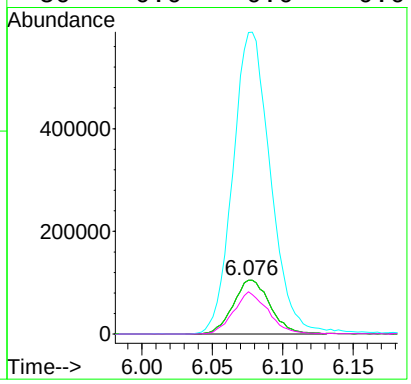


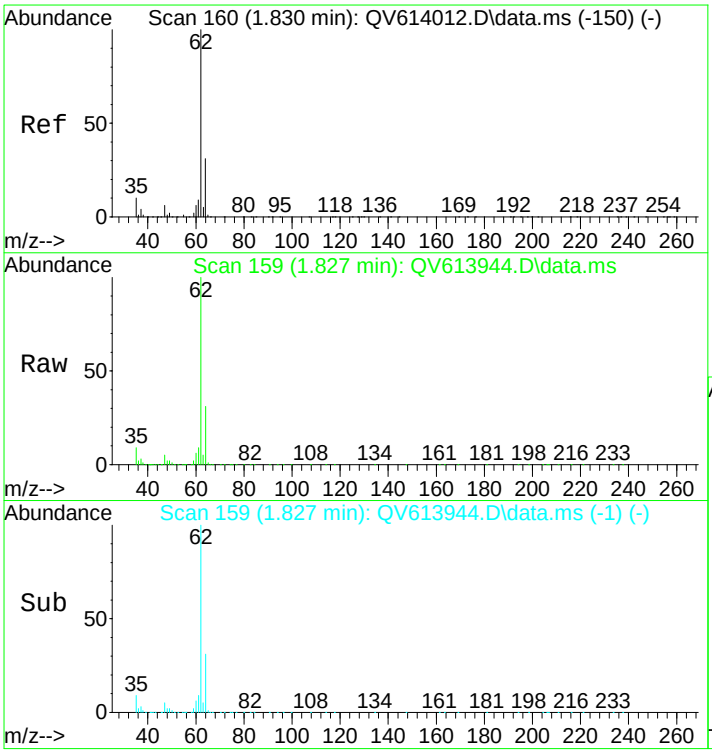


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 6.076 min Scan# 1686
Delta R.T. -0.006 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 70 Resp: 192077

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	571.2	341.1	708.3
50	0.0	0.0	0.0

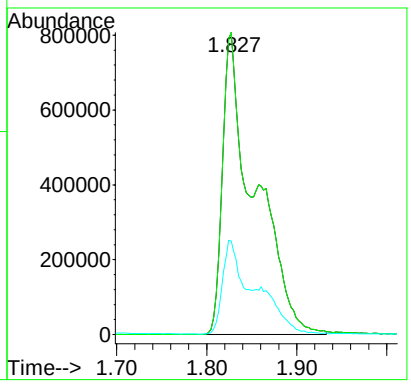


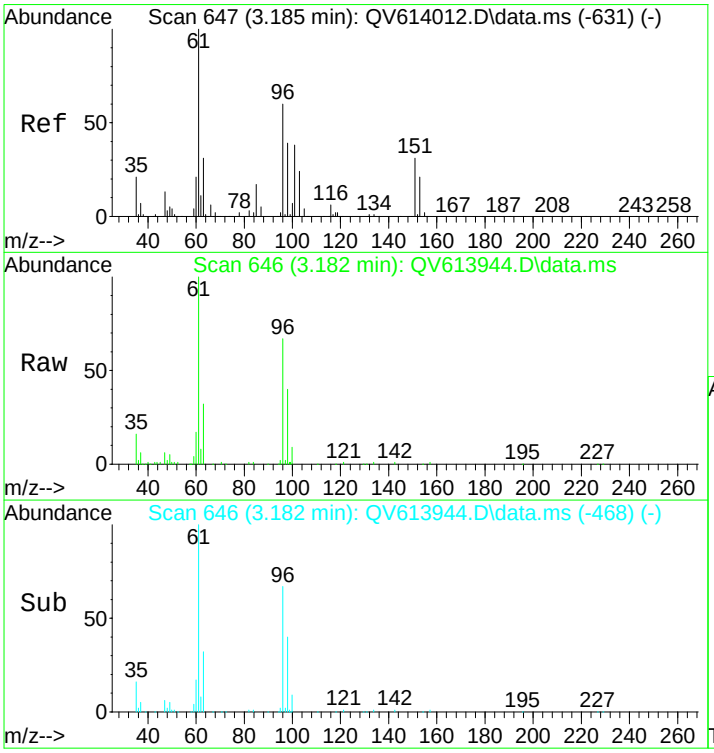


#4
Vinyl Chloride
Concen: 151.63 ppb m
RT: 1.827 min Scan# 159
Delta R.T. -0.004 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 62 Resp: 2008150

Ion	Ratio	Lower	Upper
62	100		
62	61.2	36.0	74.8
64	0.0	12.5	25.9#

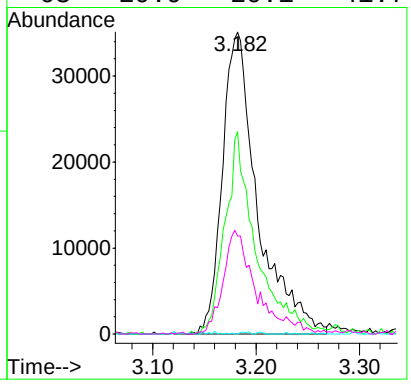


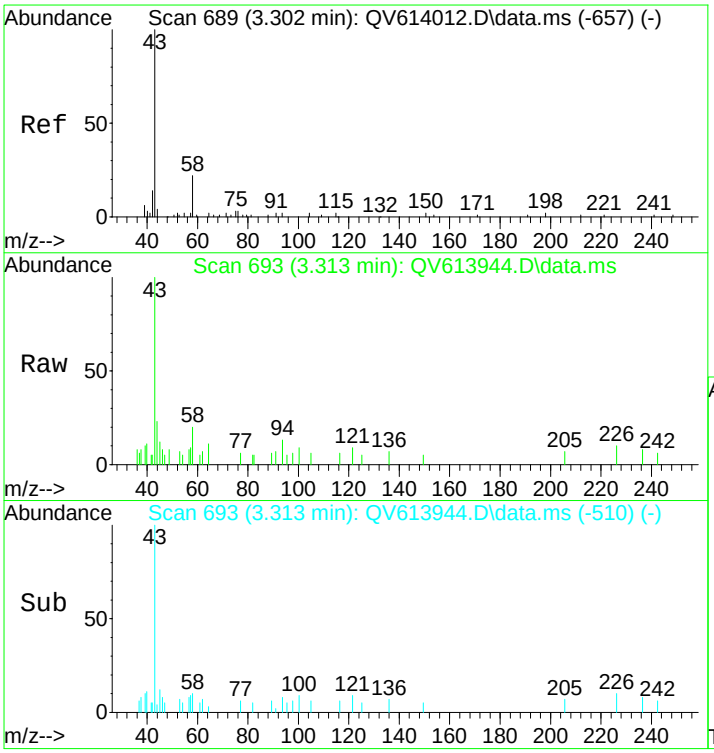


#10
1,1-Dichloroethylene
Concen: 4.31 ppb
RT: 3.182 min Scan# 646
Delta R.T. -0.004 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 61 Resp: 83505

Ion	Ratio	Lower	Upper
61	100		
96	58.5	33.6	69.8
101	0.0	37.0	77.0#
63	29.9	20.1	41.7

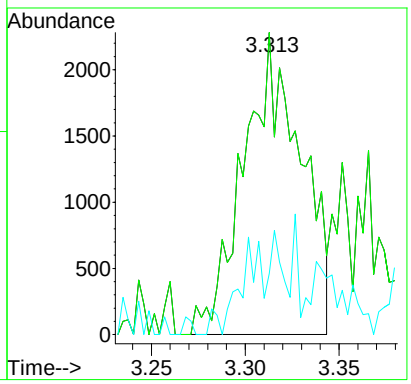


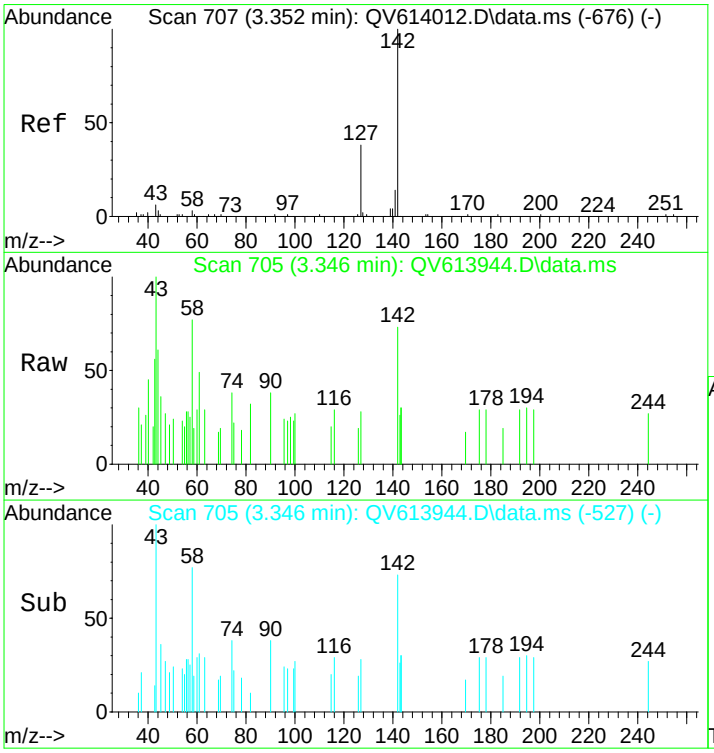


#12
Acetone
Concen: 1.14 ppb
RT: 3.313 min Scan# 693
Delta R.T. 0.008 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 43 Resp: 4835

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	11.2	6.0	18.1

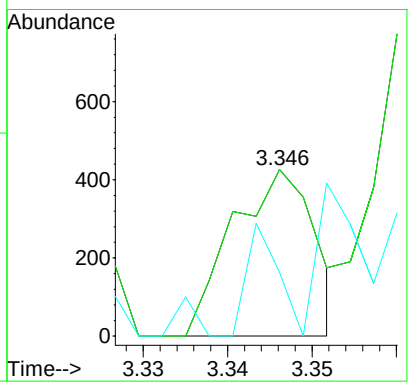


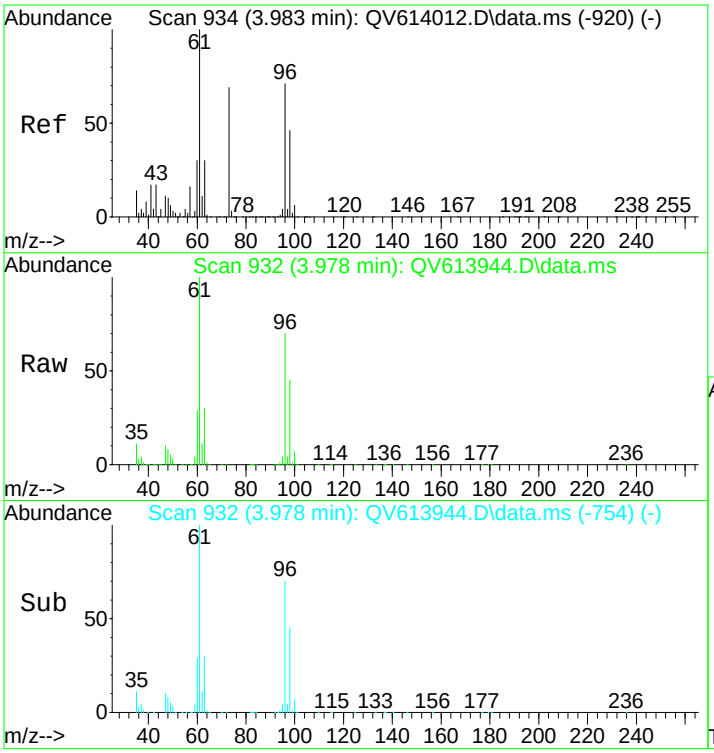


#13
Iodomethane
Concen: 1.91 ppb
RT: 3.346 min Scan# 705
Delta R.T. -0.006 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion:142 Resp: 288

Ion	Ratio	Lower	Upper
142	100		
142	100.0	80.0	120.0
127	47.2	22.2	66.6

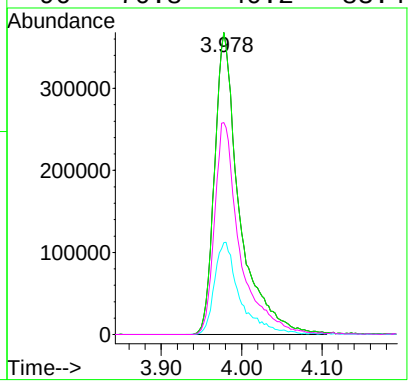


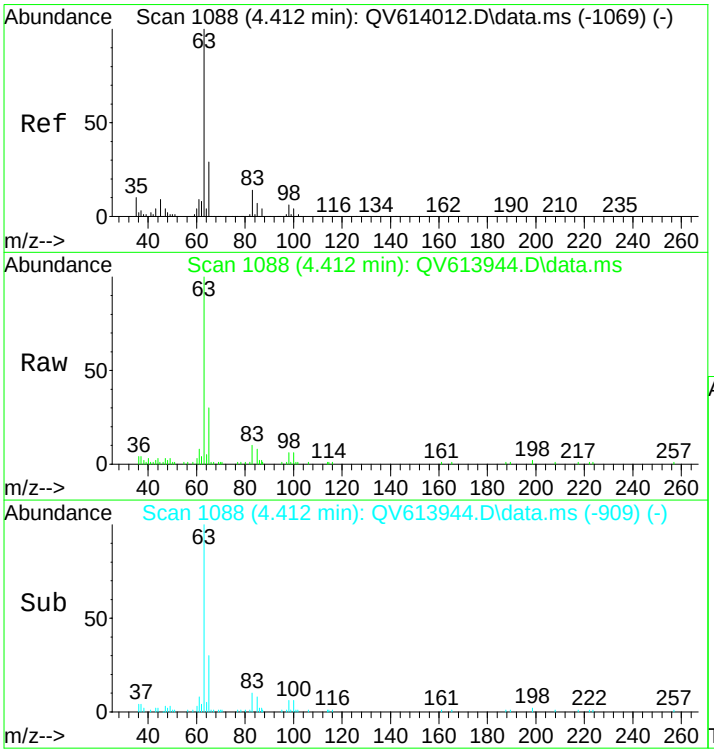


#19
trans-1,2-Dichloroethylene
Concen: 40.31 ppb
RT: 3.978 min Scan# 932
Delta R.T. -0.005 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 61 Resp: 795683

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	31.1	20.9	43.3
96	70.8	40.2	83.4

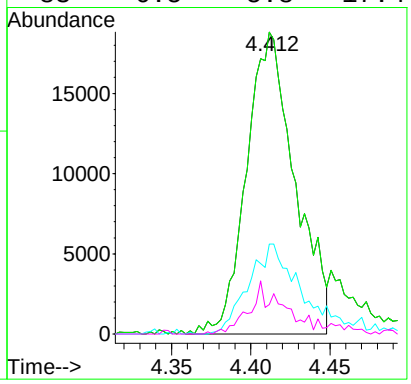


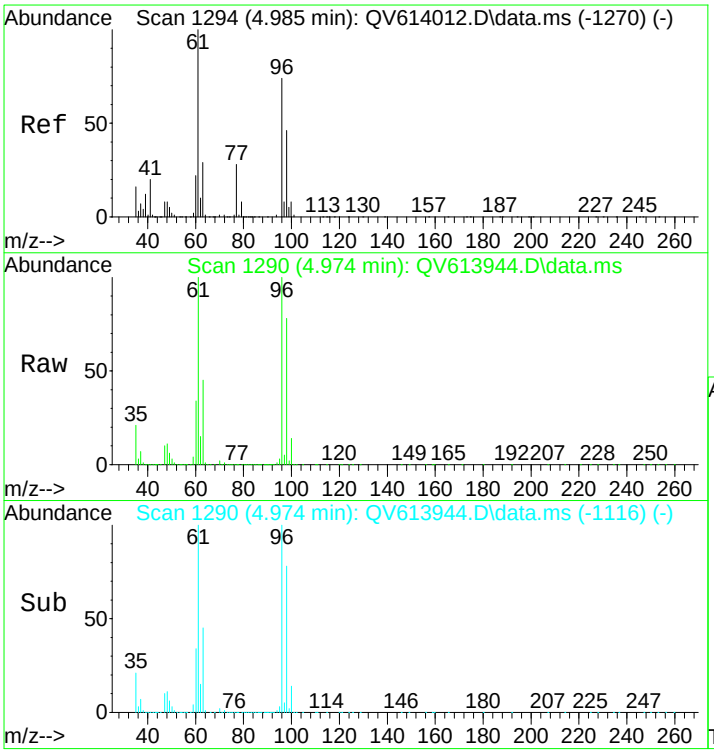


#21
1,1-Dichloroethane
Concen: 1.60 ppb
RT: 4.412 min Scan# 1088
Delta R.T. -0.003 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 63 Resp: 40117

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	0.0	19.4	40.2#
83	6.5	5.8	17.4

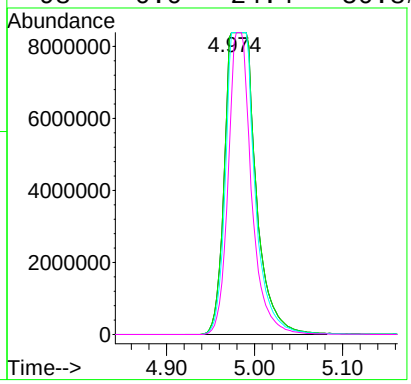


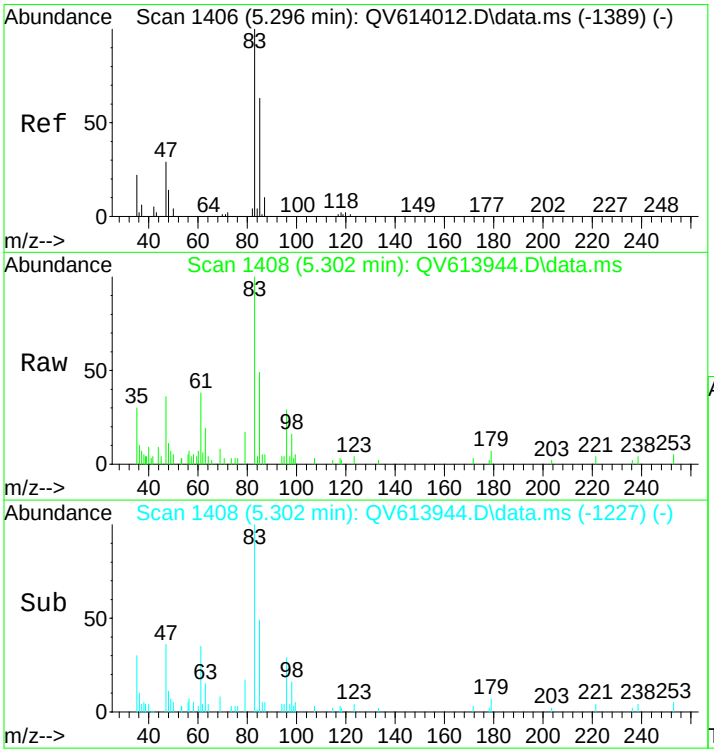


#25
cis-1,2-Dichloroethylene
Concen: 891.74 ppb m
RT: 4.974 min Scan# 1290
Delta R.T. -0.017 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 61 Resp:20590685

Ion	Ratio	Lower	Upper
61	100		
61	0.0	65.0	135.0#
96	0.0	39.2	81.4#
98	0.0	24.4	50.8#

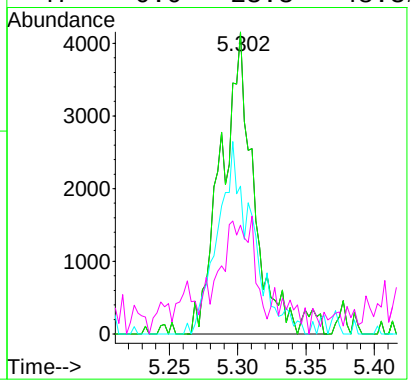


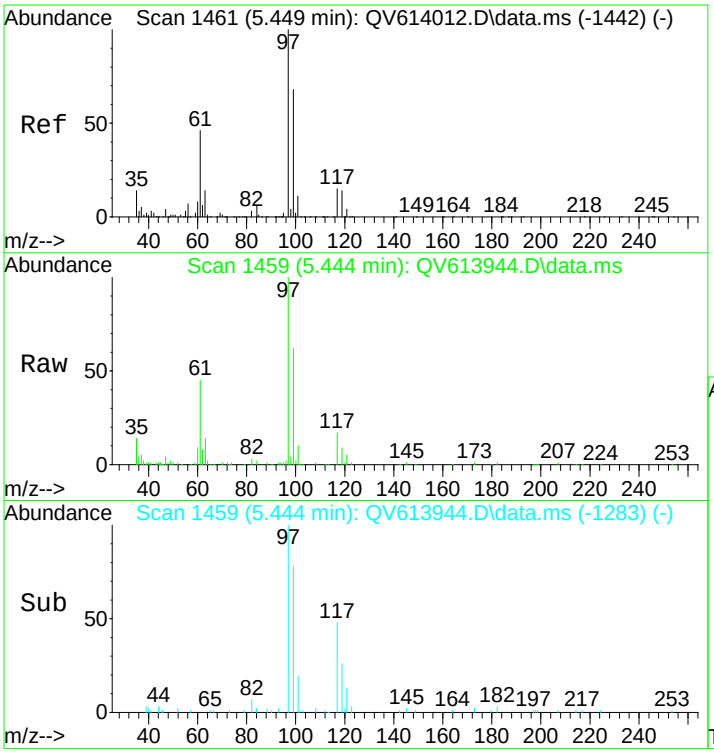


#30
Chloroform
Concen: 0.28 ppb m
RT: 5.302 min Scan# 1408
Delta R.T. 0.002 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 83 Resp: 7001

Ion	Ratio	Lower	Upper
83	100		
83	67.3	65.0	135.0
85	45.1	0.0	0.0#
47	0.0	23.3	48.3#

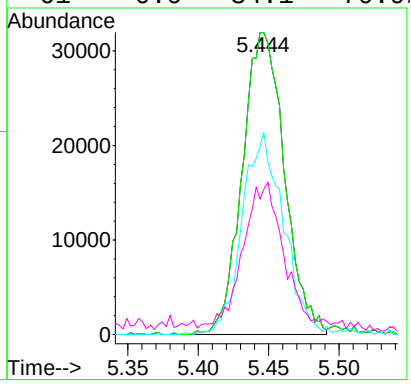


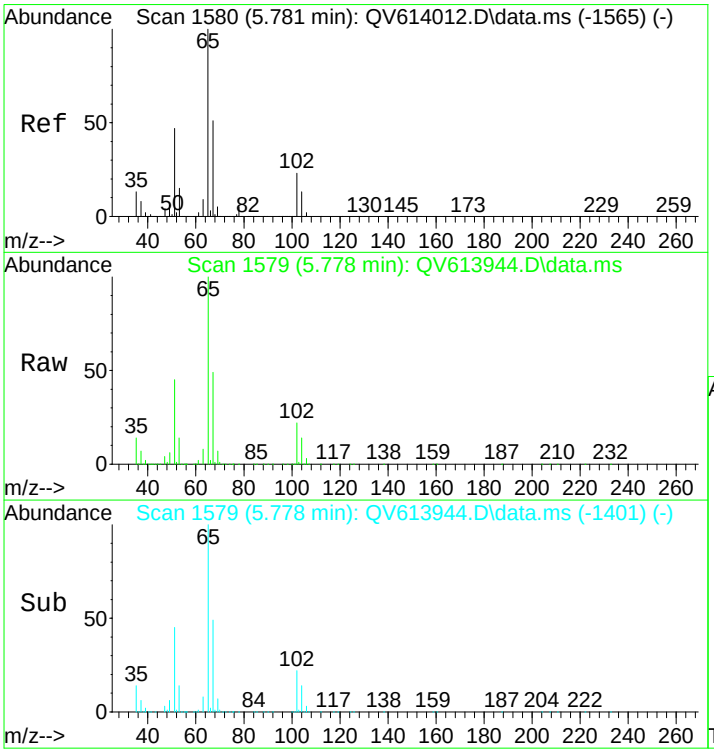


#31
1,1,1-Trichloroethane
Concen: 2.81 ppb
RT: 5.444 min Scan# 1459
Delta R.T. -0.011 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 97 Resp: 66662

Ion	Ratio	Lower	Upper
97	100		
97	100.0	65.0	135.0
99	64.8	42.1	87.5
61	0.0	34.1	70.9#

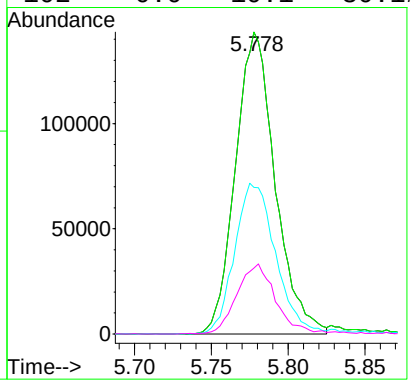


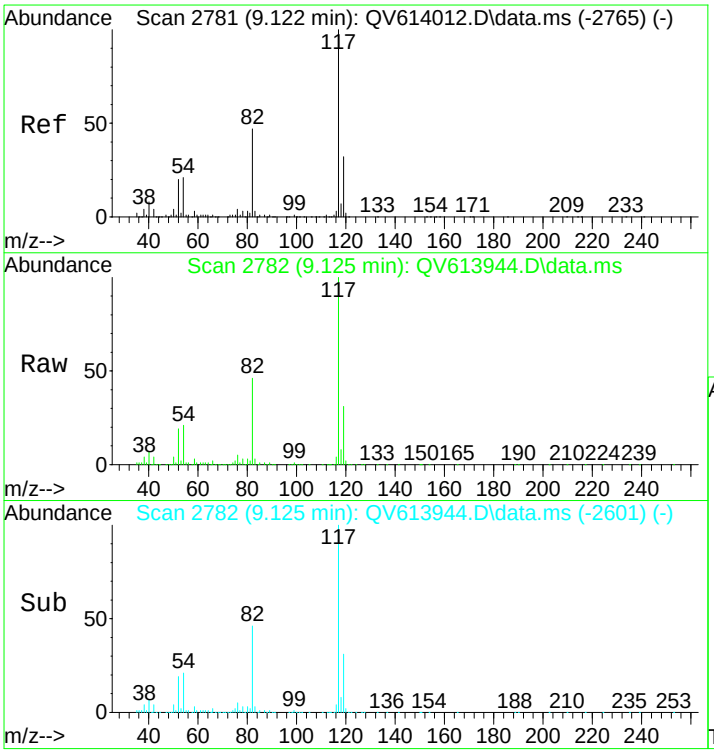


#34
d4-1,2-Dichloroethane (SURR)
Concen: 10.62 ppb
RT: 5.778 min Scan# 1579
Delta R.T. -0.003 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 65 Resp: 257890

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	51.5	34.0	70.6
102	0.0	10.1	30.1#

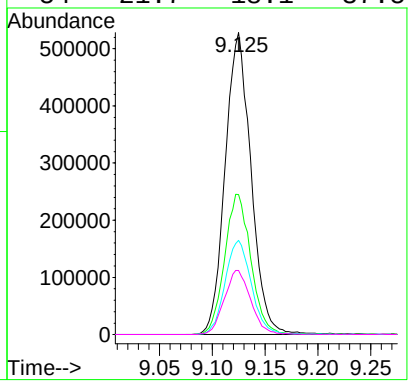


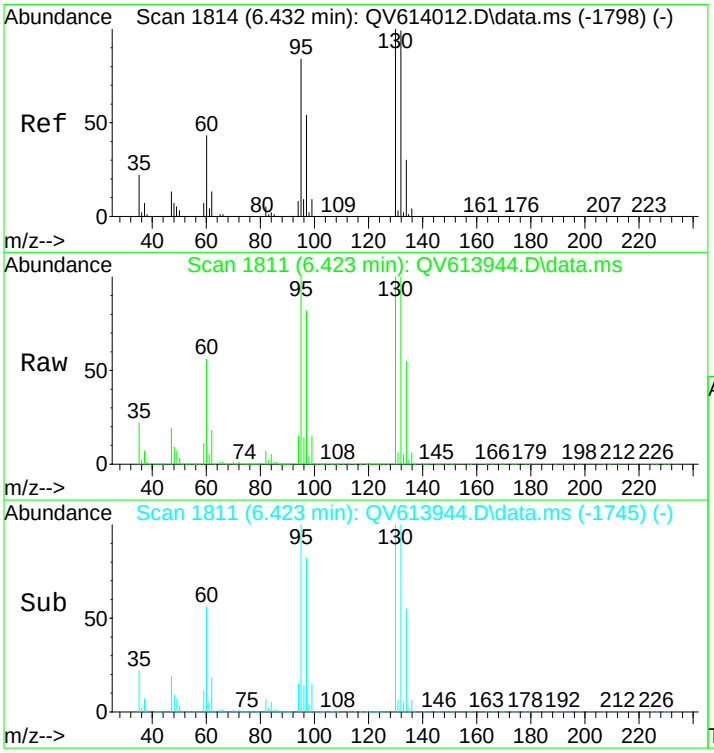


#40
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 9.125 min Scan# 2782
Delta R.T. 0.004 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion:117 Resp: 900731

Ion	Ratio	Lower	Upper
117	100		
82	47.0	34.5	71.7
119	31.6	20.9	43.3
54	21.7	18.1	37.5

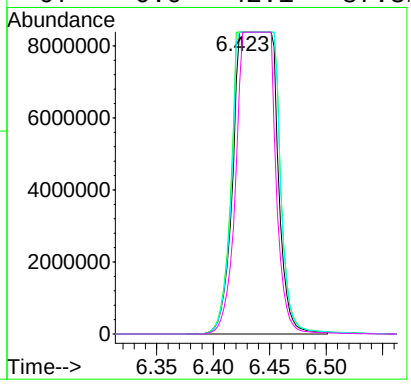


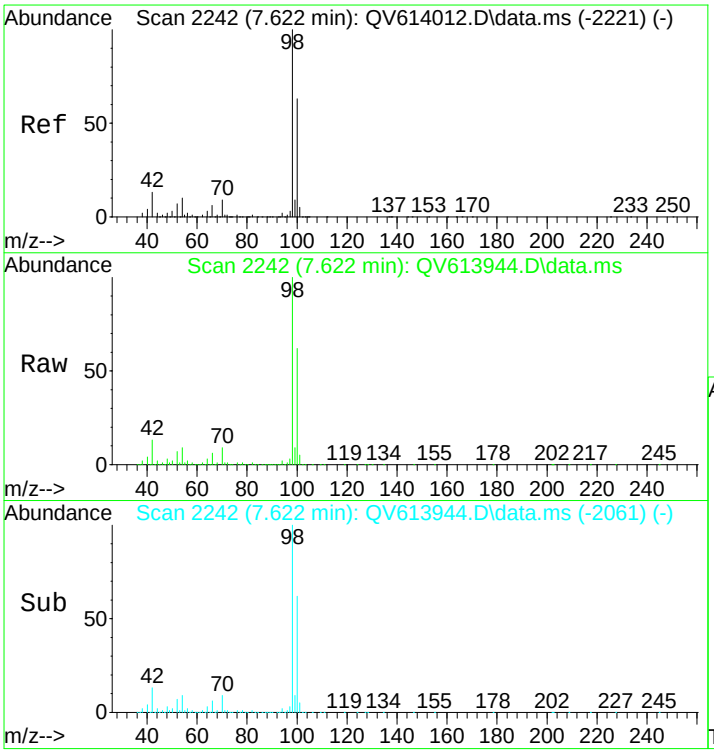


#41
Trichloroethylene
Concen: 1315.66 ppb m
RT: 6.423 min Scan# 1811
Delta R.T. -0.015 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 95 Resp:22107426

Ion	Ratio	Lower	Upper
95	100		
130	0.0	70.0	145.4#
132	0.0	69.6	144.6#
97	0.0	42.1	87.3#

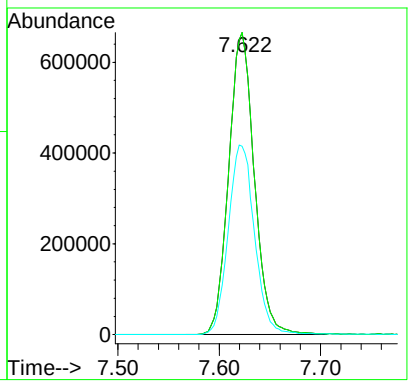


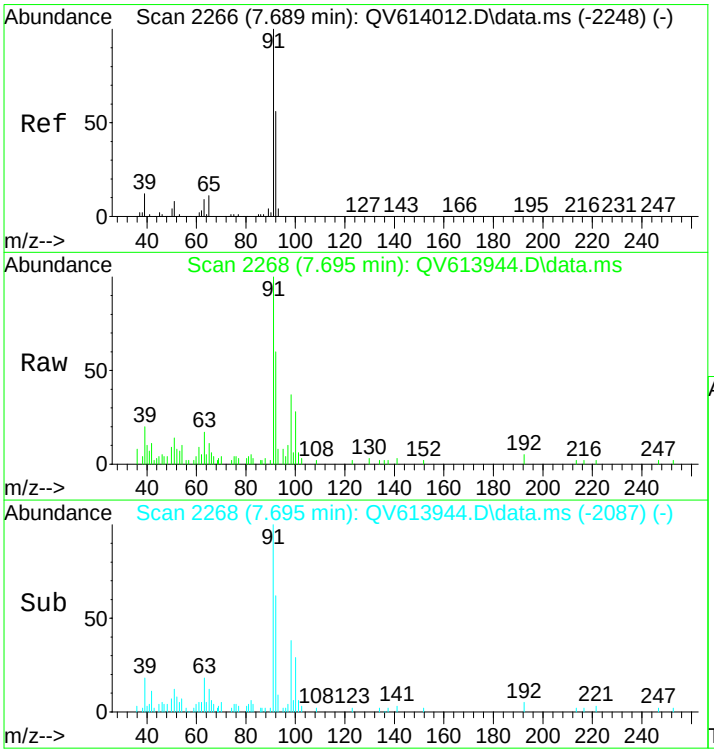


#51
Toluene-d8 (SURR)
Concen: 10.40 ppb
RT: 7.622 min Scan# 2242
Delta R.T. 0.002 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 98 Resp: 1169800

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.2	44.2	91.8

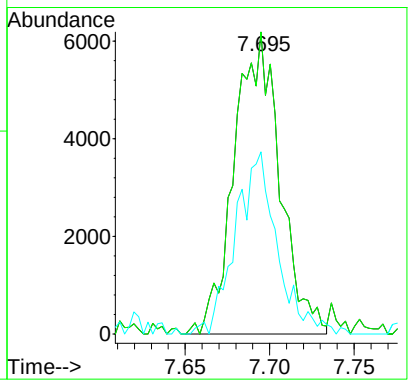


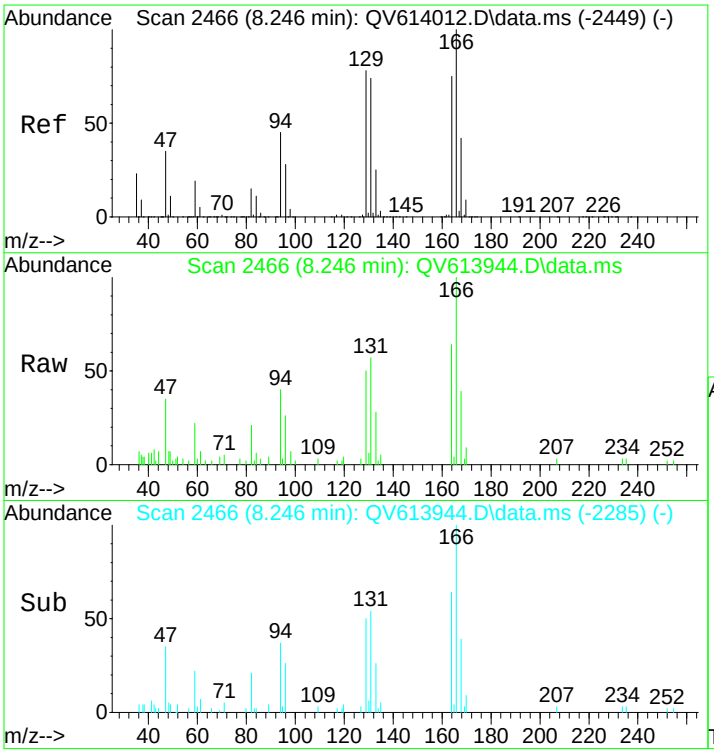


#52
Toluene
Concen: 0.16 ppb
RT: 7.695 min Scan# 2268
Delta R.T. 0.004 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 91 Resp: 11612

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	55.0	37.2	77.4

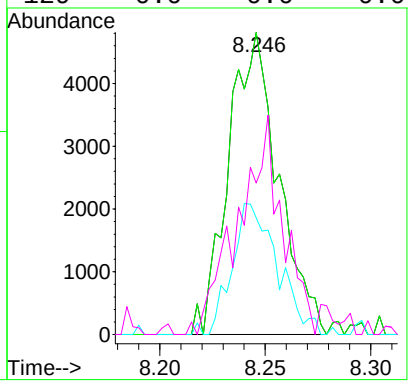


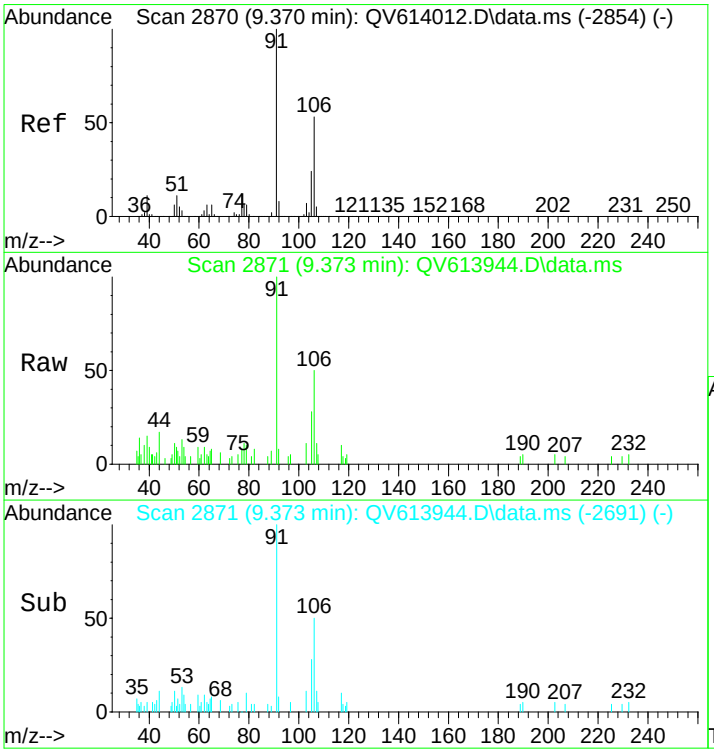


#56
Tetrachloroethylene
Concen: 0.35 ppb
RT: 8.246 min Scan# 2466
Delta R.T. 0.004 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion:166 Resp: 7913

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	39.3	31.7	65.7
129	0.0	0.0	0.0

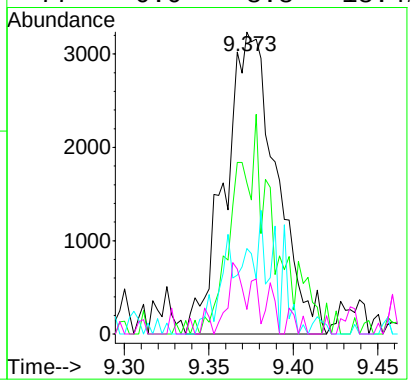


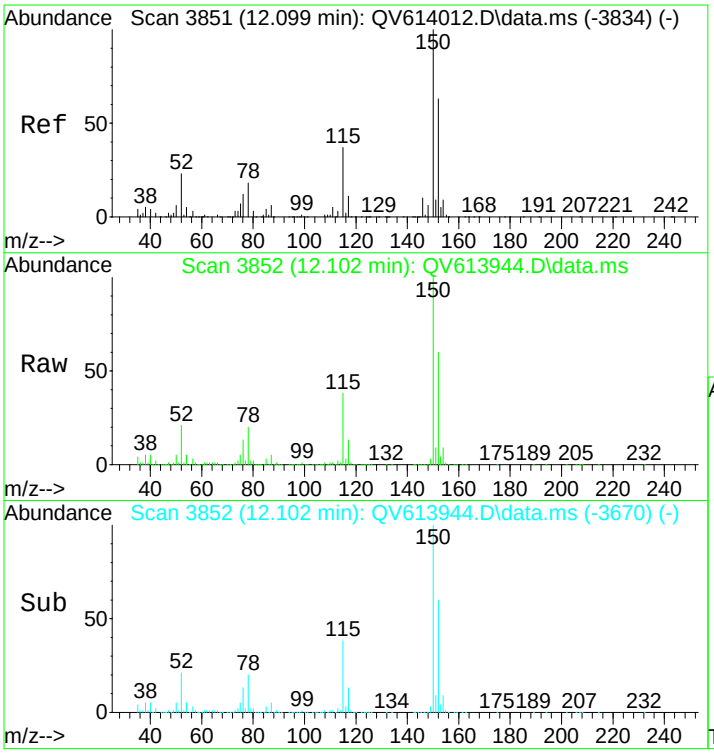


#63
p- & m-Xylenes
Concen: 0.12 ppb
RT: 9.373 min Scan# 2871
Delta R.T. 0.002 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 91 Resp: 6850

Ion	Ratio	Lower	Upper
91	100		
106	26.7	34.1	70.9#
105	2.2	16.2	33.6#
77	0.0	8.8	18.4#

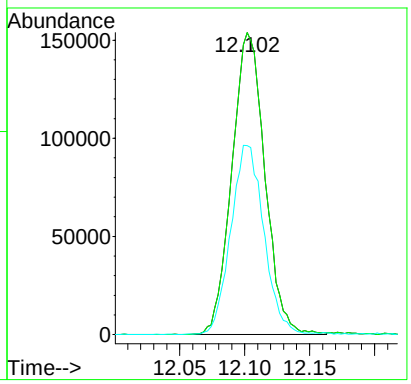


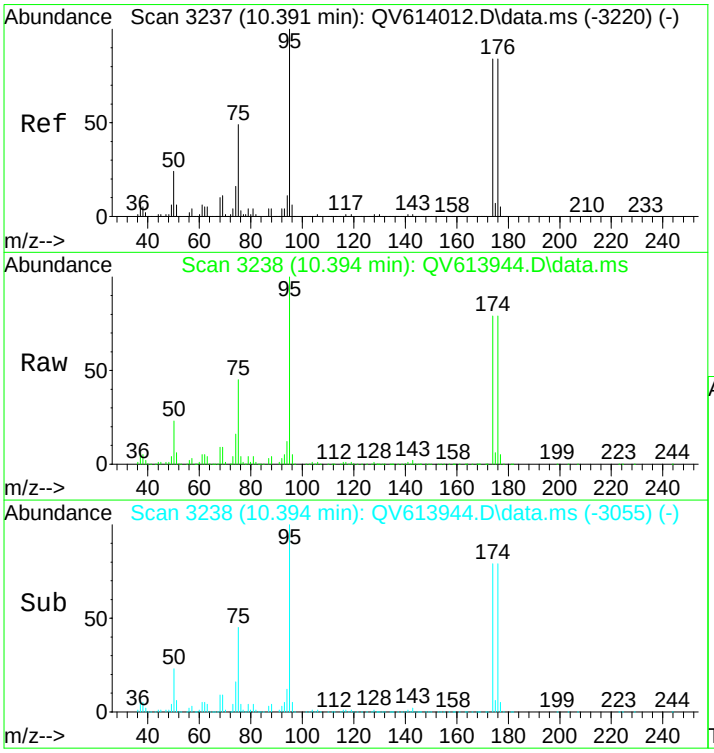


#67
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 12.102 min Scan# 3852
Delta R.T. 0.005 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion:152 Resp: 271629

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	62.9	29.8	89.3

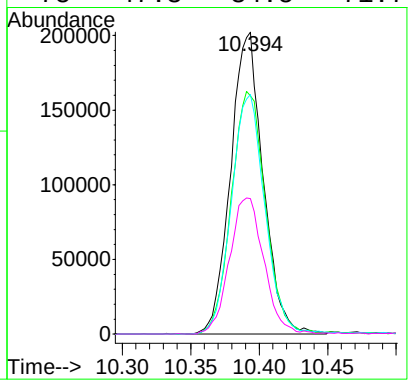


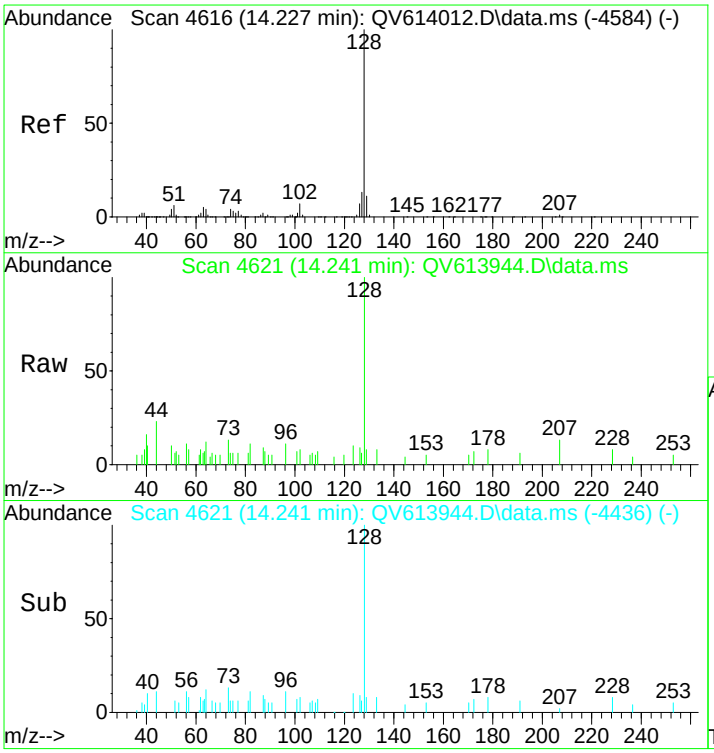


#70
p-Bromofluorobenzene (SURR)
Concen: 11.44 ppb
RT: 10.394 min Scan# 3238
Delta R.T. 0.008 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion: 95 Resp: 334874

Ion	Ratio	Lower	Upper
95	100		
174	84.0	62.5	129.9
176	81.9	60.7	126.1
75	47.3	34.5	71.7

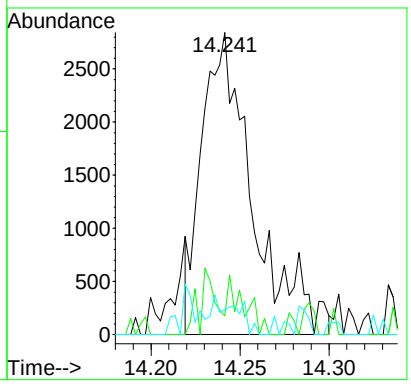




#93
Naphthalene
Concen: 0.17 ppb m
RT: 14.241 min Scan# 4621
Delta R.T. 0.015 min
Lab File: QV613944.D
Acq: 4 Apr 2019 4:44 am

Tgt Ion:128 Resp: 5616

Ion	Ratio	Lower	Upper
128	100		
127	6.3	8.9	18.5#
129	1.2	7.3	15.3#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-01 0319

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19C1266-01RE1	File ID:	QV614022.D
Sampled:	03/28/19 13:39	Prepared:	04/03/19 07:00	Analyzed:	04/05/19 18:23
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BD90281	Sequence:	Y9D0501	Calibration:	YC90007
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	20	880	D
79-01-6	Trichloroethylene	20	1300	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	
SURR: Toluene-d8	10.0	10.4	104	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.3	113	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	194203	6.081	199731	6.081	
ISTD: Chlorobenzene-d5	899535	9.125	912751	9.122	
ISTD: 1,2-Dichlorobenzene-d4	266333	12.102	281829	12.096	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614022.D
Acq On : 5 Apr 2019 6:23 pm
InstName : QVOA6
Operator : LLJ
Sample : 19C12966-01RE1
Misc : QBQV6040519A 8260 2.5ML/50ML A
ALS Vial : 12 Sample Multiplier: 20

Quant Time: Apr 08 06:54:01 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

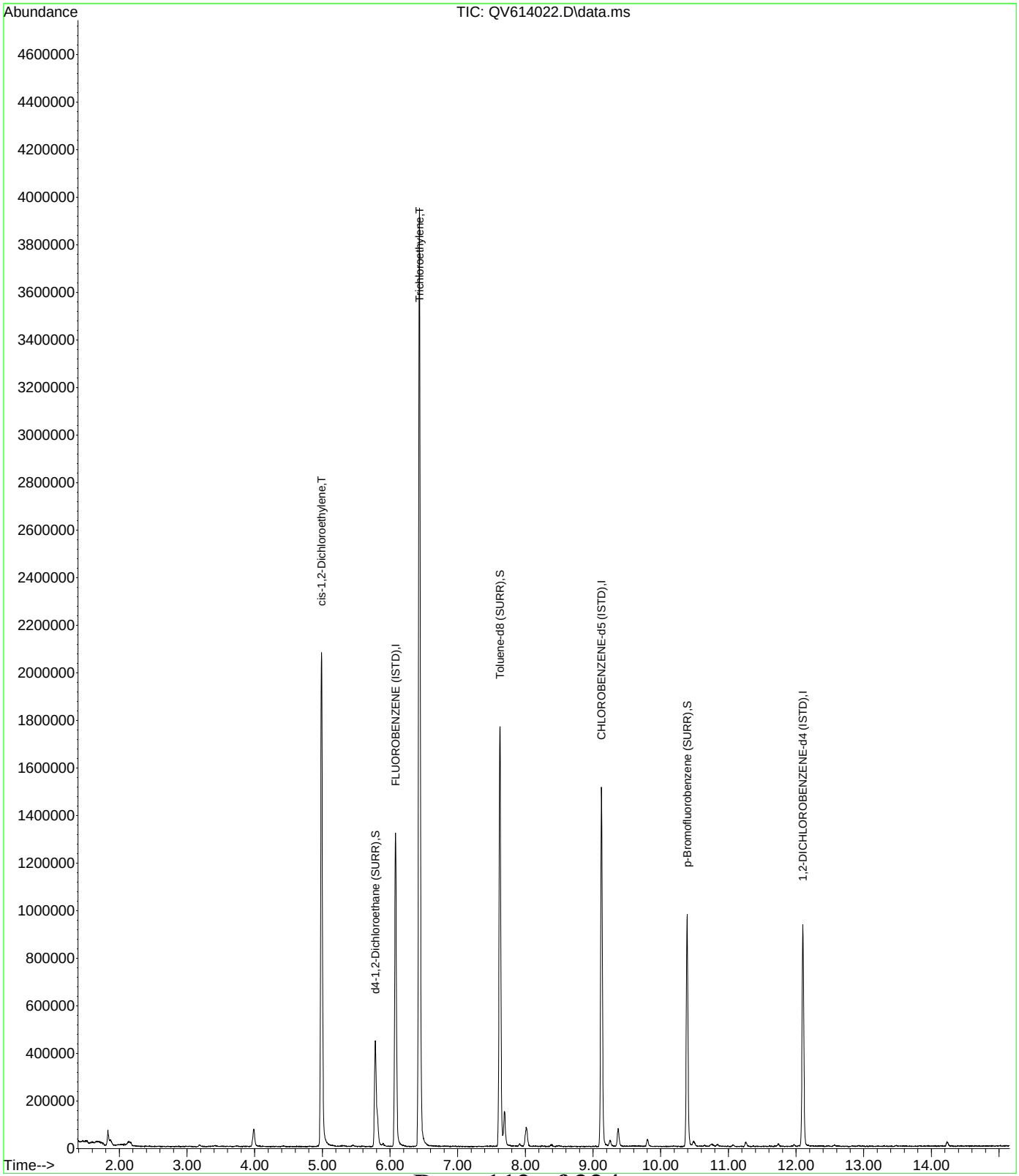
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.081	70	194203	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	899535	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	266333	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.781	65	265450	10.81	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.10%			
51) Toluene-d8 (SURR)	7.625	98	1168996	10.40	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 104.00%			
70) p-Bromofluorobenzene (...	10.391	95	323869	11.28	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 112.80%			
Target Compounds						Qvalue
25) cis-1,2-Dichloroethylene	4.988	61	1023593	43.84	ppb	89
41) Trichloroethylene	6.434	95	1079089	64.30	ppb	91

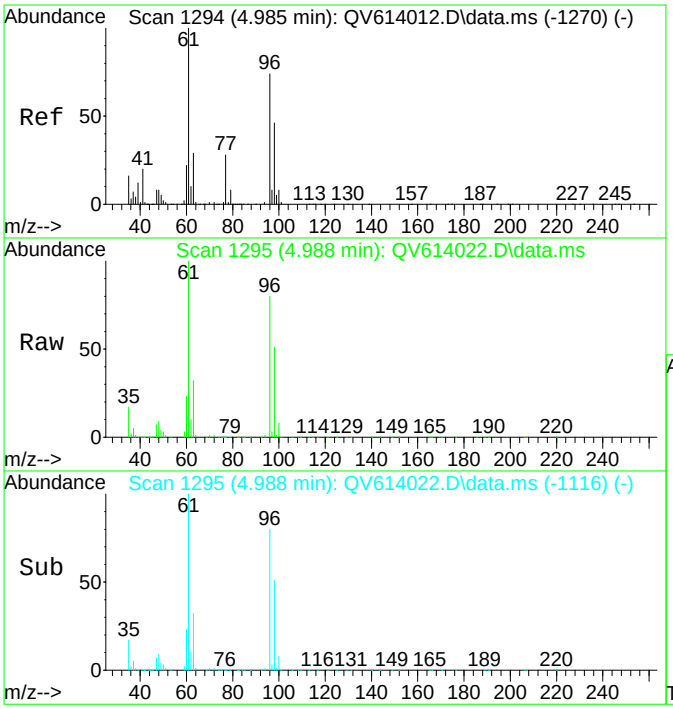
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614022.D
Acq On : 5 Apr 2019 6:23 pm
InstName : QVOA6
Operator : LLJ
Sample : 19C12966-01RE1
Misc : QBQV6040519A 8260 2.5ML/50ML A
ALS Vial : 12 Sample Multiplier: 20

Quant Time: Apr 08 06:54:01 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

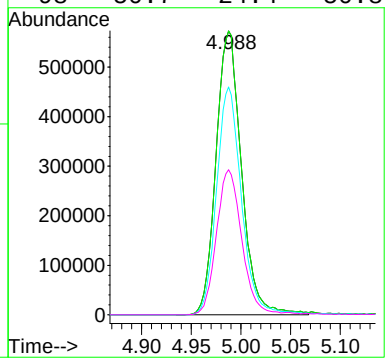


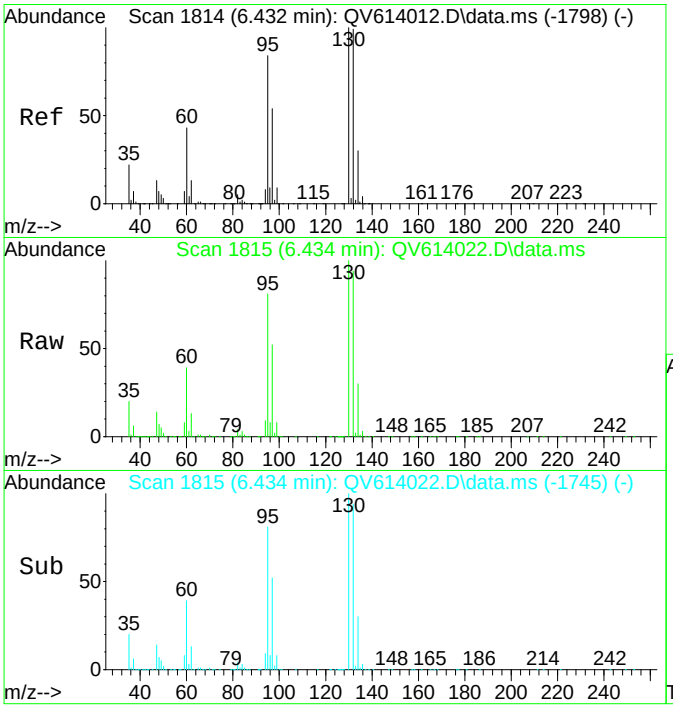


#25
cis-1,2-Dichloroethylene
Concen: 43.84 ppb
RT: 4.988 min Scan# 1295
Delta R.T. -0.003 min
Lab File: QV614022.D
Acq: 5 Apr 2019 6:23 pm

Tgt Ion: 61 Resp: 1023593

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	78.6	39.2	81.4
98	50.7	24.4	50.8

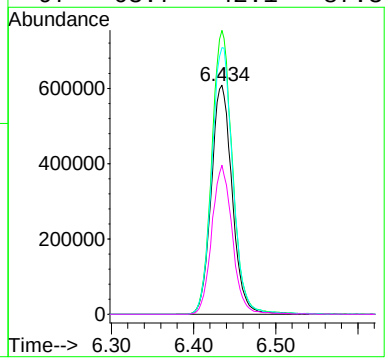




#41
Trichloroethylene
Concen: 64.30 ppb
RT: 6.434 min Scan# 1815
Delta R.T. -0.004 min
Lab File: QV614022.D
Acq: 5 Apr 2019 6:23 pm

Tgt Ion: 95 Resp: 1079089

Ion	Ratio	Lower	Upper
95	100		
130	122.2	70.0	145.4
132	116.2	69.6	144.6
97	63.7	42.1	87.3



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-02 0319

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19C1266-02 File ID: QV613945.D

Sampled: 03/28/19 14:15 Prepared: 04/03/19 07:00 Analyzed: 04/04/19 05:12

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BD90225 Sequence: Y9D0415 Calibration: YC90007 Instrument: QVOA6

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
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
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	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
156-59-2	cis-1,2-Dichloroethylene	1	0.96	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-02 0319

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19C1266-02	File ID:	QV613945.D
Sampled:	03/28/19 14:15	Prepared:	04/03/19 07:00	Analyzed:	04/04/19 05:12
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
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
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	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
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	2.2	
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
SURR: 1,2-Dichloroethane-d4	10.0	10.5	105	69 - 130	
SURR: Toluene-d8	10.0	10.5	105	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.1	111	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	184752	6.078	196866	6.075	
ISTD: Chlorobenzene-d5	831391	9.125	899612	9.122	
ISTD: 1,2-Dichlorobenzene-d4	259787	12.105	300249	12.102	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613945.D
Acq On : 4 Apr 2019 5:12 am
InstName : QVOA6
Operator : LLJ
Sample : 19C1266-02
Misc : QBQV6040219C 8260 B AF
ALS Vial : 94 Sample Multiplier: 1

Quant Time: Apr 04 10:51:15 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

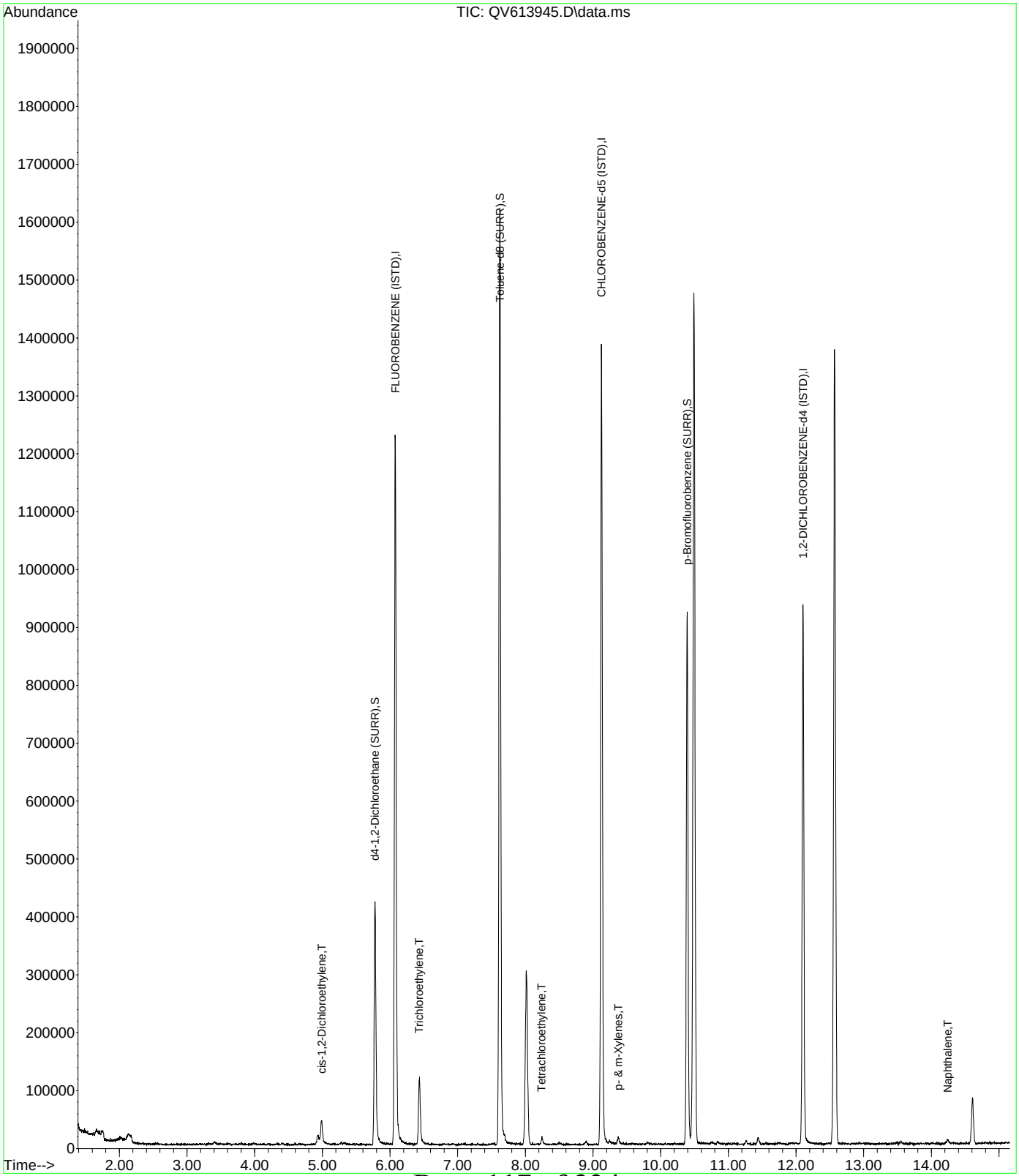
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.078	70	184752	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	831391	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.105	152	259787	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.775	65	245501	10.51	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 105.10%			
51) Toluene-d8 (SURR)	7.622	98	1089929	10.49	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 104.90%			
70) p-Bromofluorobenzene (...	10.391	95	311864	11.13	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 111.30%			
Target Compounds						Qvalue
25) cis-1,2-Dichloroethylene	4.990	61	21277	0.96	ppb	# 87
41) Trichloroethylene	6.429	95	34451	2.22	ppb	93
56) Tetrachloroethylene	8.240	166	2684	0.13	ppb	# 98
63) p- & m-Xylenes	9.372	91	6786	0.13	ppb	# 76
93) Naphthalene	14.238	128	6149	0.19	ppb	# 73

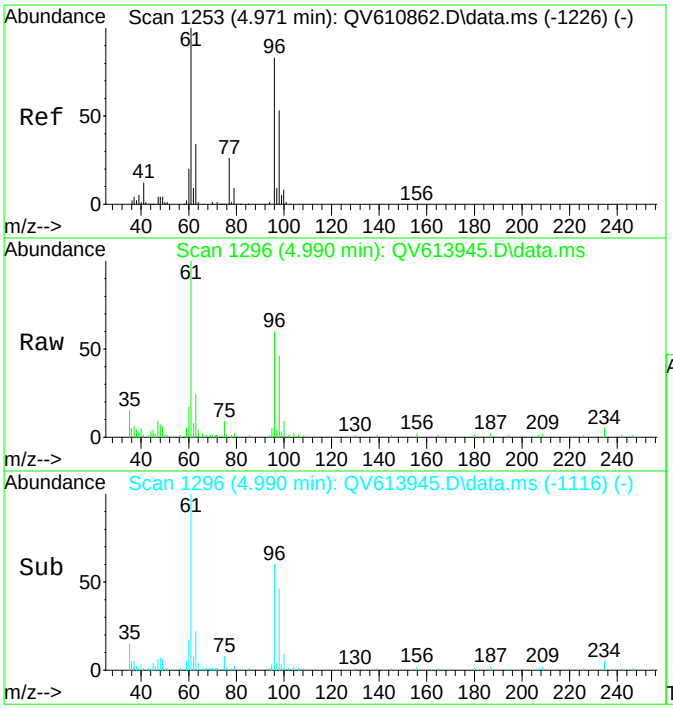
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613945.D
Acq On : 4 Apr 2019 5:12 am
InstName : QVOA6
Operator : LLJ
Sample : 19C1266-02
Misc : QBQV6040219C 8260 B AF
ALS Vial : 94 Sample Multiplier: 1

Quant Time: Apr 04 10:51:15 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

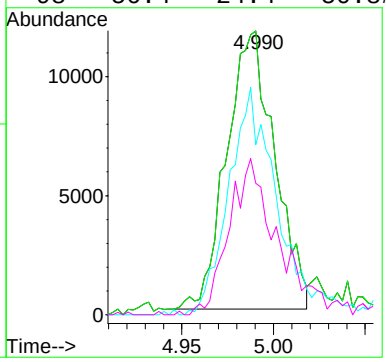


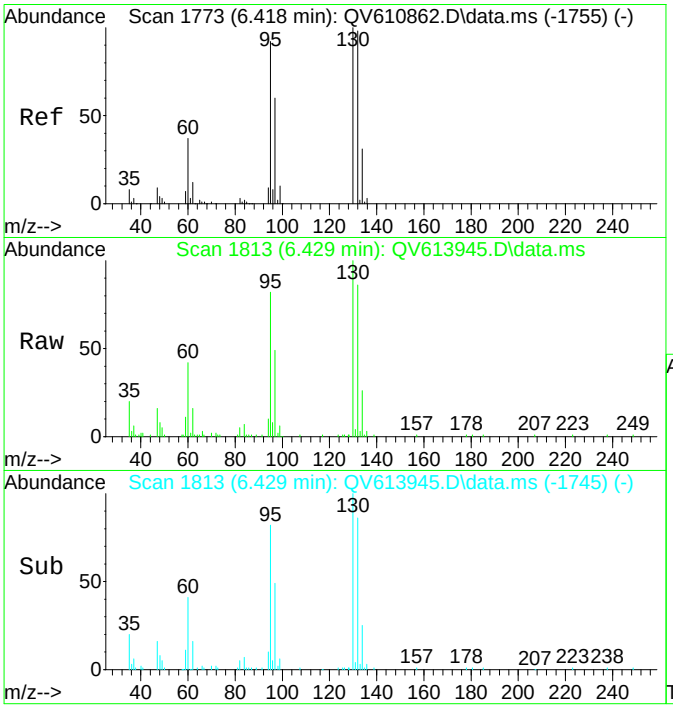


#25
cis-1,2-Dichloroethylene
Concen: 0.96 ppb
RT: 4.990 min Scan# 1296
Delta R.T. -0.000 min
Lab File: QV613945.D
Acq: 4 Apr 2019 5:12 am

Tgt Ion: 61 Resp: 21277

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	78.0	39.2	81.4
98	56.4	24.4	50.8#

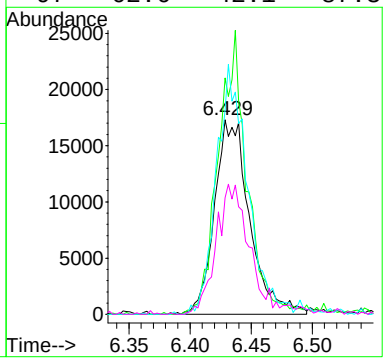


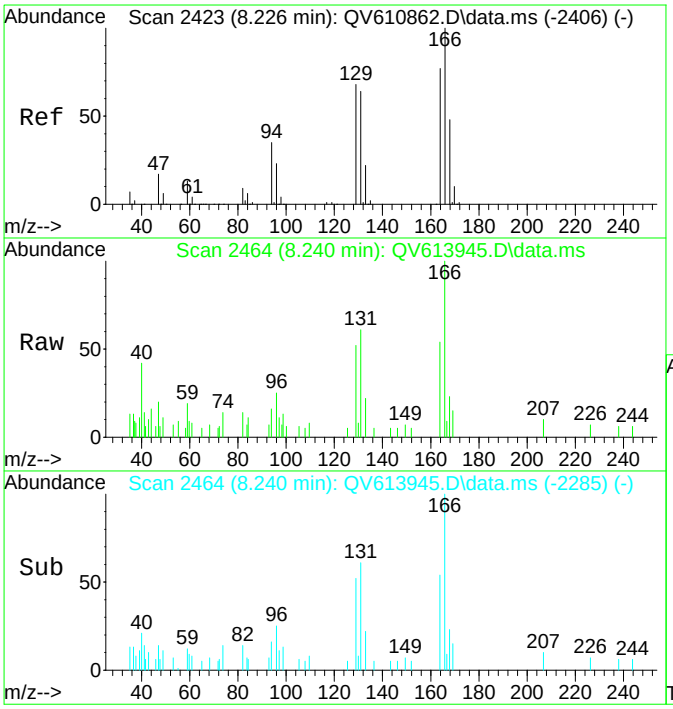


#41
Trichloroethylene
Concen: 2.22 ppb
RT: 6.429 min Scan# 1813
Delta R.T. -0.010 min
Lab File: QV613945.D
Acq: 4 Apr 2019 5:12 am

Tgt Ion: 95 Resp: 34451

Ion	Ratio	Lower	Upper
95	100		
130	118.8	70.0	145.4
132	113.8	69.6	144.6
97	62.6	42.1	87.3

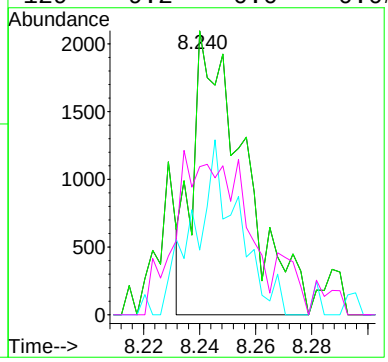


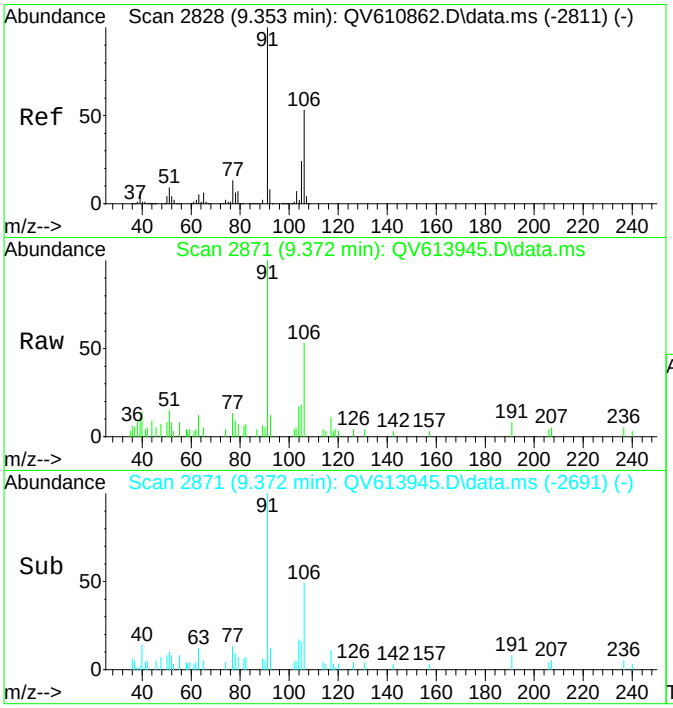


#56
Tetrachloroethylene
Concen: 0.13 ppb
RT: 8.240 min Scan# 2464
Delta R.T. -0.001 min
Lab File: QV613945.D
Acq: 4 Apr 2019 5:12 am

Tgt Ion:166 Resp: 2684

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	52.0	31.7	65.7
129	9.2	0.0	0.0#

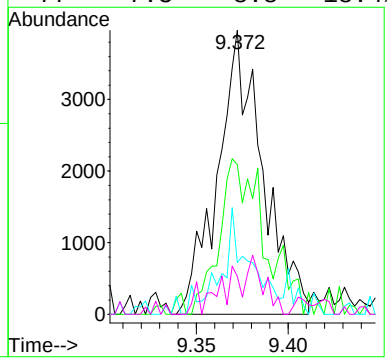


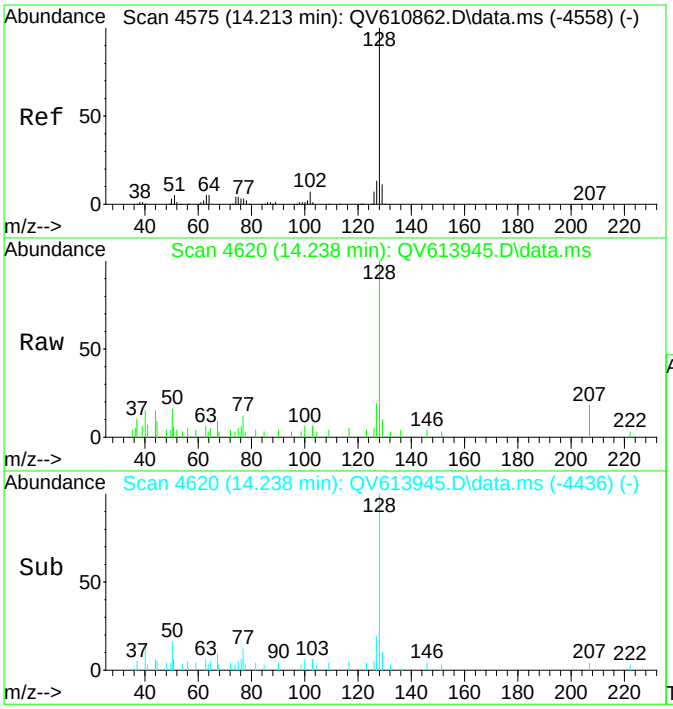


#63
p- & m-Xylenes
Concen: 0.13 ppb
RT: 9.372 min Scan# 2871
Delta R.T. 0.001 min
Lab File: QV613945.D
Acq: 4 Apr 2019 5:12 am

Tgt Ion: 91 Resp: 6786

Ion	Ratio	Lower	Upper
91	100		
106	28.2	34.1	70.9#
105	21.8	16.2	33.6
77	7.3	8.8	18.4#

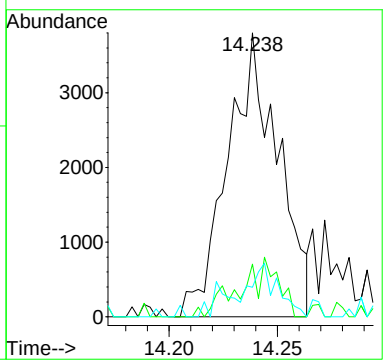




#93
Naphthalene
Concen: 0.19 ppb
RT: 14.238 min Scan# 4620
Delta R.T. 0.012 min
Lab File: QV613945.D
Acq: 4 Apr 2019 5:12 am

Tgt Ion:128 Resp: 6149

Ion	Ratio	Lower	Upper
128	100		
127	3.7	8.9	18.5#
129	0.0	7.3	15.3#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-05 0319

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19C1266-03	File ID:	QV613946.D
Sampled:	03/28/19 10:18	Prepared:	04/03/19 07:00	Analyzed:	04/04/19 05:42
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007
Instrument:	QVOA6				

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	0.33	J
75-35-4	1,1-Dichloroethylene	1	0.32	J
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
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	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
156-59-2	cis-1,2-Dichloroethylene	1	16	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-05 0319

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19C1266-03	File ID:	QV613946.D
Sampled:	03/28/19 10:18	Prepared:	04/03/19 07:00	Analyzed:	04/04/19 05:42
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
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
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	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	0.27	J
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	31	
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
SURR: 1,2-Dichloroethane-d4	10.0	11.0	110	69 - 130	
SURR: Toluene-d8	10.0	10.5	105	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.2	112	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	182652	6.081	196866	6.075	
ISTD: Chlorobenzene-d5	826195	9.125	899612	9.122	
ISTD: 1,2-Dichlorobenzene-d4	257999	12.102	300249	12.102	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613946.D
Acq On : 4 Apr 2019 5:42 am
InstName : QVOA6
Operator : LLJ
Sample : 19C1266-03
Misc : QBQV6040219C 8260 B
ALS Vial : 95 Sample Multiplier: 1

Quant Time: Apr 04 10:56:25 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

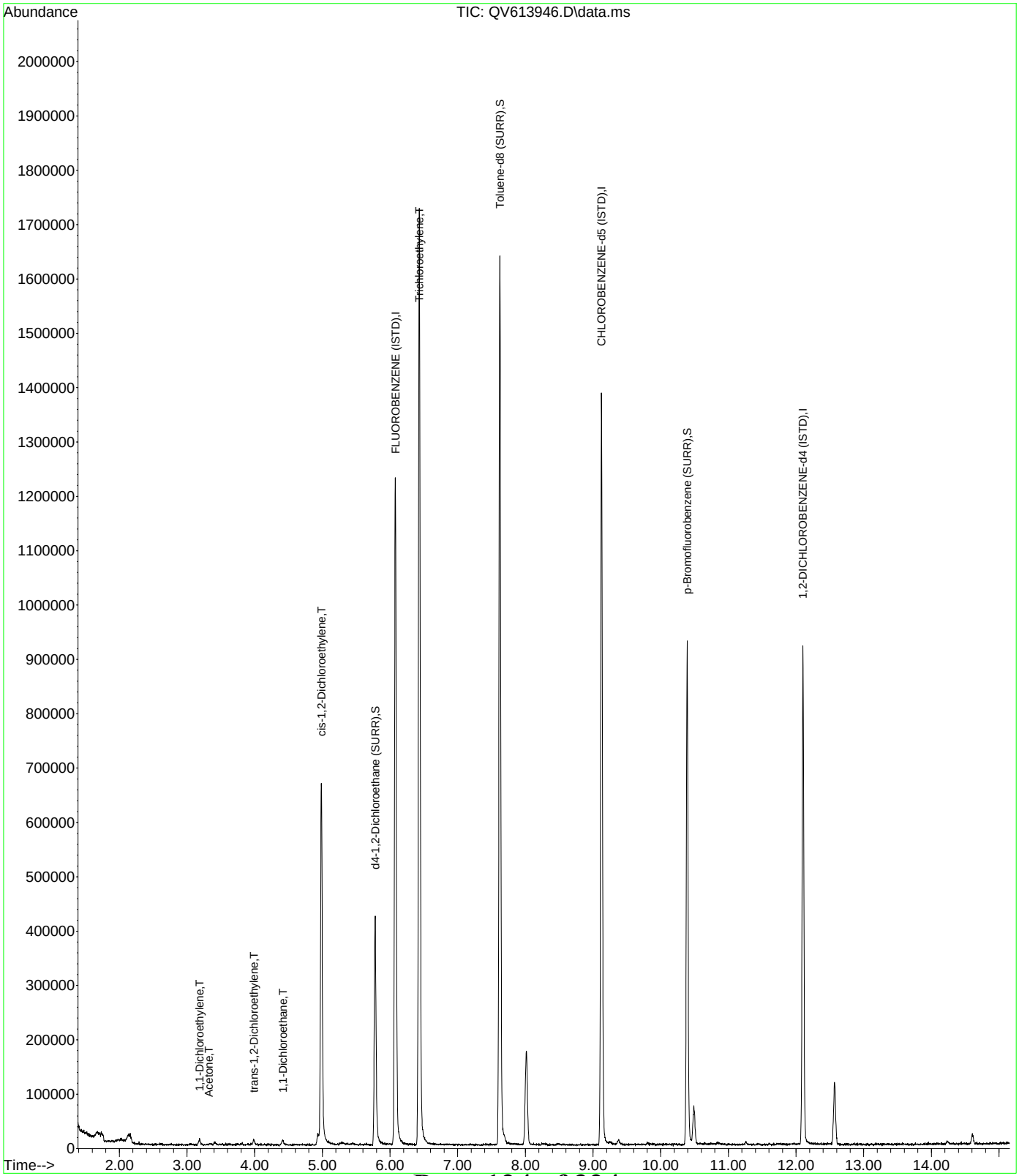
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.081	70	182652	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	826195	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	257999	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.780	65	253518	10.98	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 109.80%			
51) Toluene-d8 (SURR)	7.622	98	1087853	10.54	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 105.40%			
70) p-Bromofluorobenzene (...	10.391	95	311714	11.21	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 112.10%			
Target Compounds						Qvalue
10) 1,1-Dichloroethylene	3.185	61	5914	0.32	ppb	# 36
12) Acetone	3.321	43	1297	0.32	ppb	99
19) trans-1,2-Dichloroethy...	3.989	61	5131	0.27	ppb	# 90
21) 1,1-Dichloroethane	4.414	63	7739	0.33	ppb	# 92
25) cis-1,2-Dichloroethylene	4.985	61	341852	15.57	ppb	# 81
41) Trichloroethylene	6.431	95	479337	31.10	ppb	92

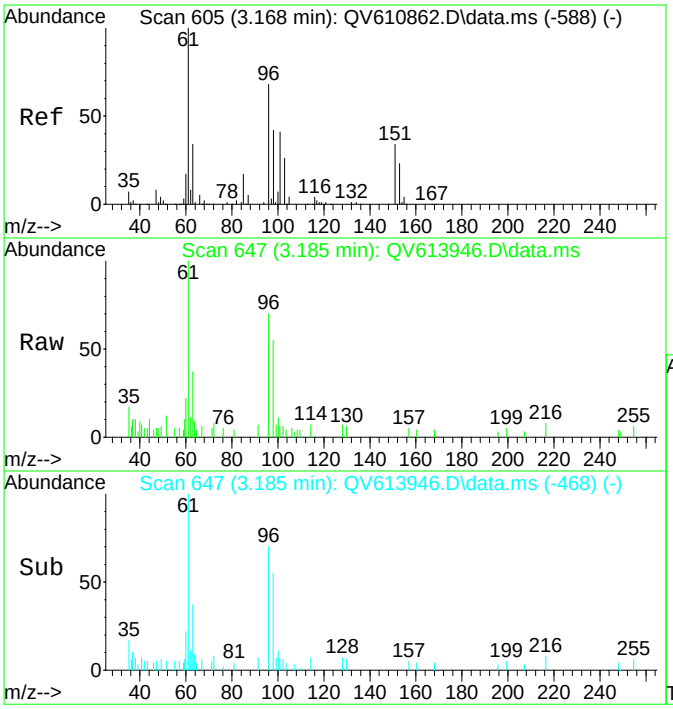
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613946.D
Acq On : 4 Apr 2019 5:42 am
InstName : QVOA6
Operator : LLJ
Sample : 19C1266-03
Misc : QBQV6040219C 8260 B
ALS Vial : 95 Sample Multiplier: 1

Quant Time: Apr 04 10:56:25 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

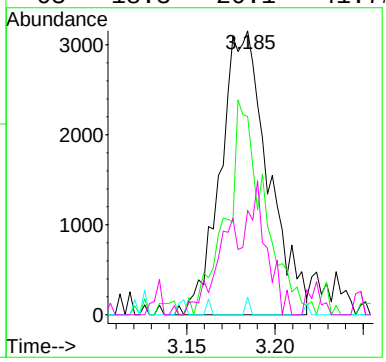


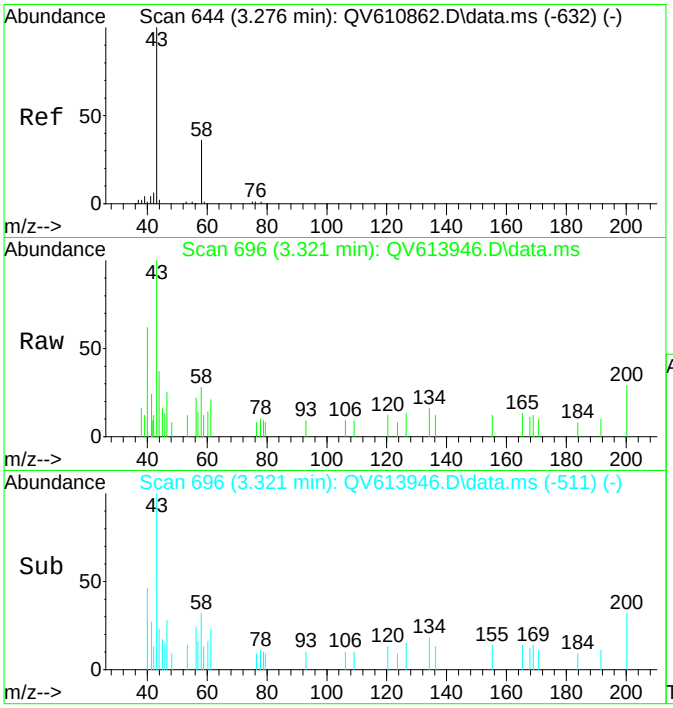


#10
1,1-Dichloroethylene
Concen: 0.32 ppb
RT: 3.185 min Scan# 647
Delta R.T. -0.001 min
Lab File: QV613946.D
Acq: 4 Apr 2019 5:42 am

Tgt Ion: 61 Resp: 5914

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.6	69.8#
101	0.5	37.0	77.0#
63	18.3	20.1	41.7#

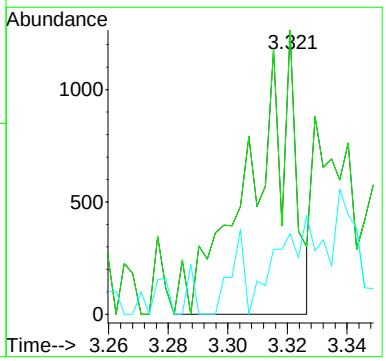


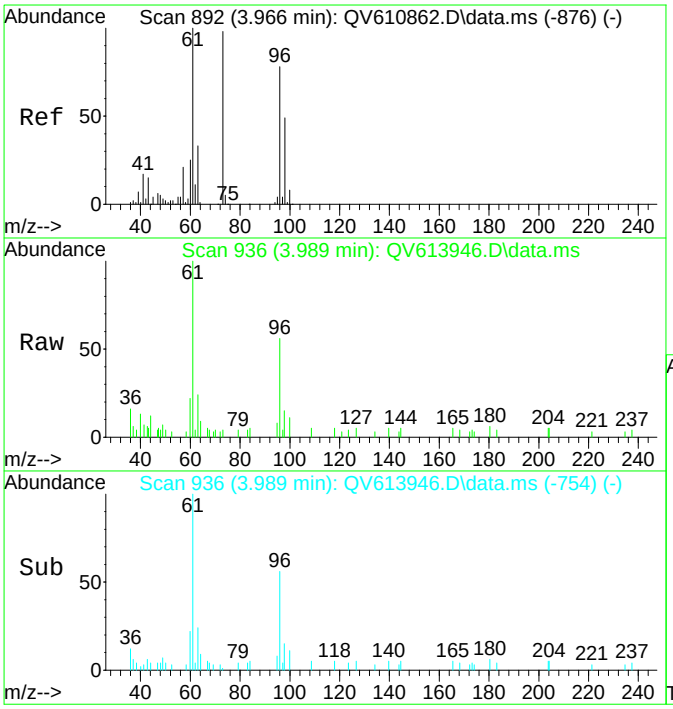


#12
Acetone
Concen: 0.32 ppb
RT: 3.321 min Scan# 696
Delta R.T. 0.016 min
Lab File: QV613946.D
Acq: 4 Apr 2019 5:42 am

Tgt Ion: 43 Resp: 1297

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	9.1	6.0	18.1

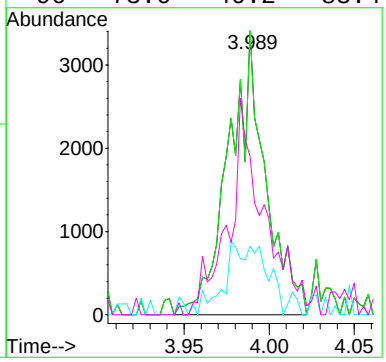


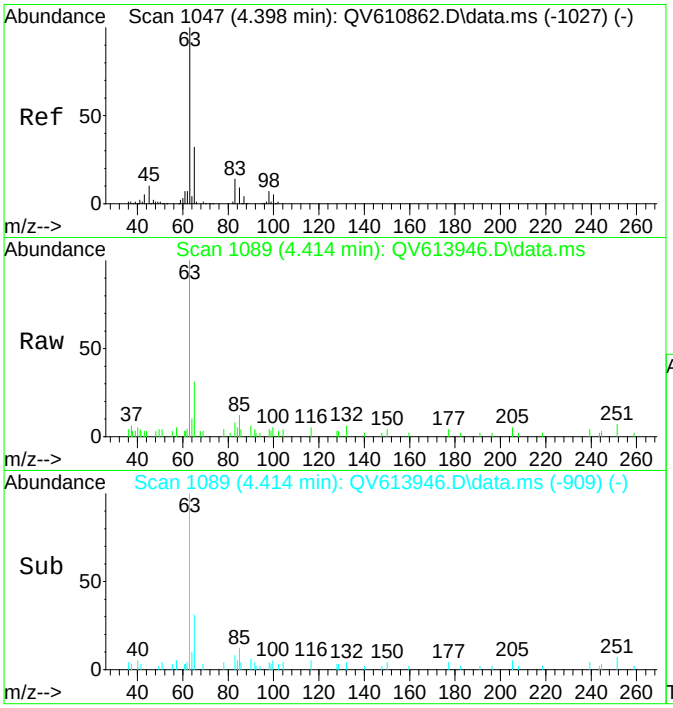


#19
trans-1,2-Dichloroethylene
Concen: 0.27 ppb
RT: 3.989 min Scan# 936
Delta R.T. 0.005 min
Lab File: QV613946.D
Acq: 4 Apr 2019 5:42 am

Tgt Ion: 61 Resp: 5131

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	14.9	20.9	43.3#
96	73.6	40.2	83.4

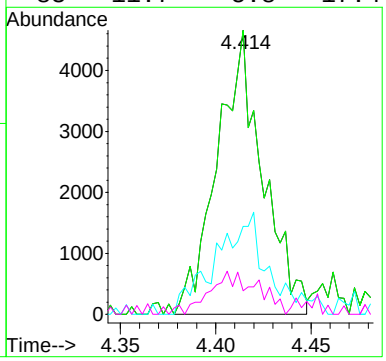


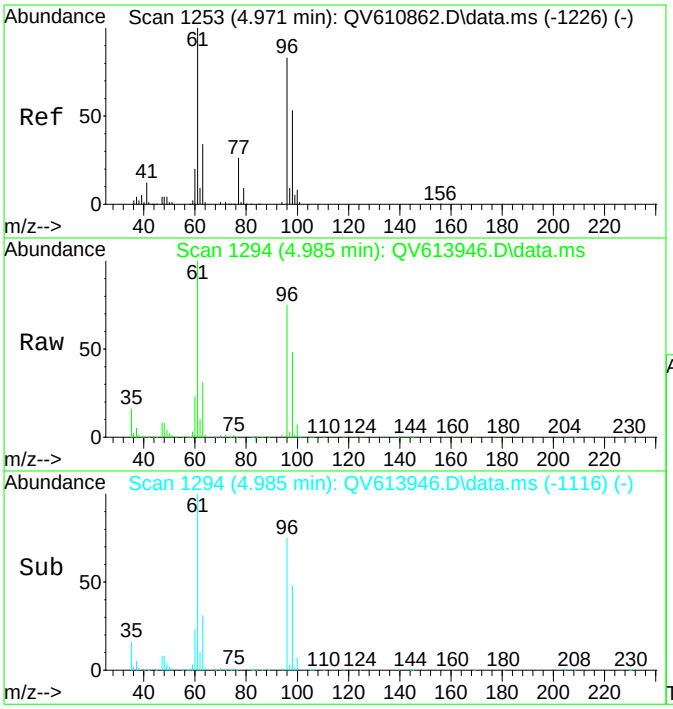


#21
1,1-Dichloroethane
Concen: 0.33 ppb
RT: 4.414 min Scan# 1089
Delta R.T. -0.000 min
Lab File: QV613946.D
Acq: 4 Apr 2019 5:42 am

Tgt Ion: 63 Resp: 7739

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	8.8	19.4	40.2#
83	11.7	5.8	17.4

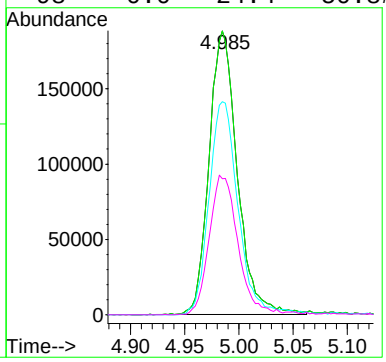


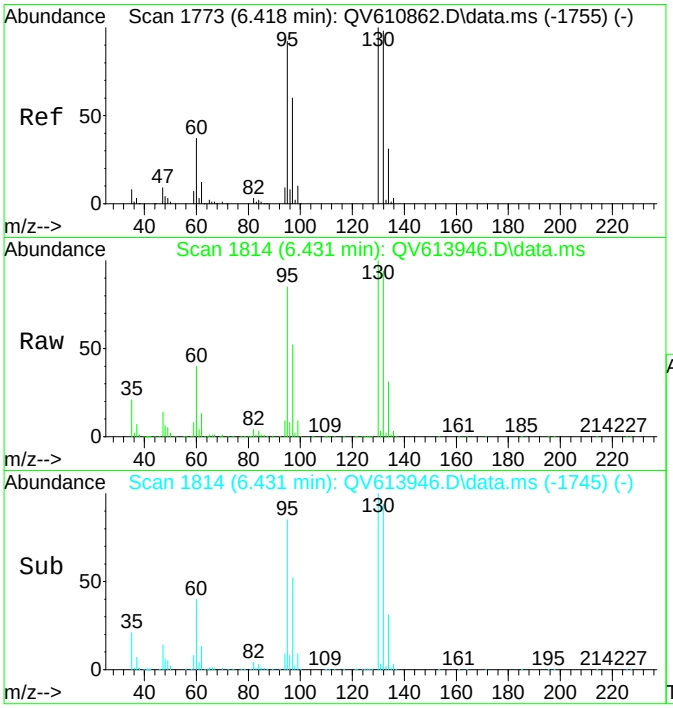


#25
cis-1,2-Dichloroethylene
Concen: 15.57 ppb
RT: 4.985 min Scan# 1294
Delta R.T. -0.006 min
Lab File: QV613946.D
Acq: 4 Apr 2019 5:42 am

Tgt Ion: 61 Resp: 341852

Ion	Ratio	Lower	Upper
61	100		
96	77.2	39.2	81.4
98	0.0	24.4	50.8#

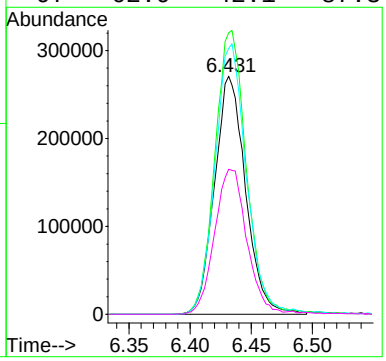




#41
Trichloroethylene
Concen: 31.10 ppb
RT: 6.431 min Scan# 1814
Delta R.T. -0.007 min
Lab File: QV613946.D
Acq: 4 Apr 2019 5:42 am

Tgt Ion: 95 Resp: 479337

Ion	Ratio	Lower	Upper
95	100		
130	121.5	70.0	145.4
132	113.5	69.6	144.6
97	62.9	42.1	87.3



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-07 0319

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19C1266-04	File ID:	QV613947.D
Sampled:	03/28/19 12:42	Prepared:	04/03/19 07:00	Analyzed:	04/04/19 06:09
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

Batch: BD90225 Sequence: Y9D0415 Calibration: YC90007 Instrument: QVOA6

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	0.28	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	0.29	J
75-35-4	1,1-Dichloroethylene	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
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	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
156-59-2	cis-1,2-Dichloroethylene	1	8.2	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-07 0319

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19C1266-04	File ID:	QV613947.D
Sampled:	03/28/19 12:42	Prepared:	04/03/19 07:00	Analyzed:	04/04/19 06:09
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
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
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	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	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	17	
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
SURR: 1,2-Dichloroethane-d4	10.0	11.2	112	69 - 130	
SURR: Toluene-d8	10.0	10.5	105	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.2	112	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	177393	6.084	196866	6.075	
ISTD: Chlorobenzene-d5	813896	9.125	899612	9.122	
ISTD: 1,2-Dichlorobenzene-d4	253141	12.099	300249	12.102	

* Values outside of QC limits

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613947.D
Acq On : 4 Apr 2019 6:09 am
InstName : QVOA6
Operator : LLJ
Sample : 19C1266-04
Misc : QBQV6040219C 8260 B
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Apr 04 10:59:03 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

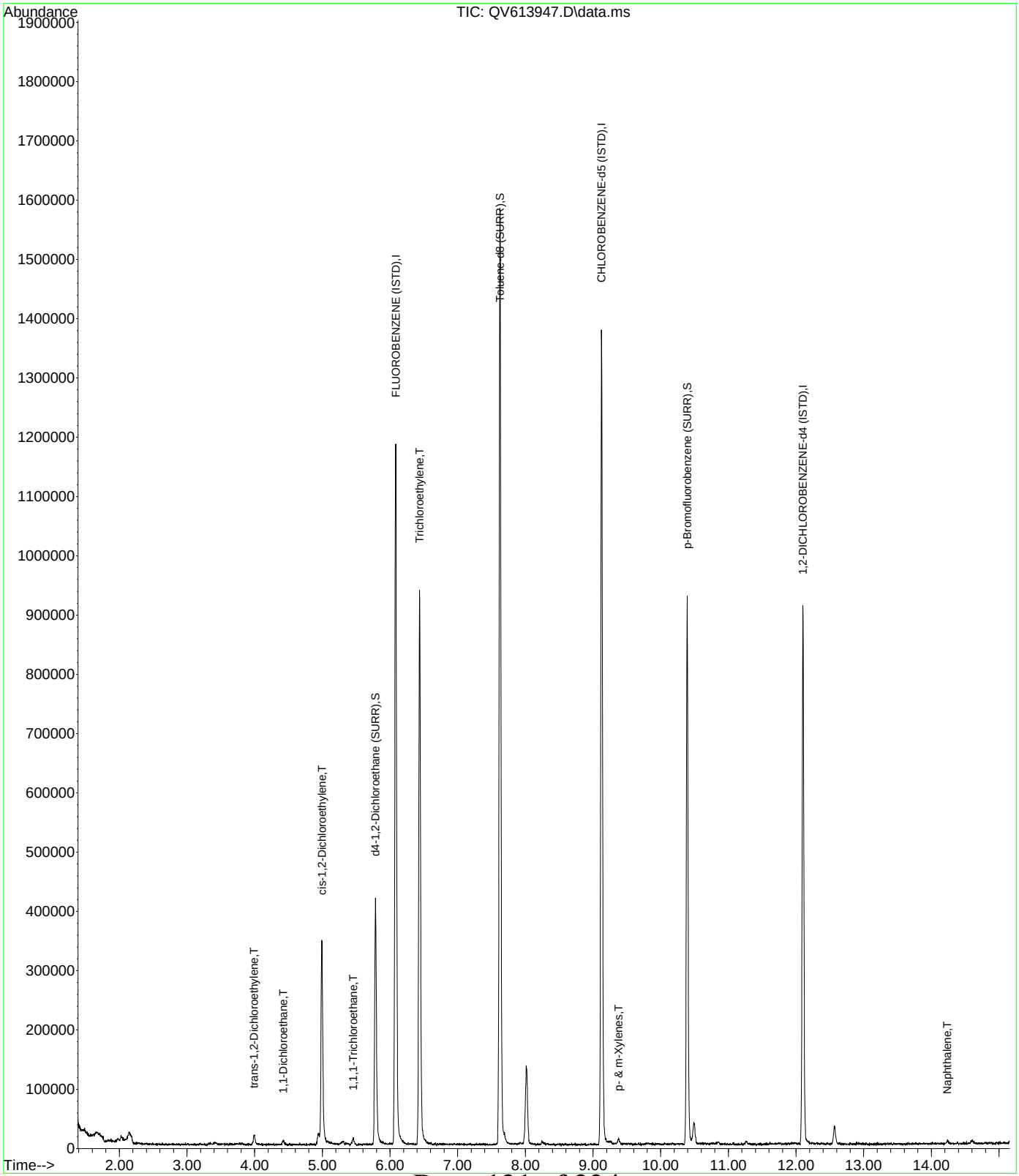
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.084	70	177393	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	813896	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.099	152	253141	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.783	65	250086	11.15	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 111.50%				
51) Toluene-d8 (SURR)	7.622	98	1063311	10.46	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 104.60%				
70) p-Bromofluorobenzene (...	10.391	95	306982	11.25	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 112.50%				
Target Compounds							Qvalue
19) trans-1,2-Dichloroethy...	3.989	61	9169m	0.50	ppb		
21) 1,1-Dichloroethane	4.423	63	6724m	0.29	ppb		
25) cis-1,2-Dichloroethylene	4.993	61	175971	8.25	ppb	#	81
31) 1,1,1-Trichloroethane	5.455	97	6068	0.28	ppb	#	80
41) Trichloroethylene	6.437	95	261393	17.22	ppb		92
63) p- & m-Xylenes	9.375	91	5425	0.11	ppb	#	85
93) Naphthalene	14.233	128	4855m	0.16	ppb		

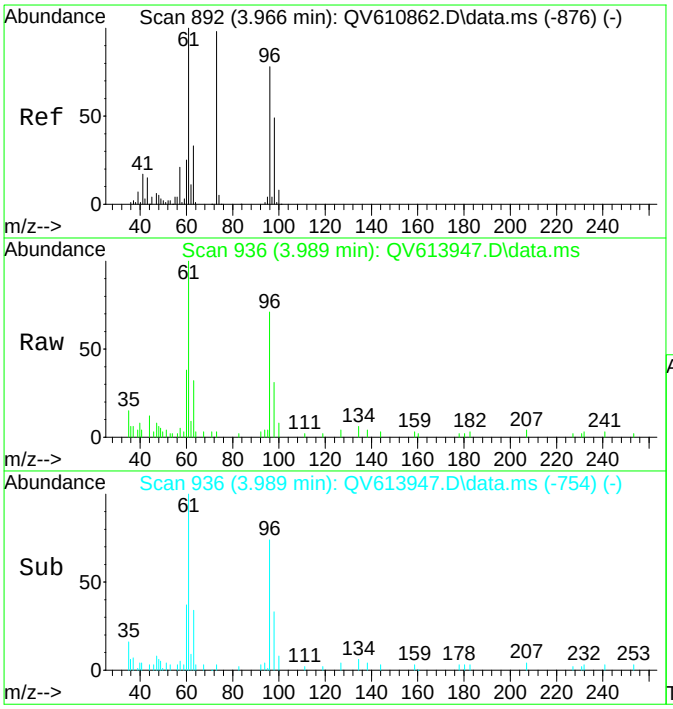
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613947.D
Acq On : 4 Apr 2019 6:09 am
InstName : QVOA6
Operator : LLJ
Sample : 19C1266-04
Misc : QBQV6040219C 8260 B
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Apr 04 10:59:03 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

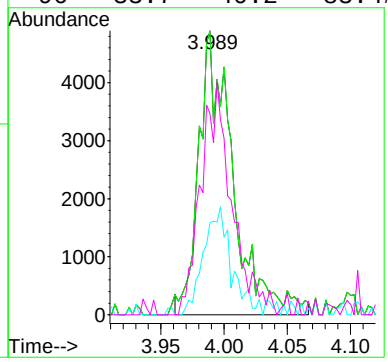


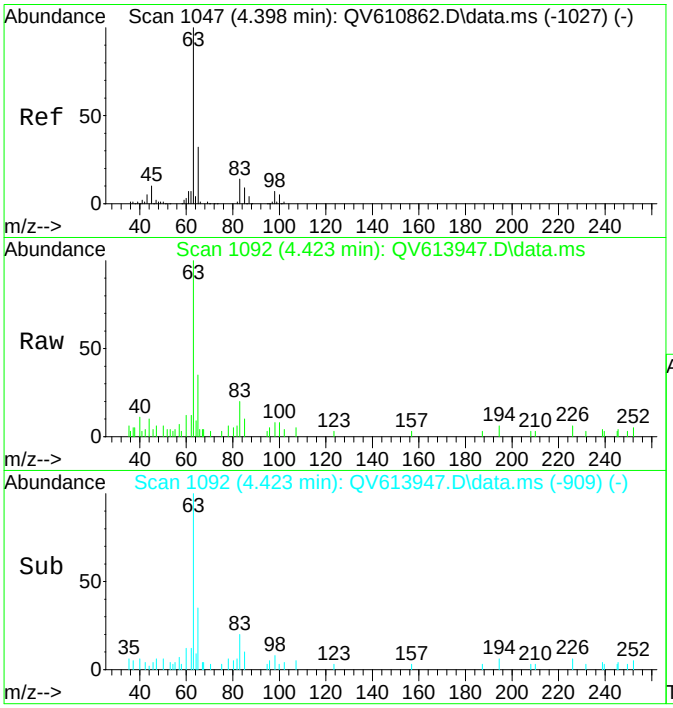


#19
trans-1,2-Dichloroethylene
Concen: 0.50 ppb m
RT: 3.989 min Scan# 936
Delta R.T. 0.006 min
Lab File: QV613947.D
Acq: 4 Apr 2019 6:09 am

Tgt Ion: 61 Resp: 9169

Ion	Ratio	Lower	Upper
61	100		
61	58.9	65.0	135.0#
63	0.0	20.9	43.3#
96	33.7	40.2	83.4#

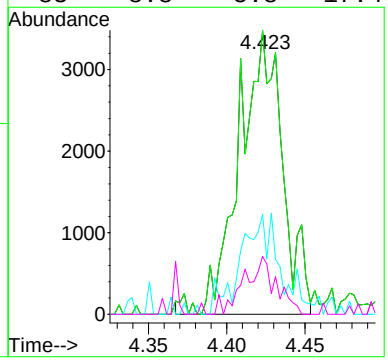


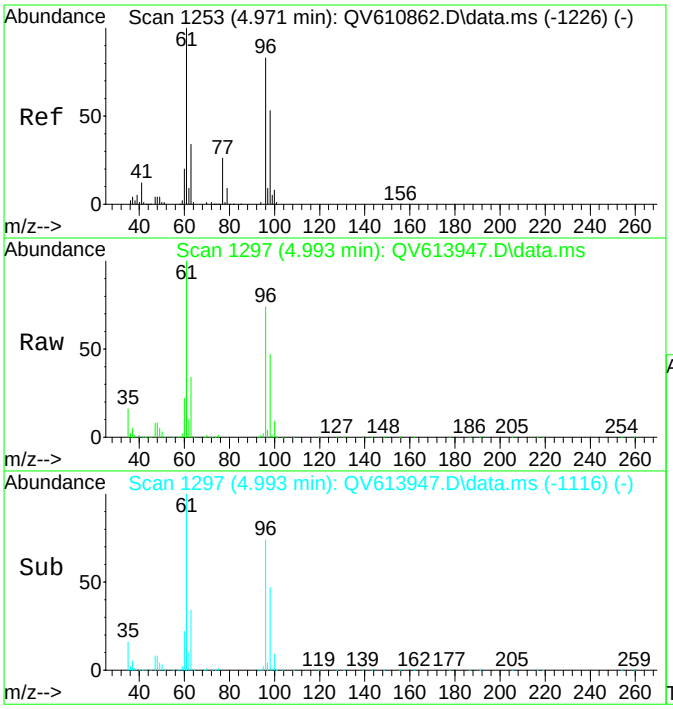


#21
1,1-Dichloroethane
Concen: 0.29 ppb m
RT: 4.423 min Scan# 1092
Delta R.T. 0.008 min
Lab File: QV613947.D
Acq: 4 Apr 2019 6:09 am

Tgt Ion: 63 Resp: 6724

Ion	Ratio	Lower	Upper
63	100		
63	56.4	65.0	135.0#
65	21.6	19.4	40.2
83	8.8	5.8	17.4

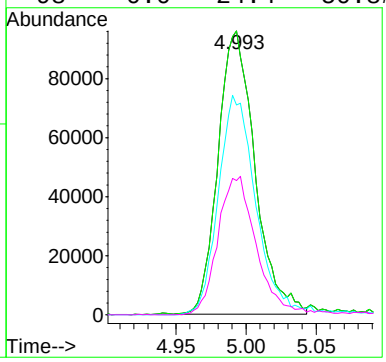


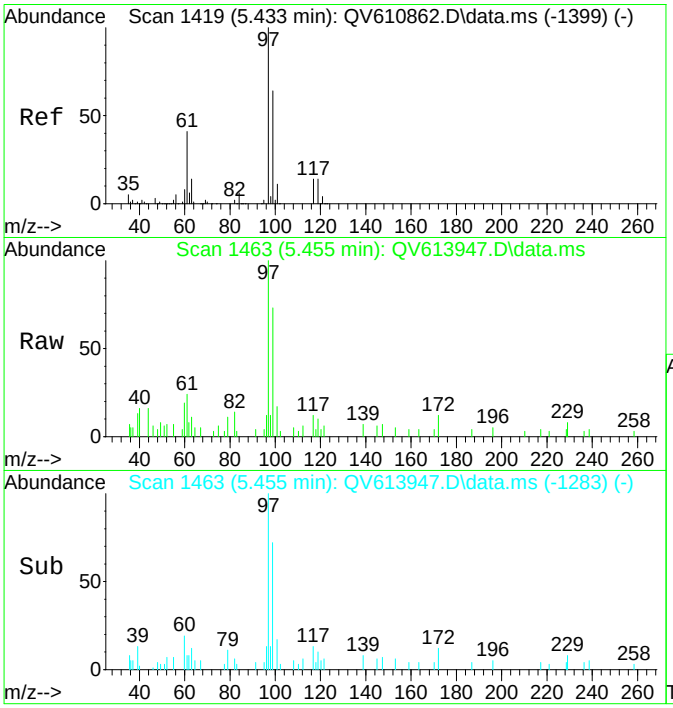


#25
cis-1,2-Dichloroethylene
Concen: 8.25 ppb
RT: 4.993 min Scan# 1297
Delta R.T. 0.003 min
Lab File: QV613947.D
Acq: 4 Apr 2019 6:09 am

Tgt Ion: 61 Resp: 175971

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	78.7	39.2	81.4
98	0.0	24.4	50.8#

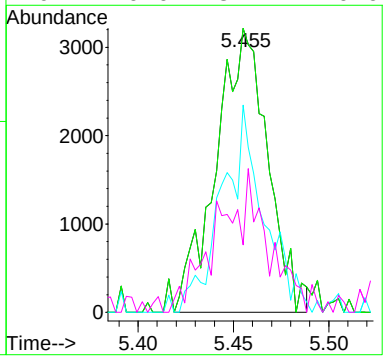


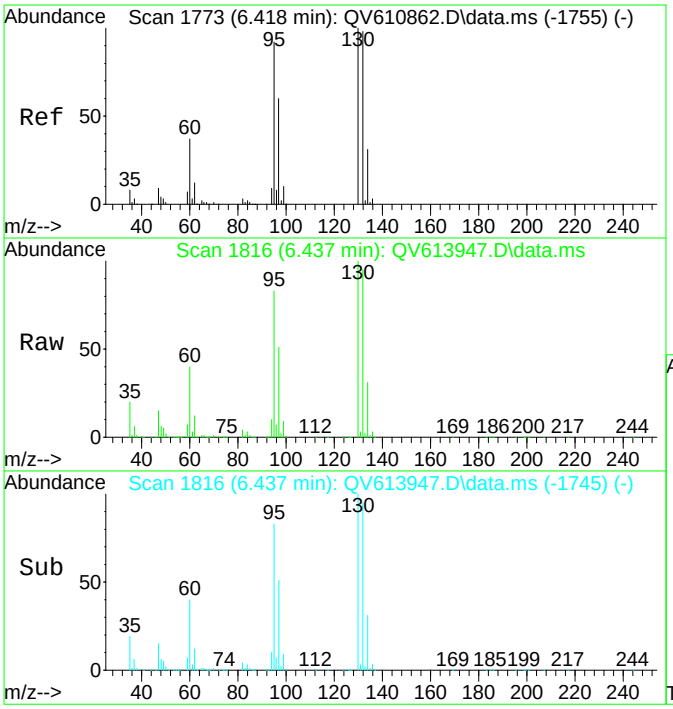


#31
1,1,1-Trichloroethane
Concen: 0.28 ppb
RT: 5.455 min Scan# 1463
Delta R.T. -0.000 min
Lab File: QV613947.D
Acq: 4 Apr 2019 6:09 am

Tgt Ion: 97 Resp: 6068

Ion	Ratio	Lower	Upper
97	100		
97	100.0	65.0	135.0
99	59.0	42.1	87.5
61	0.0	34.1	70.9#

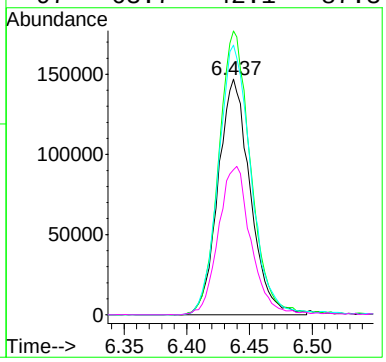


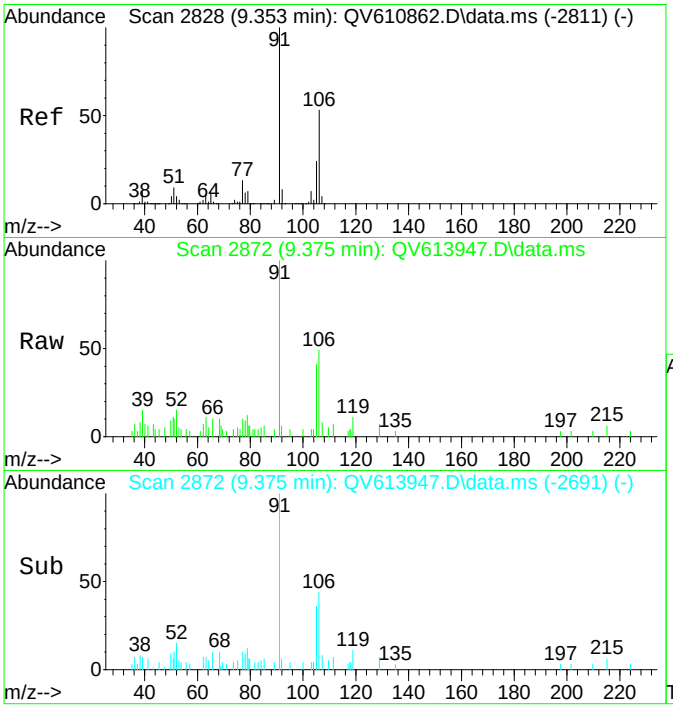


#41
Trichloroethylene
Concen: 17.22 ppb
RT: 6.437 min Scan# 1816
Delta R.T. -0.002 min
Lab File: QV613947.D
Acq: 4 Apr 2019 6:09 am

Tgt Ion: 95 Resp: 261393

Ion	Ratio	Lower	Upper
95	100		
130	120.2	70.0	145.4
132	115.9	69.6	144.6
97	63.7	42.1	87.3

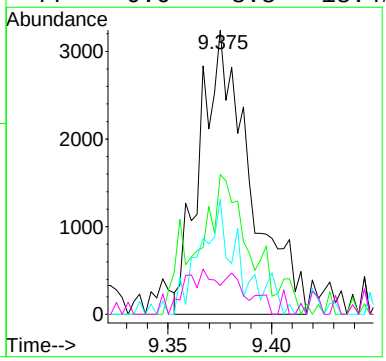


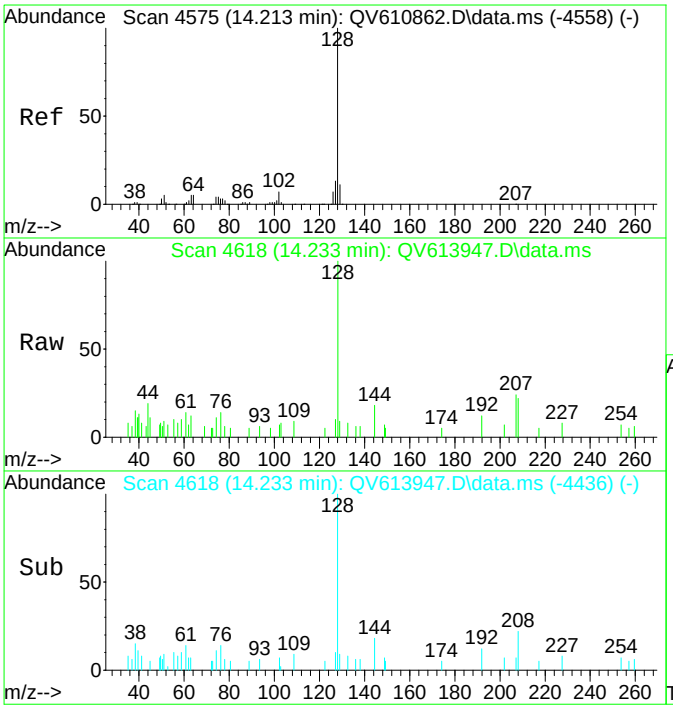


#63
p- & m-Xylenes
Concen: 0.11 ppb
RT: 9.375 min Scan# 2872
Delta R.T. 0.004 min
Lab File: QV613947.D
Acq: 4 Apr 2019 6:09 am

Tgt Ion: 91 Resp: 5425

Ion	Ratio	Lower	Upper
91	100		
106	40.7	34.1	70.9
105	26.1	16.2	33.6
77	0.0	8.8	18.4#

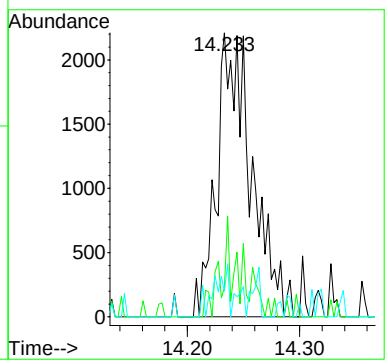




#93
Naphthalene
Concen: 0.16 ppb m
RT: 14.233 min Scan# 4618
Delta R.T. 0.007 min
Lab File: QV613947.D
Acq: 4 Apr 2019 6:09 am

Tgt Ion:128 Resp: 4855

Ion	Ratio	Lower	Upper
128	100		
127	5.0	8.9	18.5#
129	0.0	7.3	15.3#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-DUP 0319

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19C1266-05	File ID:	QV613948.D
Sampled:	03/28/19 00:00	Prepared:	04/03/19 07:00	Analyzed:	04/04/19 06:37
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007
Instrument:	QVOA6				

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	2.7	
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	1.6	
75-35-4	1,1-Dichloroethylene	1	4.1	
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
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	1.9	J
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	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	0.27	J
74-87-3	Chloromethane	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-DUP 0319

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19C1266-05	File ID:	QV613948.D
Sampled:	03/28/19 00:00	Prepared:	04/03/19 07:00	Analyzed:	04/04/19 06:37
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
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
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.28	J
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	36	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	140	
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	11.0	110	69 - 130	
SURR: Toluene-d8	10.0	10.6	106	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.5	115	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	189190	6.084	196866	6.075	
ISTD: Chlorobenzene-d5	874238	9.125	899612	9.122	
ISTD: 1,2-Dichlorobenzene-d4	263802	12.105	300249	12.102	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613948.D
Acq On : 4 Apr 2019 6:37 am
InstName : QVOA6
Operator : LLJ
Sample : 19C1266-05
Misc : QBQV6040219C 8260 B
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Apr 04 10:34:54 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

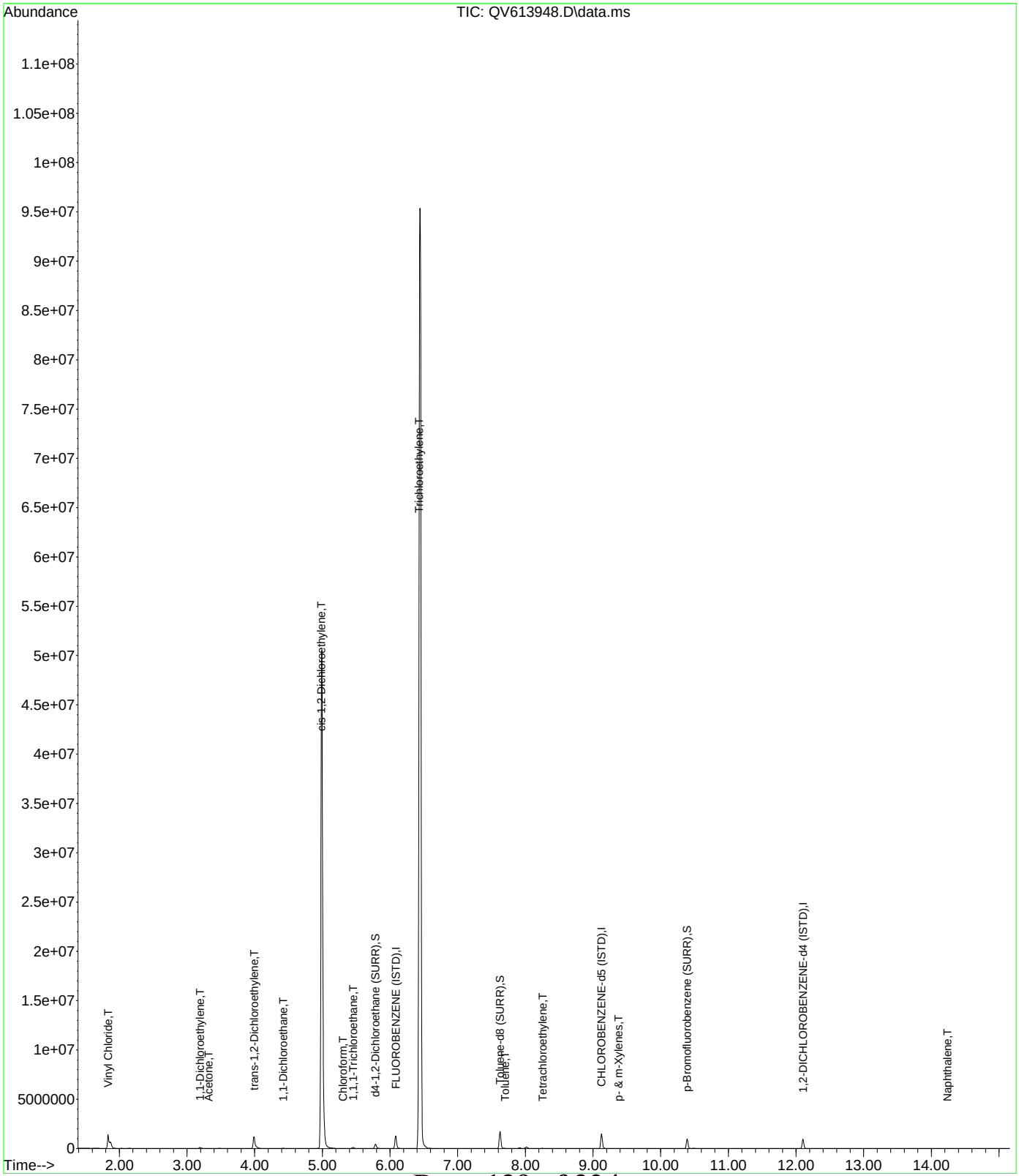
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.084	70	189190	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	874238	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.105	152	263802	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.783	65	262273	10.96	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 109.60%				
51) Toluene-d8 (SURR)	7.625	98	1158364	10.61	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 106.10%				
70) p-Bromofluorobenzene (...	10.388	95	328291	11.54	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 115.40%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.833	62	1843077m	141.29	ppb		
10) 1,1-Dichloroethylene	3.190	61	77535	4.07	ppb	#	64
12) Acetone	3.318	43	7877m	1.89	ppb		
19) trans-1,2-Dichloroethy...	3.992	61	699322	35.97	ppb		96
21) 1,1-Dichloroethane	4.423	63	40671	1.65	ppb	#	87
25) cis-1,2-Dichloroethylene	4.982	61	19841373m	872.40	ppb		
30) Chloroform	5.305	83	6611	0.27	ppb	#	84
31) 1,1,1-Trichloroethane	5.455	97	63800	2.73	ppb	#	81
41) Trichloroethylene	6.429	95	21660708m	1328.14	ppb		
52) Toluene	7.697	91	10035	0.14	ppb		92
56) Tetrachloroethylene	8.254	166	6178	0.28	ppb	#	100
63) p- & m-Xylenes	9.375	91	6837m	0.13	ppb		
93) Naphthalene	14.236	128	3294	0.10	ppb		94

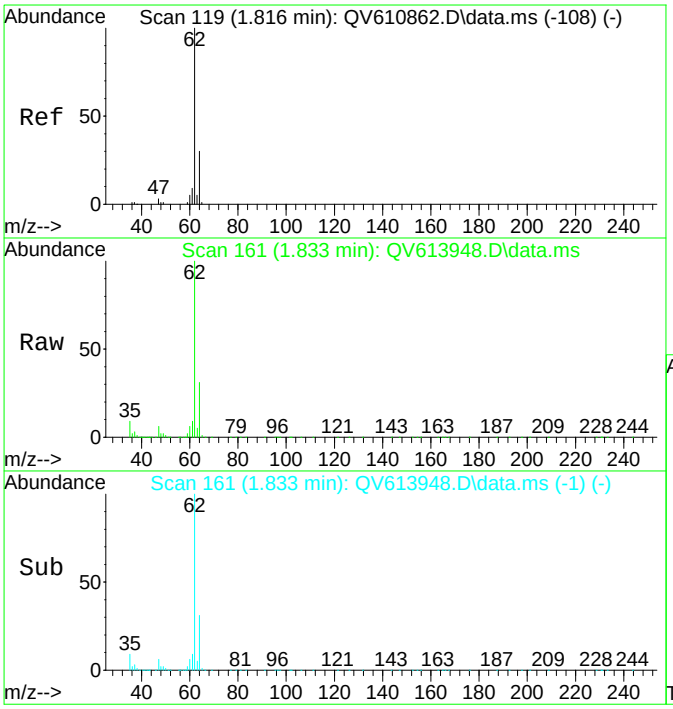
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613948.D
Acq On : 4 Apr 2019 6:37 am
InstName : QVOA6
Operator : LLJ
Sample : 19C1266-05
Misc : QBQV6040219C 8260 B
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Apr 04 10:34:54 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

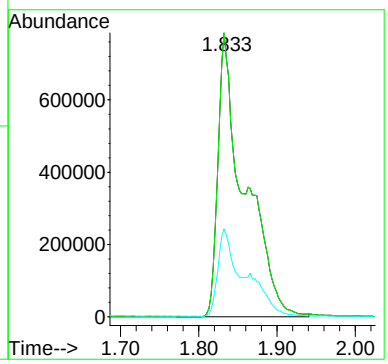


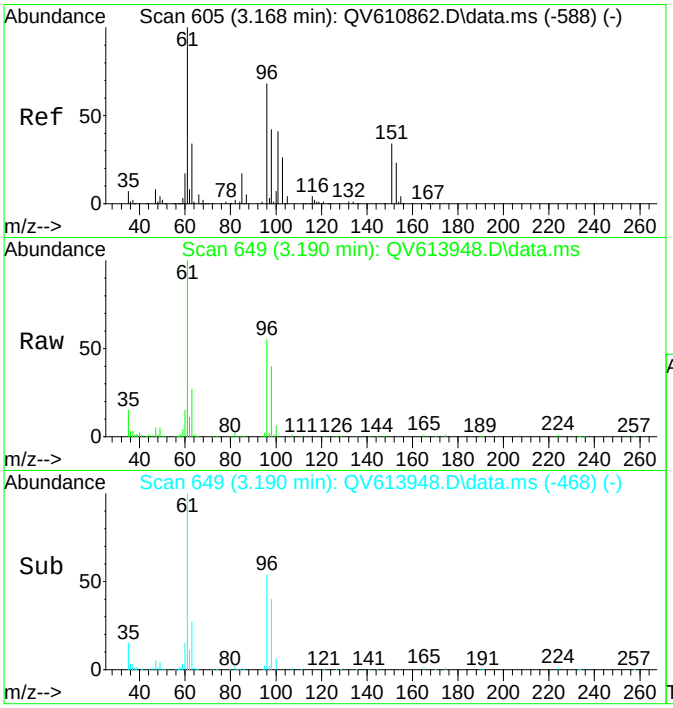


#4
Vinyl Chloride
Concen: 141.29 ppb m
RT: 1.833 min Scan# 161
Delta R.T. 0.002 min
Lab File: QV613948.D
Acq: 4 Apr 2019 6:37 am

Tgt Ion: 62 Resp: 1843077

Ion	Ratio	Lower	Upper
62	100		
62	67.9	36.0	74.8
64	21.2	12.5	25.9

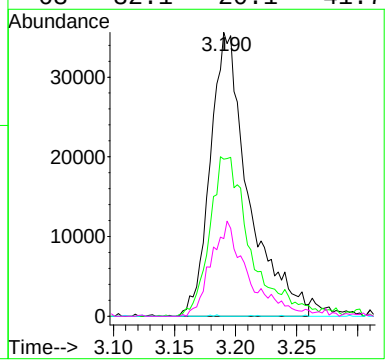


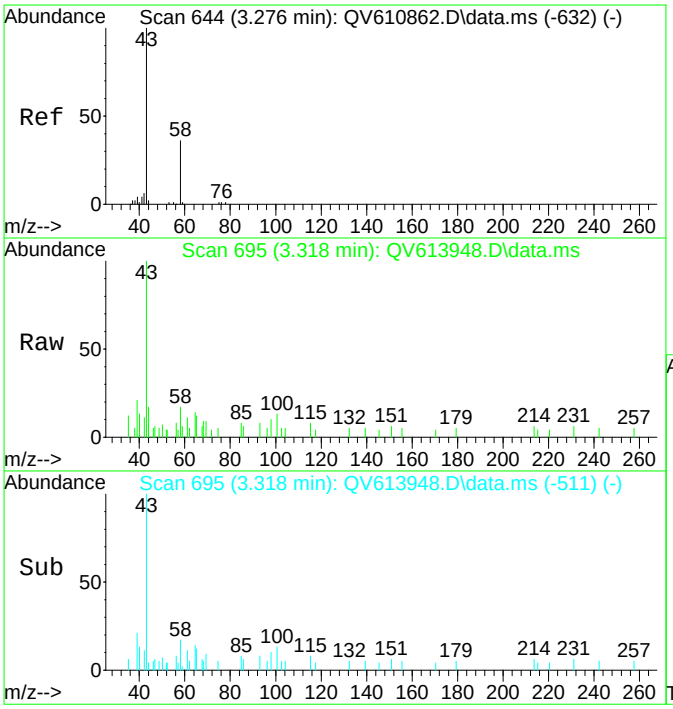


#10
1,1-Dichloroethylene
Concen: 4.07 ppb
RT: 3.190 min Scan# 649
Delta R.T. 0.004 min
Lab File: QV613948.D
Acq: 4 Apr 2019 6:37 am

Tgt Ion: 61 Resp: 77535

Ion	Ratio	Lower	Upper
61	100		
96	59.9	33.6	69.8
101	0.0	37.0	77.0#
63	32.1	20.1	41.7

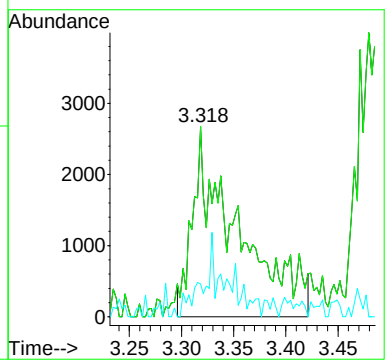


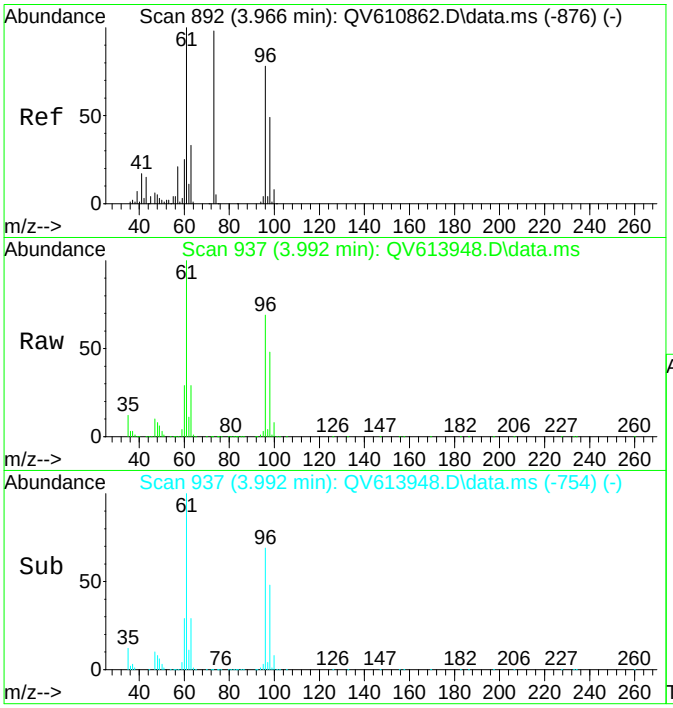


#12
Acetone
Concen: 1.89 ppb m
RT: 3.318 min Scan# 695
Delta R.T. 0.013 min
Lab File: QV613948.D
Acq: 4 Apr 2019 6:37 am

Tgt Ion: 43 Resp: 7877

Ion	Ratio	Lower	Upper
43	100		
43	21.3	80.0	120.0#
58	2.5	6.0	18.1#

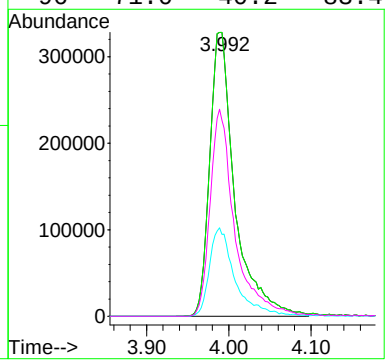


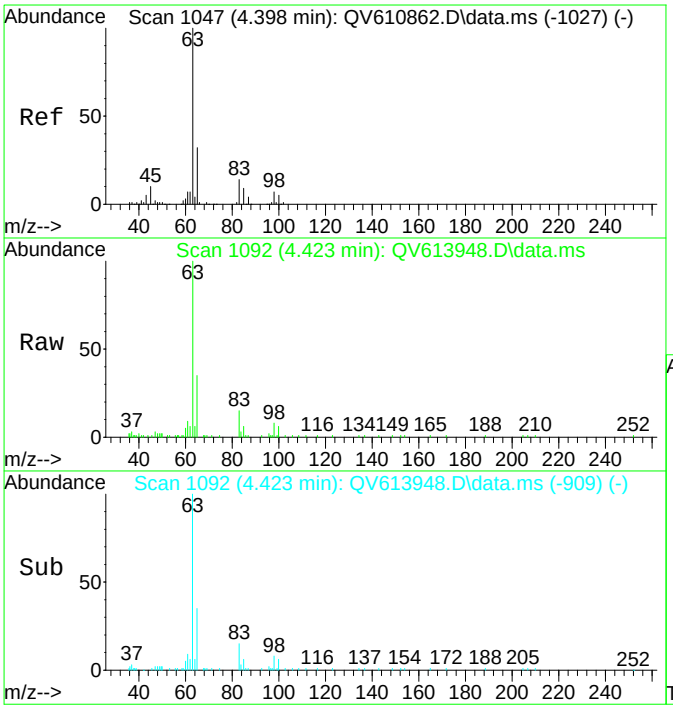


#19
trans-1,2-Dichloroethylene
Concen: 35.97 ppb
RT: 3.992 min Scan# 937
Delta R.T. 0.008 min
Lab File: QV613948.D
Acq: 4 Apr 2019 6:37 am

Tgt Ion: 61 Resp: 699322

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	31.6	20.9	43.3
96	71.0	40.2	83.4

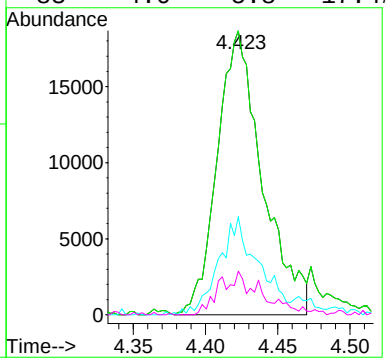


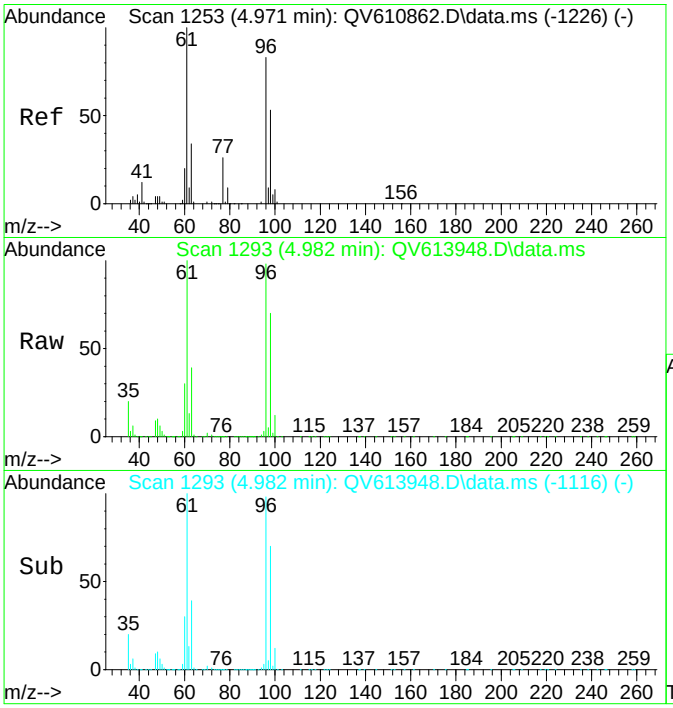


#21
1,1-Dichloroethane
Concen: 1.65 ppb
RT: 4.423 min Scan# 1092
Delta R.T. 0.008 min
Lab File: QV613948.D
Acq: 4 Apr 2019 6:37 am

Tgt Ion: 63 Resp: 40671

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	0.0	19.4	40.2#
83	4.0	5.8	17.4#

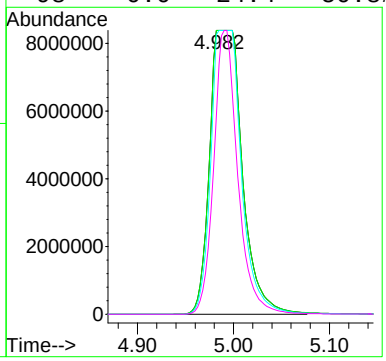


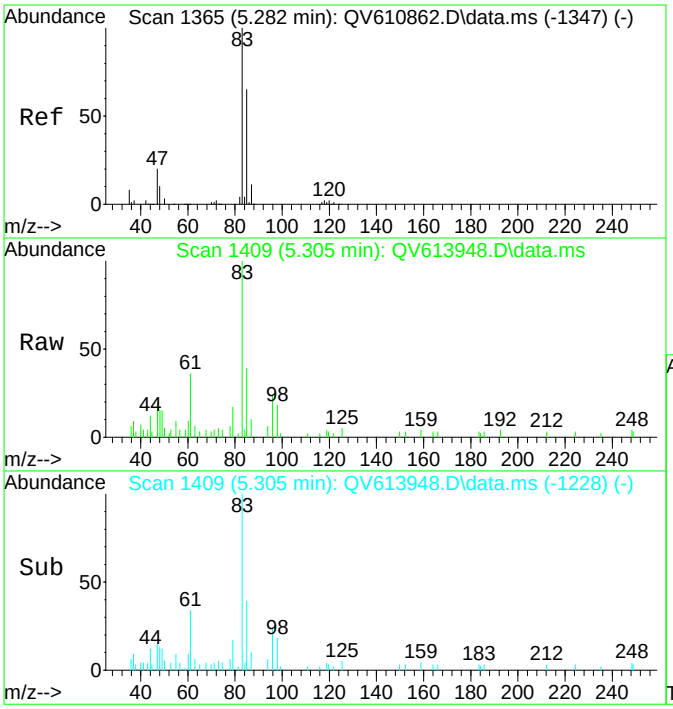


#25
cis-1,2-Dichloroethylene
Concen: 872.40 ppb m
RT: 4.982 min Scan# 1293
Delta R.T. -0.009 min
Lab File: QV613948.D
Acq: 4 Apr 2019 6:37 am

Tgt Ion: 61 Resp:19841373

Ion	Ratio	Lower	Upper
61	100		
61	0.0	65.0	135.0#
96	0.0	39.2	81.4#
98	0.0	24.4	50.8#

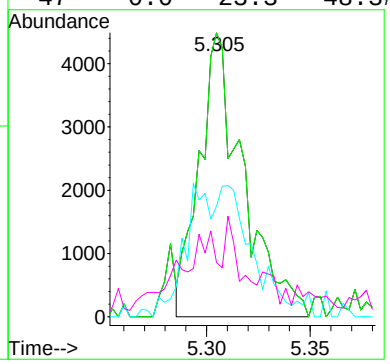


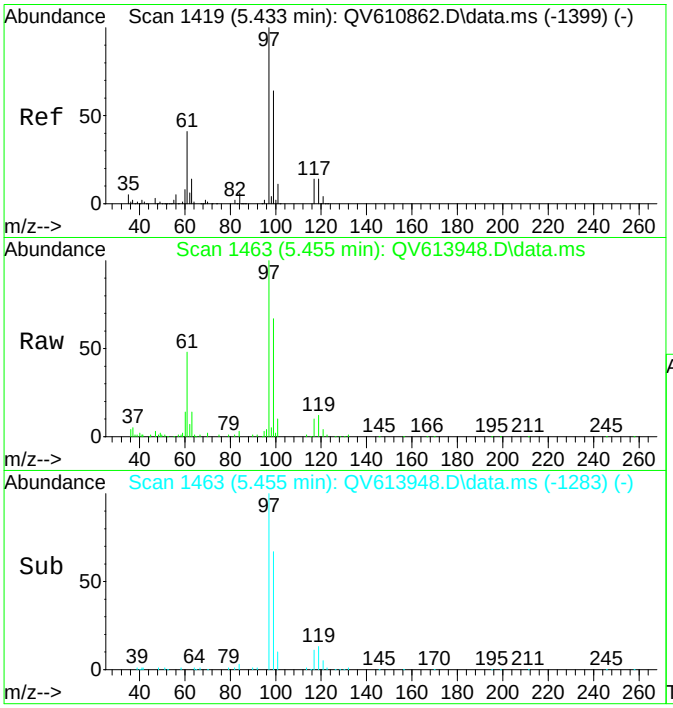


#30
Chloroform
Concen: 0.27 ppb
RT: 5.305 min Scan# 1409
Delta R.T. 0.005 min
Lab File: QV613948.D
Acq: 4 Apr 2019 6:37 am

Tgt Ion: 83 Resp: 6611

Ion	Ratio	Lower	Upper
83	100		
83	100.0	65.0	135.0
85	28.0	0.0	0.0#
47	0.0	23.3	48.3#

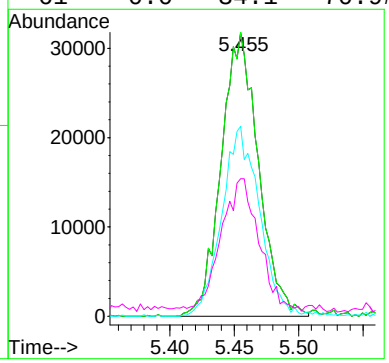


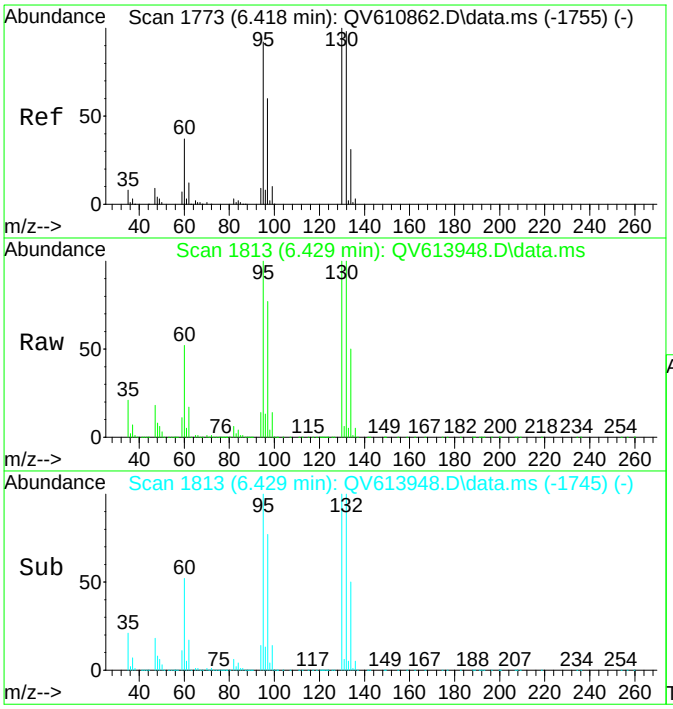


#31
1,1,1-Trichloroethane
Concen: 2.73 ppb
RT: 5.455 min Scan# 1463
Delta R.T. -0.000 min
Lab File: QV613948.D
Acq: 4 Apr 2019 6:37 am

Tgt Ion: 97 Resp: 63800

Ion	Ratio	Lower	Upper
97	100		
97	100.0	65.0	135.0
99	67.4	42.1	87.5
61	0.0	34.1	70.9#

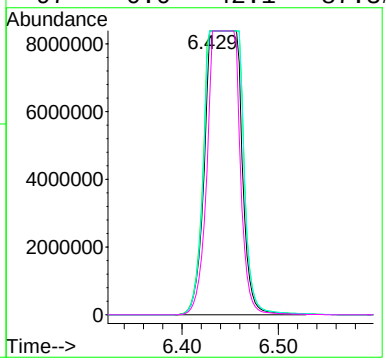


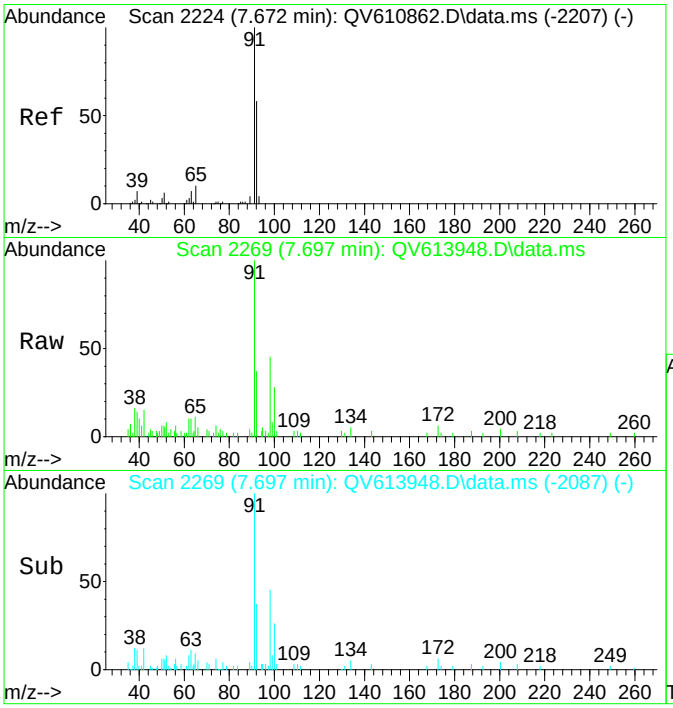


#41
Trichloroethylene
Concen: 1328.14 ppb m
RT: 6.429 min Scan# 1813
Delta R.T. -0.010 min
Lab File: QV613948.D
Acq: 4 Apr 2019 6:37 am

Tgt Ion: 95 Resp:21660708

Ion	Ratio	Lower	Upper
95	100		
130	0.0	70.0	145.4#
132	0.0	69.6	144.6#
97	0.0	42.1	87.3#

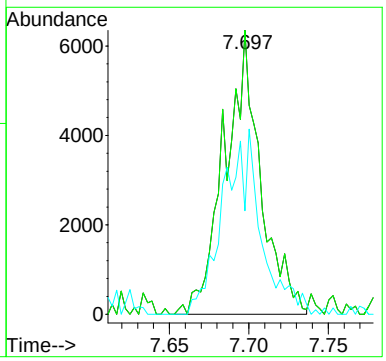


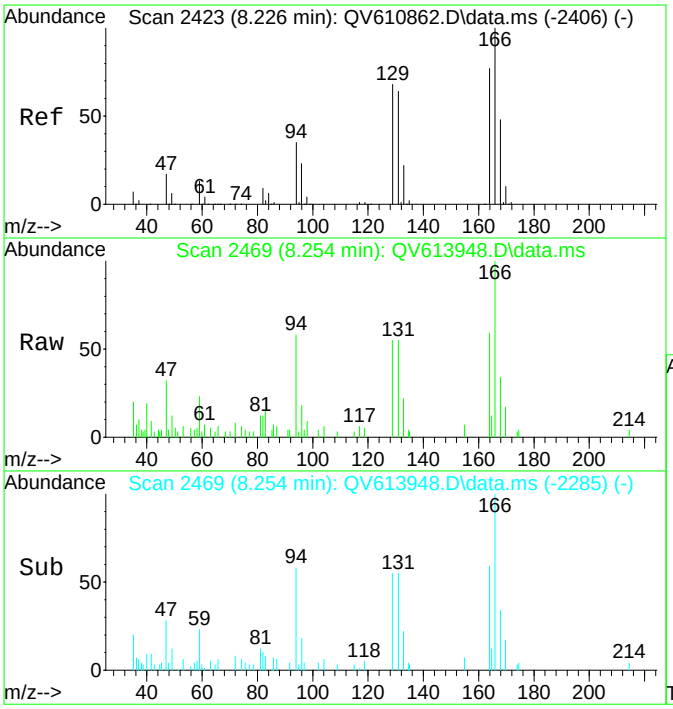


#52
Toluene
Concen: 0.14 ppb
RT: 7.697 min Scan# 2269
Delta R.T. 0.006 min
Lab File: QV613948.D
Acq: 4 Apr 2019 6:37 am

Tgt Ion: 91 Resp: 10035

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	40.2	37.2	77.4

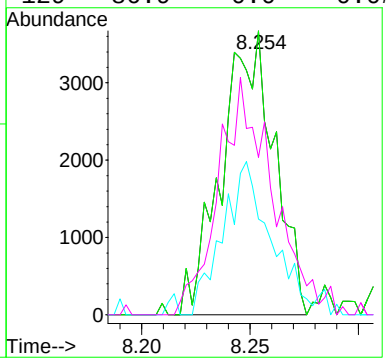


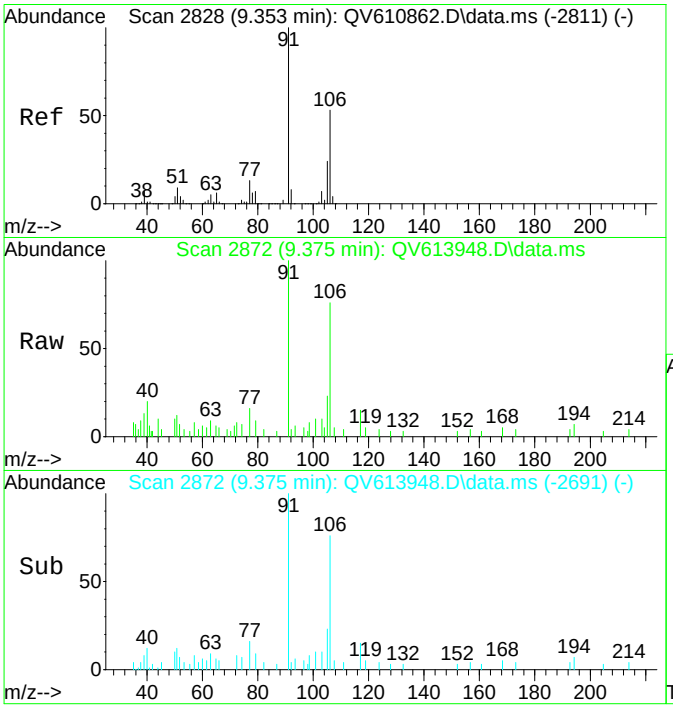


#56
Tetrachloroethylene
Concen: 0.28 ppb
RT: 8.254 min Scan# 2469
Delta R.T. 0.013 min
Lab File: QV613948.D
Acq: 4 Apr 2019 6:37 am

Tgt Ion:166 Resp: 6178

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	49.2	31.7	65.7
129	86.9	0.0	0.0#

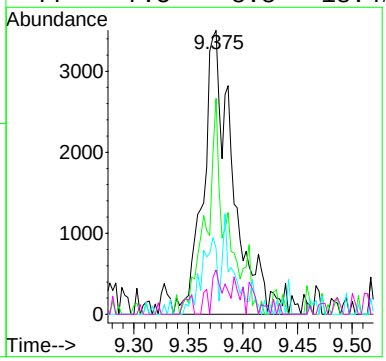


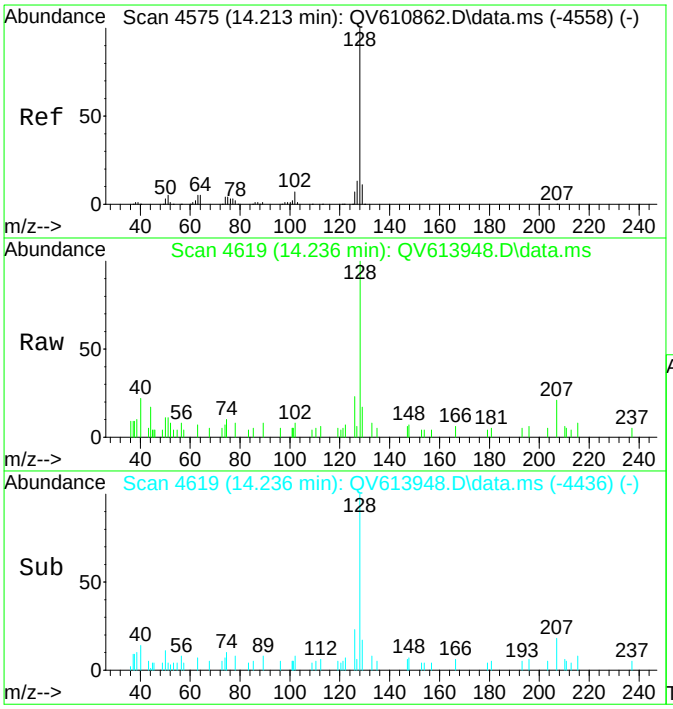


#63
p- & m-Xylenes
Concen: 0.13 ppb m
RT: 9.375 min Scan# 2872
Delta R.T. 0.004 min
Lab File: QV613948.D
Acq: 4 Apr 2019 6:37 am

Tgt Ion: 91 Resp: 6837

Ion	Ratio	Lower	Upper
91	100		
106	44.8	34.1	70.9
105	13.6	16.2	33.6#
77	7.5	8.8	18.4#

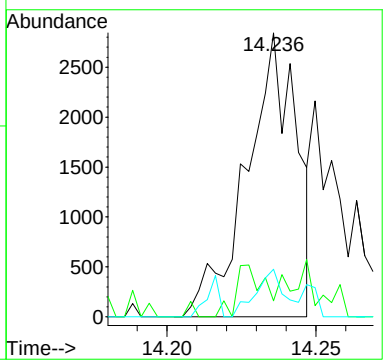




#93
Naphthalene
Concen: 0.10 ppb
RT: 14.236 min Scan# 4619
Delta R.T. 0.010 min
Lab File: QV613948.D
Acq: 4 Apr 2019 6:37 am

Tgt Ion:128 Resp: 3294

Ion	Ratio	Lower	Upper
128	100		
127	10.2	8.9	18.5
129	9.9	7.3	15.3



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-DUP 0319

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19C1266-05RE1	File ID:	QV614023.D
Sampled:	03/28/19 00:00	Prepared:	04/03/19 07:00	Analyzed:	04/05/19 18:50
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BD90281	Sequence:	Y9D0501	Calibration:	YC90007
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	20	920	D
79-01-6	Trichloroethylene	20	1300	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.6	106	69 - 130	
SURR: Toluene-d8	10.0	10.5	105	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.3	113	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	193163	6.081	199731	6.081	
ISTD: Chlorobenzene-d5	884586	9.125	912751	9.122	
ISTD: 1,2-Dichlorobenzene-d4	264601	12.099	281829	12.096	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614023.D
Acq On : 5 Apr 2019 6:50 pm
InstName : QVOA6
Operator : LLJ
Sample : 19C12966-05RE1
Misc : QBQV6040519A 8260 2.5ML/50ML A
ALS Vial : 13 Sample Multiplier: 20

Quant Time: Apr 08 06:57:58 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

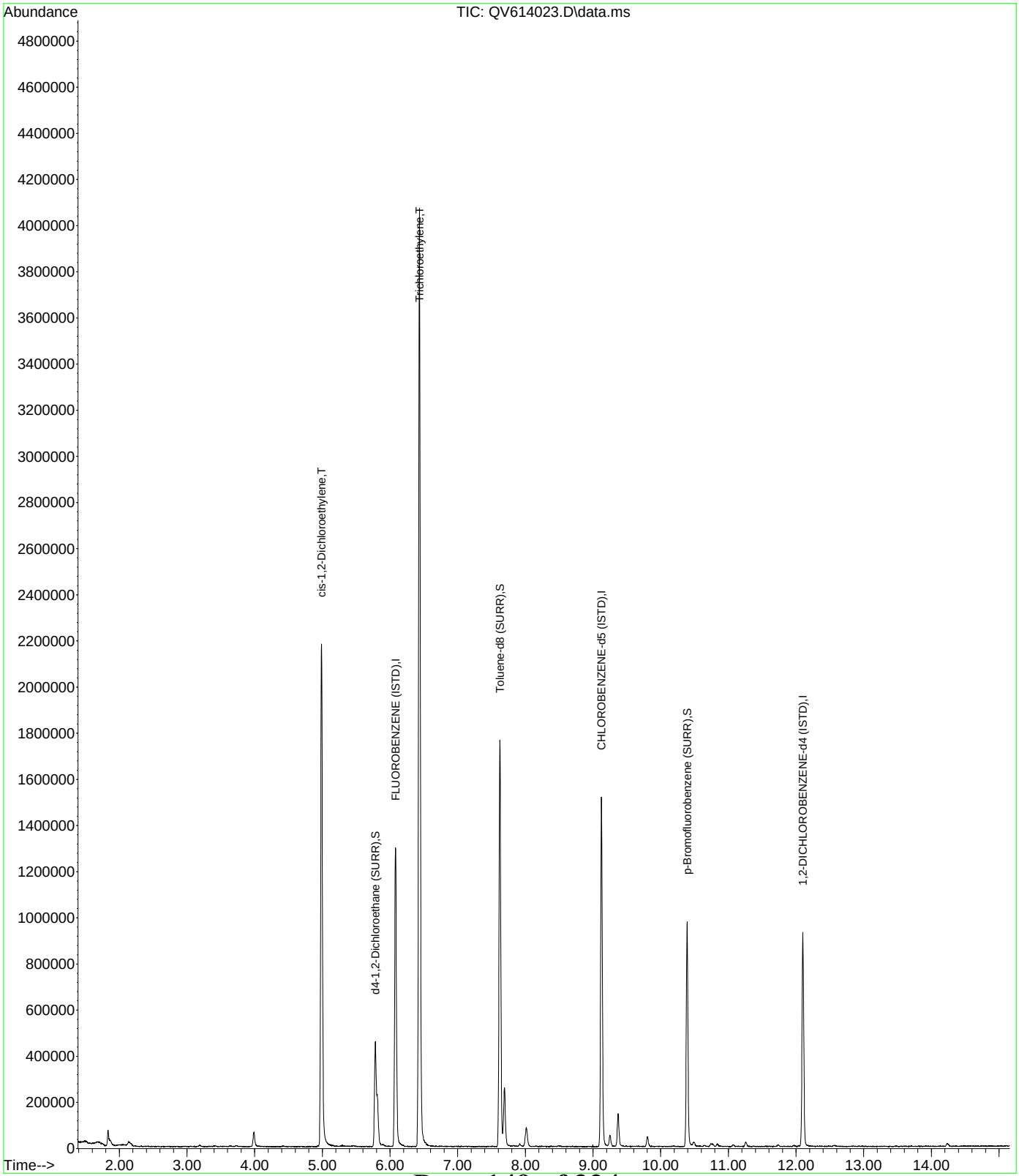
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.081	70	193163	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	884586	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.099	152	264601	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.783	65	259761	10.64	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 106.40%			
51) Toluene-d8 (SURR)	7.622	98	1164432	10.54	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 105.40%			
70) p-Bromofluorobenzene (...	10.391	95	323207	11.33	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 113.30%			
Target Compounds						Qvalue
25) cis-1,2-Dichloroethylene	4.988	61	1070405	46.10	ppb	# 88
41) Trichloroethylene	6.434	95	1084039	65.69	ppb	91

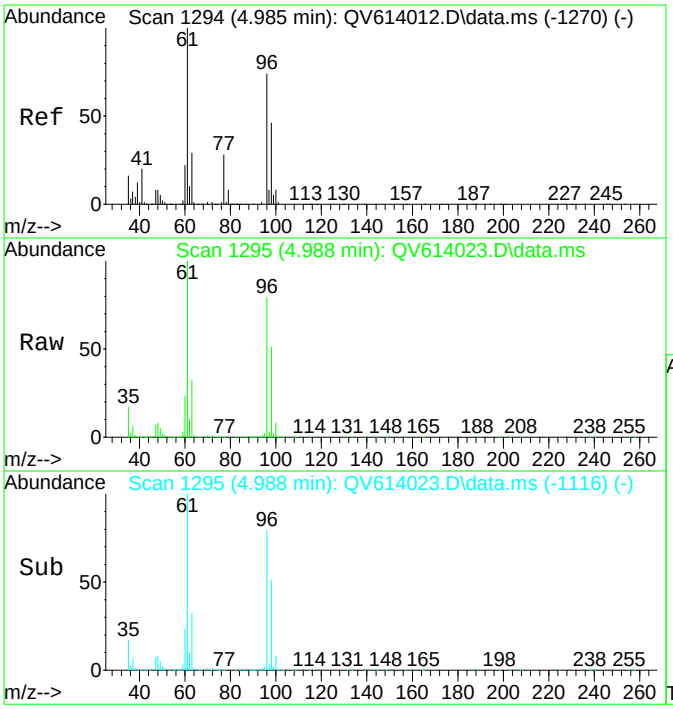
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614023.D
Acq On : 5 Apr 2019 6:50 pm
InstName : QVOA6
Operator : LLJ
Sample : 19C12966-05RE1
Misc : QBQV6040519A 8260 2.5ML/50ML A
ALS Vial : 13 Sample Multiplier: 20

Quant Time: Apr 08 06:57:58 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

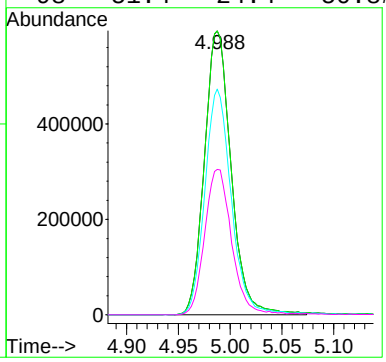


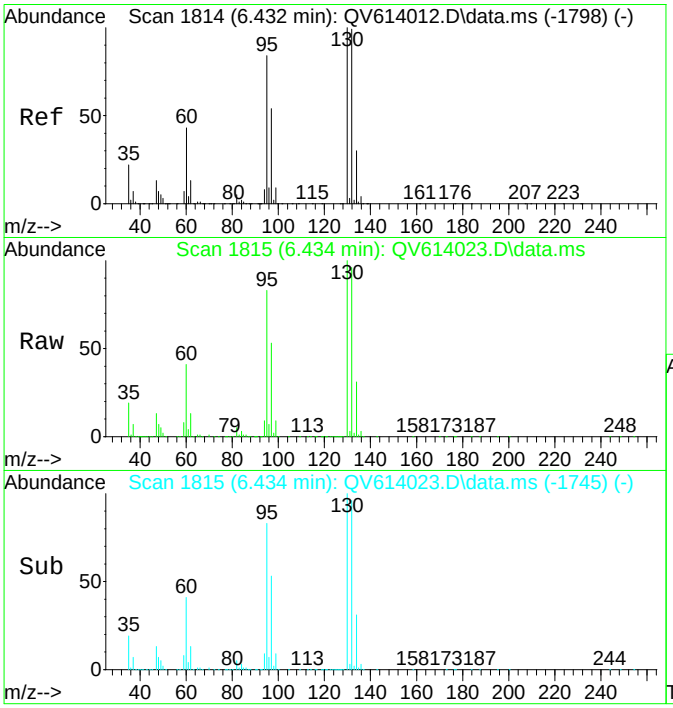


#25
cis-1,2-Dichloroethylene
Concen: 46.10 ppb
RT: 4.988 min Scan# 1295
Delta R.T. -0.003 min
Lab File: QV614023.D
Acq: 5 Apr 2019 6:50 pm

Tgt Ion: 61 Resp: 1070405

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	78.6	39.2	81.4
98	51.4	24.4	50.8#

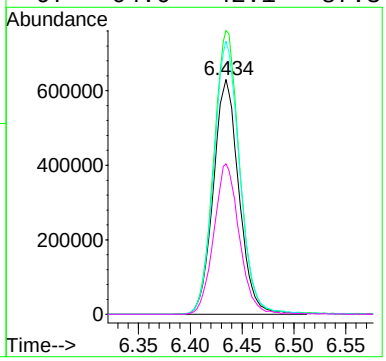




#41
Trichloroethylene
Concen: 65.69 ppb
RT: 6.434 min Scan# 1815
Delta R.T. -0.004 min
Lab File: QV614023.D
Acq: 5 Apr 2019 6:50 pm

Tgt Ion: 95 Resp: 1084039

Ion	Ratio	Lower	Upper
95	100		
130	122.1	70.0	145.4
132	117.6	69.6	144.6
97	64.0	42.1	87.3



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

TRIP BLANK 0319

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19C1266-06 File ID: QV613949.D

Sampled: 03/28/19 00:00 Prepared: 04/03/19 07:00 Analyzed: 04/04/19 07:05

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BD90225 Sequence: Y9D0415 Calibration: YC90007 Instrument: QVOA6

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
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
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	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
156-59-2	cis-1,2-Dichloroethylene	1	0.81	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

TRIP BLANK 0319

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19C1266-06 File ID: QV613949.D

Sampled: 03/28/19 00:00 Prepared: 04/03/19 07:00 Analyzed: 04/04/19 07:05

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BD90225 Sequence: Y9D0415 Calibration: YC90007 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
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
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	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
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	1.9	
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
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	
SURR: Toluene-d8	10.0	10.4	104	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.4	114	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	181753	6.084	196866	6.075	
ISTD: Chlorobenzene-d5	823867	9.125	899612	9.122	
ISTD: 1,2-Dichlorobenzene-d4	252943	12.102	300249	12.102	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613949.D
Acq On : 4 Apr 2019 7:05 am
InstName : QVOA6
Operator : LLJ
Sample : 19C1266-06
Misc : QBQV6040219C 8260 B
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Apr 04 11:01:17 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

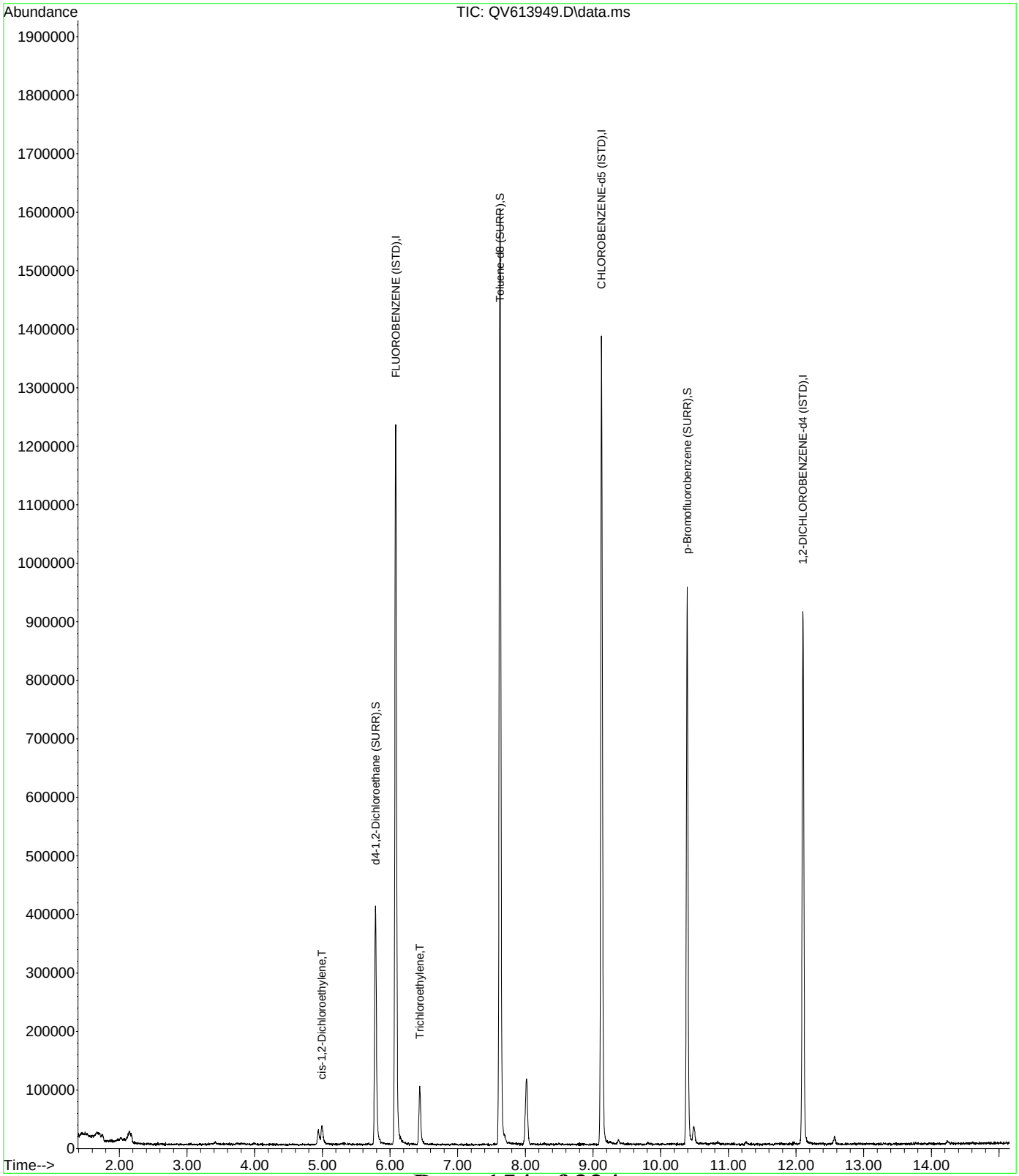
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.084	70	181753	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	823867	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	252943	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.786	65	248584	10.82	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.20%			
51) Toluene-d8 (SURR)	7.625	98	1070170	10.40	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 104.00%			
70) p-Bromofluorobenzene (...	10.393	95	311864	11.44	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 114.40%			
Target Compounds						Qvalue
25) cis-1,2-Dichloroethylene	4.990	61	17652	0.81	ppb	91
41) Trichloroethylene	6.440	95	29375	1.91	ppb	95

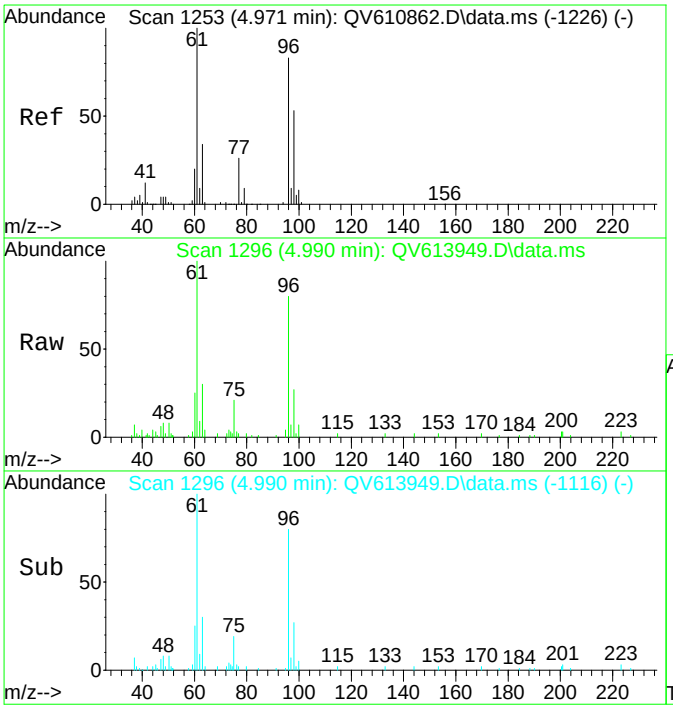
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613949.D
Acq On : 4 Apr 2019 7:05 am
InstName : QVOA6
Operator : LLJ
Sample : 19C1266-06
Misc : QBQV6040219C 8260 B
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Apr 04 11:01:17 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

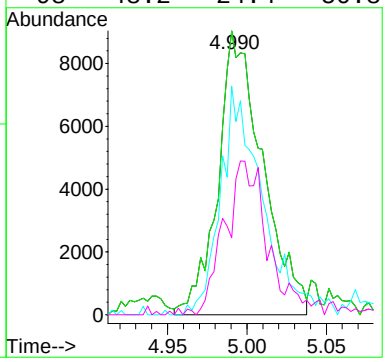


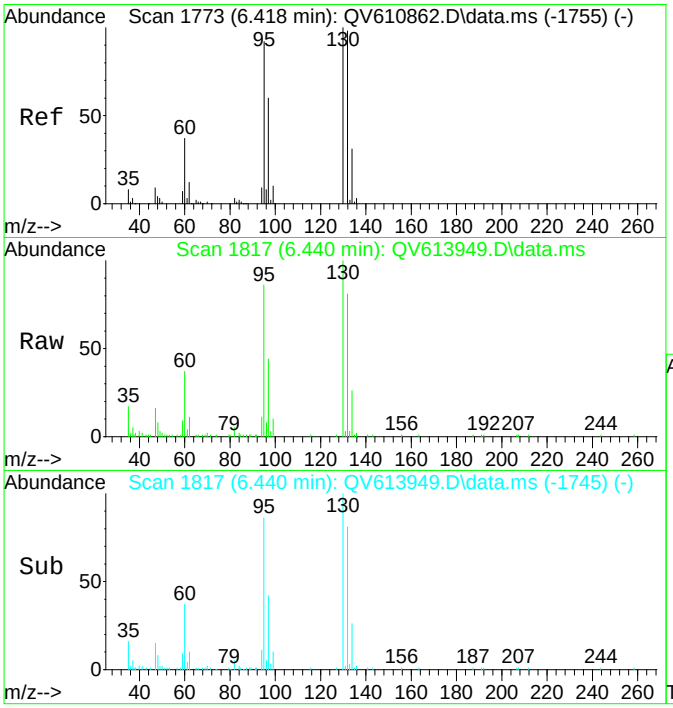


#25
cis-1,2-Dichloroethylene
Concen: 0.81 ppb
RT: 4.990 min Scan# 1296
Delta R.T. -0.000 min
Lab File: QV613949.D
Acq: 4 Apr 2019 7:05 am

Tgt Ion: 61 Resp: 17652

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	74.1	39.2	81.4
98	48.2	24.4	50.8

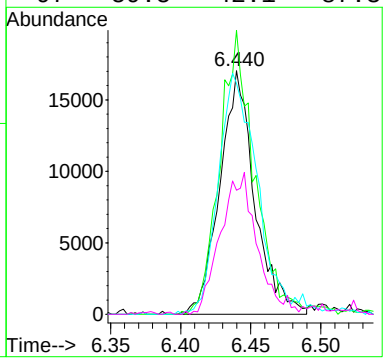




#41
Trichloroethylene
Concen: 1.91 ppb
RT: 6.440 min Scan# 1817
Delta R.T. 0.001 min
Lab File: QV613949.D
Acq: 4 Apr 2019 7:05 am

Tgt Ion: 95 Resp: 29375

Ion	Ratio	Lower	Upper
95	100		
130	116.0	70.0	145.4
132	108.5	69.6	144.6
97	59.5	42.1	87.3



FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YC90007
Instrument: QVOA6
Calibration Date: 03/15/19 16:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	0.5	0.2545025	2	0.2021354	4	0.1916981	10	0.2116297	20	0.2091931	40	0.2027283
1,1,1-Trichloroethane	0.5	1.466735	2	1.103022	4	1.10817	10	1.170338	20	1.236401	40	1.156398
1,1,2,2-Tetrachloroethane	0.5	0.4531248	2	0.3847146	4	0.3609707	10	0.3859475	20	0.3832812	40	0.351027
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.8094756	2	0.61157	4	0.5920948	10	0.6204797	20	0.6435634	40	0.627329
1,1,2-Trichloroethane	0.5	0.1584759	2	0.1322646	4	0.1316308	10	0.1412112	20	0.1398536	40	0.1314361
1,1-Dichloroethane	0.5	1.611709	2	1.267641	4	1.262887	10	1.346862	20	1.327672	40	1.191306
1,1-Dichloroethylene	0.5	1.256585	2	0.9602737	4	0.9028176	10	0.9674152	20	1.004488	40	0.9306821
1,1-Dichloropropylene	0.5	1.198511	2	0.8658661	4	0.8821563	10	0.9327192	20	0.9744232	40	0.9194879
1,2,3-Trichlorobenzene	0.5	0.4837079	2	0.3375858	4	0.3265314	10	0.3417807	20	0.3283016	40	0.3119382
1,2,3-Trichloropropane	0.5	0.1862674	2	0.1289052	4	0.1193304	10	0.1288311	20	0.129337	40	0.1160159
1,2,4,5-Tetramethylbenzene	0.5	1.765345	2	1.337718	4	1.295603	10	1.437093	20	1.387477	40	1.320705
1,2,4-Trichlorobenzene	0.5	0.5504537	2	0.4096147	4	0.4081426	10	0.4375298	20	0.4226513	40	0.3963575
1,2,4-Trimethylbenzene	0.5	2.250689	2	1.739947	4	1.649296	10	1.747672	20	1.765621	40	1.612285
1,2-Dibromo-3-chloropropane	0.5	8.495303E-02	2	5.646372E-02	4	5.732749E-02	10	5.956551E-02	20	5.838614E-02	40	5.453619E-02
1,2-Dibromoethane	0.5	0.1620811	2	0.1333696	4	0.1322615	10	0.1442962	20	0.1427742	40	0.1347147
1,2-Dichlorobenzene	0.5	1.211997	2	0.9150857	4	0.8624945	10	0.9362945	20	0.9308015	40	0.8649
1,2-Dichloroethane	0.5	1.120871	2	0.8226444	4	0.8121307	10	0.9057819	20	0.9649252	40	0.8900206
1,2-Dichloropropane	0.5	0.2257984	2	0.1700507	4	0.1703048	10	0.1787833	20	0.1759851	40	0.1665613
1,3,5-Trimethylbenzene	0.5	2.288446	2	1.773099	4	1.708885	10	1.773331	20	1.779398	40	1.622096
1,3-Dichlorobenzene	0.5	1.296069	2	0.9887134	4	0.9599095	10	1.02283	20	1.047041	40	0.9742219
1,3-Dichloropropane	0.5	0.2636988	2	0.2127441	4	0.2081619	10	0.2267022	20	0.2249825	40	0.2099217
1,4-Dichlorobenzene	0.5	1.282644	2	0.9908693	4	0.9658836	10	1.025481	20	1.033619	40	0.9507175
1,4-Dioxane	20	2.050456E-03	80	1.769808E-03	160	1.728873E-03	400	1.837566E-03	800	1.707131E-03	1600	1.619607E-03
2,2-Dichloropropane	0.5	1.353652	2	1.060659	4	1.03462	10	1.042333	20	1.068463	40	0.9589706
2-Butanone	0.5	5.856077E-02	2	7.085201E-02	4	5.890025E-02	10	6.652476E-02	20	0.0628057	40	0.0648957
2-Chlorotoluene	0.5	1.950186	2	1.597901	4	1.531865	10	1.620714	20	1.629698	40	1.507926
2-Hexanone	0.5	9.483502E-02	2	9.035032E-02	4	8.974087E-02	10	0.1099617	20	0.1015294	40	9.404825E-02
4-Chlorotoluene	0.5	1.78028	2	1.453368	4	1.374021	10	1.466784	20	1.482033	40	1.359925
4-Methyl-2-pentanone	0.5	0.1948181	2	0.1423901	4	0.1338097	10	0.14509	20	0.1426653	40	0.1356868
Acetone	0.5	0.1769357	2	0.3547315	4	0.229546	10	0.2665868	20	0.2097294	40	0.1678466
Acrolein	1	2.726105E-02	4	4.927481E-02	8	3.284041E-02	20	3.885575E-02	40	4.181112E-02	80	4.172742E-02

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

Client: Chazen Environmental Services (Poughkeepsie)

Calibration: YC90007

SDG: 19C1266

Project: 41103.00 KINGSTON CVS

Instrument: QVOA6

Calibration Date: 03/15/19 16:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	0.5	0.1632878	2	0.1689807	4	0.164323	10	0.1706546	20	0.1790501	40	0.1840183
Benzene	0.5	3.769406	2	2.880771	4	2.794268	10	3.005358	20	3.04909	40	2.805511
Bromobenzene	0.5	0.8676117	2	0.7333992	4	0.6930178	10	0.729099	20	0.7389701	40	0.6792751
Bromochloromethane	0.5	0.7754254	2	0.6262354	4	0.594116	10	0.6454626	20	0.6380053	40	0.5848483
Bromodichloromethane	0.5	0.2742547	2	0.2100283	4	0.2076243	10	0.2289258	20	0.2280028	40	0.2141665
Bromoform	0.5	0.1279234	2	0.1051134	4	0.1004508	10	0.1131456	20	0.1123952	40	0.1071589
Bromomethane	0.5	0.1433729	2	9.807817E-02	4	9.014269E-02	10	0.1416408	20	0.2046584	40	0.2246619
Carbon disulfide	0.5	2.803466	2	1.721916	4	1.580572	10	1.590856	20	1.617695	40	1.492612
Carbon tetrachloride	0.5	1.295857	2	0.9976023	4	1.016273	10	1.080443	20	1.153606	40	1.102803
Chlorobenzene	0.5	0.6350494	2	0.501555	4	0.4852204	10	0.5274893	20	0.5237702	40	0.4907653
Chloroethane	0.5	0.6698628	2	0.4587365	4	0.4554037	10	0.471892	20	0.4728364	40	0.442361
Chloroform	0.5	1.623338	2	1.259256	4	1.24271	10	1.323472	20	1.341217	40	1.219936
Chloromethane	0.5	1.020183	2	0.585775	4	0.5972947	10	0.6229776	20	0.6116901	40	0.5964394
cis-1,2-Dichloroethylene	0.5	1.370503	2	1.204484	4	1.154286	10	1.240855	20	1.256756	40	1.128249
cis-1,3-Dichloropropylene	0.5	0.3145382	2	0.2512308	4	0.2553479	10	0.2733081	20	0.2745393	40	0.2538434
Cyclohexane	0.5	1.678765	2	1.213459	4	1.217695	10	1.239562	20	1.282503	40	1.25497
Dibromochloromethane	0.5	0.2337573	2	0.1840496	4	0.1798712	10	0.2001575	20	0.1970094	40	0.1862833
Dibromomethane	0.5	0.1114861	2	8.624093E-02	4	8.681739E-02	10	9.742568E-02	20	9.468302E-02	40	8.995638E-02
Dichlorodifluoromethane	0.5	1.180337	2	0.584748	4	0.5743185	10	0.52908	20	0.5309429	40	0.491096
Ethyl Benzene	0.5	1.073279	2	0.791602	4	0.776636	10	0.8343871	20	0.8314866	40	0.7779617
Hexachlorobutadiene	0.5	0.144525	2	0.108327	4	9.902437E-02	10	9.647896E-02	20	9.276189E-02	40	0.0907223
Isopropylbenzene	0.5	2.856562	2	2.225459	4	2.097073	10	2.163357	20	2.227412	40	2.015868
Methyl acetate	0.5	0.3104905	2	0.3678984	4	0.3709619	10	0.4474003	20	0.4195112	40	0.4112713
Methyl tert-butyl ether (MTBE)	0.5	2.263398	2	1.839997	4	1.835642	10	2.002118	20	2.009955	40	1.829448
Methylcyclohexane	0.5	0.352683	2	0.2634016	4	0.25005	10	0.264907	20	0.2703255	40	0.2727571
Methylene chloride	0.5	1.308948	2	0.9642473	4	0.912535	10	0.9748568	20	0.9706352	40	0.884981
Naphthalene	0.5	2.493634	2	1.30273	4	1.108622	10	1.104138	20	1.059027	40	0.9767548
n-Butylbenzene	0.5	1.973637	2	1.584048	4	1.520263	10	1.498858	20	1.530025	40	1.323393
n-Propylbenzene	0.5	3.281788	2	2.405804	4	2.305379	10	2.384943	20	2.427632	40	2.214553
o-Xylene	0.5	0.8547067	2	0.6374457	4	0.6179929	10	0.662171	20	0.6556088	40	0.6080684
p- & m- Xylenes	1	0.8468547	4	0.6259229	8	0.6031237	20	0.6452588	40	0.6458901	80	0.6003689

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YC90007
Instrument: QVOA6
Calibration Date: 03/15/19 16:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Diethylbenzene	0.5	1.01415	2	0.8039428	4	0.7630881	10	0.8256432	20	0.8210841	40	0.781445
p-Ethyltoluene	0.5	2.557359	2	1.994147	4	1.868002	10	2.019521	20	2.02966	40	1.903549
p-Isopropyltoluene	0.5	2.368826	2	1.858599	4	1.775808	10	1.868293	20	1.899476	40	1.778848
sec-Butylbenzene	0.5	2.641305	2	2.007753	4	1.890009	10	1.95648	20	1.976413	40	1.830414
Styrene	0.5	0.6097214	2	0.4931152	4	0.4846125	10	0.536764	20	0.5397501	40	0.5056423
SURR: 1,2-Dichloroethane-d4	10	1.304036	10	1.255808	10	1.273676	10	1.27236	10	1.294402	10	1.270713
SURR: p-Bromofluorobenzene	10	1.136663	10	1.141921	10	1.122849	10	1.09441	10	1.120689	10	1.086378
SURR: Toluene-d8	10	1.242248	10	1.243478	10	1.245484	10	1.231942	10	1.238429	10	1.232723
tert-Butyl alcohol (TBA)	0.5	0.140518	2	8.171217E-02	4	6.642366E-02	10	7.301175E-02	20	7.390087E-02	40	7.479107E-02
tert-Butylbenzene	0.5	1.979091	2	1.589422	4	1.49381	10	1.538936	20	1.56785	40	1.440728
Tetrachloroethylene	0.5	0.2946027	2	0.2240721	4	0.2206727	10	0.2360076	20	0.2429955	40	0.2316783
Toluene	0.5	1.149752	2	0.7859942	4	0.7320049	10	0.7704521	20	0.7744607	40	0.7184589
trans-1,2-Dichloroethylene	0.5	1.319254	2	0.9787276	4	0.9574422	10	1.012065	20	1.038137	40	0.9607388
trans-1,3-Dichloropropylene	0.5	0.2610102	2	0.2129015	4	0.210544	10	0.2363766	20	0.2338729	40	0.2193324
trans-1,4-dichloro-2-butene	0.5	0.4403294	2	0.3814654	4	0.3801868	10	0.416383	20	0.4129491	40	0.3784225
Trichloroethylene	0.5	0.2174881	2	0.1647576	4	0.1663688	10	0.1796753	20	0.180412	40	0.1712571
Trichlorofluoromethane	0.5	1.266751	2	0.9055688	4	0.9170784	10	0.9245182	20	0.960521	40	0.9281065
Vinyl acetate	1	1.122473	4	1.069944	8	1.056559	20	1.252623	40	1.257085	80	1.203123
Vinyl Chloride	0.5	0.897839	2	0.617783	4	0.6273538	10	0.6573705	20	0.6752691	40	0.648302

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YC90007
Instrument: QVOA6
Calibration Date: 03/15/19 16:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	80	0.2197469	120	0.225423	160	0.2252761						
1,1,1-Trichloroethane	80	1.255884	120	1.304571	160	1.302337						
1,1,2,2-Tetrachloroethane	80	0.3464454	120	0.3426401	160	0.3300809						
1,1,2-Trichloro-1,2,2-trifluoroethan	80	0.7098365	120	0.7166549	160	0.6697907						
1,1,2-Trichloroethane	80	0.1430338	120	0.147378	160	0.1488413						
1,1-Dichloroethane	80	1.229923	120	1.240053	160	1.236125						
1,1-Dichloroethylene	80	1.005758	120	1.020704	160	1.021061						
1,1-Dichloropropylene	80	0.9882555	120	1.016973	160	1.012501						
1,2,3-Trichlorobenzene	80	0.32558	120	0.3384673	160	0.3389304						
1,2,3-Trichloropropane	80	0.1167051	120	0.1163592	160	0.1129486						
1,2,4,5-Tetramethylbenzene	80	1.421285	120	1.453827	160	1.401288						
1,2,4-Trichlorobenzene	80	0.4182407	120	0.4331273	160	0.4310047						
1,2,4-Trimethylbenzene	80	1.664669	120	1.643961	160	1.565065						
1,2-Dibromo-3-chloropropane	80	5.679057E-02	120	5.626335E-02	160	5.496915E-02						
1,2-Dibromoethane	80	0.1439529	120	0.1473273	160	0.1462097						
1,2-Dichlorobenzene	80	0.8981409	120	0.9194217	160	0.9034411						
1,2-Dichloroethane	80	0.9447361	120	0.9359767	160	0.9055565						
1,2-Dichloropropane	80	0.1789723	120	0.1853887	160	0.1871142						
1,3,5-Trimethylbenzene	80	1.648417	120	1.645678	160	1.552169						
1,3-Dichlorobenzene	80	1.03169	120	1.050599	160	1.040719						
1,3-Dichloropropane	80	0.2235472	120	0.2275246	160	0.2232111						
1,4-Dichlorobenzene	80	0.9897693	120	1.014975	160	1.00314						
1,4-Dioxane	3200	1.723115E-03	4800	1.780348E-03	6400	1.759445E-03						
2,2-Dichloropropane	80	0.9937535	120	0.9795447	160	0.6320535						
2-Butanone	80	6.910233E-02	120	7.145162E-02	160	6.826808E-02						
2-Chlorotoluene	80	1.512234	120	1.488313	160	1.423126						
2-Hexanone	80	0.100938	120	0.1024072	160	0.1020537						
4-Chlorotoluene	80	1.368643	120	1.355603	160	1.302997						
4-Methyl-2-pentanone	80	0.147587	120	0.1507537	160	0.1509267						
Acetone	80	0.1780743	120	0.1822896	160	0.2158285						
Acrolein	160	4.329359E-02	240	4.551235E-02	320	4.603004E-02						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YC90007 Instrument: QVOA6

Calibration Date: 03/15/19 16:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	80	0.1913614	120	0.2036854	160	0.2086857						
Benzene	80	2.934942	120	2.968783	160	2.898142						
Bromobenzene	80	0.6721476	120	0.660914	160	0.6370118						
Bromochloromethane	80	0.6185791	120	0.6279387	160	0.6293746						
Bromodichloromethane	80	0.2344154	120	0.2447475	160	0.2464865						
Bromoform	80	0.11416	120	0.1178333	160	0.1181863						
Bromomethane	80	0.3110473	120	0.3746266	160	0.4059866						
Carbon disulfide	80	1.571536	120	1.604994	160	1.61803						
Carbon tetrachloride	80	1.220826	120	1.300641	160	1.294893						
Chlorobenzene	80	0.5241209	120	0.5306006	160	0.5236316						
Chloroethane	80	0.4660264	120	0.4682678	160	0.4658279						
Chloroform	80	1.236172	120	1.237835	160	1.228061						
Chloromethane	80	0.586782	120	0.5529632	160	0.6938327						
cis-1,2-Dichloroethylene	80	1.167348	120	1.177858	160	1.119026						
cis-1,3-Dichloropropylene	80	0.2730286	120	0.2787149	160	0.2761387						
Cyclohexane	80	1.391845	120	1.469227	160	1.446391						
Dibromochloromethane	80	0.2044957	120	0.2123288	160	0.2123935						
Dibromomethane	80	9.516427E-02	120	9.576835E-02	160	9.527962E-02						
Dichlorodifluoromethane	80	0.5371368	120	0.5484051	160	0.5366941						
Ethyl Benzene	80	0.8167941	120	0.8042958	160	0.7616739						
Hexachlorobutadiene	80	0.1045257	120	0.1172152	160	0.1125502						
Isopropylbenzene	80	2.007358	120	1.957201	160	1.799505						
Methyl acetate	80	0.4415958	120	0.4538203	160	0.4542218						
Methyl tert-butyl ether (MTBE)	80	1.922479	120	1.952081	160	1.907893						
Methylcyclohexane	80	0.3095423	120	0.330069	160	0.3239796						
Methylene chloride	80	0.9279037	120	0.9443845	160	0.9449502						
Naphthalene	80	1.010447	120	1.021044	160	1.004977						
n-Butylbenzene	80	1.435778	120	1.409005	160	1.363043						
n-Propylbenzene	80	2.189864	120	2.116638	160	1.894095						
o-Xylene	80	0.63859	120	0.6467486	160	0.6360857						
p- & m- Xylenes	160	0.6165527	240	0.5640371	320	0.4785764						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YC90007 Instrument: QVOA6

Calibration Date: 03/15/19 16:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Diethylbenzene	80	0.833755	120	0.8620726	160	0.8454797						
p-Ethyltoluene	80	1.938064	120	1.900291	160	1.79525						
p-Isopropyltoluene	80	1.878068	120	1.887306	160	1.726405						
sec-Butylbenzene	80	1.879766	120	1.882296	160	1.752766						
Styrene	80	0.5470829	120	0.5620261	160	0.5570974						
SURR: 1,2-Dichloroethane-d4	10	1.257378	10	1.243352	10	1.207385						
SURR: p-Bromofluorobenzene	10	1.023931	10	1.008662	10	0.9675996						
SURR: Toluene-d8	10	1.255521	10	1.273815	10	1.280025						
tert-Butyl alcohol (TBA)	80	8.710822E-02	120	8.173784E-02	160	8.407759E-02						
tert-Butylbenzene	80	1.475142	120	1.492611	160	1.436865						
Tetrachloroethylene	80	0.2613331	120	0.2789827	160	0.2843108						
Toluene	80	0.7756058	120	0.786544	160	0.7622322						
trans-1,2-Dichloroethylene	80	0.9870161	120	1.00135	160	0.9949314						
trans-1,3-Dichloropropylene	80	0.2370495	120	0.2415931	160	0.238874						
trans-1,4-dichloro-2-butene	80	0.3707567	120	0.3663991	160	0.3532206						
Trichloroethylene	80	0.1904671	120	0.2008042	160	0.2077371						
Trichlorofluoromethane	80	1.030381	120	1.065506	160	1.058601						
Vinyl acetate	160	1.266901	240	1.298219	320	1.27907						
Vinyl Chloride	80	0.6993838	120	0.6978489	160	0.6843578						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YC90007 Instrument: QVOA6

Calibration Date: 03/15/19 16:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.2158148	8.50521	9.242556	2.113267E-02			20	
1,1,1-Trichloroethane	1.233762	9.3897	5.445444	8.624155E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.3709147	9.946078	10.56878	2.202288E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	0.6667549	10.27906	3.166889	0.2533374			SPCC (0.1)	
1,1,2-Trichloroethane	0.1415695	6.443565	8.129778	3.419851E-02			SPCC (0.1)	
1,1-Dichloroethane	1.301575	9.677421	4.407333	0.1156462			SPCC (0.2)	
1,1-Dichloroethylene	1.007754	10.11407	3.178333	0.2128502			SPCC (0.1)	
1,1-Dichloropropylene	0.9767659	10.15258	5.604111	8.909726E-02			20	
1,2,3-Trichlorobenzene	0.3480915	14.85441	14.51067	1.401482E-02			20	
1,2,3-Trichloropropane	0.1283	17.65782	10.61767	2.711296E-02			20	
1,2,4,5-Tetramethylbenzene	1.424482	9.741031	12.92633	1.532651E-02			20	
1,2,4-Trichlorobenzene	0.4341247	10.50578	13.94533	2.181739E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	1.737689	11.71469	11.25789	2.359928E-02			20	
1,2-Dibromo-3-chloropropane	5.991724E-02	15.88218	13.02378	2.436074E-02		0.9998079	SPCC (0.05)	
1,2-Dibromoethane	0.1429986	6.411451	8.663	1.204245E-02			SPCC (0.1)	
1,2-Dichlorobenzene	0.9380641	11.29603	12.124	2.098678E-02			SPCC (0.4)	
1,2-Dichloroethane	0.9225159	9.816044	5.851556	8.722948E-02			SPCC (0.1)	
1,2-Dichloropropane	0.1821065	9.76432	6.662222	4.831782E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	1.754613	12.25778	10.83656	2.601622E-02			20	
1,3-Dichlorobenzene	1.045755	9.512803	11.599	2.096372E-02			SPCC (0.6)	
1,3-Dichloropropane	0.2244993	7.337877	8.301444	2.877767E-02			20	
1,4-Dichlorobenzene	1.028567	9.620721	11.69878	1.644908E-02			SPCC (0.5)	
1,4-Dioxane	1.77515E-03	6.714671	6.808889	0.1274091			20	
2,2-Dichloropropane	1.013783	18.19651	4.959111	0.1046562		0.9775353	0.99	*
2-Butanone	0.0657068	7.312784	5.013889	0.4118827			SPCC (0.1)	*
2-Chlorotoluene	1.584663	9.6328	10.76133	1.881391E-02			20	
2-Hexanone	9.842939E-02	6.726948	8.362222	8.111536E-02			SPCC (0.1)	
4-Chlorotoluene	1.438184	9.838658	10.88122	2.923178E-02			20	
4-Methyl-2-pentanone	0.149303	12.10788	7.511222	6.201094E-02			SPCC (0.1)	
Acetone	0.2201743	27.00925	3.286889	0.56829		0.9967036	SPCC (0.1)	
Acrolein	4.073406E-02	16.91693	3.117778	0.6178303		0.9998559	0.99	
Acrylonitrile	0.1815608	9.220219	4.000667	0.5842998			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YC90007 Instrument: QVOA6

Calibration Date: 03/15/19 16:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	3.011808	9.843346	5.809	6.995547E-02			SPCC (0.5)	
Bromobenzene	0.7123829	9.539221	10.55922	1.730118E-02			20	
Bromochloromethane	0.6377761	8.656274	5.222111	0.116388			20	
Bromodichloromethane	0.2320724	9.120438	6.942444	5.286034E-02			SPCC (0.2)	
Bromoform	0.1129297	7.19698	10.06544	1.579436E-02			SPCC (0.1)	
Bromomethane	0.2215795	53.10379	2.203556	0.3823772		0.9988413	SPCC (0.1)	
Carbon disulfide	1.73352	23.39857	3.405444	0.2115085		0.9998751	SPCC (0.1)	
Carbon tetrachloride	1.162549	10.3912	5.598444	0.0840652			SPCC (0.1)	
Chlorobenzene	0.5269114	8.333231	9.154333	1.165636E-02			SPCC (0.5)	
Chloroethane	0.4856905	14.35372	2.326111	0.2893153			SPCC (0.1)	
Chloroform	1.301333	9.842649	5.294556	0.1023904			SPCC (0.2)	
Chloromethane	0.6519931	21.98035	1.776556	0.2352197		0.9924299	SPCC (0.1)	
cis-1,2-Dichloroethylene	1.202152	6.529515	4.981555	0.1213326			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.2722989	7.014319	7.372333	4.292753E-02			SPCC (0.2)	
Cyclohexane	1.354935	11.52434	5.477667	8.595854E-02			SPCC (0.1)	
Dibromochloromethane	0.2011496	8.448088	8.541778	1.021234E-02			SPCC (0.1)	
Dibromomethane	9.475797E-02	7.888989	6.798556	0.0880318			20	
Dichlorodifluoromethane	0.6125287	35.04104	1.558	1.409867		0.9993889	SPCC (0.1)	
Ethyl Benzene	0.8297907	11.41209	9.247	1.564498E-02			SPCC (0.1)	
Hexachlorobutadiene	0.1073478	15.42014	14.112	0.0176598		0.9972606	0.99	
Isopropylbenzene	2.149977	13.87836	10.19267	2.038729E-02			SPCC (0.1)	
Methyl acetate	0.4085746	12.09775	3.615222	0.4507627			SPCC (0.1)	
Methyl tert-butyl ether (MTBE)	1.951446	6.940591	3.961778	0.24938			SPCC (0.1)	
Methylcyclohexane	0.2930795	12.42201	6.584333	5.366344E-02			SPCC (0.1)	
Methylene chloride	0.9814935	12.85435	3.714667	0.2158745			SPCC (0.1)	
Naphthalene	1.231264	39.25082	14.232	7.572971E-03		0.999799	0.99	
n-Butylbenzene	1.515339	12.62808	12.06722	9.515861E-03			20	
n-Propylbenzene	2.357855	16.332	10.64489	2.221674E-02		0.9991935	0.99	
o-Xylene	0.6619353	11.21362	9.803555	1.943954E-02			SPCC (0.3)	
p- & m- Xylenes	0.6251761	15.62939	9.368778	2.692289E-02			SPCC (0.1)	
p-Diethylbenzene	0.8389623	8.645015	12.03856	2.487867E-02			20	
p-Ethyltoluene	2.000649	11.09774	10.76933	0.0172829			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YC90007
Instrument: QVOA6
Calibration Date: 03/15/19 16:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
p-Isopropyltoluene	1.893514	9.933287	11.60167	1.641643E-02			20	
sec-Butylbenzene	1.979689	13.12806	11.44144	2.137533E-02			20	
Styrene	0.5373124	7.232244	9.826889	1.873385E-02			SPCC (0.3)	
SURR: 1,2-Dichloroethane-d4	1.264346	2.250515	5.777222	7.297197E-02			20	
SURR: p-Bromofluorobenzene	1.078123	5.831321	10.39078	2.089994E-02			20	
SURR: Toluene-d8	1.249296	1.379533	7.620667	1.828879E-02			20	
tert-Butyl alcohol (TBA)	8.480902E-02	25.78231	3.861667	0.3528081		0.9986532	0.99	
tert-Butylbenzene	1.557162	10.70864	11.19733	2.517155E-02			20	
Tetrachloroethylene	0.2527395	10.99741	8.244222	3.004634E-02			SPCC (0.2)	
Toluene	0.8061672	16.24337	7.688667	2.992404E-02			SPCC (0.4)	
trans-1,2-Dichloroethylene	1.02774	10.91108	3.977333	0.1721732			SPCC (0.1)	
trans-1,3-Dichloropropylene	0.2323949	6.8261	7.937111	4.344808E-02			SPCC (0.1)	
trans-1,4-dichloro-2-butene	0.3889014	7.231895	10.61956	1.803995E-02			20	
Trichloroethylene	0.1865519	10.07419	6.430889	7.868384E-02			SPCC (0.2)	*
Trichlorofluoromethane	1.006337	11.52765	2.606111	0.3136262			SPCC (0.1)	
Vinyl acetate	1.200666	7.785705	4.446556	0.1201656			20	
Vinyl Chloride	0.6895009	12.08397	1.856333	1.439972			SPCC (0.1)	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613527.D
Acq On : 15 Mar 2019 5:25 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL1
Misc : QBQV6031519A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 19 10:33:07 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.078	70	287223	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	1309221	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.099	152	476734	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.781	65	374549	11.10	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 111.00%				
51) Toluene-d8 (SURR)	7.622	98	1626377	9.32	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 93.20%				
70) p-Bromofluorobenzene (...	10.388	95	541886	9.62	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 96.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.501	85	16951m	0.93	ppb		
3) Chloromethane	1.780	50	14651m	0.68	ppb		
4) Vinyl Chloride	1.880	62	12894m	0.54	ppb		
5) Bromomethane	2.217	94	2059m	1.41	ppb		
6) Chloroethane	2.336	64	9620m	0.64	ppb		
7) Trichlorofluoromethane	2.617	101	18192m	0.63	ppb		
8) Ethanol	3.057	45	4060m	29.05	ppb		
9) Freon-113	3.182	101	11625m	0.54	ppb		
10) 1,1-Dichloroethylene	3.185	61	18046	0.61	ppb	#	74
11) Acrolein	3.140	56	783m	3.26	ppb		
12) Acetone	3.310	43	2541m	0.61	ppb		
13) Iodomethane	3.360	142	8574m	3.61	ppb		
14) Methyl Acetate	3.641	43	4459m	0.49	ppb		
15) Carbon disulfide	3.413	76	40261	0.78	ppb		100
16) tert-Butyl Alcohol (TBA)	3.880	59	2018m	0.98	ppb		
17) Methylene Chloride	3.724	49	18798	0.71	ppb	#	82
18) Acrylonitrile	4.042	53	2345m	1.94	ppb		
19) trans-1,2-Dichloroethy...	3.986	61	18946	0.65	ppb	#	88
20) tert-Butyl Methyl Ethe...	3.978	73	32505	0.56	ppb	#	99
21) 1,1-Dichloroethane	4.412	63	23146	0.59	ppb		98
22) Vinyl Acetate	4.448	43	32240	0.62	ppb	#	100
23) Diisopropyl ether (DIPE)	4.448	45	47120	0.71	ppb	#	98
24) Ethyl-tert-Butyl ether...	4.804	59	41638	0.56	ppb	#	85
25) cis-1,2-Dichloroethylene	4.988	61	19682	0.56	ppb		91
26) 2-Butanone	5.057	72	841m	0.41	ppb		
27) 2,2-Dichloropropane	4.968	77	19440	0.65	ppb	#	85
28) Tetrahydrofuran	5.305	42	3922m	1.09	ppb		
29) Bromochloromethane	5.232	49	11136	0.66	ppb	#	82
30) Chloroform	5.299	83	23313	0.58	ppb	#	96
31) 1,1,1-Trichloroethane	5.452	97	21064	0.60	ppb	#	80
32) Cyclohexane	5.483	56	24109	0.60	ppb		89
33) 1,1-Dichloropropylene	5.611	75	17212	0.56	ppb		89
35) Carbon Tetrachloride	5.603	117	18610	0.61	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.845	59	8926	4.92	ppb	#	68
37) 1,2-Dichloroethane	5.856	62	16097m	0.63	ppb		
38) Benzene	5.814	78	54133	0.54	ppb	#	1
39) tert-Amyl methyl ether...	5.895	73	34834	0.53	ppb	#	99
41) Trichloroethylene	6.440	95	14237	0.55	ppb		87
42) Methyl Cyclohexane	6.582	83	23087m	0.54	ppb		
43) Methyl Methacrylate	6.760	69	7158m	0.60	ppb		
44) Dibromomethane	6.810	93	7298	0.58	ppb	#	73
45) Bromodichloromethane	6.944	83	17953	0.64	ppb		94
46) 1,2-Dichloropropane	6.668	63	14781	0.65	ppb	#	99
47) 1,4-Dioxane	6.824	88	5369m	30.08	ppb		
49) cis-1,3-Dichloropropene	7.375	75	20590	0.60	ppb	#	81
50) 4-Methyl-2-Pentanone	7.519	43	12753m	1.04	ppb		
52) Toluene	7.692	91	75264	0.68	ppb		100
53) trans-1,3-Dichloropropene	7.942	75	17086m	0.61	ppb		

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613527.D
Acq On : 15 Mar 2019 5:25 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL1
Misc : QBQV6031519A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 19 10:33:07 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

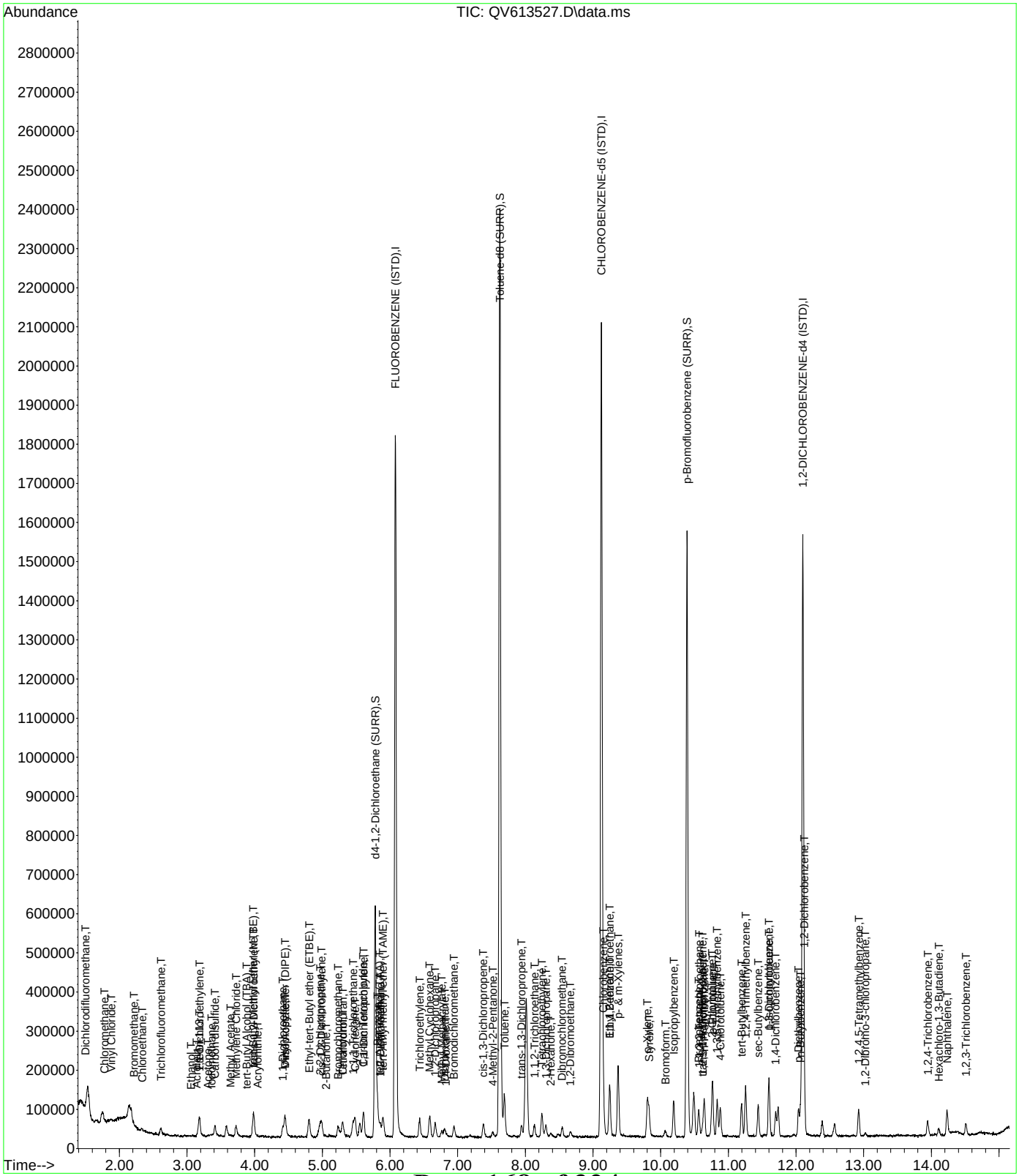
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.137	97	10374	0.53 ppb	#	79
55) 1,3-Dichloropropane	8.307	76	17262	0.59 ppb		96
56) Tetrachloroethylene	8.246	166	19285	0.67 ppb	#	77
57) 2-Hexanone	8.376	43	6208m	0.77 ppb		
58) Dibromochloromethane	8.541	129	15302	0.69 ppb	#	93
59) 1,2-Dibromoethane	8.663	107	10610	0.58 ppb		93
60) Chlorobenzene	9.153	112	41571	0.57 ppb	#	54
61) 1,1,1,2-tetrachloroethane	9.244	131	16660	0.69 ppb	#	50
62) Ethyl Benzene	9.247	91	70258	0.64 ppb		99
63) p- & m-Xylenes	9.370	91	110872	1.32 ppb		98
64) o-Xylene	9.801	91	55950	0.66 ppb		99
65) Styrene	9.829	104	39913	0.56 ppb		94
66) Bromoform	10.071	173	8374	0.81 ppb		98
68) p-Ethyltoluene	10.766	105	60959	0.54 ppb	#	57
69) Isopropylbenzene	10.193	105	68091	0.56 ppb		97
71) 1,1,2,2-Tetrachloroethane	10.569	83	10801	0.53 ppb	#	95
72) Bromobenzene	10.560	77	20681	0.57 ppb		85
73) trans-1,4-Dichloro-2-b...	10.619	75	10496	0.50 ppb	#	26
74) 1,2,3-Trichloropropane	10.622	110	4440m	0.69 ppb		
75) n-Propylbenzene	10.644	91	78227	0.58 ppb		97
76) 2-Chlorotoluene	10.761	91	46486	0.54 ppb		98
77) 4-Chlorotoluene	10.880	91	42436	0.55 ppb		98
78) 1,3,5-Trimethylbenzene	10.833	105	54549	0.56 ppb	#	90
79) tert-Butylbenzene	11.195	119	47175	0.55 ppb		98
80) 1,2,4-Trimethylbenzene	11.253	105	53649	0.55 ppb		97
81) sec-Butylbenzene	11.440	105	62960	0.55 ppb	#	90
82) 1,3-Dichlorobenzene	11.598	146	30894	0.59 ppb		96
83) p-Isopropyltoluene	11.598	119	56465	0.54 ppb		95
84) 1,4-Dichlorobenzene	11.698	146	30574	0.58 ppb		95
86) p-Diethylbenzene	12.035	105	24174	0.50 ppb	#	95
87) 1,2-Dichlorobenzene	12.121	146	28890	0.61 ppb	#	66
88) n-Butylbenzene	12.066	91	47045m	0.50 ppb		
89) 1,2-Dibromo-3-chloropr...	13.020	75	2025m	0.79 ppb		
90) 1,2,4,5-Tetramethylben...	12.928	119	42080	0.57 ppb	#	93
91) 1,2,4-Trichlorobenzene	13.949	180	13121	0.78 ppb		92
92) Hexachloro-1,3-Butadiene	14.111	225	3445	0.88 ppb	#	92
93) Naphthalene	14.233	128	59440	1.36 ppb		99
94) 1,2,3-Trichlorobenzene	14.511	180	11530	1.07 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613527.D
Acq On : 15 Mar 2019 5:25 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL1
Misc : QBQV6031519A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 19 10:33:07 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613528.D
Acq On : 15 Mar 2019 5:52 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL2
Misc : QBQV6031519A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 19 10:27:21 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.081	70	296957	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	1334749	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	484736	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.781	65	372921	10.69	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 106.90%				
51) Toluene-d8 (SURR)	7.622	98	1659731	9.33	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 93.30%				
70) p-Bromofluorobenzene (...	10.391	95	553530	9.66	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 96.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.571	85	34729m	1.84	ppb		
3) Chloromethane	1.771	50	34790m	1.55	ppb		
4) Vinyl Chloride	1.833	62	36691m	1.49	ppb		
5) Bromomethane	2.208	94	5825m	1.94	ppb		
6) Chloroethane	2.333	64	27245m	1.75	ppb		
7) Trichlorofluoromethane	2.617	101	53783m	1.81	ppb		
8) Ethanol	3.057	45	6122m	42.37	ppb		
9) Freon-113	3.174	101	36322	1.63	ppb		96
10) 1,1-Dichloroethylene	3.188	61	57032	1.86	ppb		90
11) Acrolein	3.140	56	5853m	4.88	ppb		
12) Acetone	3.315	43	21068m	4.88	ppb		
13) Iodomethane	3.357	142	19273m	4.32	ppb		
14) Methyl Acetate	3.638	43	21850m	2.34	ppb		
15) Carbon disulfide	3.416	76	102267	1.93	ppb		100
16) tert-Butyl Alcohol (TBA)	3.880	59	4853m	2.28	ppb		
17) Methylene Chloride	3.722	49	57268	2.11	ppb		85
18) Acrylonitrile	4.028	53	10036m	3.07	ppb		
19) trans-1,2-Dichloroethy...	3.986	61	58128	1.92	ppb		97
20) tert-Butyl Methyl Ethe...	3.969	73	109280	1.81	ppb	#	88
21) 1,1-Dichloroethane	4.414	63	75287	1.84	ppb		98
22) Vinyl Acetate	4.448	43	127091m	2.36	ppb		
23) Diisopropyl ether (DIPE)	4.445	45	156642	2.30	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.801	59	145433	1.89	ppb	#	85
25) cis-1,2-Dichloroethylene	4.990	61	71536	1.95	ppb	#	84
26) 2-Butanone	5.029	72	4208m	1.98	ppb		
27) 2,2-Dichloropropane	4.960	77	62994	2.05	ppb		92
28) Tetrahydrofuran	5.296	42	7773m	2.09	ppb		
29) Bromochloromethane	5.230	49	37193	2.15	ppb	#	65
30) Chloroform	5.302	83	74789	1.81	ppb	#	97
31) 1,1,1-Trichloroethane	5.449	97	65510	1.81	ppb		96
32) Cyclohexane	5.486	56	72069	1.72	ppb		89
33) 1,1-Dichloropropylene	5.611	75	51425	1.61	ppb		87
35) Carbon Tetrachloride	5.602	117	59249	1.87	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.839	59	33699	17.96	ppb	#	77
37) 1,2-Dichloroethane	5.861	62	48858	1.86	ppb		99
38) Benzene	5.814	78	171093	1.66	ppb	#	43
39) tert-Amyl methyl ether...	5.897	73	120958	1.77	ppb	#	90
41) Trichloroethylene	6.434	95	43982	1.67	ppb		89
42) Methyl Cyclohexane	6.590	83	70315	1.62	ppb		86
43) Methyl Methacrylate	6.760	69	23074	1.90	ppb	#	76
44) Dibromomethane	6.802	93	23022	1.81	ppb		96
45) Bromodichloromethane	6.946	83	56067	1.95	ppb		93
46) 1,2-Dichloropropane	6.663	63	45395	1.96	ppb	#	99
47) 1,4-Dioxane	6.818	88	18898m	103.85	ppb		
49) cis-1,3-Dichloropropene	7.375	75	67066	1.92	ppb		88
50) 4-Methyl-2-Pentanone	7.514	43	38011m	3.05	ppb		
52) Toluene	7.689	91	209821	1.87	ppb		100
53) trans-1,3-Dichloropropene	7.942	75	56834	1.98	ppb		98

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613528.D
Acq On : 15 Mar 2019 5:52 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL2
Misc : QBQV6031519A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 19 10:27:21 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

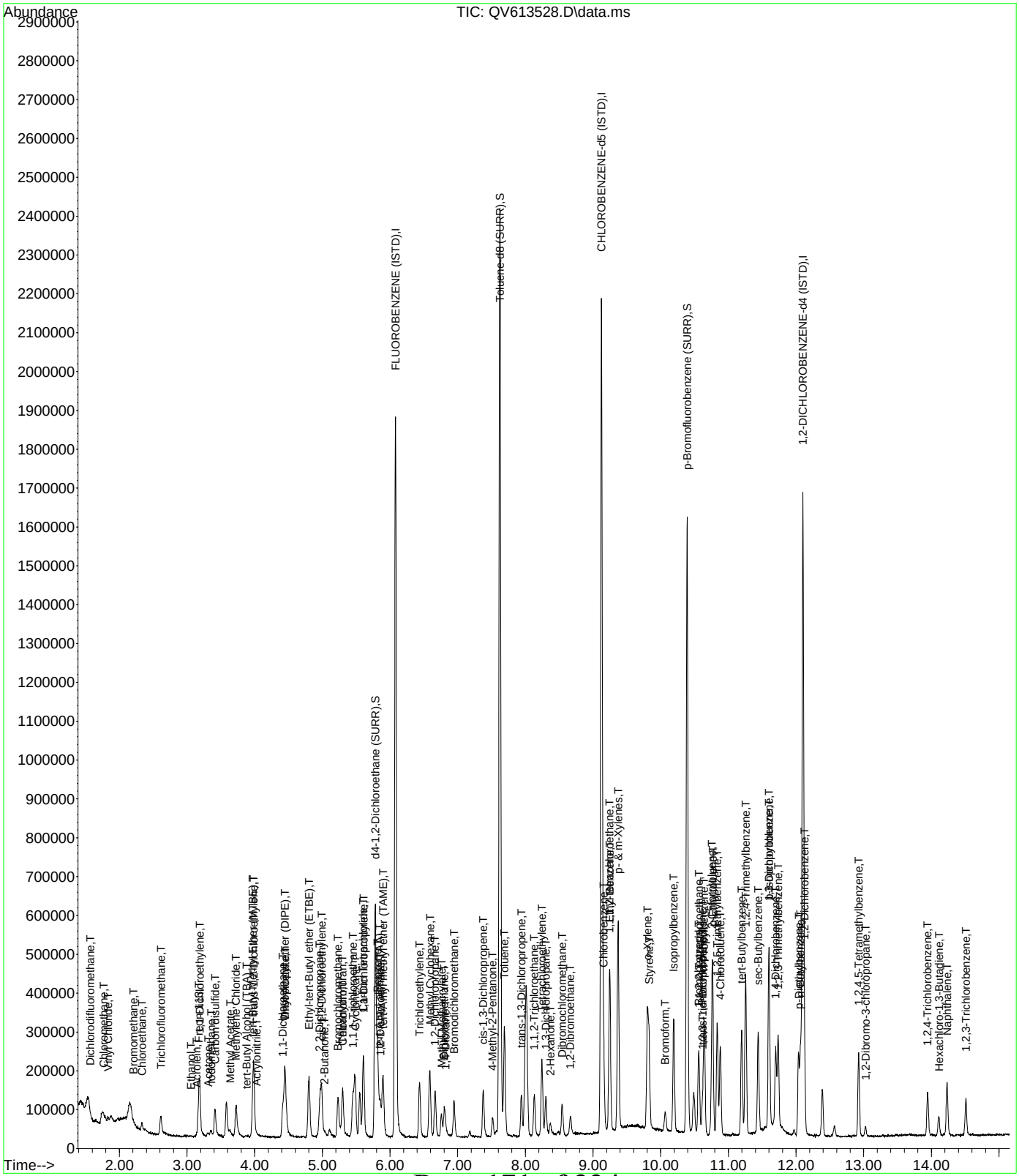
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.129	97	35308	1.78	ppb		92
55) 1,3-Dichloropropane	8.301	76	56792	1.90	ppb		92
56) Tetrachloroethylene	8.246	166	59816	2.03	ppb	#	77
57) 2-Hexanone	8.368	43	24119	2.95	ppb	#	92
58) Dibromochloromethane	8.543	129	49132	2.17	ppb		97
59) 1,2-Dibromoethane	8.663	107	35603	1.90	ppb		99
60) Chlorobenzene	9.155	112	133890	1.82	ppb		99
61) 1,1,1,2-tetrachloroethane	9.242	131	53960	2.20	ppb	#	73
62) Ethyl Benzene	9.247	91	211318	1.89	ppb		97
63) p- & m-Xylenes	9.372	91	334180	3.92	ppb		98
64) o-Xylene	9.804	91	170166	1.96	ppb		99
65) Styrene	9.829	104	131637	1.81	ppb		97
66) Bromoform	10.065	173	28060	2.66	ppb		98
68) p-Ethyltoluene	10.769	105	193327m	1.70	ppb		
69) Isopropylbenzene	10.190	105	215752	1.75	ppb		97
71) 1,1,2,2-Tetrachloroethane	10.566	83	37297	1.81	ppb	#	99
72) Bromobenzene	10.560	77	71101	1.93	ppb		89
73) trans-1,4-Dichloro-2-b...	10.619	75	36982	1.75	ppb	#	80
74) 1,2,3-Trichloropropane	10.616	110	12497	1.92	ppb	#	17
75) n-Propylbenzene	10.641	91	233236	1.71	ppb		95
76) 2-Chlorotoluene	10.758	91	154912	1.77	ppb		98
77) 4-Chlorotoluene	10.880	91	140900	1.79	ppb		99
78) 1,3,5-Trimethylbenzene	10.836	105	171897	1.73	ppb	#	94
79) tert-Butylbenzene	11.195	119	154090	1.75	ppb		98
80) 1,2,4-Trimethylbenzene	11.256	105	168683	1.70	ppb		97
81) sec-Butylbenzene	11.440	105	194646	1.66	ppb		96
82) 1,3-Dichlorobenzene	11.601	146	95853	1.81	ppb		97
83) p-Isopropyltoluene	11.598	119	180186	1.69	ppb		98
84) 1,4-Dichlorobenzene	11.698	146	96062	1.79	ppb		98
85) 1,2,3-Trimethylbenzene	11.737	105	145101	1.16	ppb		96
86) p-Diethylbenzene	12.041	105	77940	1.58	ppb	#	98
87) 1,2-Dichlorobenzene	12.124	146	88715	1.86	ppb		97
88) n-Butylbenzene	12.066	91	153569m	1.61	ppb		
89) 1,2-Dibromo-3-chloropr...	13.028	75	5474	2.10	ppb		85
90) 1,2,4,5-Tetramethylben...	12.925	119	129688	1.72	ppb		97
91) 1,2,4-Trichlorobenzene	13.941	180	39711	2.33	ppb	#	92
92) Hexachloro-1,3-Butadiene	14.113	225	10502	2.64	ppb		93
93) Naphthalene	14.233	128	126296	2.85	ppb		99
94) 1,2,3-Trichlorobenzene	14.511	180	32728	2.99	ppb	#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613528.D
Acq On : 15 Mar 2019 5:52 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL2
Misc : QBQV6031519A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 19 10:27:21 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613529.D
Acq On : 15 Mar 2019 6:20 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL3
Misc : QBQV6031519A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 19 10:17:35 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.081	70	289430	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	1316067	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	490864	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.781	65	368640	10.84	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.40%				
51) Toluene-d8 (SURR)	7.622	98	1639141	9.34	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 93.40%				
70) p-Bromofluorobenzene (...	10.391	95	551166	9.50	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 95.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.560	85	66490m	3.62	ppb		
3) Chloromethane	1.777	50	69150m	3.16	ppb		
4) Vinyl Chloride	1.833	62	72630m	3.03	ppb		
5) Bromomethane	2.214	94	10436m	2.64	ppb		
6) Chloroethane	2.331	64	52723m	3.48	ppb		
7) Trichlorofluoromethane	2.614	101	106172m	3.66	ppb		
8) Ethanol	2.954	45	8442m	59.95	ppb		
9) Freon-113	3.171	101	68548	3.15	ppb		96
10) 1,1-Dichloroethylene	3.185	61	104521	3.51	ppb		86
11) Acrolein	3.146	56	7604m	5.50	ppb		
12) Acetone	3.304	43	26575m	6.32	ppb		
13) Iodomethane	3.355	142	45316m	6.14	ppb		
14) Methyl Acetate	3.627	43	42947m	4.72	ppb		
15) Carbon disulfide	3.413	76	182986	3.54	ppb		100
16) tert-Butyl Alcohol (TBA)	3.872	59	7690m	3.71	ppb		
17) Methylene Chloride	3.725	49	105646	3.99	ppb	#	80
18) Acrylonitrile	4.019	53	19024m	4.48	ppb		
19) trans-1,2-Dichloroethy...	3.983	61	110845	3.76	ppb		96
20) tert-Butyl Methyl Ethe...	3.972	73	212516	3.61	ppb	#	88
21) 1,1-Dichloroethane	4.412	63	146207	3.67	ppb		99
22) Vinyl Acetate	4.454	43	244640m	4.65	ppb		
23) Diisopropyl ether (DIPE)	4.445	45	302011	4.54	ppb	#	98
24) Ethyl-tert-Butyl ether...	4.801	59	270105	3.61	ppb	#	97
25) cis-1,2-Dichloroethylene	4.988	61	133634	3.74	ppb		95
26) 2-Butanone	5.027	72	6819m	3.29	ppb		
27) 2,2-Dichloropropane	4.965	77	119780	3.99	ppb	#	65
28) Tetrahydrofuran	5.288	42	20658m	5.70	ppb		
29) Bromochloromethane	5.227	49	68782	4.07	ppb	#	77
30) Chloroform	5.302	83	143871	3.56	ppb	#	96
31) 1,1,1-Trichloroethane	5.450	97	128295	3.63	ppb		96
32) Cyclohexane	5.480	56	140975	3.45	ppb		89
33) 1,1-Dichloropropylene	5.608	75	102129	3.29	ppb		85
35) Carbon Tetrachloride	5.605	117	117656	3.80	ppb	#	55
36) tert-Amyl alcohol (TAA)	5.836	59	63396	34.66	ppb		97
37) 1,2-Dichloroethane	5.856	62	94022	3.67	ppb		99
38) Benzene	5.814	78	323498	3.23	ppb	#	68
39) tert-Amyl methyl ether...	5.892	73	229607	3.45	ppb	#	100
41) Trichloroethylene	6.437	95	87581	3.37	ppb		92
42) Methyl Cyclohexane	6.590	83	131633	3.08	ppb		85
43) Methyl Methacrylate	6.754	69	45886	3.83	ppb		83
44) Dibromomethane	6.805	93	45703	3.64	ppb		96
45) Bromodichloromethane	6.949	83	109299	3.85	ppb		94
46) 1,2-Dichloropropane	6.665	63	89653	3.93	ppb	#	100
47) 1,4-Dioxane	6.818	88	36405m	202.89	ppb		
49) cis-1,3-Dichloropropene	7.378	75	134422	3.90	ppb		89
50) 4-Methyl-2-Pentanone	7.517	43	70441m	5.74	ppb		
52) Toluene	7.692	91	385347	3.47	ppb		99
53) trans-1,3-Dichloropropene	7.940	75	110836	3.91	ppb	#	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613529.D
Acq On : 15 Mar 2019 6:20 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL3
Misc : QBQV6031519A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 19 10:17:35 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

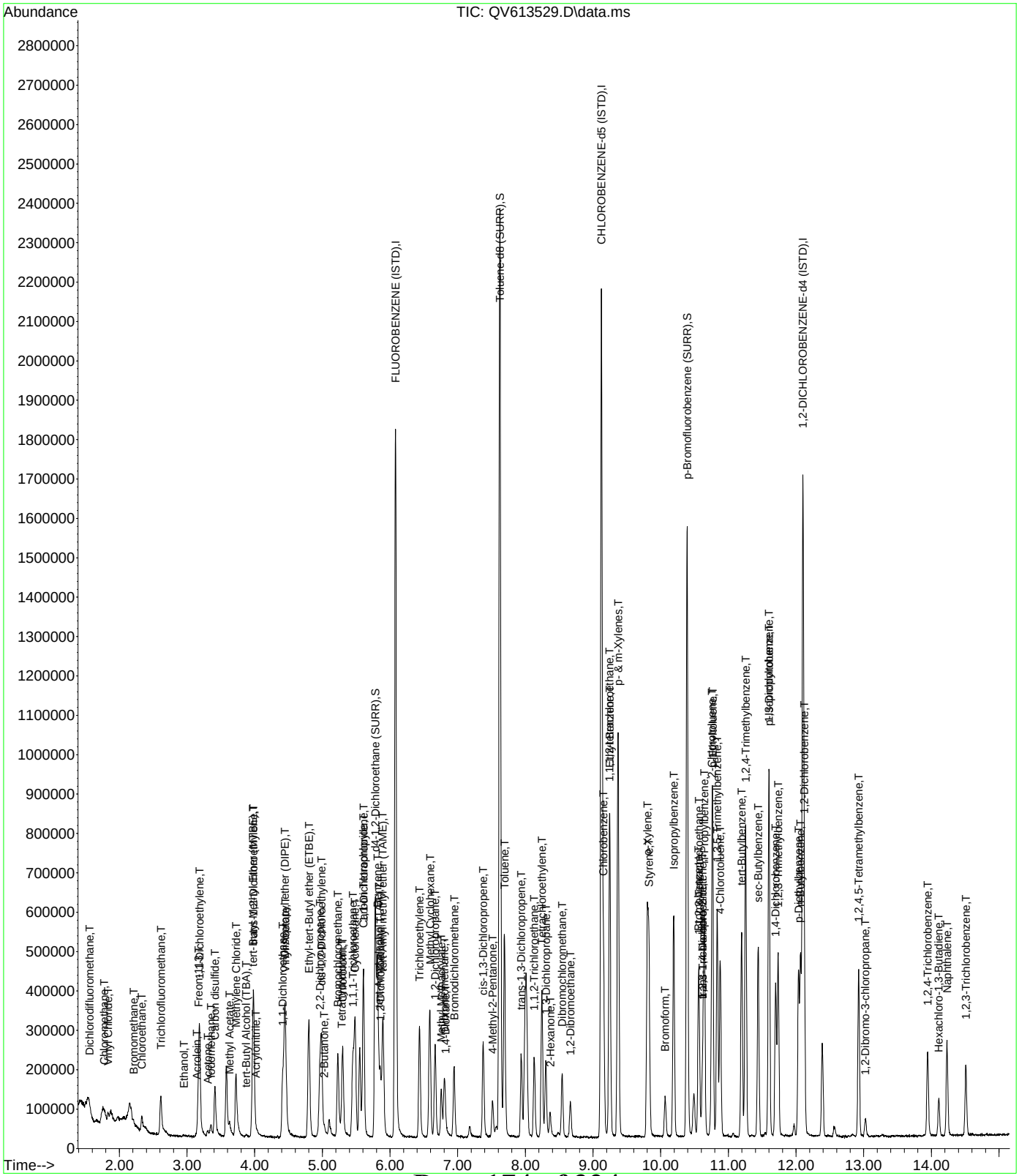
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.129	97	69294	3.54 ppb		89
55) 1,3-Dichloropropane	8.304	76	109582	3.71 ppb	#	85
56) Tetrachloroethylene	8.246	166	116168	4.00 ppb	#	100
57) 2-Hexanone	8.368	43	47242	5.85 ppb		97
58) Dibromochloromethane	8.543	129	94689	4.23 ppb		97
59) 1,2-Dibromoethane	8.666	107	69626	3.76 ppb		98
60) Chlorobenzene	9.153	112	255433	3.51 ppb	#	91
61) 1,1,1,2-tetrachloroethane	9.242	131	100915	4.17 ppb		97
62) Ethyl Benzene	9.247	91	408842	3.72 ppb		97
63) p- & m-Xylenes	9.370	91	635001	7.55 ppb		98
64) o-Xylene	9.804	91	325328	3.80 ppb		99
65) Styrene	9.826	104	255113	3.56 ppb		98
66) Bromoform	10.063	173	52880	5.08 ppb		99
68) p-Ethyltoluene	10.769	105	366774	3.18 ppb	#	83
69) Isopropylbenzene	10.193	105	411751	3.30 ppb		96
71) 1,1,2,2-Tetrachloroethane	10.566	83	70875	3.40 ppb	#	98
72) Bromobenzene	10.558	77	136071	3.65 ppb		89
73) trans-1,4-Dichloro-2-b...	10.619	75	74648	3.48 ppb	#	75
74) 1,2,3-Trichloropropane	10.619	110	23430	3.56 ppb	#	17
75) n-Propylbenzene	10.644	91	452651	3.28 ppb		96
76) 2-Chlorotoluene	10.758	91	300775	3.40 ppb		98
77) 4-Chlorotoluene	10.878	91	269783	3.39 ppb		99
78) 1,3,5-Trimethylbenzene	10.836	105	335532	3.34 ppb		97
79) tert-Butylbenzene	11.195	119	293303	3.30 ppb		97
80) 1,2,4-Trimethylbenzene	11.256	105	323832	3.21 ppb		98
81) sec-Butylbenzene	11.440	105	371095	3.13 ppb		96
82) 1,3-Dichlorobenzene	11.598	146	188474	3.52 ppb		97
83) p-Isopropyltoluene	11.601	119	348672	3.22 ppb		98
84) 1,4-Dichlorobenzene	11.698	146	189647	3.49 ppb		97
85) 1,2,3-Trimethylbenzene	11.737	105	282278	2.61 ppb		95
86) p-Diethylbenzene	12.038	105	149829	2.99 ppb	#	99
87) 1,2-Dichlorobenzene	12.121	146	169347	3.50 ppb		98
88) n-Butylbenzene	12.066	91	298497m	3.09 ppb		
89) 1,2-Dibromo-3-chloropr...	13.020	75	11256	4.26 ppb		91
90) 1,2,4,5-Tetramethylben...	12.925	119	254386	3.33 ppb		97
91) 1,2,4-Trichlorobenzene	13.944	180	80137	4.65 ppb		95
92) Hexachloro-1,3-Butadiene	14.108	225	19443	4.82 ppb		97
93) Naphthalene	14.230	128	217673	4.85 ppb		99
94) 1,2,3-Trichlorobenzene	14.511	180	64113	5.79 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613529.D
Acq On : 15 Mar 2019 6:20 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL3
Misc : QBQV6031519A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 19 10:17:35 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613530.D
Acq On : 15 Mar 2019 6:48 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL4
Misc : QBQV6031519A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 19 10:12:16 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.073	70	287036	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.122	117	1303763	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	505561	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.772	65	365213	10.83	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.30%				
51) Toluene-d8 (SURR)	7.620	98	1606160	9.24	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 92.40%				
70) p-Bromofluorobenzene (...	10.388	95	553291	9.26	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 92.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.565	85	151865m	8.33	ppb		
3) Chloromethane	1.771	50	178817m	8.25	ppb		
4) Vinyl Chloride	1.821	62	188689m	7.94	ppb		
5) Bromomethane	2.197	94	40656m	6.91	ppb		
6) Chloroethane	2.319	64	135450m	9.01	ppb		
7) Trichlorofluoromethane	2.600	101	265370m	9.22	ppb		
8) Ethanol	2.920	45	23297m	166.82	ppb		
9) Freon-113	3.160	101	178100	8.26	ppb		96
10) 1,1-Dichloroethylene	3.171	61	277683	9.39	ppb		89
11) Acrolein	3.112	56	22306m	10.43	ppb		
12) Acetone	3.282	43	76520	18.34	ppb	#	95
13) Iodomethane	3.340	142	117428m	11.09	ppb		
14) Methyl Acetate	3.608	43	128420m	14.22	ppb		
15) Carbon disulfide	3.399	76	456633	8.90	ppb		100
16) tert-Butyl Alcohol (TBA)	3.861	59	20957	10.20	ppb	#	1
17) Methylene Chloride	3.708	49	279819	10.65	ppb		82
18) Acrylonitrile	3.994	53	48984m	9.10	ppb		
19) trans-1,2-Dichloroethy...	3.972	61	290499	9.94	ppb	#	86
20) tert-Butyl Methyl Ethe...	3.955	73	574680	9.86	ppb	#	88
21) 1,1-Dichloroethane	4.401	63	386598	9.79	ppb		99
22) Vinyl Acetate	4.445	43	719096	13.79	ppb		100
23) Diisopropyl ether (DIPE)	4.431	45	830970	12.60	ppb	#	97
24) Ethyl-tert-Butyl ether...	4.787	59	756127	10.18	ppb	#	97
25) cis-1,2-Dichloroethylene	4.976	61	356170	10.06	ppb	#	85
26) 2-Butanone	5.010	72	19095	9.30	ppb	#	95
27) 2,2-Dichloropropane	4.957	77	299187	10.06	ppb	#	84
28) Tetrahydrofuran	5.266	42	50507	14.05	ppb	#	33
29) Bromochloromethane	5.216	49	185271	11.06	ppb	#	77
30) Chloroform	5.288	83	379884	9.49	ppb	#	84
31) 1,1,1-Trichloroethane	5.441	97	335929	9.59	ppb		96
32) Cyclohexane	5.474	56	355799	8.79	ppb		89
33) 1,1-Dichloropropylene	5.600	75	267724	8.69	ppb		85
35) Carbon Tetrachloride	5.594	117	310126	10.11	ppb	#	55
36) tert-Amyl alcohol (TAA)	5.822	59	188180	103.75	ppb		96
37) 1,2-Dichloroethane	5.847	62	259992	10.22	ppb	#	87
38) Benzene	5.806	78	862646	8.68	ppb		95
39) tert-Amyl methyl ether...	5.886	73	641977	9.71	ppb	#	90
41) Trichloroethylene	6.426	95	234254	9.11	ppb		92
42) Methyl Cyclohexane	6.579	83	345376	8.17	ppb		86
43) Methyl Methacrylate	6.749	69	126865	10.68	ppb	#	28
44) Dibromomethane	6.793	93	127020	10.21	ppb		98
45) Bromodichloromethane	6.938	83	298465	10.62	ppb		94
46) 1,2-Dichloropropane	6.657	63	233091	10.32	ppb	#	99
47) 1,4-Dioxane	6.804	88	95830m	539.12	ppb		
48) 2-Chloroethyl vinyl ether	7.230	63	2473m	0.32	ppb		
49) cis-1,3-Dichloropropene	7.369	75	356329	10.43	ppb		90
50) 4-Methyl-2-Pentanone	7.508	43	189163	15.56	ppb	#	88
52) Toluene	7.686	91	1004487	9.14	ppb		100

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613530.D
Acq On : 15 Mar 2019 6:48 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL4
Misc : QBQV6031519A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 19 10:12:16 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

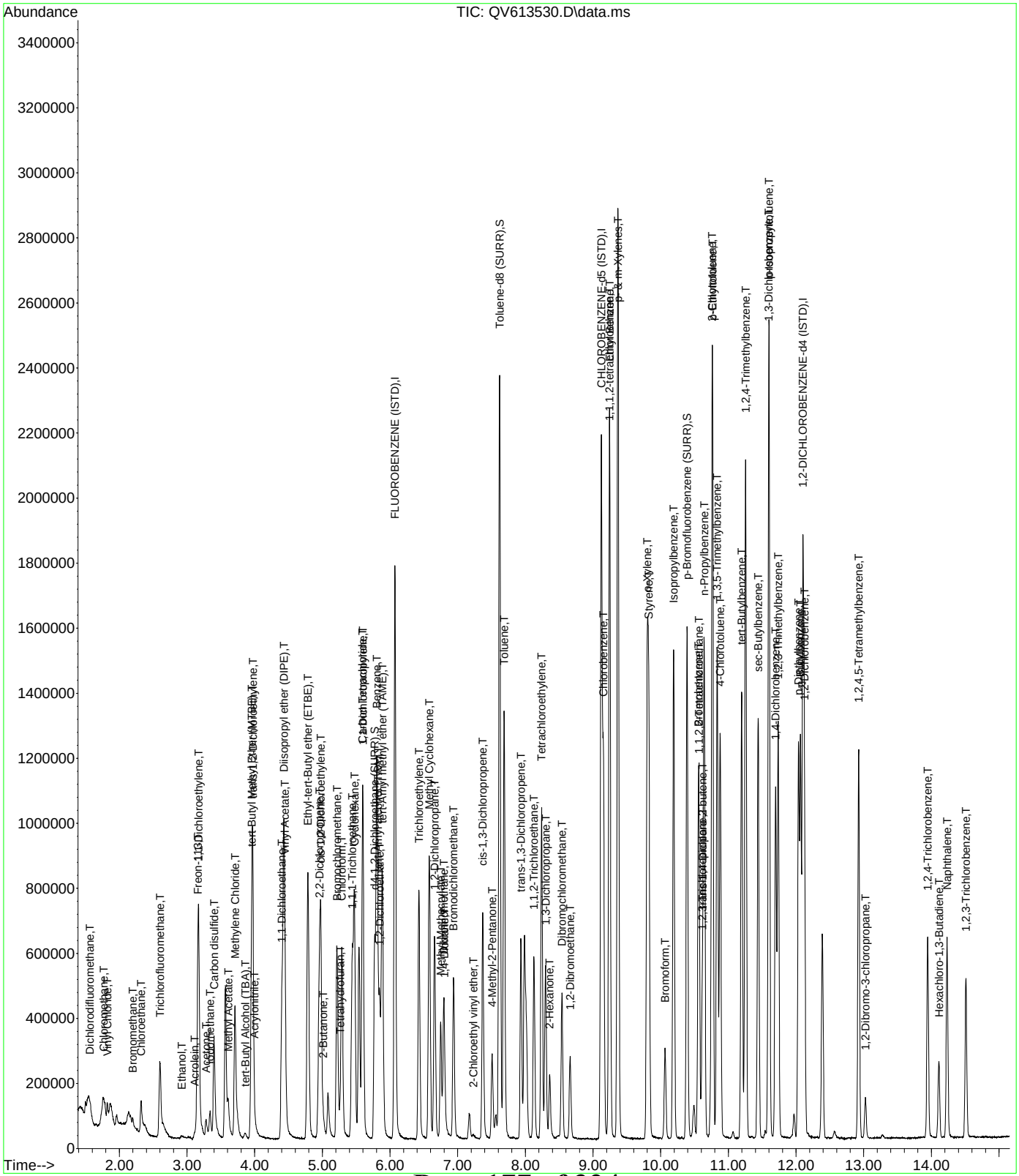
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.934	75	308179	10.98	ppb	#	92
54) 1,1,2-Trichloroethane	8.126	97	184106	9.48	ppb		90
55) 1,3-Dichloropropane	8.301	76	295566	10.11	ppb		93
56) Tetrachloroethylene	8.240	166	307698	10.71	ppb	#	100
57) 2-Hexanone	8.357	43	143364	17.94	ppb		94
58) Dibromochloromethane	8.540	129	260958	11.78	ppb	#	97
59) 1,2-Dibromoethane	8.663	107	188128	10.25	ppb		98
60) Chlorobenzene	9.153	112	687721	9.55	ppb		93
61) 1,1,1,2-tetrachloroethane	9.239	131	275915	11.50	ppb		98
62) Ethyl Benzene	9.244	91	1087843	9.98	ppb		97
63) p- & m-Xylenes	9.367	91	1682529	20.19	ppb		98
64) o-Xylene	9.801	91	863314	10.19	ppb		99
65) Styrene	9.823	104	699813	9.84	ppb		98
66) Bromoform	10.065	173	147515	14.30	ppb		99
68) p-Ethyltoluene	10.766	105	1020991	8.59	ppb	#	83
69) Isopropylbenzene	10.190	105	1093709	8.50	ppb		96
71) 1,1,2,2-Tetrachloroethane	10.566	83	195120	9.08	ppb	#	99
72) Bromobenzene	10.558	77	368604	9.59	ppb		88
73) trans-1,4-Dichloro-2-b...	10.616	75	210507	9.54	ppb		81
74) 1,2,3-Trichloropropane	10.613	110	65132	9.60	ppb		92
75) n-Propylbenzene	10.644	91	1205734	8.49	ppb		96
76) 2-Chlorotoluene	10.761	91	819370	8.99	ppb		99
77) 4-Chlorotoluene	10.878	91	741549	9.05	ppb		99
78) 1,3,5-Trimethylbenzene	10.833	105	896527	8.65	ppb		96
79) tert-Butylbenzene	11.195	119	778026	8.49	ppb		96
80) 1,2,4-Trimethylbenzene	11.256	105	883555	8.52	ppb		97
81) sec-Butylbenzene	11.440	105	989120	8.09	ppb		96
82) 1,3-Dichlorobenzene	11.595	146	517103	9.38	ppb		97
83) p-Isopropyltoluene	11.601	119	944536	8.48	ppb		97
84) 1,4-Dichlorobenzene	11.696	146	518443	9.27	ppb		98
85) 1,2,3-Trimethylbenzene	11.737	105	780883	7.69	ppb		96
86) p-Diethylbenzene	12.035	105	417413	8.09	ppb	#	97
87) 1,2-Dichlorobenzene	12.124	146	473354	9.49	ppb	#	74
88) n-Butylbenzene	12.066	91	757764m	7.61	ppb		
89) 1,2-Dibromo-3-chloropr...	13.025	75	30114	11.07	ppb	#	63
90) 1,2,4,5-Tetramethylben...	12.925	119	726538	9.24	ppb		98
91) 1,2,4-Trichlorobenzene	13.946	180	221198	12.46	ppb		96
92) Hexachloro-1,3-Butadiene	14.113	225	48776	11.74	ppb		96
93) Naphthalene	14.230	128	558209	12.07	ppb		98
94) 1,2,3-Trichlorobenzene	14.511	180	172791	15.15	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613530.D
Acq On : 15 Mar 2019 6:48 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL4
Misc : QBQV6031519A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 19 10:12:16 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613531.D
Acq On : 15 Mar 2019 7:20 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL5
Misc : QBQV6031519A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 19 10:09:16 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.078	70	286431	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	1328010	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	504469	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.778	65	370757	11.02	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 110.20%				
51) Toluene-d8 (SURR)	7.620	98	1644646	9.29	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 92.90%				
70) p-Bromofluorobenzene (...	10.391	95	565353	9.48	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 94.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.557	85	304157m	16.73	ppb		
3) Chloromethane	1.780	50	350414m	16.20	ppb		
4) Vinyl Chloride	1.827	62	386836m	16.31	ppb		
5) Bromomethane	2.203	94	117241m	16.60	ppb		
6) Chloroethane	2.328	64	270870m	18.05	ppb		
7) Trichlorofluoromethane	2.606	101	550246	19.16	ppb		98
8) Ethanol	2.907	45	48359m	347.02	ppb		
9) Freon-113	3.168	101	368673	17.14	ppb	#	69
10) 1,1-Dichloroethylene	3.179	61	575433	19.51	ppb		89
11) Acrolein	3.112	56	47904	19.11	ppb	#	86
12) Acetone	3.285	43	120146	28.85	ppb	#	96
13) Iodomethane	3.349	142	271022m	21.21	ppb		
14) Methyl Acetate	3.613	43	240322	26.66	ppb		99
15) Carbon disulfide	3.407	76	926716	18.09	ppb		100
16) tert-Butyl Alcohol (TBA)	3.864	59	42335	20.64	ppb	#	1
17) Methylene Chloride	3.716	49	556040	21.20	ppb	#	81
18) Acrylonitrile	3.994	53	102571m	17.37	ppb		
19) trans-1,2-Dichloroethy...	3.978	61	594709	20.40	ppb		95
20) tert-Butyl Methyl Ethe...	3.964	73	1151427	19.79	ppb	#	88
21) 1,1-Dichloroethane	4.409	63	760573	19.31	ppb		99
22) Vinyl Acetate	4.451	43	1440272	27.68	ppb		100
23) Diisopropyl ether (DIPE)	4.437	45	1673265	25.42	ppb	#	97
24) Ethyl-tert-Butyl ether...	4.793	59	1525313	20.58	ppb	#	97
25) cis-1,2-Dichloroethylene	4.982	61	719948	20.37	ppb		94
26) 2-Butanone	5.010	72	35979	17.56	ppb	#	95
27) 2,2-Dichloropropane	4.960	77	612082	20.63	ppb	#	65
28) Tetrahydrofuran	5.271	42	101846	28.39	ppb	#	36
29) Bromochloromethane	5.221	49	365489	21.87	ppb	#	77
30) Chloroform	5.294	83	768332	19.22	ppb	#	84
31) 1,1,1-Trichloroethane	5.447	97	708287	20.26	ppb		96
32) Cyclohexane	5.477	56	734697	18.19	ppb		89
33) 1,1-Dichloropropylene	5.603	75	558210	18.16	ppb		82
35) Carbon Tetrachloride	5.600	117	660857	21.59	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.825	59	378995	209.39	ppb	#	77
37) 1,2-Dichloroethane	5.850	62	552769	21.78	ppb		100
38) Benzene	5.808	78	1746708	17.61	ppb		95
39) tert-Amyl methyl ether...	5.889	73	1299269	19.70	ppb	#	100
41) Trichloroethylene	6.429	95	479178	18.30	ppb		90
42) Methyl Cyclohexane	6.585	83	717990	16.67	ppb		86
43) Methyl Methacrylate	6.752	69	255714	21.13	ppb	#	28
44) Dibromomethane	6.799	93	251480	19.84	ppb	#	60
45) Bromodichloromethane	6.944	83	605580	21.15	ppb		95
46) 1,2-Dichloropropane	6.663	63	467420	20.32	ppb	#	99
47) 1,4-Dioxane	6.807	88	181367	1001.70	ppb	#	86
48) 2-Chloroethyl vinyl ether	7.219	63	5376m	0.69	ppb		
49) cis-1,3-Dichloropropene	7.372	75	729182	20.95	ppb		90
50) 4-Methyl-2-Pentanone	7.511	43	378922	30.60	ppb		90
52) Toluene	7.686	91	2056983	18.38	ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613531.D
Acq On : 15 Mar 2019 7:20 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL5
Misc : QBQV6031519A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 19 10:09:16 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

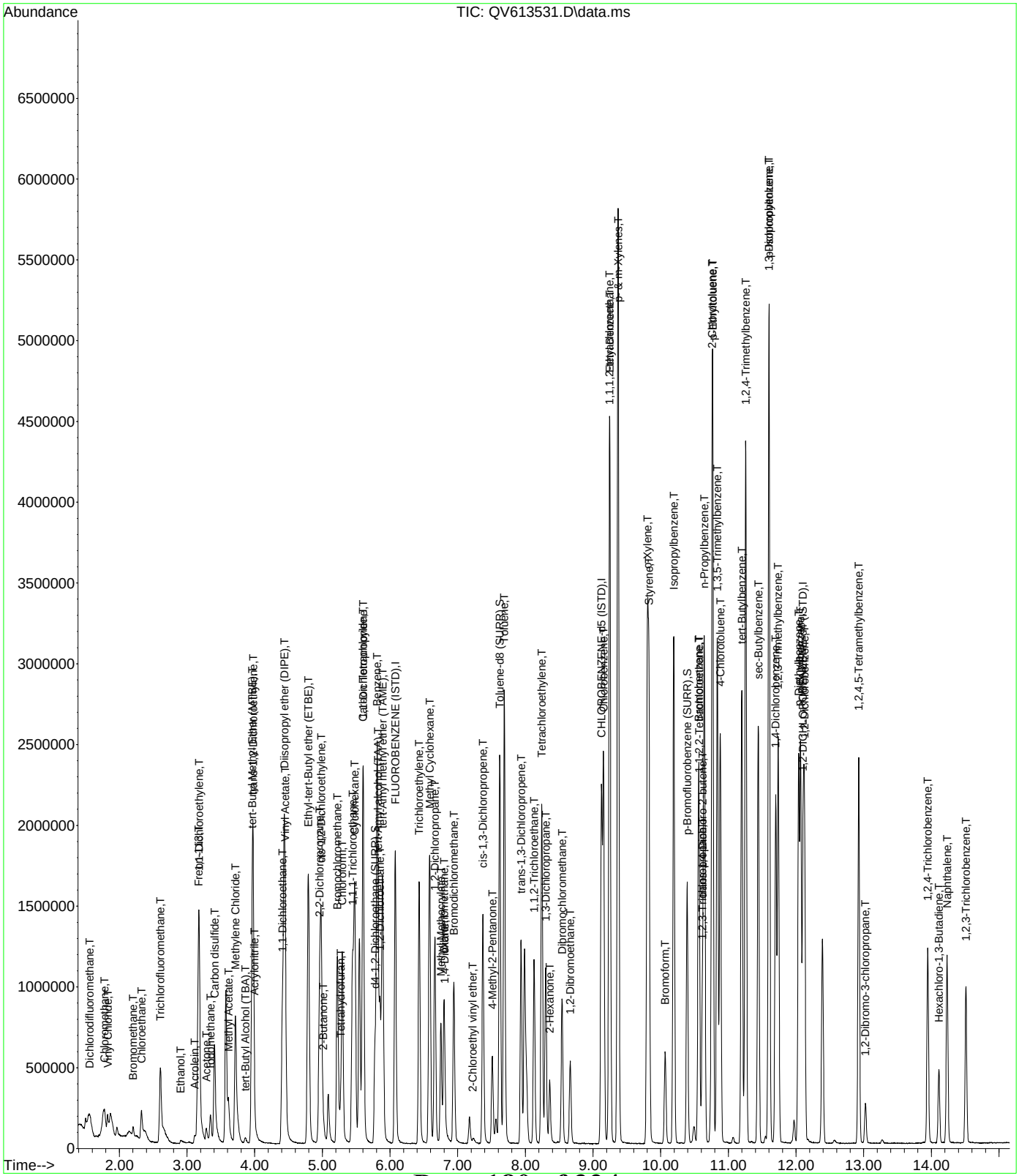
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.937	75	621171	21.72	ppb	#	92
54) 1,1,2-Trichloroethane	8.129	97	371454	18.78	ppb		90
55) 1,3-Dichloropropane	8.299	76	597558	20.07	ppb		93
56) Tetrachloroethylene	8.243	166	645401	22.05	ppb	#	100
57) 2-Hexanone	8.360	43	269664	33.12	ppb		94
58) Dibromochloromethane	8.543	129	523261	23.18	ppb	#	97
59) 1,2-Dibromoethane	8.663	107	379211	20.29	ppb		98
60) Chlorobenzene	9.155	112	1391144	18.97	ppb	#	91
61) 1,1,1,2-tetrachloroethane	9.242	131	555621	22.73	ppb		97
62) Ethyl Benzene	9.247	91	2208445	19.89	ppb		96
63) p- & m-Xylenes	9.370	91	3430994	40.41	ppb		98
64) o-Xylene	9.804	91	1741310	20.17	ppb		99
65) Styrene	9.826	104	1433587	19.80	ppb		98
66) Bromoform	10.065	173	298524	28.41	ppb		99
68) p-Ethyltoluene	10.769	105	2047801	17.26	ppb	#	83
69) Isopropylbenzene	10.193	105	2247321	17.51	ppb		96
71) 1,1,2,2-Tetrachloroethane	10.569	83	386707	18.03	ppb	#	99
72) Bromobenzene	10.560	77	745575	19.44	ppb		87
73) trans-1,4-Dichloro-2-b...	10.619	75	416640	18.92	ppb		81
74) 1,2,3-Trichloropropane	10.613	110	130493	19.27	ppb		93
75) n-Propylbenzene	10.644	91	2449330	17.29	ppb		96
76) 2-Chlorotoluene	10.761	91	1644264	18.08	ppb		98
77) 4-Chlorotoluene	10.880	91	1495279	18.30	ppb		99
78) 1,3,5-Trimethylbenzene	10.836	105	1795302	17.36	ppb		96
79) tert-Butylbenzene	11.198	119	1581863	17.30	ppb		96
80) 1,2,4-Trimethylbenzene	11.259	105	1781402	17.21	ppb		97
81) sec-Butylbenzene	11.442	105	1994078	16.34	ppb		96
82) 1,3-Dichlorobenzene	11.598	146	1056399	19.21	ppb		98
83) p-Isopropyltoluene	11.601	119	1916454	17.23	ppb		97
84) 1,4-Dichlorobenzene	11.698	146	1042857	18.69	ppb		98
85) 1,2,3-Trimethylbenzene	11.735	105	1539611	15.56	ppb		96
86) p-Diethylbenzene	12.038	105	828423	16.10	ppb	#	98
87) 1,2-Dichlorobenzene	12.124	146	939121	18.87	ppb	#	74
88) n-Butylbenzene	12.066	91	1543700m	15.55	ppb		
89) 1,2-Dibromo-3-chloropr...	13.023	75	58908	21.70	ppb		88
90) 1,2,4,5-Tetramethylben...	12.925	119	1399878	17.84	ppb		98
91) 1,2,4-Trichlorobenzene	13.946	180	426429	24.08	ppb		97
92) Hexachloro-1,3-Butadiene	14.111	225	93591	22.58	ppb		97
93) Naphthalene	14.230	128	1068493	23.15	ppb		99
94) 1,2,3-Trichlorobenzene	14.508	180	331236	29.11	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613531.D
Acq On : 15 Mar 2019 7:20 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL5
Misc : QBQV6031519A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 19 10:09:16 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613532.D
Acq On : 15 Mar 2019 7:57 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL6
Misc : QBQV6031519A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 19 10:04:44 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.075	70	293521	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	1344007	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	517968	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.778	65	372981	10.82	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.20%				
51) Toluene-d8 (SURR)	7.619	98	1656789	9.25	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 92.50%				
70) p-Bromofluorobenzene (...	10.391	95	562709	9.19	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 91.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.571	85	576588m	30.94	ppb		
3) Chloromethane	1.782	50	700270m	31.58	ppb		
4) Vinyl Chloride	1.877	62	761161m	31.32	ppb		
5) Bromomethane	2.205	94	263772m	31.51	ppb		
6) Chloroethane	2.328	64	519369m	33.77	ppb		
7) Trichlorofluoromethane	2.606	101	1089675	37.02	ppb		96
8) Ethanol	2.901	45	95316m	667.45	ppb		
9) Freon-113	3.168	101	736537	33.41	ppb		96
10) 1,1-Dichloroethylene	3.179	61	1092699	36.14	ppb		87
11) Acrolein	3.112	56	97983m	35.66	ppb		
12) Acetone	3.282	43	197066	46.18	ppb	#	97
13) Iodomethane	3.349	142	557579m	38.01	ppb		
14) Methyl Acetate	3.610	43	482867	52.28	ppb		99
15) Carbon disulfide	3.404	76	1752452	33.38	ppb		100
16) tert-Butyl Alcohol (TBA)	3.855	59	87811	41.78	ppb	#	1
17) Methylene Chloride	3.716	49	1039042	38.66	ppb	#	81
18) Acrylonitrile	3.991	53	216053m	34.06	ppb		
19) trans-1,2-Dichloroethy...	3.978	61	1127988	37.76	ppb		96
20) tert-Butyl Methyl Ethe...	3.961	73	2147926	36.02	ppb	#	88
21) 1,1-Dichloroethane	4.409	63	1398693	34.65	ppb		99
22) Vinyl Acetate	4.450	43	2825136	52.98	ppb	#	100
23) Diisopropyl ether (DIPE)	4.437	45	3158413	46.82	ppb	#	98
24) Ethyl-tert-Butyl ether...	4.793	59	2848818	37.51	ppb	#	85
25) cis-1,2-Dichloroethylene	4.982	61	1324659	36.58	ppb		93
26) 2-Butanone	5.007	72	76193	36.28	ppb	#	95
27) 2,2-Dichloropropane	4.960	77	1125912	37.03	ppb	#	84
28) Tetrahydrofuran	5.266	42	195040	53.05	ppb	#	36
29) Bromochloromethane	5.221	49	686661	40.10	ppb	#	78
30) Chloroform	5.293	83	1432307	34.97	ppb	#	84
31) 1,1,1-Trichloroethane	5.447	97	1357708	37.89	ppb		96
32) Cyclohexane	5.477	56	1473440	35.60	ppb		89
33) 1,1-Dichloropropylene	5.605	75	1079556	34.27	ppb		82
35) Carbon Tetrachloride	5.600	117	1294783	41.28	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.822	59	722687	389.63	ppb		96
37) 1,2-Dichloroethane	5.850	62	1044959	40.18	ppb		100
38) Benzene	5.808	78	3293905	32.41	ppb		95
39) tert-Amyl methyl ether...	5.889	73	2426168	35.90	ppb	#	100
41) Trichloroethylene	6.431	95	920683	34.73	ppb		91
42) Methyl Cyclohexane	6.584	83	1466350	33.65	ppb		86
43) Methyl Methacrylate	6.751	69	496249	40.51	ppb	#	28
44) Dibromomethane	6.796	93	483608	37.71	ppb		97
45) Bromodichloromethane	6.941	83	1151365	39.73	ppb		95
46) 1,2-Dichloropropane	6.662	63	895438	38.47	ppb	#	99
47) 1,4-Dioxane	6.804	88	348282	1900.69	ppb	#	86
48) 2-Chloroethyl vinyl ether	7.222	63	7951m	1.00	ppb		
49) cis-1,3-Dichloropropene	7.372	75	1364669	38.74	ppb		90
50) 4-Methyl-2-Pentanone	7.511	43	729456	58.21	ppb	#	91
52) Toluene	7.689	91	3862455	34.10	ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613532.D
Acq On : 15 Mar 2019 7:57 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL6
Misc : QBQV6031519A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 19 10:04:44 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

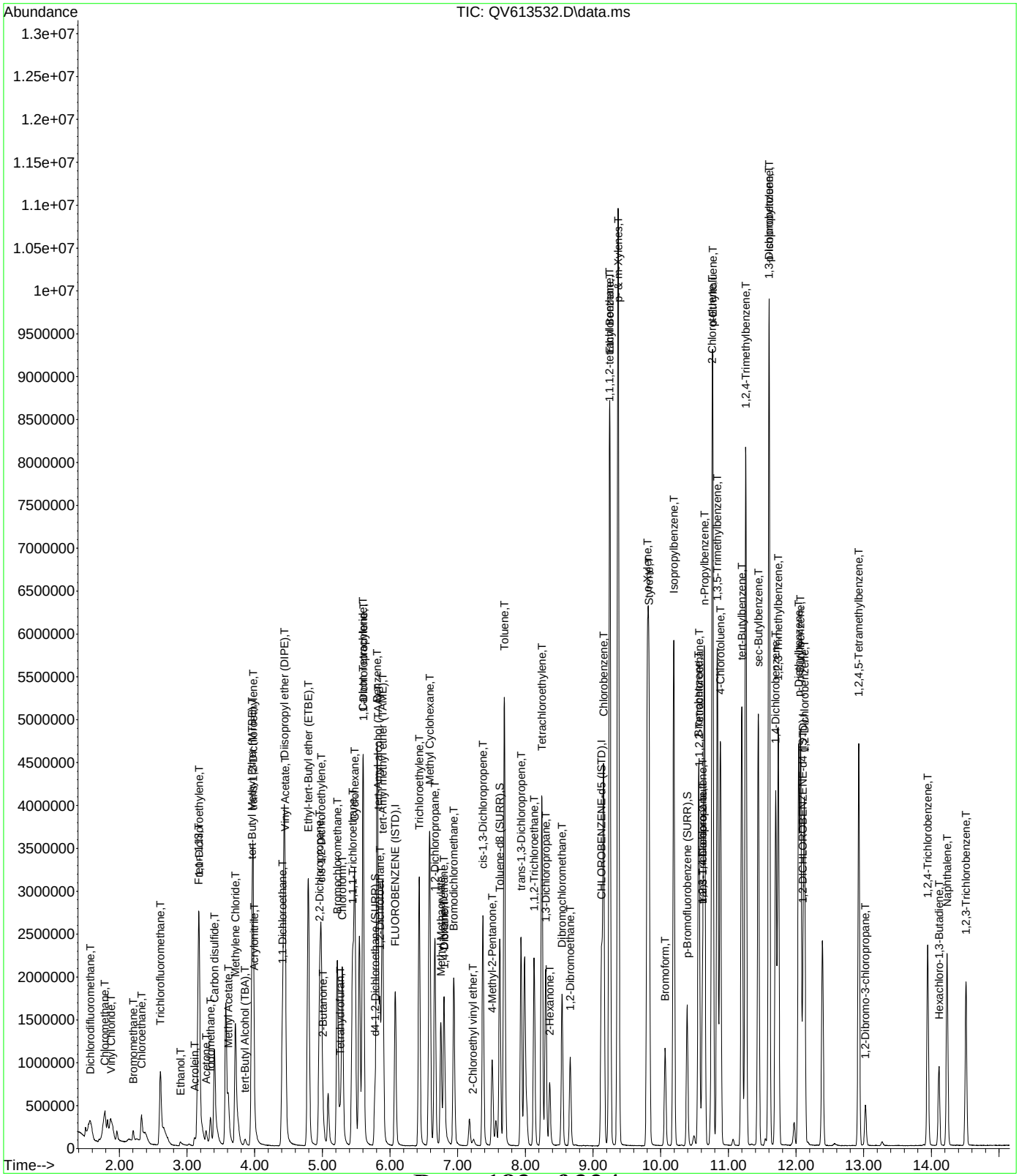
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.937	75	1179137	40.74	ppb		98
54) 1,1,2-Trichloroethane	8.129	97	706604	35.30	ppb		90
55) 1,3-Dichloropropane	8.301	76	1128545	37.44	ppb	#	85
56) Tetrachloroethylene	8.245	166	1245509	42.04	ppb	#	100
57) 2-Hexanone	8.360	43	505606	61.36	ppb		94
58) Dibromochloromethane	8.540	129	1001464	43.84	ppb	#	97
59) 1,2-Dibromoethane	8.663	107	724230	38.29	ppb		97
60) Chlorobenzene	9.155	112	2638368	35.54	ppb	#	90
61) 1,1,1,2-tetrachloroethane	9.242	131	1089873	44.06	ppb		97
62) Ethyl Benzene	9.247	91	4182344	37.22	ppb		95
63) p- & m-Xylenes	9.369	91	6455200	75.13	ppb		98
64) o-Xylene	9.804	91	3268993	37.41	ppb		99
65) Styrene	9.826	104	2718347	37.10	ppb		98
66) Bromoform	10.065	173	576089	54.17	ppb	#	80
68) p-Ethyltoluene	10.769	105	3943909	32.37	ppb	#	84
69) Isopropylbenzene	10.193	105	4176620	31.70	ppb		96
71) 1,1,2,2-Tetrachloroethane	10.569	83	727283	33.02	ppb	#	99
72) Bromobenzene	10.557	77	1407371	35.73	ppb		87
73) trans-1,4-Dichloro-2-b...	10.619	75	784043	34.68	ppb		81
74) 1,2,3-Trichloropropane	10.619	110	240370	34.58	ppb		94
75) n-Propylbenzene	10.647	91	4588271	31.55	ppb		95
76) 2-Chlorotoluene	10.761	91	3124229	33.46	ppb		98
77) 4-Chlorotoluene	10.880	91	2817591	33.58	ppb		99
78) 1,3,5-Trimethylbenzene	10.836	105	3360775	31.66	ppb		95
79) tert-Butylbenzene	11.197	119	2985005	31.79	ppb		96
80) 1,2,4-Trimethylbenzene	11.259	105	3340449	31.43	ppb		96
81) sec-Butylbenzene	11.442	105	3792383	30.27	ppb		96
82) 1,3-Dichlorobenzene	11.598	146	2018463	35.75	ppb		97
83) p-Isopropyltoluene	11.604	119	3685545	32.28	ppb		97
84) 1,4-Dichlorobenzene	11.698	146	1969765	34.39	ppb		97
85) 1,2,3-Trimethylbenzene	11.737	105	2917771	28.98	ppb		95
86) p-Diethylbenzene	12.038	105	1619054	30.64	ppb	#	97
87) 1,2-Dichlorobenzene	12.124	146	1791962	35.07	ppb	#	88
88) n-Butylbenzene	12.065	91	2741900m	26.89	ppb		
89) 1,2-Dibromo-3-chloropr...	13.023	75	112992	40.55	ppb		89
90) 1,2,4,5-Tetramethylben...	12.925	119	2736332	33.96	ppb		97
91) 1,2,4-Trichlorobenzene	13.944	180	821202	45.16	ppb		96
92) Hexachloro-1,3-Butadiene	14.113	225	187965	44.16	ppb		97
93) Naphthalene	14.233	128	2023711	42.70	ppb		99
94) 1,2,3-Trichlorobenzene	14.511	180	646296	55.32	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613532.D
Acq On : 15 Mar 2019 7:57 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL6
Misc : QBQV6031519A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 19 10:04:44 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613533.D
Acq On : 15 Mar 2019 8:29 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL7
Misc : QBQV6031519A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 19 10:02:15 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.073	70	293883	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	1300492	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.105	152	527691	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.772	65	369522	10.71	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 107.10%				
51) Toluene-d8 (SURR)	7.620	98	1632795	9.42	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 94.20%				
70) p-Bromofluorobenzene (...	10.391	95	540319	8.66	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 86.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.563	85	1262843m	67.69	ppb		
3) Chloromethane	1.774	50	1379562m	62.14	ppb		
4) Vinyl Chloride	1.874	62	1644296m	67.58	ppb		
5) Bromomethane	2.200	94	731292m	67.92	ppb		
6) Chloroethane	2.322	64	1095658m	71.14	ppb		
7) Trichlorofluoromethane	2.600	101	2422491	82.20	ppb		97
8) Ethanol	2.887	45	210694m	1473.57	ppb		
9) Freon-113	3.160	101	1668871	75.61	ppb		96
10) 1,1-Dichloroethylene	3.174	61	2364601	78.12	ppb		85
11) Acrolein	3.101	56	203572	73.27	ppb	#	83
12) Acetone	3.271	43	418664	97.99	ppb	#	95
13) Iodomethane	3.340	142	1347750m	79.60	ppb		
14) Methyl Acetate	3.602	43	1038220	112.27	ppb		99
15) Carbon disulfide	3.399	76	3694781	70.30	ppb		100
16) tert-Butyl Alcohol (TBA)	3.850	59	204797	97.33	ppb	#	1
17) Methylene Chloride	3.708	49	2181561	81.07	ppb	#	81
18) Acrylonitrile	3.980	53	449903	69.27	ppb	#	41
19) trans-1,2-Dichloroethy...	3.972	61	2320538	77.58	ppb		95
20) tert-Butyl Methyl Ethe...	3.955	73	4519870	75.71	ppb	#	88
21) 1,1-Dichloroethane	4.403	63	2891628	71.55	ppb		99
22) Vinyl Acetate	4.442	43	5957130	111.57	ppb	#	100
23) Diisopropyl ether (DIPE)	4.431	45	6619207	98.01	ppb	#	98
24) Ethyl-tert-Butyl ether...	4.787	59	5929916	77.98	ppb	#	85
25) cis-1,2-Dichloroethylene	4.976	61	2744509	75.70	ppb		93
26) 2-Butanone	4.996	72	162464	77.27	ppb	#	95
27) 2,2-Dichloropropane	4.954	77	2336378	76.74	ppb	#	84
28) Tetrahydrofuran	5.257	42	438869	119.22	ppb	#	42
29) Bromochloromethane	5.218	49	1454319	84.82	ppb	#	78
30) Chloroform	5.291	83	2906319	70.88	ppb	#	84
31) 1,1,1-Trichloroethane	5.441	97	2952664	82.30	ppb	#	81
32) Cyclohexane	5.474	56	3272317	78.97	ppb		89
33) 1,1-Dichloropropylene	5.600	75	2323452	73.67	ppb		80
35) Carbon Tetrachloride	5.594	117	2870239	91.40	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.819	59	1542370	830.52	ppb		96
37) 1,2-Dichloroethane	5.847	62	2221135	85.30	ppb		99
38) Benzene	5.806	78	6900237	67.82	ppb		96
39) tert-Amyl methyl ether...	5.883	73	5060657	74.79	ppb	#	100
41) Trichloroethylene	6.426	95	1981608	77.26	ppb		90
42) Methyl Cyclohexane	6.582	83	3220458	76.38	ppb		86
43) Methyl Methacrylate	6.749	69	1049093	88.51	ppb	#	28
44) Dibromomethane	6.793	93	990083	79.78	ppb		97
45) Bromodichloromethane	6.941	83	2438843	86.97	ppb		95
46) 1,2-Dichloropropane	6.660	63	1862016	82.67	ppb	#	83
47) 1,4-Dioxane	6.802	88	717087	4044.33	ppb	#	86
48) 2-Chloroethyl vinyl ether	7.219	63	13070m	1.71	ppb		
49) cis-1,3-Dichloropropene	7.369	75	2840572	83.33	ppb		90
50) 4-Methyl-2-Pentanone	7.508	43	1535486	126.62	ppb	#	91
52) Toluene	7.689	91	8069353	73.63	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613533.D
Acq On : 15 Mar 2019 8:29 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL7
Misc : QBQV6031519A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 19 10:02:15 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

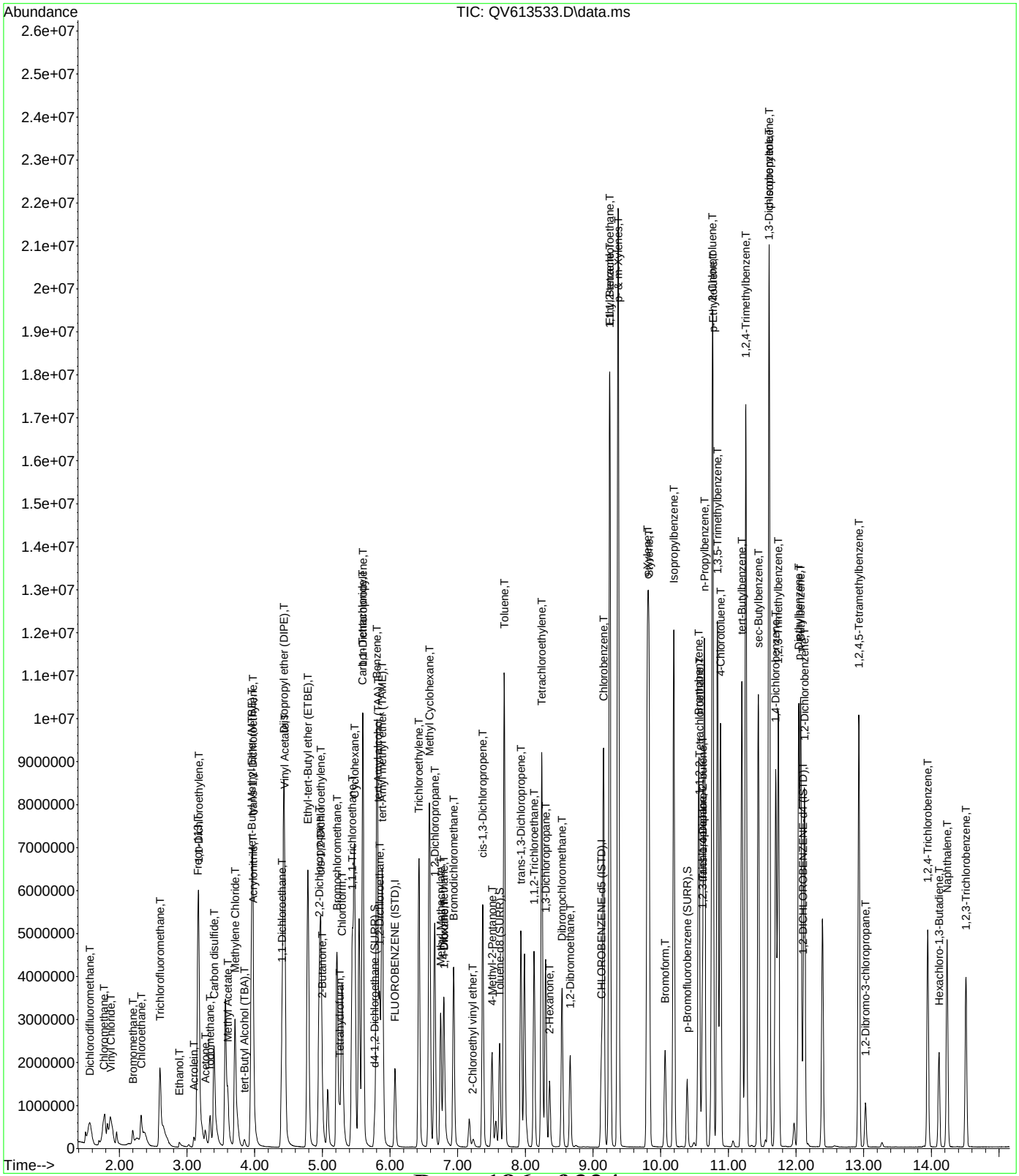
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.934	75	2466248	88.05	ppb		98
54) 1,1,2-Trichloroethane	8.129	97	1488115	76.84	ppb		90
55) 1,3-Dichloropropane	8.298	76	2325771	79.75	ppb	#	85
56) Tetrachloroethylene	8.243	166	2718893	94.84	ppb	#	100
57) 2-Hexanone	8.357	43	1050152	131.71	ppb		94
58) Dibromochloromethane	8.540	129	2127560	96.25	ppb	#	97
59) 1,2-Dibromoethane	8.663	107	1497677	81.82	ppb		98
60) Chlorobenzene	9.155	112	5452920	75.92	ppb	#	89
61) 1,1,1,2-tetrachloroethane	9.244	131	2286233	95.52	ppb		97
62) Ethyl Benzene	9.247	91	8497874	78.15	ppb		94
63) p- & m-Xylenes	9.370	91	12829147	154.30	ppb		95
64) o-Xylene	9.804	91	6643849	78.58	ppb		98
65) Styrene	9.826	104	5691815	80.27	ppb		98
66) Bromoform	10.065	173	1187713	115.43	ppb	#	80
68) p-Ethyltoluene	10.772	105	8181593	65.92	ppb	#	84
69) Isopropylbenzene	10.193	105	8474118	63.13	ppb		95
71) 1,1,2,2-Tetrachloroethane	10.571	83	1462529	65.18	ppb	#	99
72) Bromobenzene	10.560	77	2837490	70.71	ppb		86
73) trans-1,4-Dichloro-2-b...	10.622	75	1565160	67.96	ppb		81
74) 1,2,3-Trichloropropane	10.619	110	492674	69.57	ppb		95
75) n-Propylbenzene	10.647	91	9244571	62.40	ppb		94
76) 2-Chlorotoluene	10.763	91	6383938	67.12	ppb		98
77) 4-Chlorotoluene	10.883	91	5777766	67.59	ppb		98
78) 1,3,5-Trimethylbenzene	10.839	105	6958840	64.34	ppb		95
79) tert-Butylbenzene	11.198	119	6227355	65.09	ppb		96
80) 1,2,4-Trimethylbenzene	11.259	105	7027448	64.90	ppb		95
81) sec-Butylbenzene	11.442	105	7935485	62.18	ppb		95
82) 1,3-Dichlorobenzene	11.598	146	4355307	75.71	ppb		97
83) p-Isopropyltoluene	11.604	119	7928318	68.16	ppb		96
84) 1,4-Dichlorobenzene	11.698	146	4178339	71.60	ppb		97
85) 1,2,3-Trimethylbenzene	11.737	105	6110239	59.57	ppb		95
86) p-Diethylbenzene	12.038	105	3519720	65.38	ppb	#	96
87) 1,2-Dichlorobenzene	12.124	146	3791527	72.83	ppb	#	88
88) n-Butylbenzene	12.068	91	6061175m	58.35	ppb		
89) 1,2-Dibromo-3-chloropr...	13.025	75	239743	84.44	ppb		88
90) 1,2,4,5-Tetramethylben...	12.928	119	5999993	73.08	ppb		97
91) 1,2,4-Trichlorobenzene	13.946	180	1765615	95.32	ppb		96
92) Hexachloro-1,3-Butadiene	14.113	225	441258	101.76	ppb		96
93) Naphthalene	14.233	128	4265630	88.34	ppb		99
94) 1,2,3-Trichlorobenzene	14.511	180	1374445	115.48	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613533.D
Acq On : 15 Mar 2019 8:29 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL7
Misc : QBQV6031519A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 19 10:02:15 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613534.D
Acq On : 15 Mar 2019 9:02 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL8
Misc : QBQV6031519A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 19 09:59:55 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.075	70	295938	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	1290857	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.105	152	543548	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.780	65	367955	10.59	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 105.90%				
51) Toluene-d8 (SURR)	7.622	98	1644313	9.55	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 95.50%				
70) p-Bromofluorobenzene (...	10.393	95	548256	8.54	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 85.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.563	85	1947527m	103.66	ppb		
3) Chloromethane	1.780	50	1963714	87.84	ppb	#	88
4) Vinyl Chloride	1.880	62	2478240m	101.14	ppb		
5) Bromomethane	2.197	94	1330395m	102.18	ppb		
6) Chloroethane	2.322	64	1662939m	107.23	ppb		
7) Trichlorofluoromethane	2.600	101	3783886	127.50	ppb		93
8) Ethanol	2.887	45	335228m	2328.27	ppb		
9) Freon-113	3.162	101	2545025	114.51	ppb		95
10) 1,1-Dichloroethylene	3.176	61	3624780	118.92	ppb		85
11) Acrolein	3.104	56	323252	119.01	ppb	#	83
12) Acetone	3.271	43	647357	150.47	ppb	#	95
13) Iodomethane	3.343	142	2077382m	112.22	ppb		
14) Methyl Acetate	3.602	43	1611632	173.07	ppb		98
15) Carbon disulfide	3.402	76	5699746	107.69	ppb		100
16) tert-Butyl Alcohol (TBA)	3.852	59	290272	136.99	ppb	#	1
17) Methylene Chloride	3.711	49	3353751	123.77	ppb	#	81
18) Acrylonitrile	3.983	53	723339	109.91	ppb	#	73
19) trans-1,2-Dichloroethy...	3.975	61	3556051	118.06	ppb	#	85
20) tert-Butyl Methyl Ethe...	3.955	73	6932339	115.31	ppb	#	88
21) 1,1-Dichloroethane	4.406	63	4403745	108.21	ppb		99
22) Vinyl Acetate	4.445	43	9220618	171.49	ppb	#	100
23) Diisopropyl ether (DIPE)	4.434	45	10159545	149.38	ppb	#	97
24) Ethyl-tert-Butyl ether...	4.787	59	9006324	117.61	ppb	#	96
25) cis-1,2-Dichloroethylene	4.979	61	4182877	114.57	ppb		92
26) 2-Butanone	4.996	72	253743	119.84	ppb	#	95
27) 2,2-Dichloropropane	4.957	77	3478614	113.46	ppb	#	65
28) Tetrahydrofuran	5.260	42	674395	181.93	ppb	#	40
29) Bromochloromethane	5.218	49	2229971	129.16	ppb	#	77
30) Chloroform	5.294	83	4395868	106.46	ppb	#	96
31) 1,1,1-Trichloroethane	5.444	97	4632866	128.24	ppb	#	81
32) Cyclohexane	5.477	56	5217602	125.05	ppb		89
33) 1,1-Dichloropropylene	5.602	75	3611530	113.72	ppb		76
35) Carbon Tetrachloride	5.597	117	4618910	146.07	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.822	59	2389178	1277.57	ppb		95
37) 1,2-Dichloroethane	5.850	62	3323893	126.76	ppb		99
38) Benzene	5.808	78	10542910	102.90	ppb		96
39) tert-Amyl methyl ether...	5.886	73	7748767	113.72	ppb	#	99
41) Trichloroethylene	6.429	95	3110514	122.18	ppb		89
42) Methyl Cyclohexane	6.585	83	5112863	122.16	ppb		86
43) Methyl Methacrylate	6.749	69	1618207	137.55	ppb	#	28
44) Dibromomethane	6.796	93	1483479	120.42	ppb		96
45) Bromodichloromethane	6.941	83	3791209	136.20	ppb		95
46) 1,2-Dichloropropane	6.662	63	2871723	128.45	ppb	#	83
47) 1,4-Dioxane	6.802	88	1103124	6268.00	ppb	#	86
48) 2-Chloroethyl vinyl ether	7.227	63	19418m	2.55	ppb		
49) cis-1,3-Dichloropropene	7.372	75	4317373	127.60	ppb		90
50) 4-Methyl-2-Pentanone	7.508	43	2335217	194.01	ppb	#	91
52) Toluene	7.689	91	12183794	112.00	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613534.D
Acq On : 15 Mar 2019 9:02 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL8
Misc : QBQV6031519A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 19 09:59:55 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

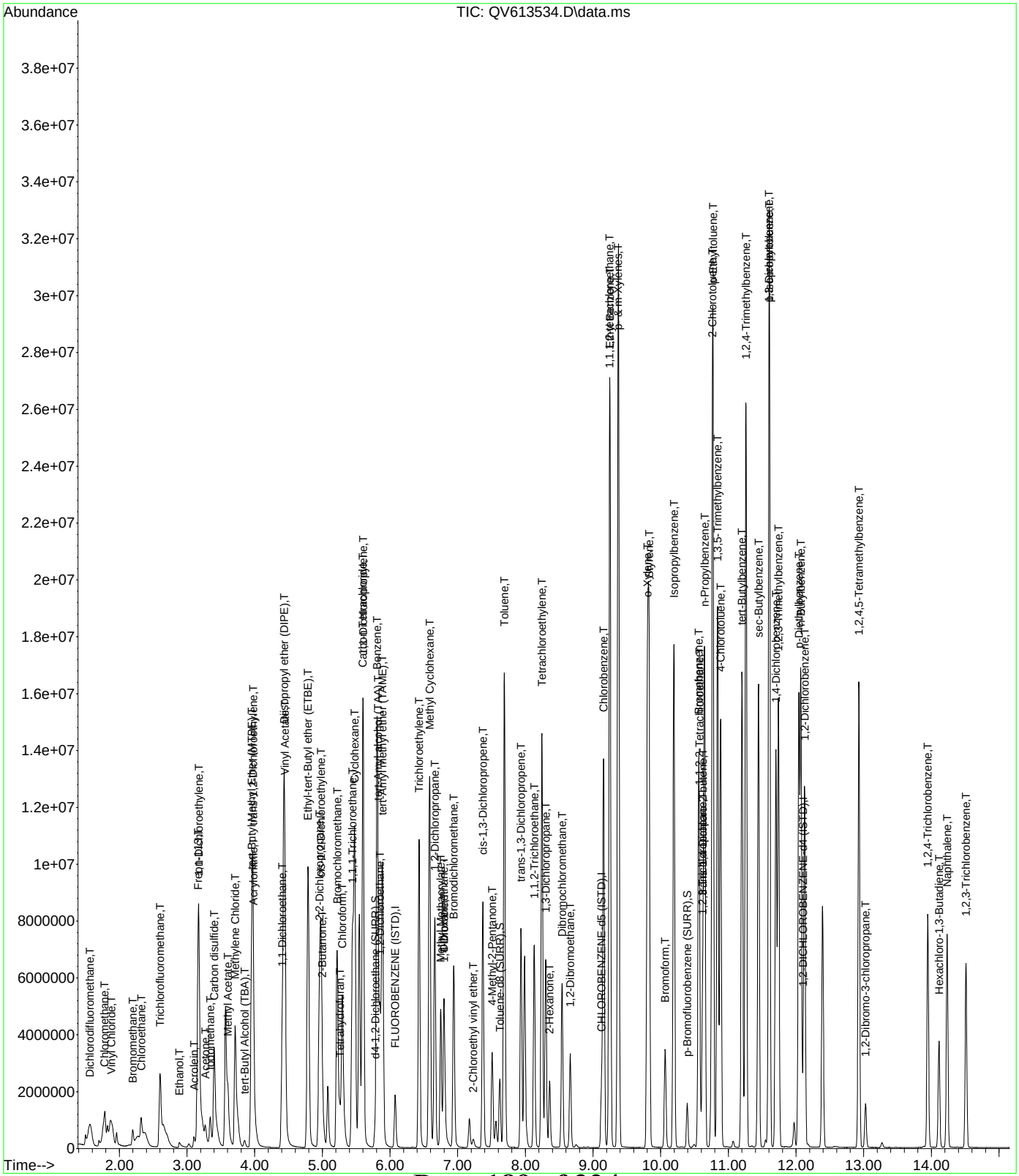
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.934	75	3742346	134.61 ppb		97
54) 1,1,2-Trichloroethane	8.131	97	2282927	118.76 ppb		89
55) 1,3-Dichloropropane	8.301	76	3524420	121.75 ppb		93
56) Tetrachloroethylene	8.246	166	4321521	151.87 ppb	#	100
57) 2-Hexanone	8.357	43	1586316	200.44 ppb		94
58) Dibromochloromethane	8.543	129	3289033	149.90 ppb	#	97
59) 1,2-Dibromoethane	8.663	107	2282141	125.61 ppb		98
60) Chlorobenzene	9.155	112	8219154	115.29 ppb	#	88
61) 1,1,1,2-tetrachloroethane	9.244	131	3491867	146.98 ppb		97
62) Ethyl Benzene	9.250	91	12458767	115.43 ppb		91
63) p- & m-Xylenes	9.367	91	17474193m	211.74 ppb		
64) o-Xylene	9.804	91	10018319	119.37 ppb		97
65) Styrene	9.829	104	8705944	123.70 ppb		98
66) Bromoform	10.065	173	1825271	178.71 ppb	#	80
68) p-Ethyltoluene	10.772	105	12394788m	96.95 ppb		
69) Isopropylbenzene	10.196	105	12765988	92.33 ppb		94
71) 1,1,2,2-Tetrachloroethane	10.572	83	2234896	96.69 ppb	#	98
72) Bromobenzene	10.560	77	4310862	104.30 ppb		84
73) trans-1,4-Dichloro-2-b...	10.622	75	2389866	100.74 ppb		81
74) 1,2,3-Trichloropropane	10.619	110	758962	104.04 ppb		94
75) n-Propylbenzene	10.649	91	13805926	90.47 ppb		93
76) 2-Chlorotoluene	10.763	91	9707636	99.09 ppb		97
77) 4-Chlorotoluene	10.886	91	8842025	100.42 ppb		98
78) 1,3,5-Trimethylbenzene	10.839	105	10734061	96.35 ppb		93
79) tert-Butylbenzene	11.200	119	9735670	98.79 ppb		95
80) 1,2,4-Trimethylbenzene	11.262	105	10722858	96.13 ppb		93
81) sec-Butylbenzene	11.445	105	12277418	93.40 ppb		94
82) 1,3-Dichlorobenzene	11.601	146	6852613	115.64 ppb		96
83) p-Isopropyltoluene	11.604	119	12310103	102.74 ppb		95
84) 1,4-Dichlorobenzene	11.704	146	6620249	110.13 ppb		97
85) 1,2,3-Trimethylbenzene	11.740	105	9484667	89.36 ppb		94
86) p-Diethylbenzene	12.041	105	5622934	101.40 ppb	#	97
87) 1,2-Dichlorobenzene	12.127	146	5996998	111.84 ppb	#	88
88) n-Butylbenzene	12.071	91	9190345m	85.90 ppb		
89) 1,2-Dibromo-3-chloropr...	13.025	75	366982	125.49 ppb		87
90) 1,2,4,5-Tetramethylben...	12.928	119	9482697	112.13 ppb		96
91) 1,2,4-Trichlorobenzene	13.946	180	2825106	148.06 ppb		96
92) Hexachloro-1,3-Butadiene	14.113	225	764545	171.18 ppb		96
93) Naphthalene	14.233	128	6659835	133.90 ppb		99
94) 1,2,3-Trichlorobenzene	14.511	180	2207679	180.08 ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613534.D
Acq On : 15 Mar 2019 9:02 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL8
Misc : QBQV6031519A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 19 09:59:55 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613535.D
Acq On : 15 Mar 2019 9:34 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL9
Misc : QBQV6031519A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 19 10:52:23 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.070	70	299515	10.00	ppb		#-0.01
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	1288537	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.104	152	564993	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.772	65	361630	10.28	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 102.80%				
51) Toluene-d8 (SURR)	7.619	98	1649360	9.60	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 96.00%				
70) p-Bromofluorobenzene (...	10.393	95	546687	8.19	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 81.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.571	85	2571967m	135.26	ppb		
3) Chloromethane	1.774	50	3325013m	146.96	ppb		
4) Vinyl Chloride	1.882	62	3279607m	132.25	ppb		
5) Bromomethane	2.191	94	1945585m	130.08	ppb		
6) Chloroethane	2.316	64	2232359m	142.23	ppb		
7) Trichlorofluoromethane	2.595	101	5073070	168.90	ppb		91
8) Ethanol	2.876	45	459559m	3153.67	ppb		
9) Freon-113	3.157	101	3209798m	142.69	ppb		
10) 1,1-Dichloroethylene	3.168	61	4893167	158.62	ppb		85
11) Acrolein	3.093	56	441174	167.66	ppb	#	83
12) Acetone	3.262	43	1034302	237.53	ppb	#	96
13) Iodomethane	3.337	142	2761265m	138.85	ppb		
14) Methyl Acetate	3.596	43	2176740	230.96	ppb		98
15) Carbon disulfide	3.396	76	7753990	144.75	ppb		100
16) tert-Butyl Alcohol (TBA)	3.841	59	402920	187.88	ppb	#	1
17) Methylene Chloride	3.702	49	4528428	165.13	ppb	#	81
18) Acrylonitrile	3.975	53	1000072	149.90	ppb	#	45
19) trans-1,2-Dichloroethy...	3.966	61	4767950	156.41	ppb		94
20) tert-Butyl Methyl Ethe...	3.947	73	9143083	150.27	ppb	#	99
21) 1,1-Dichloroethane	4.400	63	5923810	143.83	ppb		99
22) Vinyl Acetate	4.436	43	12259218	225.28	ppb	#	100
23) Diisopropyl ether (DIPE)	4.425	45	13405831	194.76	ppb	#	97
24) Ethyl-tert-Butyl ether...	4.781	59	11888363	153.39	ppb	#	96
25) cis-1,2-Dichloroethylene	4.973	61	5362641	145.14	ppb		90
26) 2-Butanone	4.993	72	327157	152.67	ppb	#	95
27) 2,2-Dichloropropane	4.951	77	3028952m	97.62	ppb		
28) Tetrahydrofuran	5.252	42	905651	241.40	ppb	#	41
29) Bromochloromethane	5.216	49	3016114	172.60	ppb	#	76
30) Chloroform	5.288	83	5885164	140.82	ppb	#	84
31) 1,1,1-Trichloroethane	5.438	97	6241113	170.70	ppb	#	82
32) Cyclohexane	5.471	56	6931454	164.14	ppb		89
33) 1,1-Dichloropropylene	5.597	75	4852148	150.96	ppb		76
35) Carbon Tetrachloride	5.591	117	6205440	193.89	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.816	59	3174886	1677.44	ppb	#	82
37) 1,2-Dichloroethane	5.847	62	4339644	163.52	ppb	#	98
38) Benzene	5.803	78	13888585	133.93	ppb		95
39) tert-Amyl methyl ether...	5.883	73	10184600	147.68	ppb	#	99
41) Trichloroethylene	6.426	95	4282832	168.53	ppb		89
42) Methyl Cyclohexane	6.582	83	6679355	159.88	ppb		86
43) Methyl Methacrylate	6.746	69	2159178	183.86	ppb	#	28
44) Dibromomethane	6.793	93	1964341	159.75	ppb		97
45) Bromodichloromethane	6.938	83	5081712	182.89	ppb		95
46) 1,2-Dichloropropane	6.660	63	3857657	172.86	ppb	#	83
47) 1,4-Dioxane	6.801	88	1450950	8259.20	ppb	#	86
48) 2-Chloroethyl vinyl ether	7.216	63	22626m	2.98	ppb		
49) cis-1,3-Dichloropropene	7.369	75	5693039	168.56	ppb		89
50) 4-Methyl-2-Pentanone	7.505	43	3111595	258.98	ppb	#	91
52) Toluene	7.686	91	15714626	144.72	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613535.D
Acq On : 15 Mar 2019 9:34 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL9
Misc : QBQV6031519A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 19 10:52:23 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration

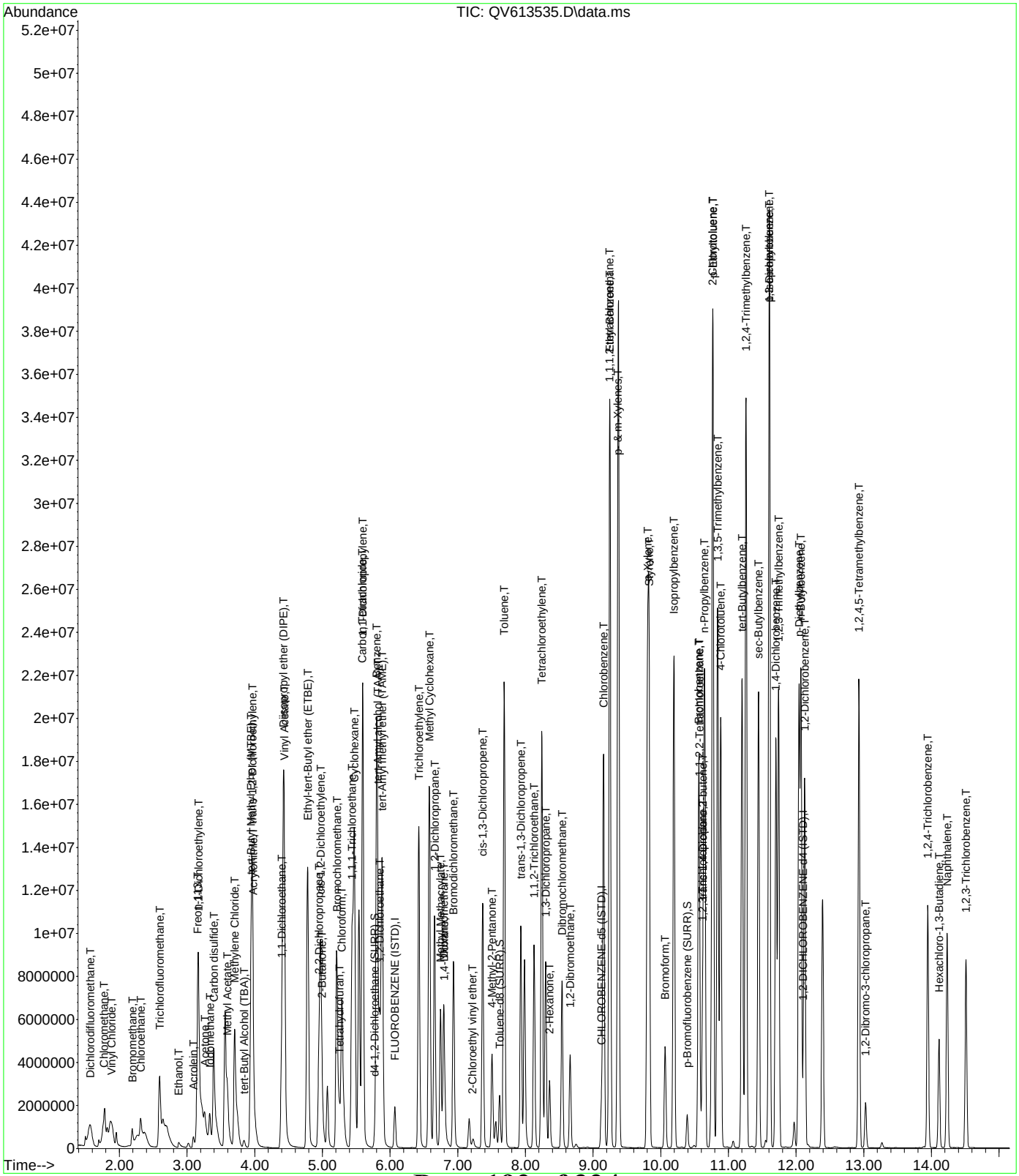
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.934	75	4924768	177.46	ppb		97
54) 1,1,2-Trichloroethane	8.129	97	3068600	159.92	ppb		89
55) 1,3-Dichloropropane	8.301	76	4601852	159.26	ppb		93
56) Tetrachloroethylene	8.243	166	5861519	206.37	ppb	#	100
57) 2-Hexanone	8.357	43	2104000	266.33	ppb		94
58) Dibromochloromethane	8.543	129	4378830	199.93	ppb	#	96
59) 1,2-Dibromoethane	8.660	107	3014346	166.21	ppb		98
60) Chlorobenzene	9.155	112	10795499	151.70	ppb	#	88
61) 1,1,1,2-tetrachloroethane	9.244	131	4644426	195.85	ppb		97
62) Ethyl Benzene	9.247	91	15703121	145.74	ppb		87
63) p- & m-Xylenes	9.364	91	19733228m	239.54	ppb		
64) o-Xylene	9.806	91	13113924	156.54	ppb		97
65) Styrene	9.828	104	11485445	163.48	ppb		97
66) Bromoform	10.065	173	2436599	239.00	ppb	#	80
68) p-Ethyltoluene	10.772	105	16228860	122.12	ppb	#	56
69) Isopropylbenzene	10.193	105	16267316	113.19	ppb		93
71) 1,1,2,2-Tetrachloroethane	10.571	83	2983894	124.20	ppb	#	98
72) Bromobenzene	10.560	77	5758515	134.03	ppb		83
73) trans-1,4-Dichloro-2-b...	10.621	75	3193075	129.48	ppb		80
74) 1,2,3-Trichloropropane	10.619	110	1021043	134.65	ppb		93
75) n-Propylbenzene	10.644	91	17122407m	107.94	ppb		
76) 2-Chlorotoluene	10.766	91	12864903	126.33	ppb		97
77) 4-Chlorotoluene	10.886	91	11778951	128.69	ppb		97
78) 1,3,5-Trimethylbenzene	10.841	105	14031432	121.17	ppb		91
79) tert-Butylbenzene	11.203	119	12989099	126.81	ppb		95
80) 1,2,4-Trimethylbenzene	11.261	105	14148013	122.03	ppb		92
81) sec-Butylbenzene	11.442	105	15844813	115.96	ppb		93
82) 1,3-Dichlorobenzene	11.604	146	9407979	152.74	ppb		96
83) p-Isopropyltoluene	11.604	119	15606508	125.31	ppb		92
84) 1,4-Dichlorobenzene	11.701	146	9068274	145.13	ppb		96
85) 1,2,3-Trimethylbenzene	11.743	105	12609160	113.75	ppb		92
86) p-Diethylbenzene	12.043	105	7643042	132.60	ppb	#	95
87) 1,2-Dichlorobenzene	12.127	146	8167006	146.53	ppb	#	88
88) n-Butylbenzene	12.071	91	12321758m	110.79	ppb		
89) 1,2-Dibromo-3-chloropr...	13.025	75	496915	163.47	ppb		87
90) 1,2,4,5-Tetramethylben...	12.928	119	12667494	144.11	ppb		95
91) 1,2,4-Trichlorobenzene	13.946	180	3896234	196.45	ppb		96
92) Hexachloro-1,3-Butadiene	14.113	225	1017441	219.15	ppb		96
93) Naphthalene	14.233	128	9084882	175.72	ppb		100
94) 1,2,3-Trichlorobenzene	14.511	180	3063893	240.43	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613535.D
Acq On : 15 Mar 2019 9:34 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-CAL9
Misc : QBQV6031519A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 19 10:52:23 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO047.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Dec 20 13:28:37 2018
Response via : Initial Calibration



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19C1266

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Calibration: YC90007 **Laboratory ID:** Y9C1923-SCV1

Sequence: Y9C1923 **Standard ID:** Y19C022

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	9.92	-0.8	30.00
1,1,1-Trichloroethane	10.0	10.8	8.0	30.00
1,1,2,2-Tetrachloroethane	10.0	10.7	6.9	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11.1	11.2	30.00
1,1,2-Trichloroethane	10.0	9.94	-0.6	30.00
1,1-Dichloroethane	10.0	10.6	6.2	30.00
1,1-Dichloroethylene	10.0	10.2	1.7	30.00
1,2,3-Trichlorobenzene	10.0	10.8	8.4	30.00
1,2,3-Trichloropropane	10.0	10.3	3.2	30.00
1,2,4-Trichlorobenzene	10.0	10.5	5.2	30.00
1,2,4-Trimethylbenzene	10.0	10.0	0.2	30.00
1,2-Dibromo-3-chloropropane	10.0	10.5	4.8	30.00
1,2-Dibromoethane	10.0	10.4	3.9	30.00
1,2-Dichlorobenzene	10.0	10.1	1.0	30.00
1,2-Dichloroethane	10.0	10.6	5.7	30.00
1,2-Dichloropropane	10.0	9.71	-2.9	30.00
1,3,5-Trimethylbenzene	10.0	10.2	1.5	30.00
1,3-Dichlorobenzene	10.0	9.86	-1.4	30.00
1,4-Dichlorobenzene	10.0	9.83	-1.7	30.00
1,4-Dioxane	210	50.4	-76.0 *	30.00
2-Butanone	10.0	10.4	3.5	30.00
2-Hexanone	10.0	10.1	1.3	30.00
4-Methyl-2-pentanone	10.0	10.1	1.1	30.00
Acetone	10.0	8.68	-13.2	30.00
Acrolein	10.0	8.14	-18.6	30.00
Acrylonitrile	10.0	9.86	-1.4	30.00
Benzene	10.0	10.6	5.7	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19C1266

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Calibration: YC90007 **Laboratory ID:** Y9C1923-SCV1

Sequence: Y9C1923 **Standard ID:** Y19C022

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
Bromochloromethane	10.0	10.4	4.0	30.00
Bromodichloromethane	10.0	10.1	0.7	30.00
Bromoform	10.0	9.86	-1.4	30.00
Bromomethane	10.0	11.5	15.2	30.00
Carbon disulfide	10.0	11.8	18.2	30.00
Carbon tetrachloride	10.0	10.2	2.4	30.00
Chlorobenzene	10.0	10.1	1.0	30.00
Chloroethane	10.0	10.3	3.0	30.00
Chloroform	10.0	10.5	5.2	30.00
Chloromethane	10.0	10.2	2.4	30.00
cis-1,2-Dichloroethylene	10.0	10.4	3.8	30.00
cis-1,3-Dichloropropylene	10.0	9.78	-2.2	30.00
Cyclohexane	10.0	10.3	2.9	30.00
Dibromochloromethane	10.0	10.2	1.7	30.00
Dibromomethane	10.0	10.1	1.1	30.00
Dichlorodifluoromethane	10.0	10.1	0.8	30.00
Ethyl Benzene	10.0	10.5	4.8	30.00
Hexachlorobutadiene	10.0	12.7	26.7	30.00
Isopropylbenzene	10.0	10.2	2.0	30.00
Methyl acetate	10.0	10.1	1.4	30.00
Methyl tert-butyl ether (MTBE)	10.0	10.7	6.9	30.00
Methylcyclohexane	10.0	10.0	0.3	30.00
Methylene chloride	10.0	10.7	7.4	30.00
n-Butylbenzene	10.0	11.1	10.9	30.00
n-Propylbenzene	10.0	10.2	2.4	30.00
o-Xylene	10.0	10.3	3.1	30.00
p- & m- Xylenes	20.0	20.5	2.4	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19C1266

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Calibration: YC90007 **Laboratory ID:** Y9C1923-SCV1

Sequence: Y9C1923 **Standard ID:** Y19C022

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	10.5	4.6	30.00
sec-Butylbenzene	10.0	10.8	8.4	30.00
Styrene	10.0	10.1	1.1	30.00
tert-Butyl alcohol (TBA)	50.0	45.8	-8.4	30.00
tert-Butylbenzene	10.0	10.3	3.4	30.00
Tetrachloroethylene	10.0	8.61	-13.9	30.00
Toluene	10.0	10.6	6.1	30.00
trans-1,2-Dichloroethylene	10.0	10.3	2.8	30.00
trans-1,3-Dichloropropylene	10.0	9.79	-2.1	30.00
trans-1,4-dichloro-2-butene	10.0	10.4	3.9	30.00
Trichloroethylene	10.0	9.95	-0.5	30.00
Trichlorofluoromethane	10.0	9.52	-4.8	30.00
Vinyl Chloride	10.0	10.1	0.8	30.00

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613537.D
Acq On : 15 Mar 2019 10:39 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-SCV1
Misc : QBQV6031519A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 19 11:02:28 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.073	70	286276	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.122	117	1321182	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	517263	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.769	65	368232	10.17	ppb		-0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 101.70%				
51) Toluene-d8 (SURR)	7.620	98	1621221	9.82	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 98.20%				
70) p-Bromofluorobenzene (...	10.391	95	567501	10.18	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 101.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.565	85	151882m	10.08	ppb		
3) Chloromethane	1.771	50	172798m	10.24	ppb		
4) Vinyl Chloride	1.821	62	198926m	10.08	ppb		
5) Bromomethane	2.197	94	60119m	11.52	ppb		
6) Chloroethane	2.317	64	143170m	10.30	ppb		
7) Trichlorofluoromethane	2.595	101	274201	9.52	ppb		98
9) Freon-113	3.157	101	212171	11.12	ppb		96
10) 1,1-Dichloroethylene	3.168	61	293538	10.17	ppb		85
11) Acrolein	3.112	56	18547m	8.14	ppb		
12) Acetone	3.282	43	52870m	8.68	ppb		
13) Iodomethane	3.335	142	136153m	10.39	ppb		
14) Methyl Acetate	3.605	43	118644	10.14	ppb		99
15) Carbon disulfide	3.396	76	527580	11.82	ppb		100
16) tert-Butyl Alcohol (TBA)	3.844	59	106648	45.78	ppb	#	1
17) Methylene Chloride	3.705	49	301630	10.74	ppb		82
18) Acrylonitrile	3.992	53	49265m	9.86	ppb		
19) trans-1,2-Dichloroethy...	3.969	61	302374	10.28	ppb	#	86
20) tert-Butyl Methyl Ethe...	3.955	73	597233	10.69	ppb	#	88
21) 1,1-Dichloroethane	4.398	63	395647	10.62	ppb		99
22) Vinyl Acetate	4.442	43	813159m	11.83	ppb		
23) Diisopropyl ether (DIPE)	4.428	45	880022	10.85	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.787	59	779159	10.68	ppb	#	85
25) cis-1,2-Dichloroethylene	4.974	61	357394	10.38	ppb		93
26) 2-Butanone	5.007	72	19475m	10.35	ppb		
27) 2,2-Dichloropropane	4.951	77	265855	9.16	ppb	#	65
28) Tetrahydrofuran	5.269	42	51317	10.42	ppb	#	38
29) Bromochloromethane	5.216	49	189849	10.40	ppb	#	78
30) Chloroform	5.285	83	391839	10.52	ppb	#	84
31) 1,1,1-Trichloroethane	5.438	97	381422	10.80	ppb	#	82
32) Cyclohexane	5.469	56	399071	10.29	ppb		89
33) 1,1-Dichloropropylene	5.597	75	290084	10.37	ppb		83
35) Carbon Tetrachloride	5.591	117	340796	10.24	ppb	#	55
36) tert-Amyl alcohol (TAA)	5.822	59	189238	105.10	ppb	#	83
37) 1,2-Dichloroethane	5.845	62	279232	10.57	ppb		100
38) Benzene	5.803	78	911616	10.57	ppb		93
39) tert-Amyl methyl ether...	5.881	73	660991	10.67	ppb	#	100
41) Trichloroethylene	6.426	95	245296	9.95	ppb		92
42) Methyl Cyclohexane	6.582	83	388201	10.03	ppb		86
43) Methyl Methacrylate	6.749	69	132808	10.29	ppb	#	28
44) Dibromomethane	6.793	93	126535	10.11	ppb		97
45) Bromodichloromethane	6.938	83	308695	10.07	ppb		95
46) 1,2-Dichloropropane	6.657	63	233551	9.71	ppb	#	99
47) 1,4-Dioxane	6.807	88	23656m	50.43	ppb		
48) 2-Chloroethyl vinyl ether	7.227	63	4312	20.82	ppb	#	92
49) cis-1,3-Dichloropropene	7.372	75	351981	9.78	ppb		89
50) 4-Methyl-2-Pentanone	7.508	43	199348	10.11	ppb	#	87
52) Toluene	7.686	91	1059233	10.61	ppb		100
53) trans-1,3-Dichloropropene	7.934	75	300718	9.79	ppb		98

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613537.D
Acq On : 15 Mar 2019 10:39 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-SCV1
Misc : QBQV6031519A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 19 11:02:28 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

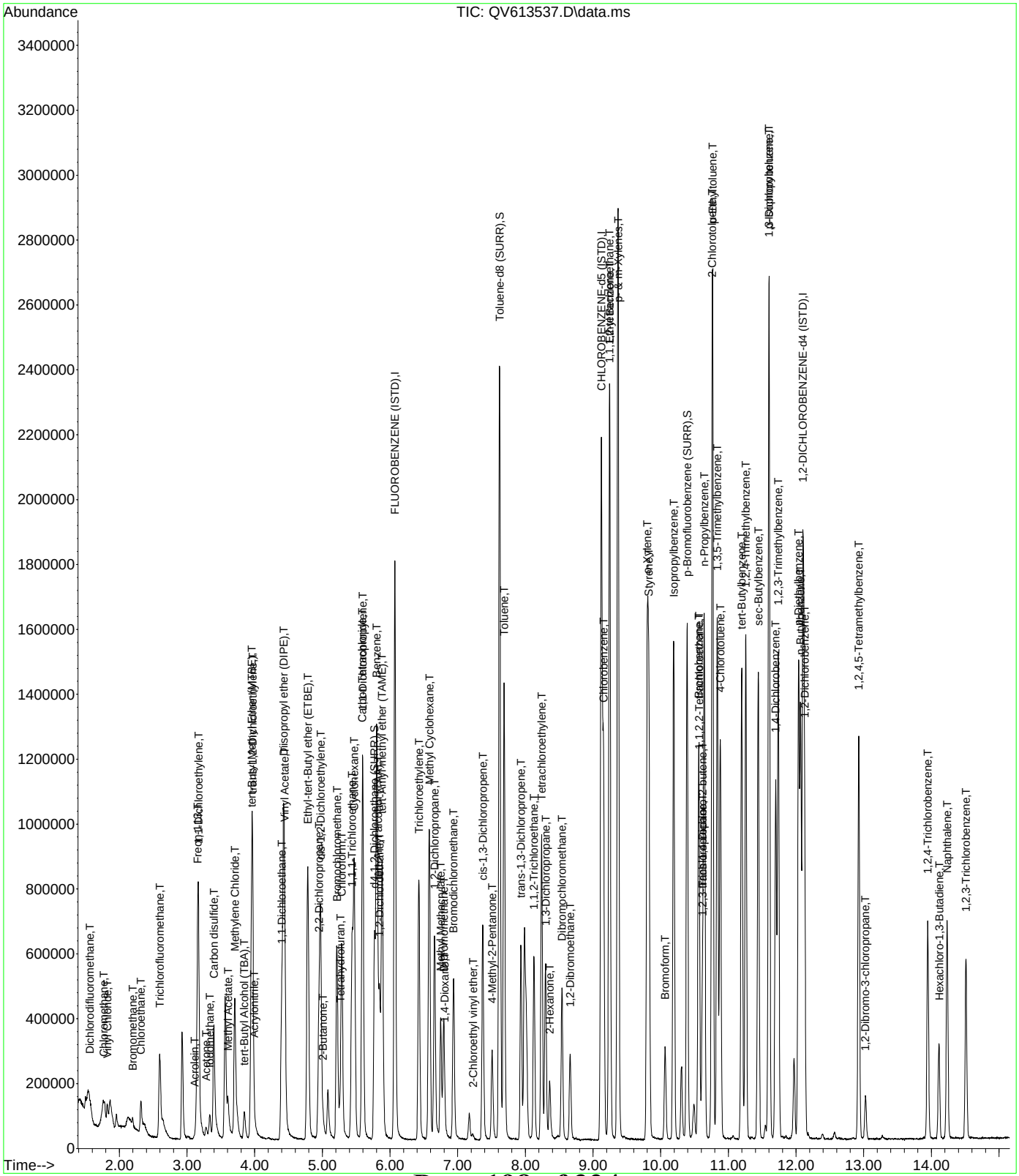
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.126	97	185830	9.94	ppb		90
55) 1,3-Dichloropropane	8.301	76	301209	10.16	ppb		93
56) Tetrachloroethylene	8.243	166	287361	8.61	ppb	#	77
57) 2-Hexanone	8.360	43	131713	10.13	ppb		95
58) Dibromochloromethane	8.541	129	270383	10.17	ppb		97
59) 1,2-Dibromoethane	8.660	107	196272	10.39	ppb		97
60) Chlorobenzene	9.155	112	703284	10.10	ppb		93
61) 1,1,1,2-tetrachloroethane	9.242	131	282968	9.92	ppb		97
62) Ethyl Benzene	9.247	91	1149085	10.48	ppb		97
63) p- & m-Xylenes	9.370	91	1765129	20.47	ppb		98
64) o-Xylene	9.801	91	901287	10.31	ppb		99
65) Styrene	9.823	104	717914	10.11	ppb		97
66) Bromoform	10.065	173	147051	9.86	ppb		99
68) p-Ethyltoluene	10.766	105	1107825	10.71	ppb	#	83
69) Isopropylbenzene	10.193	105	1134504	10.20	ppb		96
71) 1,1,2,2-Tetrachloroethane	10.569	83	205189	10.69	ppb	#	99
72) Bromobenzene	10.560	77	378752	10.28	ppb		88
73) trans-1,4-Dichloro-2-b...	10.619	75	208968	10.39	ppb		82
74) 1,2,3-Trichloropropane	10.616	110	66189	10.32	ppb		95
75) n-Propylbenzene	10.644	91	1262161	10.24	ppb		96
76) 2-Chlorotoluene	10.761	91	836036	10.20	ppb		98
77) 4-Chlorotoluene	10.880	91	752999	10.12	ppb		99
78) 1,3,5-Trimethylbenzene	10.836	105	921016	10.15	ppb		96
79) tert-Butylbenzene	11.195	119	832896	10.34	ppb		96
80) 1,2,4-Trimethylbenzene	11.259	105	900889	10.02	ppb		97
81) sec-Butylbenzene	11.442	105	1110518	10.84	ppb		96
82) 1,3-Dichlorobenzene	11.598	146	533522	9.86	ppb		98
83) p-Isopropyltoluene	11.601	119	1024346	10.46	ppb		98
84) 1,4-Dichlorobenzene	11.698	146	523165	9.83	ppb		97
85) 1,2,3-Trimethylbenzene	11.737	105	910959	11.85	ppb		96
86) p-Diethylbenzene	12.035	105	506123	11.66	ppb	#	91
87) 1,2-Dichlorobenzene	12.127	146	489950	10.10	ppb		100
88) n-Butylbenzene	12.066	91	869302m	11.09	ppb		
89) 1,2-Dibromo-3-chloropr...	13.023	75	32480	10.48	ppb		92
90) 1,2,4,5-Tetramethylben...	12.925	119	764816	10.77	ppb		97
91) 1,2,4-Trichlorobenzene	13.946	180	236302	10.52	ppb		95
92) Hexachloro-1,3-Butadiene	14.116	225	62018	12.67	ppb		98
93) Naphthalene	14.233	128	625539	11.49	ppb		99
94) 1,2,3-Trichlorobenzene	14.511	180	195222	10.84	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613537.D
Acq On : 15 Mar 2019 10:39 pm
InstName : QVOA6
Operator : AS
Sample : SEQ-SCV1
Misc : QBQV6031519A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 19 11:02:28 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YC90007
Lab File ID:	QV613933.D	Calibration Date:	03/15/19 16:58
Sequence:	Y9D0415	Injection Date:	04/03/19
Lab Sample ID:	Y9D0415-CCV1	Injection Time:	23:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	9.11	0.2158148	0.1965047		-8.9	20	
1,1,1-Trichloroethane	A	10.0	9.85	1.233762	1.215111	0.1	-1.5	20	
1,1,2,2-Tetrachloroethane	A	10.0	11.1	0.3709147	0.4115318	0.3	11.0	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (	A	10.0	8.85	0.6667549	0.5903051	0.1	-11.5	20	
1,1,2-Trichloroethane	A	10.0	9.61	0.1415695	0.1359964	0.1	-3.9	20	
1,1-Dichloroethane	A	10.0	10.5	1.301575	1.366351	0.2	5.0	20	
1,1-Dichloroethylene	A	10.0	9.84	1.007754	0.991446	0.1	-1.6	20	
1,2,3-Trichlorobenzene	A	10.0	8.28	0.3480915	0.2881675		-17.2	20	
1,2,3-Trichloropropane	A	10.0	11.2	0.1283	0.1379388		7.5	20	
1,2,4-Trichlorobenzene	A	10.0	8.90	0.4341247	0.3862428	0.2	-11.0	20	
1,2,4-Trimethylbenzene	A	10.0	11.4	1.737689	1.973069		13.5	20	
1,2-Dibromo-3-chloropropane	Q	10.0	9.53	5.991724E-02	5.707596E-02	0.05	-4.7	20	
1,2-Dibromoethane	A	10.0	9.54	0.1429986	0.1363988	0.1	-4.6	20	
1,2-Dichlorobenzene	A	10.0	10.7	0.9380641	0.9997302	0.4	6.6	20	
1,2-Dichloroethane	A	10.0	11.0	0.9225159	1.014655	0.1	10.0	20	
1,2-Dichloropropane	A	10.0	9.78	0.1821065	0.1780879	0.1	-2.2	20	
1,3,5-Trimethylbenzene	A	10.0	11.4	1.754613	2.00058		14.0	20	
1,3-Dichlorobenzene	A	10.0	10.7	1.045755	1.119684	0.6	7.1	20	
1,4-Dichlorobenzene	A	10.0	10.6	1.028567	1.095667	0.5	6.5	20	
1,4-Dioxane	A	200	212	1.77515E-03	3.769069E-03		112	20	*
2-Butanone	A	10.0	9.21	0.0657068	6.050816E-02	0.1	-7.9	20	
2-Hexanone	A	10.0	9.09	9.842939E-02	8.947302E-02	0.1	-9.1	20	
4-Methyl-2-pentanone	A	10.0	9.35	0.149303	0.1396291	0.1	-6.5	20	
Acetone	Q	10.0	9.53	0.2201743	0.2097315	0.1	-4.7	20	
Acrolein	Q	10.0	6.69	4.073406E-02	5.258399E-02		-33.1	20	*
Acrylonitrile	A	10.0	10.8	0.1815608	0.188321		3.7	20	
Benzene	A	10.0	9.91	3.011808	2.985701	0.5	-0.9	20	
Bromochloromethane	A	10.0	10.9	0.6377761	0.6949143		9.0	20	
Bromodichloromethane	A	10.0	9.55	0.2320724	0.2216745	0.2	-4.5	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YC90007
Lab File ID:	QV613933.D	Calibration Date:	03/15/19 16:58
Sequence:	Y9D0415	Injection Date:	04/03/19
Lab Sample ID:	Y9D0415-CCV1	Injection Time:	23:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bromoform	A	10.0	6.85	0.1129297	0.0773011	0.1 *	-31.5	20 *
Bromomethane	Q	10.0	6.63	0.2215795	8.953806E-02	0.1	-33.7	20 *
Carbon disulfide	Q	10.0	9.71	1.73352	1.52077	0.1	-2.9	20
Carbon tetrachloride	A	10.0	9.21	1.162549	1.070393	0.1	-7.9	20
Chlorobenzene	A	10.0	9.77	0.5269114	0.5147864	0.5	-2.3	20
Chloroethane	A	10.0	8.65	0.4856905	0.4203468	0.1	-13.5	20
Chloroform	A	10.0	10.3	1.301333	1.341435	0.2	3.1	20
Chloromethane	Q	10.0	10.2	0.6519931	0.6024758	0.1	2.1	20
cis-1,2-Dichloroethylene	A	10.0	10.3	1.202152	1.237786	0.1	3.0	20
cis-1,3-Dichloropropylene	A	10.0	9.31	0.2722989	0.2535893	0.2	-6.9	20
Cyclohexane	A	10.0	9.40	1.354935	1.273445	0.1	-6.0	20
Dibromochloromethane	A	10.0	8.65	0.2011496	0.1740339	0.1	-13.5	20
Dibromomethane	A	10.0	10.1	9.475797E-02	9.537112E-02		0.6	20
Dichlorodifluoromethane	Q	10.0	9.85	0.6125287	0.5181951	0.1	-1.5	20
Ethyl Benzene	A	10.0	10.2	0.8297907	0.8419585	0.1	1.5	20
Hexachlorobutadiene	Q	10.0	6.88	0.1073478	7.390866E-02		-31.2	20 *
Isopropylbenzene	A	10.0	11.9	2.149977	2.554796	0.1	18.8	20
Methyl acetate	A	10.0	9.44	0.4085746	0.3855364	0.1	-5.6	20
Methyl tert-butyl ether (MTBE)	A	10.0	10.0	1.951446	1.953263	0.1	0.09	20
Methylcyclohexane	A	10.0	8.75	0.2930795	0.2564328	0.1	-12.5	20
Methylene chloride	A	10.0	10.6	0.9814935	1.042267	0.1	6.2	20
n-Butylbenzene	A	10.0	12.1	1.515339	1.832442		20.9	20 *
n-Propylbenzene	Q	10.0	11.8	2.357855	2.794527		18.5	20
o-Xylene	A	10.0	9.92	0.6619353	0.6567854	0.3	-0.8	20
p- & m- Xylenes	A	20.0	21.0	0.6251761	0.6551447	0.1	4.8	20
p-Isopropyltoluene	A	10.0	11.0	1.893514	2.089073		10.3	20
sec-Butylbenzene	A	10.0	11.3	1.979689	2.22892		12.6	20
Styrene	A	10.0	9.75	0.5373124	0.5241415	0.3	-2.5	20
tert-Butyl alcohol (TBA)	Q	10.0	8.73	8.480902E-02	6.516107E-02		-12.7	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YC90007
Lab File ID:	QV613933.D	Calibration Date:	03/15/19 16:58
Sequence:	Y9D0415	Injection Date:	04/03/19
Lab Sample ID:	Y9D0415-CCV1	Injection Time:	23:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
tert-Butylbenzene	A	10.0	11.4	1.557162	1.774747		14.0	20
Tetrachloroethylene	A	10.0	8.38	0.2527395	0.2117635	0.2	-16.2	20
Toluene	A	10.0	9.80	0.8061672	0.7896538	0.4	-2.0	20
trans-1,2-Dichloroethylene	A	10.0	9.97	1.02774	1.024555	0.1	-0.3	20
trans-1,3-Dichloropropylene	A	10.0	9.25	0.2323949	0.214956	0.1	-7.5	20
trans-1,4-dichloro-2-butene	A	10.0	10.5	0.3889014	0.4072586		4.7	20
Trichloroethylene	A	10.0	9.62	0.1865519	0.1794852	0.2 *	-3.8	20
Trichlorofluoromethane	A	10.0	8.97	1.006337	0.9030762	0.1	-10.3	20
Vinyl Chloride	A	10.0	9.33	0.6895009	0.6429957	0.1	-6.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613933.D
Acq On : 3 Apr 2019 11:09 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6040319A
ALS Vial : 82 Sample Multiplier: 1

Quant Time: Apr 04 06:48:26 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.075	70	196866	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.122	117	899612	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	300249	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.772	65	273997	11.01	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 110.10%				
51) Toluene-d8 (SURR)	7.620	98	1152485	10.25	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 102.50%				
70) p-Bromofluorobenzene (...	10.391	95	356230	11.00	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 110.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.504	85	102015m	9.85	ppb		
3) Chloromethane	1.755	50	118607m	10.21	ppb		
4) Vinyl Chloride	1.827	62	126584m	9.33	ppb		
5) Bromomethane	2.197	94	17627m	6.63	ppb		
6) Chloroethane	2.325	64	82752m	8.65	ppb		
7) Trichlorofluoromethane	2.603	101	177785m	8.97	ppb		
8) Ethanol	2.940	45	16052m	464.16	ppb		
9) Freon-113	3.162	101	116211	8.85	ppb		98
10) 1,1-Dichloroethylene	3.176	61	195182	9.84	ppb		94
11) Acrolein	3.126	56	10352m	6.69	ppb		
12) Acetone	3.290	43	41289m	9.53	ppb		
13) Iodomethane	3.346	142	70059m	8.25	ppb		
14) Methyl Acetate	3.613	43	75899	9.44	ppb		99
15) Carbon disulfide	3.405	76	299388	9.71	ppb		100
16) tert-Butyl Alcohol (TBA)	3.861	59	12828	8.73	ppb	#	1
17) Methylene Chloride	3.713	49	205187	10.62	ppb		89
18) Acrylonitrile	3.994	53	37074m	10.75	ppb		
19) trans-1,2-Dichloroethy...	3.972	61	201700	9.97	ppb		96
20) tert-Butyl Methyl Ethe...	3.961	73	384531	10.01	ppb	#	88
21) 1,1-Dichloroethane	4.403	63	268988	10.50	ppb		99
22) Vinyl Acetate	4.445	43	492921m	10.43	ppb		
23) Diisopropyl ether (DIPE)	4.434	45	583054	10.45	ppb	#	98
24) Ethyl-tert-Butyl ether...	4.790	59	525460	10.47	ppb	#	85
25) cis-1,2-Dichloroethylene	4.979	61	243678	10.30	ppb		94
26) 2-Butanone	5.013	72	11912m	9.21	ppb		
27) 2,2-Dichloropropane	4.957	77	187561	9.40	ppb	#	65
28) Tetrahydrofuran	5.274	42	30759	9.15	ppb	#	41
29) Bromochloromethane	5.219	49	136805	10.90	ppb	#	85
30) Chloroform	5.288	83	264083	10.31	ppb	#	98
31) 1,1,1-Trichloroethane	5.444	97	239214	9.85	ppb		97
32) Cyclohexane	5.475	56	250698	9.40	ppb		92
33) 1,1-Dichloropropylene	5.600	75	184130	9.58	ppb		88
35) Carbon Tetrachloride	5.597	117	210724	9.21	ppb	#	55
36) tert-Amyl alcohol (TAA)	5.822	59	118086	95.37	ppb		97
37) 1,2-Dichloroethane	5.850	62	199751	11.00	ppb	#	98
38) Benzene	5.806	78	587783	9.91	ppb		98
39) tert-Amyl methyl ether...	5.886	73	427257	10.03	ppb	#	100
41) Trichloroethylene	6.429	95	161467	9.62	ppb		94
42) Methyl Cyclohexane	6.582	83	230690	8.75	ppb		90
43) Methyl Methacrylate	6.752	69	79209	9.02	ppb	#	28
44) Dibromomethane	6.793	93	85797	10.06	ppb		96
45) Bromodichloromethane	6.944	83	199421	9.55	ppb		97
46) 1,2-Dichloropropane	6.660	63	160210	9.78	ppb	#	99
47) 1,4-Dioxane	6.802	88	67814m	212.32	ppb		
48) 2-Chloroethyl vinyl ether	7.255	63	1272m	8.26	ppb		
49) cis-1,3-Dichloropropene	7.372	75	228132	9.31	ppb		94
50) 4-Methyl-2-Pentanone	7.508	43	125612	9.35	ppb	#	90
52) Toluene	7.689	91	710382	9.80	ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613933.D
Acq On : 3 Apr 2019 11:09 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6040319A
ALS Vial : 82 Sample Multiplier: 1

Quant Time: Apr 04 06:48:26 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

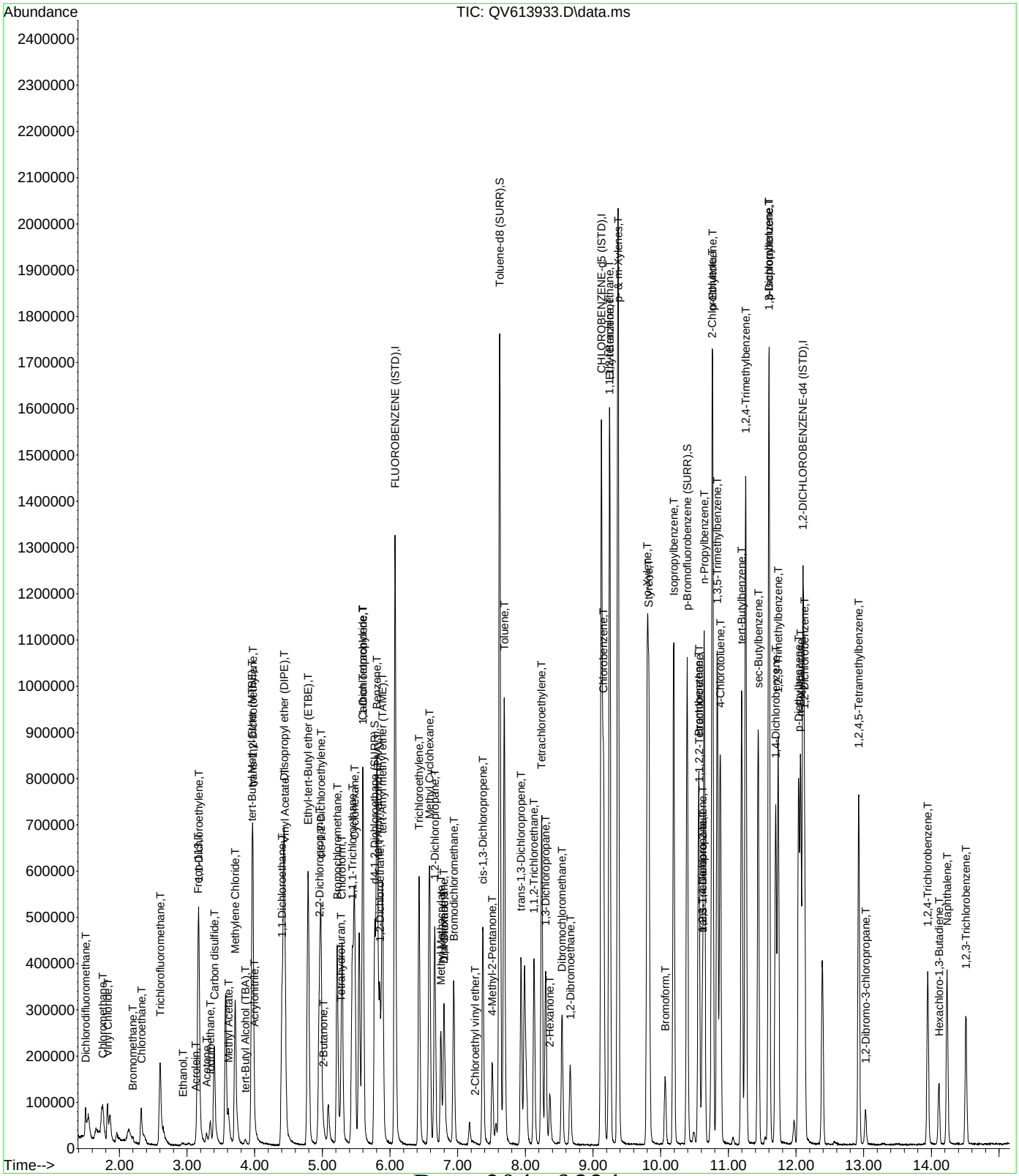
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.934	75	193377	9.25	ppb		99
54) 1,1,2-Trichloroethane	8.126	97	122344	9.61	ppb		93
55) 1,3-Dichloropropane	8.296	76	198335	9.82	ppb		94
56) Tetrachloroethylene	8.240	166	190505	8.38	ppb	#	100
57) 2-Hexanone	8.360	43	80491	9.09	ppb		96
58) Dibromochloromethane	8.538	129	156563	8.65	ppb		99
59) 1,2-Dibromoethane	8.666	107	122706	9.54	ppb		97
60) Chlorobenzene	9.153	112	463108	9.77	ppb		95
61) 1,1,1,2-tetrachloroethane	9.242	131	176778	9.11	ppb		98
62) Ethyl Benzene	9.247	91	757436	10.15	ppb		98
63) p- & m-Xylenes	9.370	91	1178752	20.96	ppb		98
64) o-Xylene	9.801	91	590852	9.92	ppb		99
65) Styrene	9.823	104	471524	9.75	ppb	#	78
66) Bromoform	10.068	173	69541	6.85	ppb		99
68) p-Ethyltoluene	10.766	105	689203	11.47	ppb	#	83
69) Isopropylbenzene	10.193	105	767075	11.88	ppb		97
71) 1,1,2,2-Tetrachloroethane	10.569	83	123562	11.10	ppb	#	69
72) Bromobenzene	10.560	77	242947	11.36	ppb		95
73) trans-1,4-Dichloro-2-b...	10.616	75	122279	10.47	ppb	#	61
74) 1,2,3-Trichloropropane	10.616	110	41416	11.15	ppb	#	44
75) n-Propylbenzene	10.644	91	839054	11.85	ppb		96
76) 2-Chlorotoluene	10.761	91	554072	11.65	ppb		98
77) 4-Chlorotoluene	10.880	91	498802	11.55	ppb		99
78) 1,3,5-Trimethylbenzene	10.836	105	600672	11.40	ppb		97
79) tert-Butylbenzene	11.195	119	532866	11.40	ppb		97
80) 1,2,4-Trimethylbenzene	11.259	105	592412	11.35	ppb		97
81) sec-Butylbenzene	11.442	105	669231	11.26	ppb		97
82) 1,3-Dichlorobenzene	11.598	146	336184	10.71	ppb		98
83) p-Isopropyltoluene	11.601	119	627242	11.03	ppb		98
84) 1,4-Dichlorobenzene	11.701	146	328973	10.65	ppb		98
85) 1,2,3-Trimethylbenzene	11.737	105	519871	11.65	ppb		97
86) p-Diethylbenzene	12.038	105	268048	10.64	ppb	#	98
87) 1,2-Dichlorobenzene	12.124	146	300168	10.66	ppb	#	73
88) n-Butylbenzene	12.068	91	550189	12.09	ppb		95
89) 1,2-Dibromo-3-chloropr...	13.028	75	17137	9.53	ppb	#	69
90) 1,2,4,5-Tetramethylben...	12.925	119	443438	10.76	ppb		99
91) 1,2,4-Trichlorobenzene	13.944	180	115969	8.90	ppb		96
92) Hexachloro-1,3-Butadiene	14.113	225	22191	6.88	ppb	#	91
93) Naphthalene	14.233	128	328807	8.89	ppb		99
94) 1,2,3-Trichlorobenzene	14.508	180	86522	8.28	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613933.D
Acq On : 3 Apr 2019 11:09 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6040319A
ALS Vial : 82 Sample Multiplier: 1

Quant Time: Apr 04 06:48:26 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YC90007
Lab File ID:	QV614014.D	Calibration Date:	03/15/19 16:58
Sequence:	Y9D0501	Injection Date:	04/05/19
Lab Sample ID:	Y9D0501-CCV1	Injection Time:	14:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	8.63	0.2158148	0.1862907		-13.7	20	
1,1,1-Trichloroethane	A	10.0	9.86	1.233762	1.216031	0.1	-1.4	20	
1,1,2,2-Tetrachloroethane	A	10.0	10.6	0.3709147	0.3927062	0.3	5.9	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (	A	10.0	9.26	0.6667549	0.6173153	0.1	-7.4	20	
1,1,2-Trichloroethane	A	10.0	8.58	0.1415695	0.1214077	0.1	-14.2	20	
1,1-Dichloroethane	A	10.0	9.90	1.301575	1.288123	0.2	-1.0	20	
1,1-Dichloroethylene	A	10.0	9.46	1.007754	0.9536927	0.1	-5.4	20	
1,2,3-Trichlorobenzene	A	10.0	7.48	0.3480915	0.2603742		-25.2	20	*
1,2,3-Trichloropropane	A	10.0	10.3	0.1283	0.1282409		-0.05	20	
1,2,4-Trichlorobenzene	A	10.0	8.51	0.4341247	0.369561	0.2	-14.9	20	
1,2,4-Trimethylbenzene	A	10.0	11.3	1.737689	1.966526		13.2	20	
1,2-Dibromo-3-chloropropane	Q	10.0	8.58	5.991724E-02	5.140351E-02	0.05	-14.2	20	
1,2-Dibromoethane	A	10.0	8.67	0.1429986	0.1240273	0.1	-13.3	20	
1,2-Dichlorobenzene	A	10.0	10.5	0.9380641	0.9874853	0.4	5.3	20	
1,2-Dichloroethane	A	10.0	8.82	0.9225159	0.8137595	0.1	-11.8	20	
1,2-Dichloropropane	A	10.0	8.94	0.1821065	0.1628495	0.1	-10.6	20	
1,3,5-Trimethylbenzene	A	10.0	11.3	1.754613	1.989983		13.4	20	
1,3-Dichlorobenzene	A	10.0	10.7	1.045755	1.123018	0.6	7.4	20	
1,4-Dichlorobenzene	A	10.0	10.6	1.028567	1.091066	0.5	6.1	20	
1,4-Dioxane	A	200	177	1.77515E-03	3.140616E-03		76.9	20	*
2-Butanone	A	10.0	9.02	0.0657068	5.927472E-02	0.1	-9.8	20	
2-Hexanone	A	10.0	8.91	9.842939E-02	8.772162E-02	0.1	-10.9	20	
4-Methyl-2-pentanone	A	10.0	8.44	0.149303	0.1260289	0.1	-15.6	20	
Acetone	Q	10.0	8.52	0.2201743	0.1874922	0.1	-14.8	20	
Acrolein	Q	10.0	4.69	4.073406E-02	3.584822E-02		-53.1	20	*
Acrylonitrile	A	10.0	8.24	0.1815608	0.1426318		-21.4	20	*
Benzene	A	10.0	9.31	3.011808	2.803476	0.5	-6.9	20	
Bromochloromethane	A	10.0	10.1	0.6377761	0.6440863		1.0	20	
Bromodichloromethane	A	10.0	8.94	0.2320724	0.2074958	0.2	-10.6	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YC90007
Lab File ID:	QV614014.D	Calibration Date:	03/15/19 16:58
Sequence:	Y9D0501	Injection Date:	04/05/19
Lab Sample ID:	Y9D0501-CCV1	Injection Time:	14:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bromoform	A	10.0	6.40	0.1129297	7.223876E-02	0.1	-36.0	20 *
Bromomethane	Q	10.0	8.50	0.2215795	0.1349215	0.1	-15.0	20
Carbon disulfide	Q	10.0	9.24	1.73352	1.449985	0.1	-7.6	20
Carbon tetrachloride	A	10.0	9.41	1.162549	1.094492	0.1	-5.9	20
Chlorobenzene	A	10.0	9.30	0.5269114	0.4901457	0.5 *	-7.0	20
Chloroethane	A	10.0	8.64	0.4856905	0.4198046	0.1	-13.6	20
Chloroform	A	10.0	9.77	1.301333	1.271375	0.2	-2.3	20
Chloromethane	Q	10.0	10.9	0.6519931	0.6308986	0.1	8.6	20
cis-1,2-Dichloroethylene	A	10.0	9.60	1.202152	1.154077	0.1	-4.0	20
cis-1,3-Dichloropropylene	A	10.0	8.39	0.2722989	0.2284292	0.2	-16.1	20
Cyclohexane	A	10.0	9.90	1.354935	1.341675	0.1	-1.0	20
Dibromochloromethane	A	10.0	7.87	0.2011496	0.1583685	0.1	-21.3	20 *
Dibromomethane	A	10.0	9.17	9.475797E-02	8.692513E-02		-8.3	20
Dichlorodifluoromethane	Q	10.0	11.4	0.6125287	0.5994012	0.1	13.8	20
Ethyl Benzene	A	10.0	9.65	0.8297907	0.8010279	0.1	-3.5	20
Hexachlorobutadiene	Q	10.0	6.05	0.1073478	6.489751E-02		-39.5	20 *
Isopropylbenzene	A	10.0	12.2	2.149977	2.624457	0.1	22.1	20 *
Methyl acetate	A	10.0	9.83	0.4085746	0.4015651	0.1	-1.7	20
Methyl tert-butyl ether (MTBE)	A	10.0	9.01	1.951446	1.75806	0.1	-9.9	20
Methylcyclohexane	A	10.0	9.01	0.2930795	0.2640665	0.1	-9.9	20
Methylene chloride	A	10.0	9.93	0.9814935	0.9744456	0.1	-0.7	20
n-Butylbenzene	A	10.0	11.5	1.515339	1.737628		14.7	20
n-Propylbenzene	Q	10.0	12.1	2.357855	2.846343		20.7	20 *
o-Xylene	A	10.0	9.30	0.6619353	0.6157199	0.3	-7.0	20
p- & m- Xylenes	A	20.0	19.8	0.6251761	0.6193354	0.1	-0.9	20
p-Isopropyltoluene	A	10.0	10.9	1.893514	2.060044		8.8	20
sec-Butylbenzene	A	10.0	11.4	1.979689	2.253303		13.8	20
Styrene	A	10.0	8.99	0.5373124	0.4831394	0.3	-10.1	20
tert-Butyl alcohol (TBA)	Q	10.0	8.06	8.480902E-02	5.962019E-02		-19.4	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YC90007
Lab File ID:	QV614014.D	Calibration Date:	03/15/19 16:58
Sequence:	Y9D0501	Injection Date:	04/05/19
Lab Sample ID:	Y9D0501-CCV1	Injection Time:	14:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
tert-Butylbenzene	A	10.0	11.3	1.557162	1.763743		13.3	20
Tetrachloroethylene	A	10.0	8.36	0.2527395	0.2113347	0.2	-16.4	20
Toluene	A	10.0	9.27	0.8061672	0.7473068	0.4	-7.3	20
trans-1,2-Dichloroethylene	A	10.0	9.32	1.02774	0.9575729	0.1	-6.8	20
trans-1,3-Dichloropropylene	A	10.0	8.34	0.2323949	0.193721	0.1	-16.6	20
trans-1,4-dichloro-2-butene	A	10.0	9.86	0.3889014	0.3834737		-1.4	20
Trichloroethylene	A	10.0	9.36	0.1865519	0.1745854	0.2 *	-6.4	20
Trichlorofluoromethane	A	10.0	8.46	1.006337	0.8513451	0.1	-15.4	20
Vinyl Chloride	A	10.0	10.2	0.6895009	0.7004922	0.1	1.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614014.D
Acq On : 5 Apr 2019 2:26 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6040519A CCV AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 14:47:38 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.081	70	199731	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.122	117	912751	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.096	152	281829	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.783	65	257322	10.19	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 101.90%				
51) Toluene-d8 (SURR)	7.623	98	1196693	10.49	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 104.90%				
70) p-Bromofluorobenzene (...	10.385	95	337184	11.10	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 111.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	119719m	11.38	ppb		
3) Chloromethane	1.741	50	126010	10.86	ppb	#	80
4) Vinyl Chloride	1.830	62	139910m	10.16	ppb		
5) Bromomethane	2.208	94	26948m	8.50	ppb		
6) Chloroethane	2.333	64	83848m	8.64	ppb		
7) Trichlorofluoromethane	2.617	101	170040	8.46	ppb		96
8) Ethanol	2.948	45	13267m	378.12	ppb		
9) Freon-113	3.176	101	123297	9.26	ppb		97
10) 1,1-Dichloroethylene	3.185	61	190482	9.46	ppb		90
11) Acrolein	3.146	56	7160m	4.69	ppb		
12) Acetone	3.307	43	37448m	8.52	ppb		
13) Iodomethane	3.352	142	77258	8.80	ppb		98
14) Methyl Acetate	3.627	43	80205m	9.83	ppb		
15) Carbon disulfide	3.413	76	289607	9.24	ppb		100
16) tert-Butyl Alcohol (TBA)	3.872	59	11908	8.06	ppb	#	1
17) Methylene Chloride	3.722	49	194627	9.93	ppb		88
18) Acrylonitrile	4.006	53	28488m	8.24	ppb		
19) trans-1,2-Dichloroethy...	3.983	61	191257	9.32	ppb	#	74
20) tert-Butyl Methyl Ethe...	3.969	73	351139	9.01	ppb	#	88
21) 1,1-Dichloroethane	4.412	63	257278	9.90	ppb		99
22) Vinyl Acetate	4.445	43	450739m	9.40	ppb		
23) Diisopropyl ether (DIPE)	4.445	45	556427	9.83	ppb	#	94
24) Ethyl-tert-Butyl ether...	4.799	59	489841	9.62	ppb	#	97
25) cis-1,2-Dichloroethylene	4.988	61	230505	9.60	ppb		94
26) 2-Butanone	5.027	72	11839m	9.02	ppb		
27) 2,2-Dichloropropane	4.968	77	181048	8.94	ppb		95
28) Tetrahydrofuran	5.280	42	28933	8.52	ppb	#	60
29) Bromochloromethane	5.227	49	128644	10.10	ppb	#	84
30) Chloroform	5.299	83	253933	9.77	ppb	#	84
31) 1,1,1-Trichloroethane	5.450	97	242879	9.86	ppb		97
32) Cyclohexane	5.483	56	267974	9.90	ppb		93
33) 1,1-Dichloropropylene	5.605	75	179267	9.19	ppb		85
35) Carbon Tetrachloride	5.605	117	218604	9.41	ppb	#	55
36) tert-Amyl alcohol (TAA)	5.831	59	106586	84.85	ppb		98
37) 1,2-Dichloroethane	5.853	62	162533	8.82	ppb		98
38) Benzene	5.811	78	559941	9.31	ppb	#	73
39) tert-Amyl methyl ether...	5.892	73	391336	9.05	ppb	#	99
41) Trichloroethylene	6.437	95	159353	9.36	ppb		94
42) Methyl Cyclohexane	6.588	83	241027	9.01	ppb		92
43) Methyl Methacrylate	6.757	69	74732m	8.38	ppb		
44) Dibromomethane	6.802	93	79341	9.17	ppb	#	69
45) Bromodichloromethane	6.941	83	189392	8.94	ppb		97
46) 1,2-Dichloropropane	6.668	63	148641	8.94	ppb	#	98
47) 1,4-Dioxane	6.807	88	57332	176.92	ppb	#	86
48) 2-Chloroethyl vinyl ether	7.230	63	1720m	11.39	ppb		
49) cis-1,3-Dichloropropene	7.372	75	208499	8.39	ppb		96
50) 4-Methyl-2-Pentanone	7.511	43	115033	8.44	ppb	#	91
52) Toluene	7.689	91	682105	9.27	ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614014.D
Acq On : 5 Apr 2019 2:26 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6040519A CCV AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 14:47:38 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

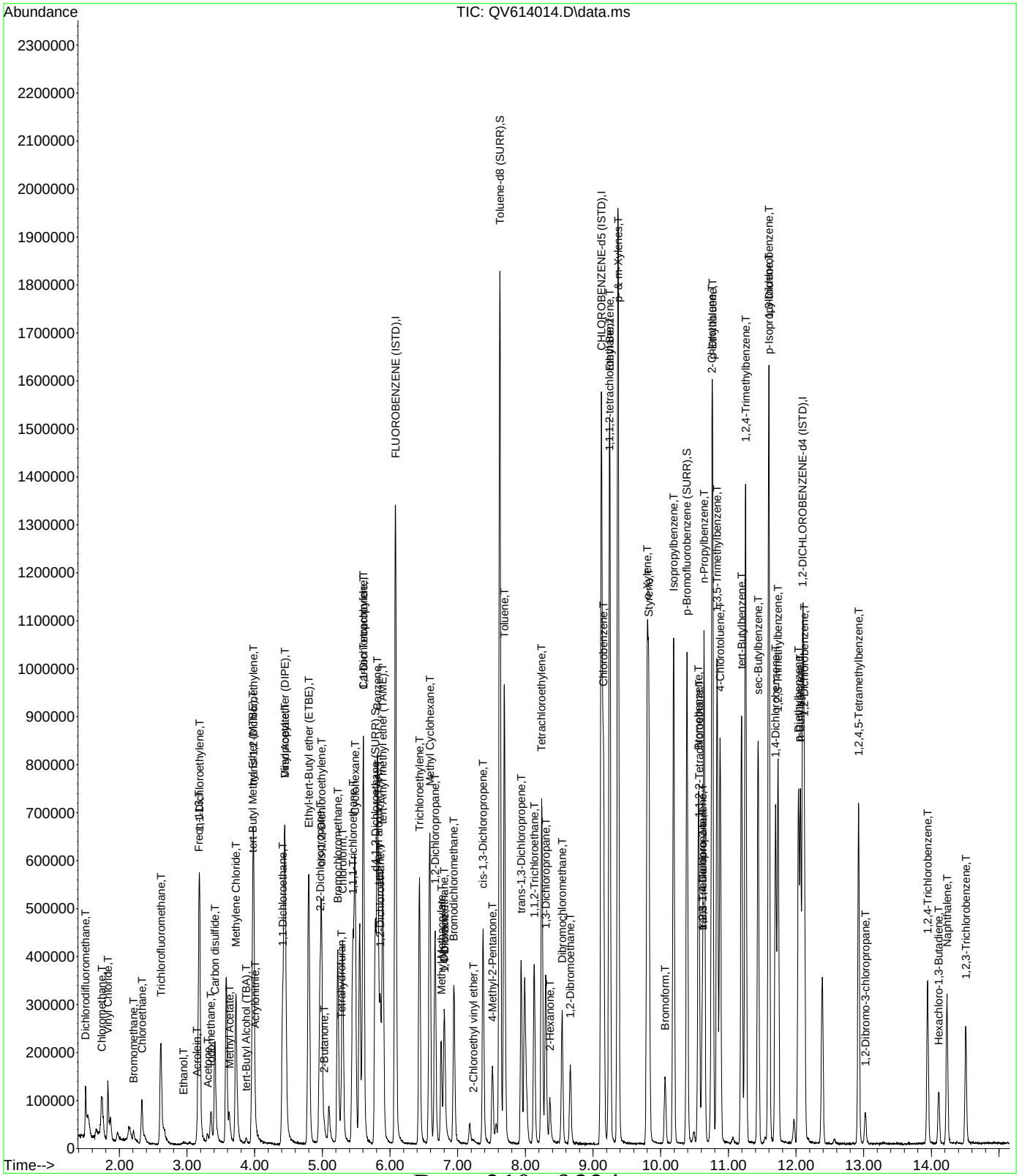
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.937	75	176819	8.34	ppb		98
54) 1,1,2-Trichloroethane	8.132	97	110815	8.58	ppb		92
55) 1,3-Dichloropropane	8.301	76	180257	8.80	ppb		94
56) Tetrachloroethylene	8.240	166	192896	8.36	ppb	#	100
57) 2-Hexanone	8.363	43	80068m	8.91	ppb		
58) Dibromochloromethane	8.543	129	144551	7.87	ppb		98
59) 1,2-Dibromoethane	8.663	107	113206	8.67	ppb		97
60) Chlorobenzene	9.153	112	447381	9.30	ppb		94
61) 1,1,1,2-tetrachloroethane	9.239	131	170037	8.63	ppb		98
62) Ethyl Benzene	9.247	91	731139	9.65	ppb		98
63) p- & m-Xylenes	9.370	91	1130598	19.81	ppb		98
64) o-Xylene	9.801	91	561999	9.30	ppb		99
65) Styrene	9.823	104	440986	8.99	ppb		97
66) Bromoform	10.063	173	65936	6.40	ppb	#	80
68) p-Ethyltoluene	10.766	105	663337	11.76	ppb	#	56
69) Isopropylbenzene	10.191	105	739648	12.21	ppb		96
71) 1,1,2,2-Tetrachloroethane	10.569	83	110676	10.59	ppb	#	99
72) Bromobenzene	10.558	77	223233	11.12	ppb		93
73) trans-1,4-Dichloro-2-b...	10.616	75	108074	9.86	ppb		95
74) 1,2,3-Trichloropropane	10.616	110	36142	10.34	ppb	#	17
75) n-Propylbenzene	10.641	91	802182	12.07	ppb		97
76) 2-Chlorotoluene	10.758	91	518699	11.61	ppb		99
77) 4-Chlorotoluene	10.878	91	461476	11.39	ppb		99
78) 1,3,5-Trimethylbenzene	10.833	105	560835	11.34	ppb		96
79) tert-Butylbenzene	11.195	119	497074	11.33	ppb		97
80) 1,2,4-Trimethylbenzene	11.256	105	554224	11.32	ppb		97
81) sec-Butylbenzene	11.440	105	635046	11.38	ppb		97
82) 1,3-Dichlorobenzene	11.598	146	316499	10.74	ppb		98
83) p-Isopropyltoluene	11.601	119	580580	10.88	ppb		98
84) 1,4-Dichlorobenzene	11.696	146	307494	10.61	ppb		98
85) 1,2,3-Trimethylbenzene	11.735	105	475038	11.34	ppb		95
86) p-Diethylbenzene	12.035	105	241792	10.23	ppb	#	97
87) 1,2-Dichlorobenzene	12.121	146	278302	10.53	ppb		99
88) n-Butylbenzene	12.063	91	489714	11.47	ppb		97
89) 1,2-Dibromo-3-chloropr...	13.026	75	14487	8.58	ppb		95
90) 1,2,4,5-Tetramethylben...	12.923	119	406260	10.52	ppb		99
91) 1,2,4-Trichlorobenzene	13.944	180	104153	8.51	ppb		95
92) Hexachloro-1,3-Butadiene	14.105	225	18290	6.05	ppb	#	90
93) Naphthalene	14.230	128	279698m	8.06	ppb		
94) 1,2,3-Trichlorobenzene	14.509	180	73381	7.48	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614014.D
Acq On : 5 Apr 2019 2:26 pm
InstName : QVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6040519A CCV AQU
ALS Vial : 4 Sample Multiplier: 1

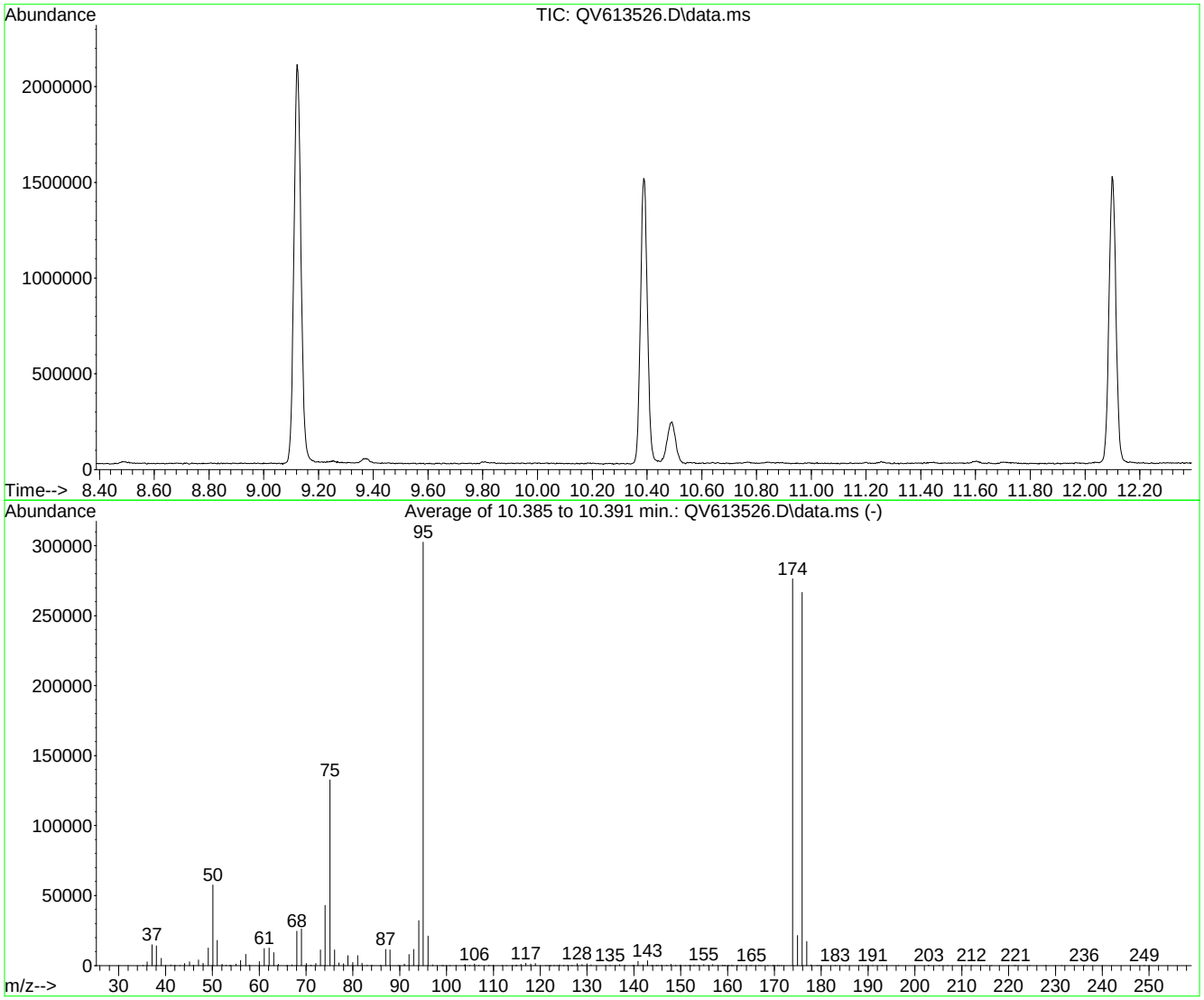
Quant Time: Apr 05 14:47:38 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration



Data Path : C:\msdchem\2\DATA\031519A\
Data File : QV613526.D
Acq On : 15 Mar 2019 4:58 pm
Operator : AS
InstName : QVOA6
Sample : SEQ-TUN1
Misc : QBQV6031519A
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO048.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Thu Mar 21 11:23:17 2019



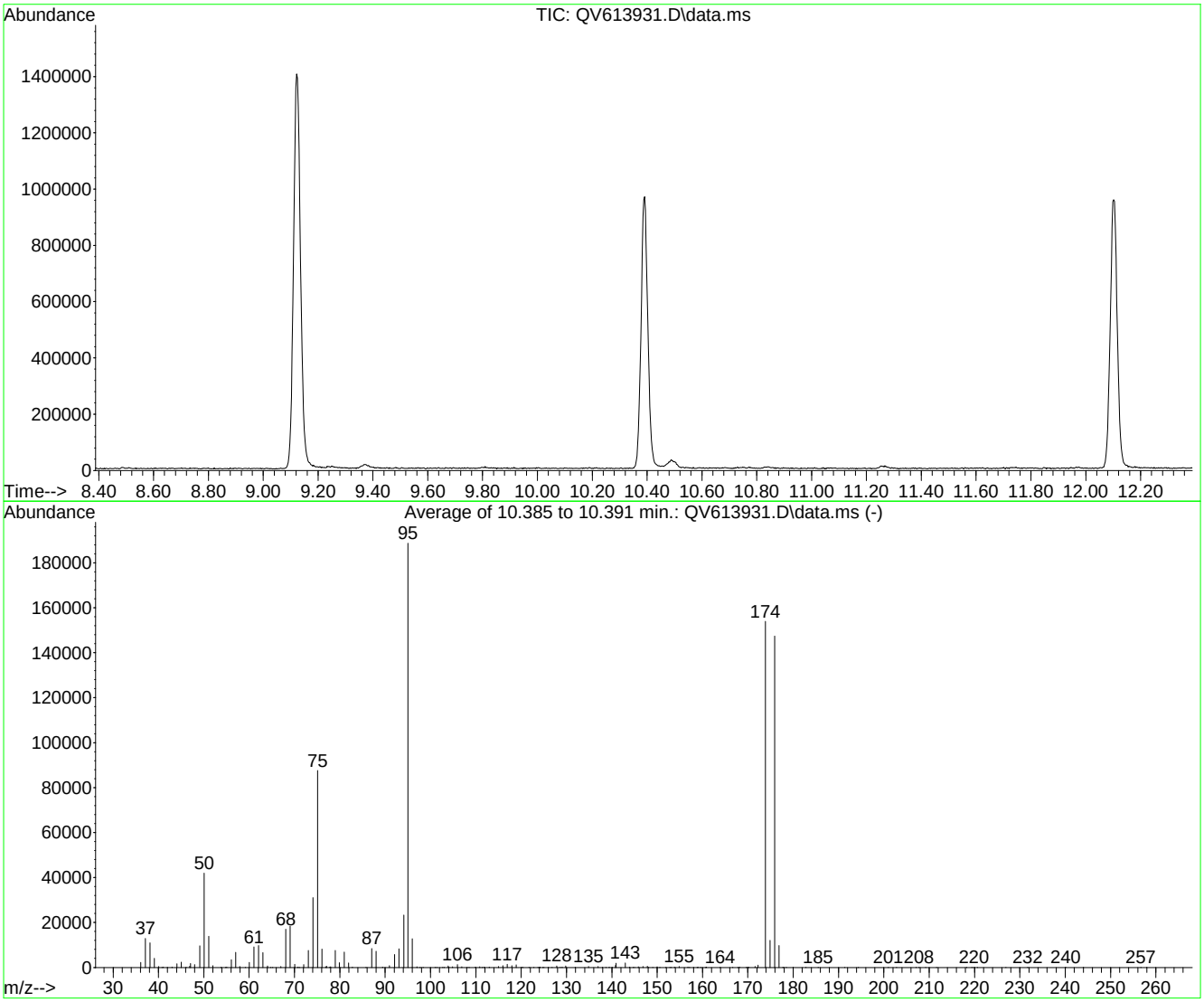
Spectrum Information: Average of 10.385 to 10.391 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	57482	PASS
75	95	30	60	43.9	132771	PASS
95	95	100	100	100.0	302476	PASS
96	95	5	9	7.0	21141	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	91.4	276448	PASS
175	174	5	9	7.8	21560	PASS
176	174	95	101	96.5	266651	PASS
177	176	5	9	6.5	17284	PASS

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613931.D
Acq On : 3 Apr 2019 10:03 pm
Operator : LLJ
InstName : QVOA6
Sample : SEQ-TUN1
Misc : QBQV6040219A
ALS Vial : 80 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO048.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Thu Mar 21 11:23:17 2019



AutoFind: Scans 3235, 3236, 3237; Background Corrected with Scan 3218

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	41989	PASS
75	95	30	60	46.4	87589	PASS
95	95	100	100	100.0	188651	PASS
96	95	5	9	6.8	12781	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.6	153984	PASS
175	174	5	9	7.9	12094	PASS
176	174	95	101	95.7	147371	PASS
177	176	5	9	6.7	9803	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614015.D
Acq On : 5 Apr 2019 3:00 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90281-BS1
Misc : QBQV6040519A ICV AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 05 15:17:13 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.084	70	195319	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	891014	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.099	152	267432	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.783	65	248862	10.08	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 100.80%				
51) Toluene-d8 (SURR)	7.622	98	1177261	10.58	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 105.80%				
70) p-Bromofluorobenzene (...	10.391	95	320050	11.10	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 111.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.501	85	90292m	8.80	ppb		
3) Chloromethane	1.741	50	109208	9.23	ppb	#	43
4) Vinyl Chloride	1.832	62	129044	9.58	ppb	#	53
5) Bromomethane	2.214	94	29292m	9.11	ppb		
6) Chloroethane	2.330	64	82563m	8.70	ppb		
7) Trichlorofluoromethane	2.614	101	188247	9.58	ppb		100
9) Freon-113	3.179	101	129713	9.96	ppb	#	68
10) 1,1-Dichloroethylene	3.187	61	191981	9.75	ppb		89
11) Acrolein	3.140	56	12464m	8.03	ppb		
12) Acetone	3.301	43	34431m	8.01	ppb		
13) Iodomethane	3.354	142	74280	8.69	ppb		100
14) Methyl Acetate	3.627	43	68559	8.59	ppb		99
15) Carbon disulfide	3.413	76	282793	9.23	ppb		100
16) tert-Butyl Alcohol (TBA)	3.866	59	57552	36.43	ppb	#	1
17) Methylene Chloride	3.722	49	194898	10.17	ppb		88
18) Acrylonitrile	4.008	53	31344m	9.22	ppb		
19) trans-1,2-Dichloroethy...	3.983	61	186053	9.27	ppb	#	87
20) tert-Butyl Methyl Ethe...	3.972	73	334680	8.78	ppb	#	88
21) 1,1-Dichloroethane	4.412	63	253354	9.97	ppb		100
22) Vinyl Acetate	4.456	43	474209	10.11	ppb		100
23) Diisopropyl ether (DIPE)	4.445	45	547636	9.89	ppb	#	98
24) Ethyl-tert-Butyl ether...	4.798	59	469735	9.43	ppb	#	98
25) cis-1,2-Dichloroethylene	4.985	61	225725	9.61	ppb		94
26) 2-Butanone	5.032	72	11225m	8.75	ppb		
27) 2,2-Dichloropropane	4.965	77	177608	8.97	ppb		95
28) Tetrahydrofuran	5.282	42	32677m	9.76	ppb		
29) Bromochloromethane	5.227	49	122317	9.82	ppb	#	83
30) Chloroform	5.299	83	247977	9.76	ppb	#	84
31) 1,1,1-Trichloroethane	5.449	97	250657	10.40	ppb	#	82
32) Cyclohexane	5.486	56	275996	10.43	ppb		92
33) 1,1-Dichloropropylene	5.611	75	181829	9.53	ppb		85
35) Carbon Tetrachloride	5.605	117	217135	9.56	ppb	#	54
36) tert-Amyl alcohol (TAA)	5.831	59	103971	84.64	ppb	#	83
37) 1,2-Dichloroethane	5.856	62	168492	9.35	ppb		99
38) Benzene	5.814	78	557711	9.48	ppb		95
39) tert-Amyl methyl ether...	5.895	73	378658	8.96	ppb	#	100
41) Trichloroethylene	6.437	95	154364	9.29	ppb		92
42) Methyl Cyclohexane	6.587	83	248898	9.53	ppb		91
43) Methyl Methacrylate	6.754	69	68038	7.82	ppb		90
44) Dibromomethane	6.799	93	74997m	8.88	ppb		
45) Bromodichloromethane	6.943	83	182889	8.84	ppb		97
46) 1,2-Dichloropropane	6.662	63	144437	8.90	ppb	#	99
47) 1,4-Dioxane	6.815	88	14939m	47.23	ppb		
48) 2-Chloroethyl vinyl ether	7.227	63	1362m	9.02	ppb		
49) cis-1,3-Dichloropropene	7.372	75	197088	8.12	ppb		96
50) 4-Methyl-2-Pentanone	7.514	43	112415	8.45	ppb	#	91
52) Toluene	7.692	91	682046	9.50	ppb		100
53) trans-1,3-Dichloropropene	7.939	75	170195m	8.22	ppb		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614015.D
Acq On : 5 Apr 2019 3:00 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90281-BS1
Misc : QBQV6040519A ICV AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 05 15:17:13 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

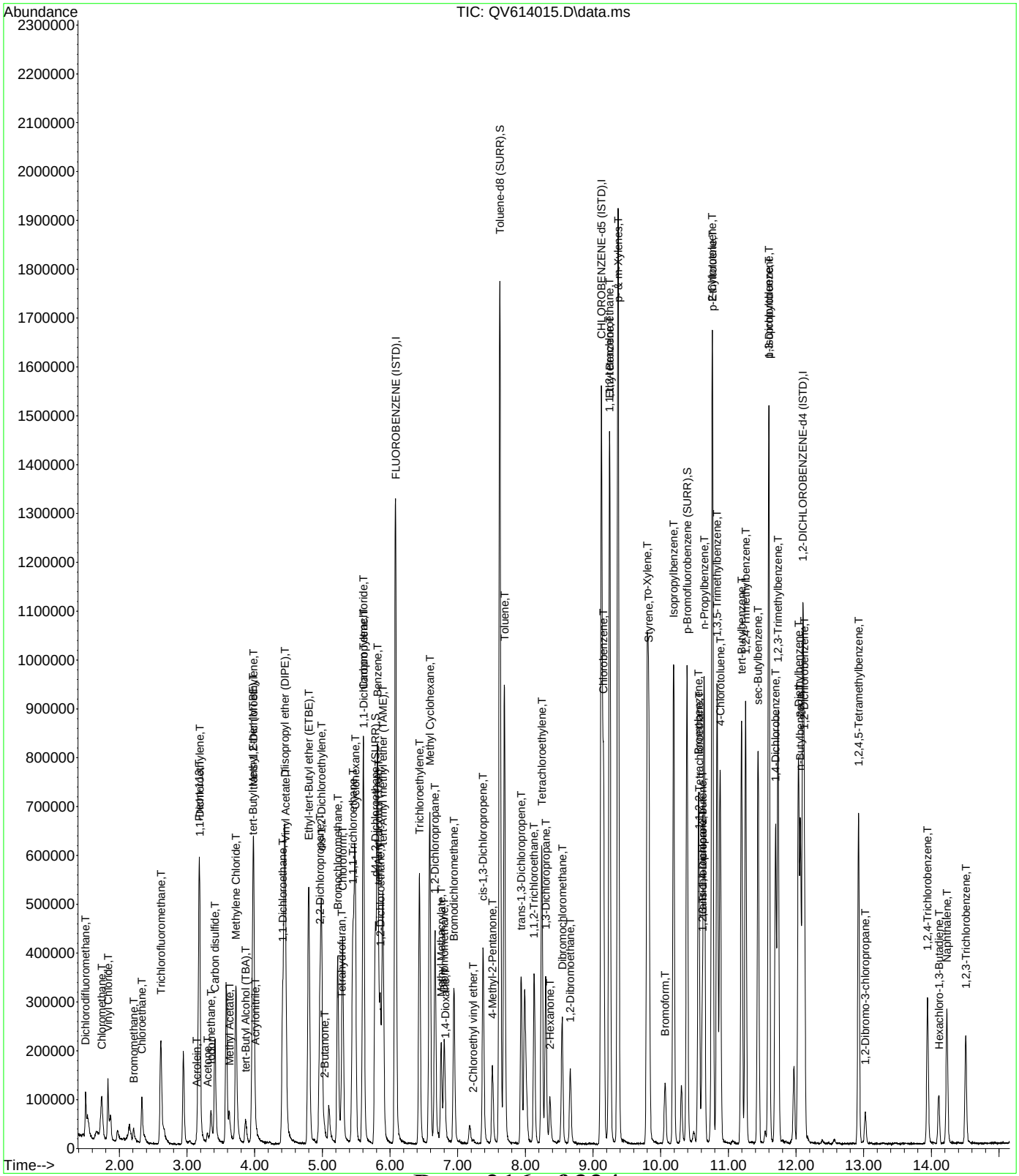
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.126	97	104458	8.28	ppb		93
55) 1,3-Dichloropropane	8.301	76	170706	8.53	ppb	#	87
56) Tetrachloroethylene	8.246	166	167838	7.45	ppb	#	77
57) 2-Hexanone	8.362	43	76432m	8.71	ppb		
58) Dibromochloromethane	8.546	129	144995	8.09	ppb		98
59) 1,2-Dibromoethane	8.663	107	109156	8.57	ppb		95
60) Chlorobenzene	9.153	112	428956	9.14	ppb		95
61) 1,1,1,2-tetrachloroethane	9.242	131	161586	8.40	ppb		97
62) Ethyl Benzene	9.247	91	727862	9.84	ppb		98
63) p- & m-Xylenes	9.370	91	1106186	19.86	ppb		99
64) o-Xylene	9.801	91	558756	9.47	ppb		99
65) Styrene	9.823	104	429728	8.98	ppb		96
66) Bromoform	10.065	173	61939	6.16	ppb		99
68) p-Ethyltoluene	10.766	105	684414m	12.79	ppb		
69) Isopropylbenzene	10.190	105	702036	12.21	ppb		97
71) 1,1,2,2-Tetrachloroethane	10.569	83	105662	10.65	ppb	#	99
72) Bromobenzene	10.558	77	209983	11.02	ppb		93
73) trans-1,4-Dichloro-2-b...	10.619	75	103022	9.91	ppb		95
74) 1,2,3-Trichloropropane	10.616	110	35826	10.82	ppb	#	17
75) n-Propylbenzene	10.644	91	770251	12.22	ppb		96
76) 2-Chlorotoluene	10.761	91	503509	11.88	ppb		99
77) 4-Chlorotoluene	10.880	91	434846	11.31	ppb		99
78) 1,3,5-Trimethylbenzene	10.833	105	528281	11.26	ppb	#	93
79) tert-Butylbenzene	11.195	119	468977	11.26	ppb		98
80) 1,2,4-Trimethylbenzene	11.256	105	508033	10.93	ppb		97
81) sec-Butylbenzene	11.437	105	609817	11.52	ppb		97
82) 1,3-Dichlorobenzene	11.598	146	294187	10.52	ppb		98
83) p-Isopropyltoluene	11.598	119	536352	10.59	ppb		97
84) 1,4-Dichlorobenzene	11.696	146	287508	10.45	ppb		98
85) 1,2,3-Trimethylbenzene	11.734	105	529361	13.31	ppb		96
86) p-Diethylbenzene	12.038	105	257677	11.48	ppb	#	94
87) 1,2-Dichlorobenzene	12.121	146	264913	10.56	ppb	#	88
88) n-Butylbenzene	12.063	91	448651	11.07	ppb	#	91
89) 1,2-Dibromo-3-chloropr...	13.023	75	14147	8.83	ppb		99
90) 1,2,4,5-Tetramethylben...	12.922	119	392588	10.70	ppb		98
91) 1,2,4-Trichlorobenzene	13.941	180	93166	8.02	ppb		94
92) Hexachloro-1,3-Butadiene	14.113	225	16630	5.79	ppb		95
93) Naphthalene	14.227	128	247457	7.52	ppb		99
94) 1,2,3-Trichlorobenzene	14.508	180	68142	7.32	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614015.D
Acq On : 5 Apr 2019 3:00 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90281-BS1
Misc : QBQV6040519A ICV AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 05 15:17:13 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration



METHOD BLANK RAW DATA

SDG: 19C1266
CLASS: VOA
METHOD: EPA 8260C

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BD90225-BLK1	File ID:	QV613937.D
Prepared:	04/03/19 07:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	04/04/19 01:12	Instrument:	QVOA6		
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007

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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
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
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BD90225-BLK1	File ID:	QV613937.D
Prepared:	04/03/19 07:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	04/04/19 01:12	Instrument:	QVOA6		
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
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
110-82-7	Cyclohexane	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
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1.0	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:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BD90225-BLK1	File ID:	QV613937.D
Prepared:	04/03/19 07:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	04/04/19 01:12	Instrument:	QVOA6		
Batch:	BD90225	Sequence:	Y9D0415	Calibration:	YC90007

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
110-57-6	trans-1,4-dichloro-2-butene	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
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	
SURR: Toluene-d8	10.0	10.4	104	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.0	110	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	187040	6.081	196866	6.075	
ISTD: Chlorobenzene-d5	843853	9.128	899612	9.122	
ISTD: 1,2-Dichlorobenzene-d4	271973	12.105	300249	12.102	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613937.D
Acq On : 4 Apr 2019 1:12 am
InstName : QVOA6
Operator : LLJ
Sample : BD90225-BLK1
Misc : QBQV6040319A BLK AQU
ALS Vial : 86 Sample Multiplier: 1

Quant Time: Apr 04 06:56:37 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

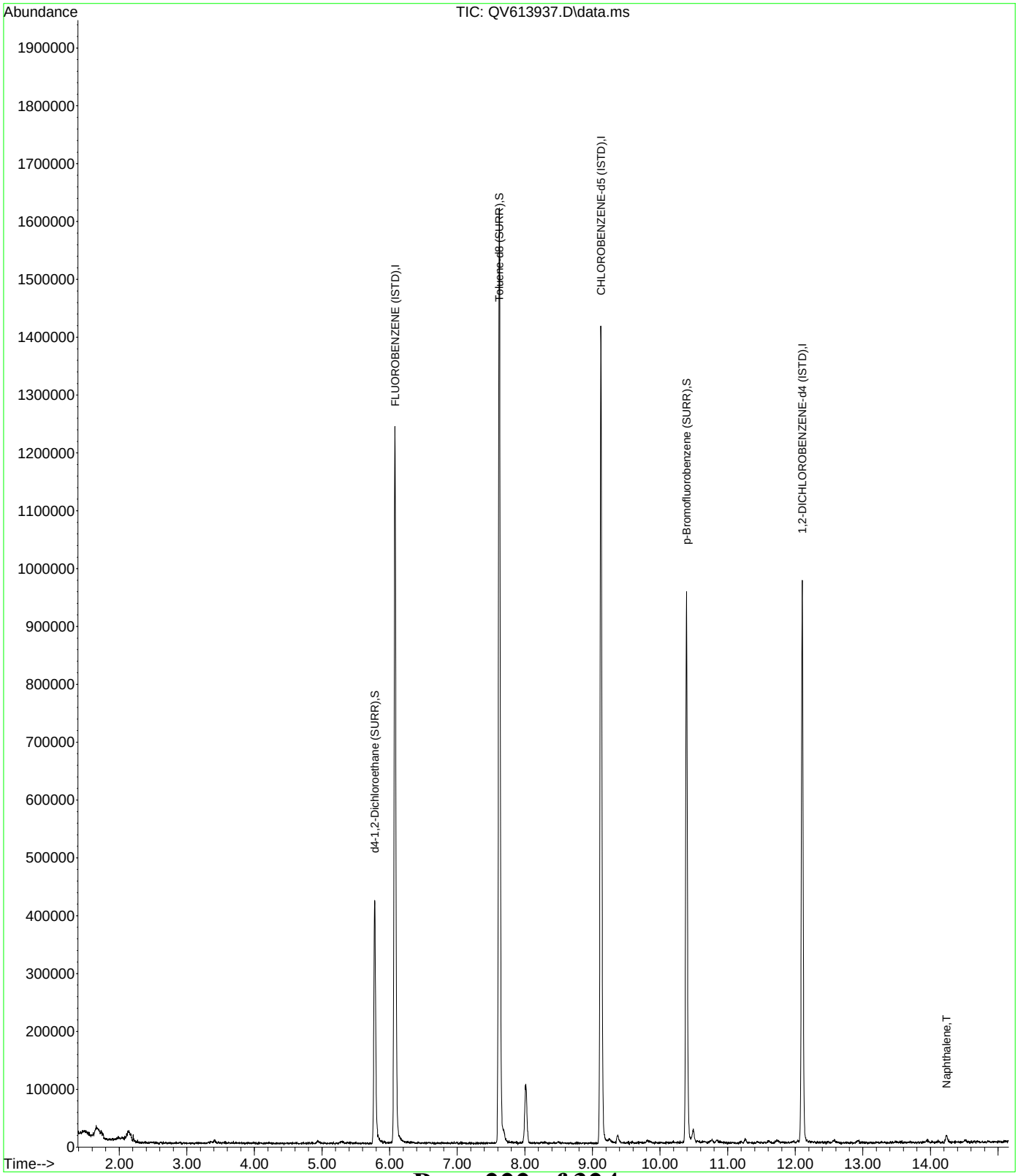
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.081	70	187040	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.128	117	843853	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.105	152	271973	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.778	65	256397	10.84	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.40%			
51) Toluene-d8 (SURR)	7.620	98	1098497	10.42	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 104.20%			
70) p-Bromofluorobenzene (...	10.391	95	321113	10.95	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 109.50%			
Target Compounds						Qvalue
93) Naphthalene	14.236	128	12581	0.38	ppb	# 85

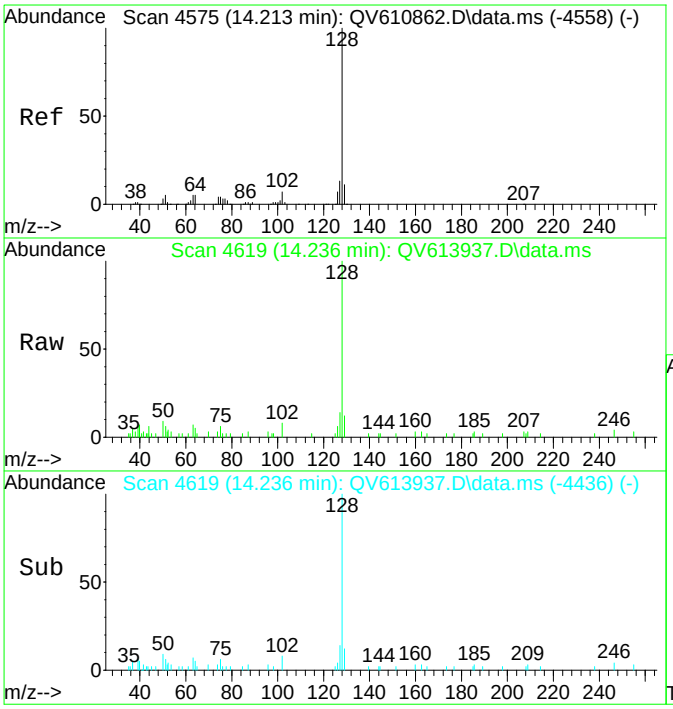
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613937.D
Acq On : 4 Apr 2019 1:12 am
InstName : QVOA6
Operator : LLJ
Sample : BD90225-BLK1
Misc : QBQV6040319A BLK AQU
ALS Vial : 86 Sample Multiplier: 1

Quant Time: Apr 04 06:56:37 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

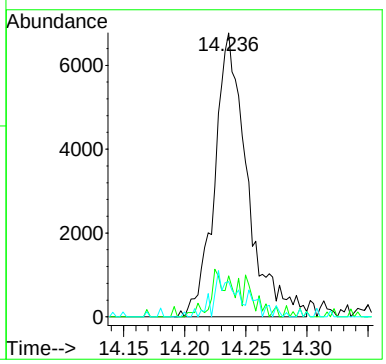




#93
Naphthalene
Concen: 0.38 ppb
RT: 14.236 min Scan# 4619
Delta R.T. 0.010 min
Lab File: QV613937.D
Acq: 4 Apr 2019 1:12 am

Tgt Ion:128 Resp: 12581

Ion	Ratio	Lower	Upper
128	100		
127	4.4	8.9	18.5#
129	9.5	7.3	15.3



METHOD BLANK RAW DATA

SDG: 19C1266
CLASS: VOA
METHOD: EPA 8260C

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BD90281-BLK1	File ID:	QV614017.D
Prepared:	04/05/19 07:19	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	04/05/19 16:02	Instrument:	QVOA6		
Batch:	BD90281	Sequence:	Y9D0501	Calibration:	YC90007

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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
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
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BD90281-BLK1	File ID:	QV614017.D
Prepared:	04/05/19 07:19	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	04/05/19 16:02	Instrument:	QVOA6		
Batch:	BD90281	Sequence:	Y9D0501	Calibration:	YC90007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
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
110-82-7	Cyclohexane	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
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	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
75-65-0	tert-Butyl alcohol (TBA)	1.0	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:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BD90281-BLK1	File ID:	QV614017.D
Prepared:	04/05/19 07:19	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	04/05/19 16:02	Instrument:	QVOA6		
Batch:	BD90281	Sequence:	Y9D0501	Calibration:	YC90007

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
110-57-6	trans-1,4-dichloro-2-butene	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
SURR: 1,2-Dichloroethane-d4	10.0	10.6	106	69 - 130	
SURR: Toluene-d8	10.0	10.5	105	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.3	113	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	190121	6.078	199731	6.081	
ISTD: Chlorobenzene-d5	873457	9.122	912751	9.122	
ISTD: 1,2-Dichlorobenzene-d4	257680	12.099	281829	12.096	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614017.D
Acq On : 5 Apr 2019 4:02 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90281-BLK1
Misc : QBQV6040519A BLK AQU
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 05 16:18:10 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

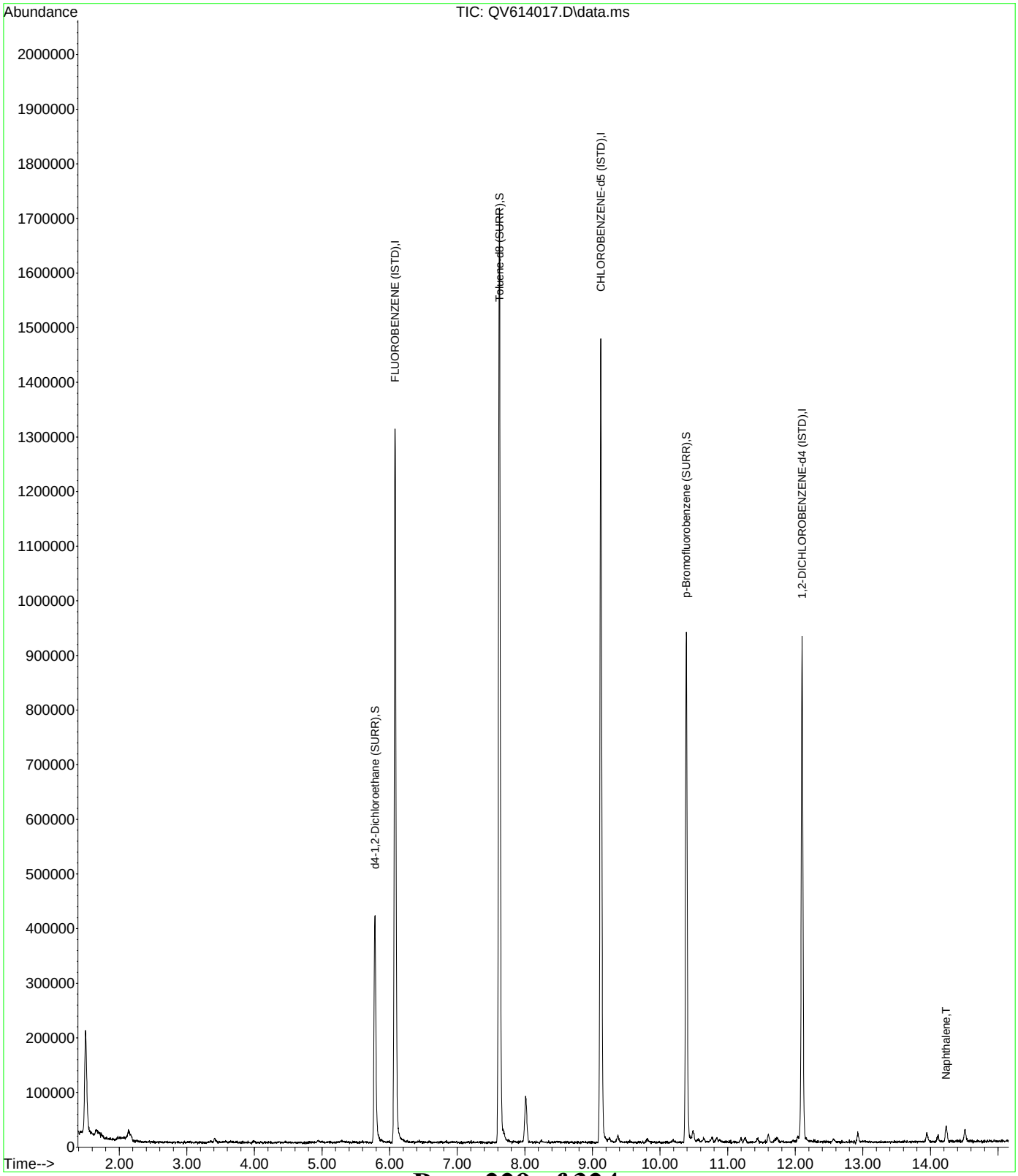
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.078	70	190121	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.122	117	873457	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.099	152	257680	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.781	65	255203	10.62	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 106.20%			
51) Toluene-d8 (SURR)	7.622	98	1150235	10.54	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 105.40%			
70) p-Bromofluorobenzene (...	10.385	95	314013	11.30	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 113.00%			
Target Compounds						Qvalue
93) Naphthalene	14.227	128	27483	0.87	ppb	# 73

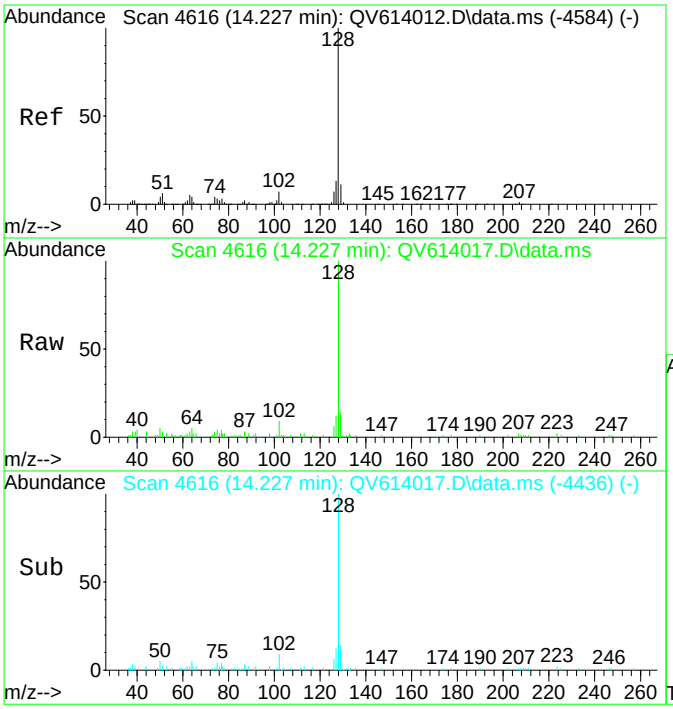
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614017.D
Acq On : 5 Apr 2019 4:02 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90281-BLK1
Misc : QBQV6040519A BLK AQU
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 05 16:18:10 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

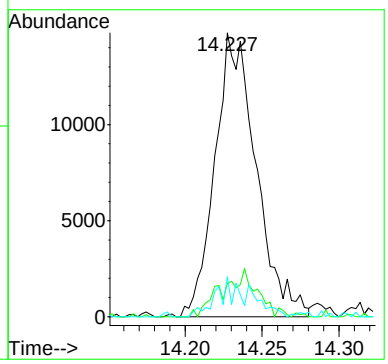




#93
Naphthalene
Concen: 0.87 ppb
RT: 14.227 min Scan# 4616
Delta R.T. 0.001 min
Lab File: QV614017.D
Acq: 5 Apr 2019 4:02 pm

Tgt Ion:128 Resp: 27483

Ion	Ratio	Lower	Upper
128	100		
127	0.0	8.9	18.5#
129	3.8	7.3	15.3#



LCS RAW DATA

SDG: 19C1266
CLASS: VOA
METHOD: EPA 8260C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613934.D
Acq On : 3 Apr 2019 11:40 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90225-BS1
Misc : QBQV6040319A ICV AQU
ALS Vial : 83 Sample Multiplier: 1

Quant Time: Apr 04 06:52:16 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.075	70	198827	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	906964	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	294538	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.778	65	269927	10.74	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 107.40%				
51) Toluene-d8 (SURR)	7.620	98	1158980	10.23	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 102.30%				
70) p-Bromofluorobenzene (...	10.391	95	353334	11.13	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 111.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	110680m	10.58	ppb		
3) Chloromethane	1.757	50	117602m	9.97	ppb		
4) Vinyl Chloride	1.824	62	135910m	9.91	ppb		
5) Bromomethane	2.197	94	21128m	7.33	ppb		
6) Chloroethane	2.322	64	85713m	8.88	ppb		
7) Trichlorofluoromethane	2.606	101	190829	9.54	ppb		99
9) Freon-113	3.165	101	136146	10.27	ppb		97
10) 1,1-Dichloroethylene	3.176	61	192471	9.61	ppb		88
11) Acrolein	3.129	56	11578m	7.36	ppb		
12) Acetone	3.290	43	35260m	8.05	ppb		
13) Iodomethane	3.343	142	77541m	8.86	ppb		
14) Methyl Acetate	3.616	43	69117	8.51	ppb		98
15) Carbon disulfide	3.405	76	299883	9.62	ppb		100
16) tert-Butyl Alcohol (TBA)	3.855	59	61615	38.26	ppb	#	1
17) Methylene Chloride	3.716	49	202063	10.35	ppb		88
18) Acrylonitrile	4.006	53	34009m	9.80	ppb		
19) trans-1,2-Dichloroethy...	3.975	61	190339	9.31	ppb		96
20) tert-Butyl Methyl Ethe...	3.964	73	368796	9.51	ppb	#	88
21) 1,1-Dichloroethane	4.409	63	258622	9.99	ppb		99
22) Vinyl Acetate	4.451	43	520867	10.91	ppb		100
23) Diisopropyl ether (DIPE)	4.437	45	579660	10.29	ppb	#	98
24) Ethyl-tert-Butyl ether...	4.793	59	508714	10.04	ppb	#	97
25) cis-1,2-Dichloroethylene	4.982	61	227651	9.52	ppb		94
26) 2-Butanone	5.013	72	11693m	8.95	ppb		
27) 2,2-Dichloropropane	4.960	77	182991	9.08	ppb	#	65
28) Tetrahydrofuran	5.274	42	31171	9.18	ppb	#	64
29) Bromochloromethane	5.221	49	127452	10.05	ppb	#	84
30) Chloroform	5.294	83	255892	9.89	ppb	#	84
31) 1,1,1-Trichloroethane	5.447	97	253189	10.32	ppb		97
32) Cyclohexane	5.477	56	288399	10.71	ppb		93
33) 1,1-Dichloropropylene	5.603	75	186393	9.60	ppb		86
35) Carbon Tetrachloride	5.600	117	219677	9.50	ppb	#	55
36) tert-Amyl alcohol (TAA)	5.825	59	114184	91.31	ppb		97
37) 1,2-Dichloroethane	5.853	62	179113	9.77	ppb	#	98
38) Benzene	5.808	78	572449	9.56	ppb		95
39) tert-Amyl methyl ether...	5.886	73	404960	9.41	ppb	#	99
41) Trichloroethylene	6.434	95	154367	9.12	ppb		92
42) Methyl Cyclohexane	6.585	83	266147	10.01	ppb		90
43) Methyl Methacrylate	6.754	69	75166	8.49	ppb		91
44) Dibromomethane	6.799	93	79839	9.29	ppb	#	69
45) Bromodichloromethane	6.941	83	192668	9.15	ppb		96
46) 1,2-Dichloropropane	6.663	63	149690	9.06	ppb	#	98
47) 1,4-Dioxane	6.818	88	16213m	50.35	ppb		
48) 2-Chloroethyl vinyl ether	7.233	63	1589m	10.50	ppb		
49) cis-1,3-Dichloropropene	7.375	75	213576	8.65	ppb		94
50) 4-Methyl-2-Pentanone	7.511	43	127331	9.40	ppb	#	92
52) Toluene	7.689	91	695398	9.51	ppb		100
53) trans-1,3-Dichloropropene	7.940	75	176042	8.35	ppb		98

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613934.D
Acq On : 3 Apr 2019 11:40 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90225-BS1
Misc : QBQV6040319A ICV AQU
ALS Vial : 83 Sample Multiplier: 1

Quant Time: Apr 04 06:52:16 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

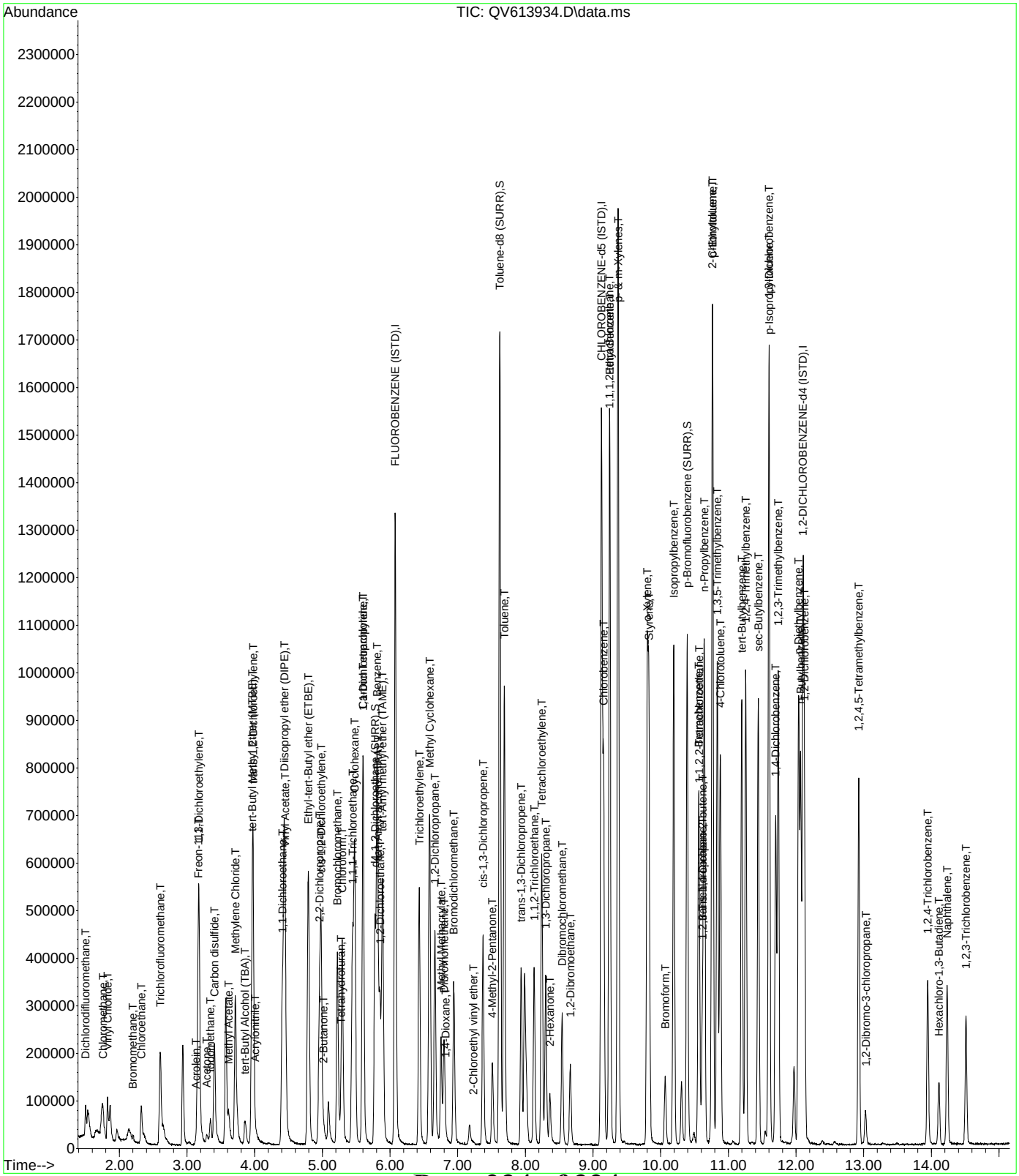
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.132	97	112869	8.79	ppb		92
55) 1,3-Dichloropropane	8.299	76	183464	9.01	ppb		94
56) Tetrachloroethylene	8.243	166	162748	7.10	ppb	#	100
57) 2-Hexanone	8.363	43	78321	8.77	ppb	#	94
58) Dibromochloromethane	8.543	129	148887	8.16	ppb		97
59) 1,2-Dibromoethane	8.666	107	115620	8.91	ppb		97
60) Chlorobenzene	9.155	112	439489	9.20	ppb		95
61) 1,1,1,2-tetrachloroethane	9.242	131	172129	8.79	ppb		96
62) Ethyl Benzene	9.247	91	739131	9.82	ppb		98
63) p- & m-Xylenes	9.370	91	1131942	19.96	ppb		98
64) o-Xylene	9.801	91	579839	9.66	ppb		100
65) Styrene	9.826	104	444556	9.12	ppb		97
66) Bromoform	10.068	173	66022	6.45	ppb	#	80
68) p-Ethyltoluene	10.766	105	730318	12.39	ppb	#	83
69) Isopropylbenzene	10.193	105	724597	11.44	ppb		97
71) 1,1,2,2-Tetrachloroethane	10.569	83	118916	10.88	ppb	#	99
72) Bromobenzene	10.560	77	226338	10.79	ppb		95
73) trans-1,4-Dichloro-2-b...	10.619	75	116814	10.20	ppb		91
74) 1,2,3-Trichloropropane	10.616	110	39153	10.74	ppb	#	39
75) n-Propylbenzene	10.644	91	809464	11.66	ppb		96
76) 2-Chlorotoluene	10.764	91	526909	11.29	ppb		99
77) 4-Chlorotoluene	10.880	91	468923	11.07	ppb		99
78) 1,3,5-Trimethylbenzene	10.836	105	567250	10.98	ppb		96
79) tert-Butylbenzene	11.198	119	509410	11.11	ppb		98
80) 1,2,4-Trimethylbenzene	11.256	105	552494	10.79	ppb		98
81) sec-Butylbenzene	11.442	105	689370	11.82	ppb		97
82) 1,3-Dichlorobenzene	11.601	146	311395	10.11	ppb		98
83) p-Isopropyltoluene	11.604	119	617510	11.07	ppb		97
84) 1,4-Dichlorobenzene	11.696	146	304986	10.07	ppb		98
85) 1,2,3-Trimethylbenzene	11.737	105	580363	13.25	ppb		96
86) p-Diethylbenzene	12.035	105	314649	12.73	ppb	#	94
87) 1,2-Dichlorobenzene	12.124	146	283894	10.28	ppb	#	88
88) n-Butylbenzene	12.068	91	557274	12.49	ppb	#	91
89) 1,2-Dibromo-3-chloropr...	13.031	75	16753m	9.49	ppb		
90) 1,2,4,5-Tetramethylben...	12.925	119	444187	10.98	ppb		98
91) 1,2,4-Trichlorobenzene	13.946	180	113622	8.89	ppb		97
92) Hexachloro-1,3-Butadiene	14.111	225	22535	7.13	ppb	#	77
93) Naphthalene	14.230	128	305415	8.42	ppb		99
94) 1,2,3-Trichlorobenzene	14.511	180	85319	8.32	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613934.D
Acq On : 3 Apr 2019 11:40 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90225-BS1
Misc : QBQV6040319A ICV AQU
ALS Vial : 83 Sample Multiplier: 1

Quant Time: Apr 04 06:52:16 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613935.D
Acq On : 4 Apr 2019 12:11 am
InstName : QVOA6
Operator : LLJ
Sample : BD90225-BSD1
Misc : QBQV6040319A ICV AQU
ALS Vial : 84 Sample Multiplier: 1

Quant Time: Apr 04 06:54:13 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.075	70	195775	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	901447	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	301001	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.775	65	269430	10.88	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.80%				
51) Toluene-d8 (SURR)	7.620	98	1149738	10.21	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 102.10%				
70) p-Bromofluorobenzene (...	10.388	95	354872	10.94	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 109.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.501	85	122449m	11.87	ppb		
3) Chloromethane	1.757	50	127347m	11.30	ppb		
4) Vinyl Chloride	1.824	62	144527m	10.71	ppb		
5) Bromomethane	2.197	94	23963m	7.99	ppb		
6) Chloroethane	2.319	64	88623m	9.32	ppb		
7) Trichlorofluoromethane	2.603	101	204429	10.38	ppb		97
9) Freon-113	3.160	101	151663	11.62	ppb		100
10) 1,1-Dichloroethylene	3.174	61	201640	10.22	ppb		85
11) Acrolein	3.118	56	12267m	7.89	ppb		
12) Acetone	3.290	43	35737m	8.29	ppb		
13) Iodomethane	3.346	142	87186m	9.85	ppb		
14) Methyl Acetate	3.610	43	68282	8.54	ppb		99
15) Carbon disulfide	3.399	76	324575	10.61	ppb		100
16) tert-Butyl Alcohol (TBA)	3.850	59	65360	41.14	ppb	#	1
17) Methylene Chloride	3.708	49	213522	11.11	ppb		90
18) Acrylonitrile	4.003	53	34862m	10.19	ppb		
19) trans-1,2-Dichloroethy...	3.975	61	200771	9.98	ppb		96
20) tert-Butyl Methyl Ethe...	3.961	73	374184	9.79	ppb	#	88
21) 1,1-Dichloroethane	4.403	63	268420	10.53	ppb		99
22) Vinyl Acetate	4.448	43	525115	11.17	ppb		100
23) Diisopropyl ether (DIPE)	4.431	45	588859	10.61	ppb	#	98
24) Ethyl-tert-Butyl ether...	4.790	59	514147	10.30	ppb	#	85
25) cis-1,2-Dichloroethylene	4.979	61	241528	10.26	ppb		94
26) 2-Butanone	5.021	72	12149m	9.44	ppb		
27) 2,2-Dichloropropane	4.957	77	184866	9.31	ppb	#	86
28) Tetrahydrofuran	5.266	42	29547	8.86	ppb		95
29) Bromochloromethane	5.216	49	130936	10.49	ppb	#	84
30) Chloroform	5.288	83	267653	10.51	ppb	#	97
31) 1,1,1-Trichloroethane	5.441	97	266024	11.01	ppb		97
32) Cyclohexane	5.475	56	312009	11.76	ppb		93
33) 1,1-Dichloropropylene	5.603	75	197036	10.30	ppb		86
35) Carbon Tetrachloride	5.597	117	229703	10.09	ppb	#	55
36) tert-Amyl alcohol (TAA)	5.828	59	118271	96.05	ppb		97
37) 1,2-Dichloroethane	5.847	62	188782	10.45	ppb		100
38) Benzene	5.806	78	600526	10.18	ppb		96
39) tert-Amyl methyl ether...	5.886	73	418750	9.88	ppb	#	99
41) Trichloroethylene	6.429	95	165772	9.86	ppb		93
42) Methyl Cyclohexane	6.582	83	280874	10.63	ppb		91
43) Methyl Methacrylate	6.752	69	74517	8.47	ppb		87
44) Dibromomethane	6.793	93	80045	9.37	ppb		96
45) Bromodichloromethane	6.941	83	199883	9.55	ppb		97
46) 1,2-Dichloropropane	6.660	63	155807	9.49	ppb	#	99
47) 1,4-Dioxane	6.813	88	15390m	48.09	ppb		
48) 2-Chloroethyl vinyl ether	7.233	63	1468m	9.68	ppb		
49) cis-1,3-Dichloropropene	7.369	75	219323	8.94	ppb		94
50) 4-Methyl-2-Pentanone	7.508	43	128403	9.54	ppb	#	91
52) Toluene	7.686	91	729313	10.04	ppb		100
53) trans-1,3-Dichloropropene	7.937	75	177256	8.46	ppb		98

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613935.D
Acq On : 4 Apr 2019 12:11 am
InstName : QVOA6
Operator : LLJ
Sample : BD90225-BSD1
Misc : QBQV6040319A ICV AQU
ALS Vial : 84 Sample Multiplier: 1

Quant Time: Apr 04 06:54:13 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

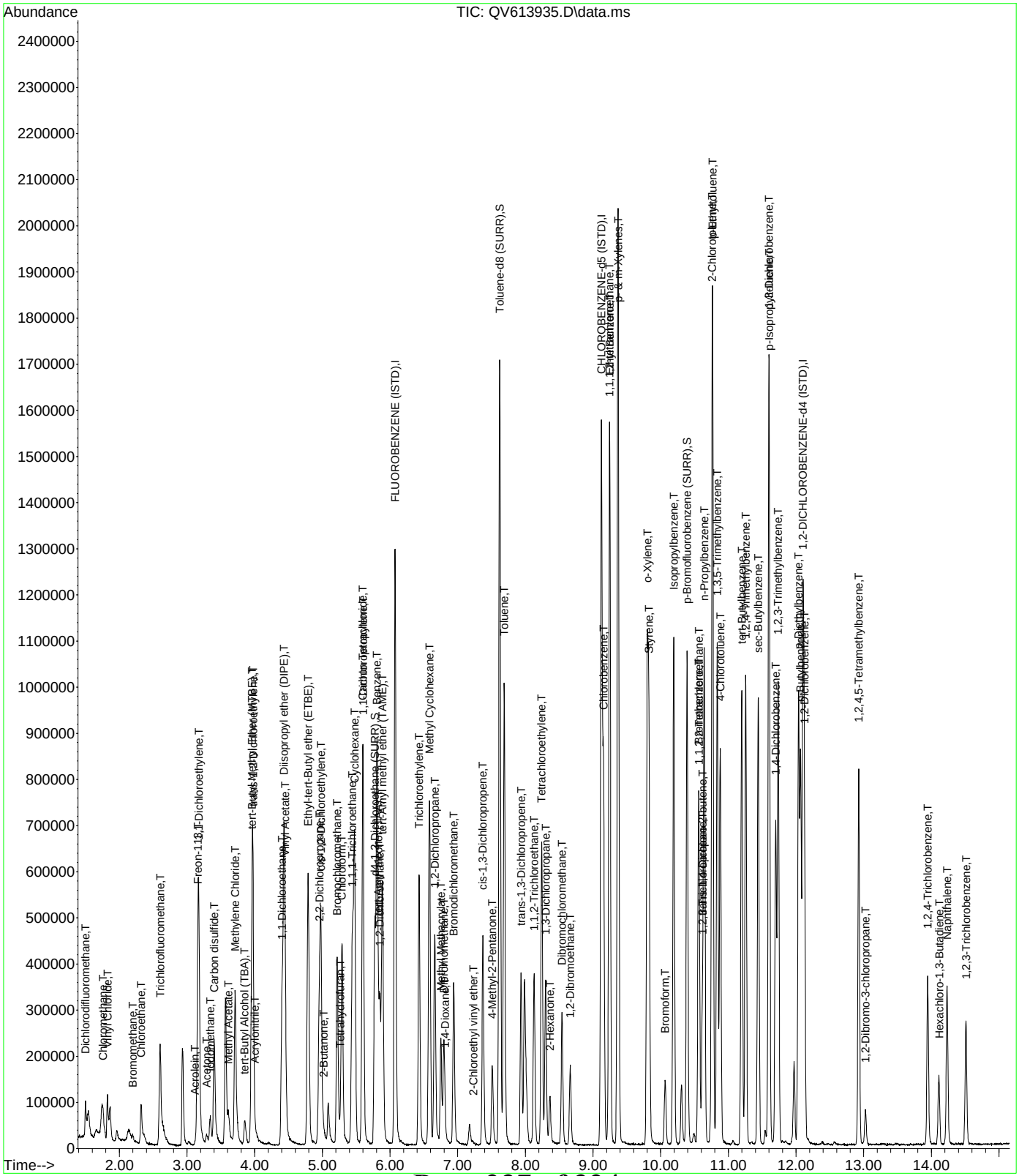
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.129	97	114505	8.97	ppb		92
55) 1,3-Dichloropropane	8.301	76	185502	9.17	ppb		95
56) Tetrachloroethylene	8.240	166	175543	7.70	ppb	#	100
57) 2-Hexanone	8.362	43	75809	8.54	ppb		97
58) Dibromochloromethane	8.541	129	152917	8.43	ppb		99
59) 1,2-Dibromoethane	8.663	107	117069	9.08	ppb		97
60) Chlorobenzene	9.155	112	464714	9.78	ppb		92
61) 1,1,1,2-tetrachloroethane	9.242	131	173076	8.90	ppb		98
62) Ethyl Benzene	9.244	91	777074	10.39	ppb		97
63) p- & m-Xylenes	9.370	91	1184034	21.01	ppb		98
64) o-Xylene	9.804	91	594868	9.97	ppb		99
65) Styrene	9.826	104	459793	9.49	ppb		96
66) Bromoform	10.065	173	67485	6.63	ppb	#	79
68) p-Ethyltoluene	10.766	105	765458	12.71	ppb	#	83
69) Isopropylbenzene	10.193	105	758290	11.72	ppb		97
71) 1,1,2,2-Tetrachloroethane	10.566	83	116126	10.40	ppb	#	98
72) Bromobenzene	10.560	77	231679	10.80	ppb		92
73) trans-1,4-Dichloro-2-b...	10.619	75	117441	10.03	ppb		92
74) 1,2,3-Trichloropropane	10.616	110	40294	10.81	ppb	#	42
75) n-Propylbenzene	10.644	91	835279	11.77	ppb		96
76) 2-Chlorotoluene	10.761	91	556484	11.67	ppb		99
77) 4-Chlorotoluene	10.880	91	485065	11.21	ppb		99
78) 1,3,5-Trimethylbenzene	10.836	105	602760	11.41	ppb		97
79) tert-Butylbenzene	11.198	119	540921	11.54	ppb		97
80) 1,2,4-Trimethylbenzene	11.259	105	575229	11.00	ppb		98
81) sec-Butylbenzene	11.440	105	729036	12.23	ppb		97
82) 1,3-Dichlorobenzene	11.598	146	326119	10.36	ppb		98
83) p-Isopropyltoluene	11.604	119	650543	11.41	ppb		97
84) 1,4-Dichlorobenzene	11.701	146	315681	10.20	ppb		98
85) 1,2,3-Trimethylbenzene	11.735	105	603375	13.48	ppb		96
86) p-Diethylbenzene	12.035	105	328266	13.00	ppb	#	96
87) 1,2-Dichlorobenzene	12.124	146	293899	10.41	ppb		99
88) n-Butylbenzene	12.066	91	579353	12.70	ppb	#	93
89) 1,2-Dibromo-3-chloropr...	13.026	75	15563	8.63	ppb	#	43
90) 1,2,4,5-Tetramethylben...	12.925	119	462566	11.18	ppb		99
91) 1,2,4-Trichlorobenzene	13.944	180	110940	8.49	ppb		96
92) Hexachloro-1,3-Butadiene	14.116	225	25111	7.77	ppb	#	77
93) Naphthalene	14.230	128	309569	8.35	ppb		99
94) 1,2,3-Trichlorobenzene	14.514	180	86115	8.22	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040219A\
Data File : QV613935.D
Acq On : 4 Apr 2019 12:11 am
InstName : QVOA6
Operator : LLJ
Sample : BD90225-BSD1
Misc : QBQV6040319A ICV AQU
ALS Vial : 84 Sample Multiplier: 1

Quant Time: Apr 04 06:54:13 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration



LCS RAW DATA

SDG: 19C1266
CLASS: VOA
METHOD: EPA 8260C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614015.D
Acq On : 5 Apr 2019 3:00 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90281-BS1
Misc : QBQV6040519A ICV AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 05 15:17:13 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.084	70	195319	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.125	117	891014	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.099	152	267432	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.783	65	248862	10.08	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 100.80%			
51) Toluene-d8 (SURR)	7.622	98	1177261	10.58	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 105.80%			
70) p-Bromofluorobenzene (...	10.391	95	320050	11.10	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 111.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.501	85	90292m	8.80	ppb	
3) Chloromethane	1.741	50	109208	9.23	ppb	# 43
4) Vinyl Chloride	1.832	62	129044	9.58	ppb	# 53
5) Bromomethane	2.214	94	29292m	9.11	ppb	
6) Chloroethane	2.330	64	82563m	8.70	ppb	
7) Trichlorofluoromethane	2.614	101	188247	9.58	ppb	100
9) Freon-113	3.179	101	129713	9.96	ppb	# 68
10) 1,1-Dichloroethylene	3.187	61	191981	9.75	ppb	89
11) Acrolein	3.140	56	12464m	8.03	ppb	
12) Acetone	3.301	43	34431m	8.01	ppb	
13) Iodomethane	3.354	142	74280	8.69	ppb	100
14) Methyl Acetate	3.627	43	68559	8.59	ppb	99
15) Carbon disulfide	3.413	76	282793	9.23	ppb	100
16) tert-Butyl Alcohol (TBA)	3.866	59	57552	36.43	ppb	# 1
17) Methylene Chloride	3.722	49	194898	10.17	ppb	88
18) Acrylonitrile	4.008	53	31344m	9.22	ppb	
19) trans-1,2-Dichloroethy...	3.983	61	186053	9.27	ppb	# 87
20) tert-Butyl Methyl Ethe...	3.972	73	334680	8.78	ppb	# 88
21) 1,1-Dichloroethane	4.412	63	253354	9.97	ppb	100
22) Vinyl Acetate	4.456	43	474209	10.11	ppb	100
23) Diisopropyl ether (DIPE)	4.445	45	547636	9.89	ppb	# 98
24) Ethyl-tert-Butyl ether...	4.798	59	469735	9.43	ppb	# 98
25) cis-1,2-Dichloroethylene	4.985	61	225725	9.61	ppb	94
26) 2-Butanone	5.032	72	11225m	8.75	ppb	
27) 2,2-Dichloropropane	4.965	77	177608	8.97	ppb	95
28) Tetrahydrofuran	5.282	42	32677m	9.76	ppb	
29) Bromochloromethane	5.227	49	122317	9.82	ppb	# 83
30) Chloroform	5.299	83	247977	9.76	ppb	# 84
31) 1,1,1-Trichloroethane	5.449	97	250657	10.40	ppb	# 82
32) Cyclohexane	5.486	56	275996	10.43	ppb	92
33) 1,1-Dichloropropylene	5.611	75	181829	9.53	ppb	85
35) Carbon Tetrachloride	5.605	117	217135	9.56	ppb	# 54
36) tert-Amyl alcohol (TAA)	5.831	59	103971	84.64	ppb	# 83
37) 1,2-Dichloroethane	5.856	62	168492	9.35	ppb	99
38) Benzene	5.814	78	557711	9.48	ppb	95
39) tert-Amyl methyl ether...	5.895	73	378658	8.96	ppb	# 100
41) Trichloroethylene	6.437	95	154364	9.29	ppb	92
42) Methyl Cyclohexane	6.587	83	248898	9.53	ppb	91
43) Methyl Methacrylate	6.754	69	68038	7.82	ppb	90
44) Dibromomethane	6.799	93	74997m	8.88	ppb	
45) Bromodichloromethane	6.943	83	182889	8.84	ppb	97
46) 1,2-Dichloropropane	6.662	63	144437	8.90	ppb	# 99
47) 1,4-Dioxane	6.815	88	14939m	47.23	ppb	
48) 2-Chloroethyl vinyl ether	7.227	63	1362m	9.02	ppb	
49) cis-1,3-Dichloropropene	7.372	75	197088	8.12	ppb	96
50) 4-Methyl-2-Pentanone	7.514	43	112415	8.45	ppb	# 91
52) Toluene	7.692	91	682046	9.50	ppb	100
53) trans-1,3-Dichloropropene	7.939	75	170195m	8.22	ppb	

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614015.D
Acq On : 5 Apr 2019 3:00 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90281-BS1
Misc : QBQV6040519A ICV AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 05 15:17:13 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

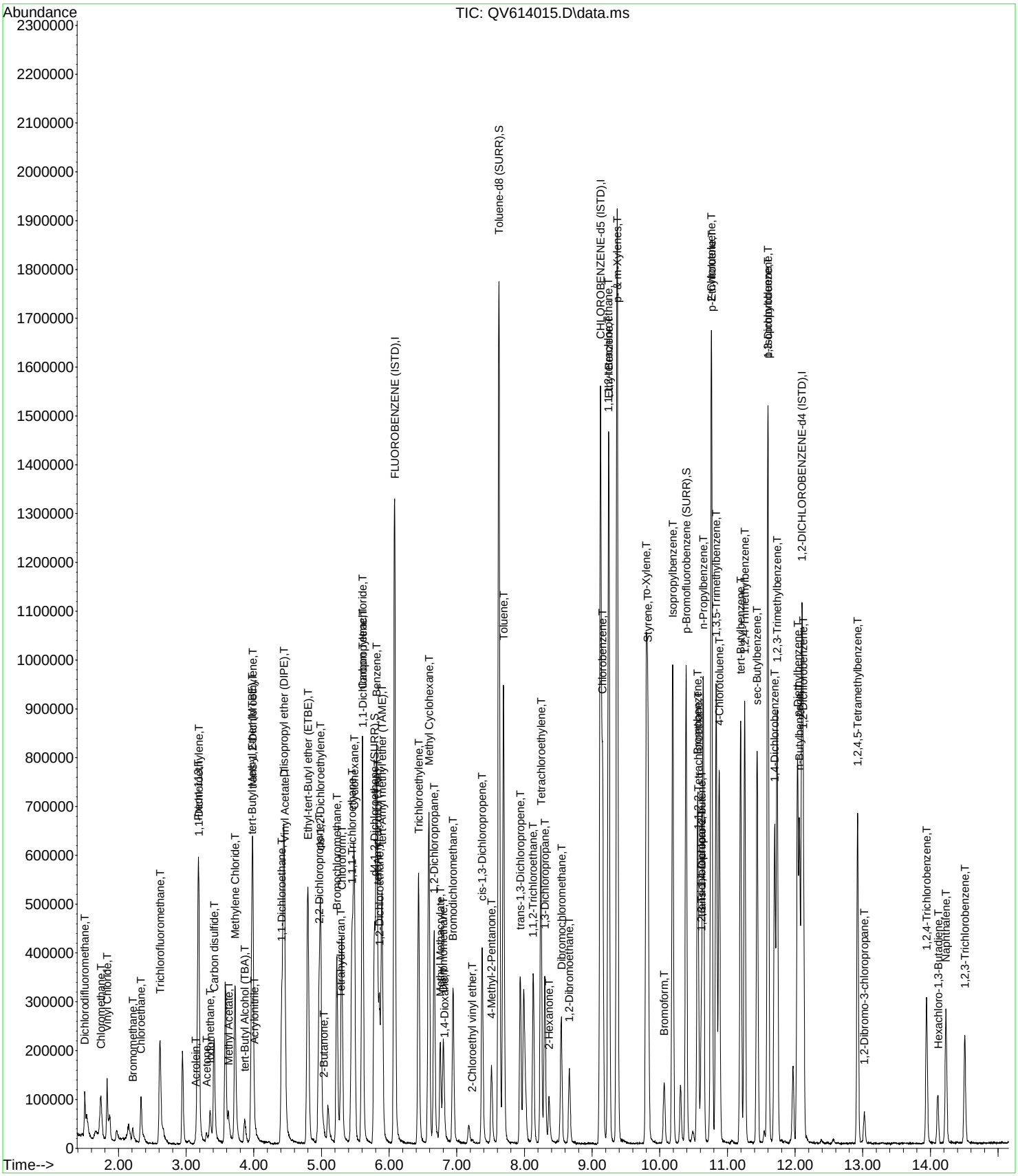
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.126	97	104458	8.28	ppb		93
55) 1,3-Dichloropropane	8.301	76	170706	8.53	ppb	#	87
56) Tetrachloroethylene	8.246	166	167838	7.45	ppb	#	77
57) 2-Hexanone	8.362	43	76432m	8.71	ppb		
58) Dibromochloromethane	8.546	129	144995	8.09	ppb		98
59) 1,2-Dibromoethane	8.663	107	109156	8.57	ppb		95
60) Chlorobenzene	9.153	112	428956	9.14	ppb		95
61) 1,1,1,2-tetrachloroethane	9.242	131	161586	8.40	ppb		97
62) Ethyl Benzene	9.247	91	727862	9.84	ppb		98
63) p- & m-Xylenes	9.370	91	1106186	19.86	ppb		99
64) o-Xylene	9.801	91	558756	9.47	ppb		99
65) Styrene	9.823	104	429728	8.98	ppb		96
66) Bromoform	10.065	173	61939	6.16	ppb		99
68) p-Ethyltoluene	10.766	105	684414m	12.79	ppb		
69) Isopropylbenzene	10.190	105	702036	12.21	ppb		97
71) 1,1,2,2-Tetrachloroethane	10.569	83	105662	10.65	ppb	#	99
72) Bromobenzene	10.558	77	209983	11.02	ppb		93
73) trans-1,4-Dichloro-2-b...	10.619	75	103022	9.91	ppb		95
74) 1,2,3-Trichloropropane	10.616	110	35826	10.82	ppb	#	17
75) n-Propylbenzene	10.644	91	770251	12.22	ppb		96
76) 2-Chlorotoluene	10.761	91	503509	11.88	ppb		99
77) 4-Chlorotoluene	10.880	91	434846	11.31	ppb		99
78) 1,3,5-Trimethylbenzene	10.833	105	528281	11.26	ppb	#	93
79) tert-Butylbenzene	11.195	119	468977	11.26	ppb		98
80) 1,2,4-Trimethylbenzene	11.256	105	508033	10.93	ppb		97
81) sec-Butylbenzene	11.437	105	609817	11.52	ppb		97
82) 1,3-Dichlorobenzene	11.598	146	294187	10.52	ppb		98
83) p-Isopropyltoluene	11.598	119	536352	10.59	ppb		97
84) 1,4-Dichlorobenzene	11.696	146	287508	10.45	ppb		98
85) 1,2,3-Trimethylbenzene	11.734	105	529361	13.31	ppb		96
86) p-Diethylbenzene	12.038	105	257677	11.48	ppb	#	94
87) 1,2-Dichlorobenzene	12.121	146	264913	10.56	ppb	#	88
88) n-Butylbenzene	12.063	91	448651	11.07	ppb	#	91
89) 1,2-Dibromo-3-chloropr...	13.023	75	14147	8.83	ppb		99
90) 1,2,4,5-Tetramethylben...	12.922	119	392588	10.70	ppb		98
91) 1,2,4-Trichlorobenzene	13.941	180	93166	8.02	ppb		94
92) Hexachloro-1,3-Butadiene	14.113	225	16630	5.79	ppb		95
93) Naphthalene	14.227	128	247457	7.52	ppb		99
94) 1,2,3-Trichlorobenzene	14.508	180	68142	7.32	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614015.D
Acq On : 5 Apr 2019 3:00 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90281-BS1
Misc : QBQV6040519A ICV AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 05 15:17:13 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614018.D
Acq On : 5 Apr 2019 4:29 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90281-BSD1
Misc : QBQV6040519A ICV AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 05 17:02:25 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.081	70	198780	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.122	117	937217	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.102	152	290563	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.781	65	271063	10.79	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 107.90%				
51) Toluene-d8 (SURR)	7.622	98	1204274	10.29	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 102.90%				
70) p-Bromofluorobenzene (...	10.388	95	349998	11.17	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 111.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.501	85	95641m	9.15	ppb		
3) Chloromethane	1.746	50	114791	9.65	ppb	#	44
4) Vinyl Chloride	1.833	62	136305m	9.94	ppb		
5) Bromomethane	2.208	94	33085m	9.78	ppb		
6) Chloroethane	2.333	64	82575	8.55	ppb		92
7) Trichlorofluoromethane	2.612	101	181794	9.09	ppb		97
9) Freon-113	3.176	101	143355	10.82	ppb		98
10) 1,1-Dichloroethylene	3.187	61	195631	9.77	ppb		86
11) Acrolein	3.082	56	205	0.51	ppb		92
12) Acetone	3.299	43	37295m	8.52	ppb		
13) Iodomethane	3.352	142	79852	9.07	ppb		100
14) Methyl Acetate	3.624	43	72167	8.89	ppb		99
15) Carbon disulfide	3.413	76	299625	9.62	ppb		100
16) tert-Butyl Alcohol (TBA)	3.866	59	60169	37.40	ppb	#	1
17) Methylene Chloride	3.719	49	213446	10.94	ppb		89
18) Acrylonitrile	4.005	53	35260m	10.15	ppb		
19) trans-1,2-Dichloroethy...	3.986	61	195326	9.56	ppb	#	74
20) tert-Butyl Methyl Ethe...	3.969	73	370635	9.55	ppb	#	88
21) 1,1-Dichloroethane	4.414	63	270047	10.44	ppb	#	88
22) Vinyl Acetate	4.462	43	540026	11.31	ppb		100
23) Diisopropyl ether (DIPE)	4.442	45	582743	10.34	ppb	#	98
24) Ethyl-tert-Butyl ether...	4.798	59	512431	10.11	ppb	#	97
25) cis-1,2-Dichloroethylene	4.985	61	246082	10.30	ppb		95
26) 2-Butanone	5.024	72	12736m	9.75	ppb		
27) 2,2-Dichloropropane	4.965	77	232156	11.52	ppb	#	86
28) Tetrahydrofuran	5.280	42	29369	8.68	ppb	#	83
29) Bromochloromethane	5.227	49	135574	10.69	ppb	#	84
30) Chloroform	5.299	83	263889	10.20	ppb	#	99
31) 1,1,1-Trichloroethane	5.449	97	272270	11.10	ppb	#	82
32) Cyclohexane	5.483	56	299585	11.12	ppb		92
33) 1,1-Dichloropropylene	5.608	75	197546	10.17	ppb		85
35) Carbon Tetrachloride	5.602	117	236409	10.23	ppb	#	55
36) tert-Amyl alcohol (TAA)	5.831	59	114183	91.33	ppb	#	83
37) 1,2-Dichloroethane	5.853	62	189387	10.33	ppb		100
38) Benzene	5.811	78	594035	9.92	ppb		94
39) tert-Amyl methyl ether...	5.895	73	424147	9.86	ppb	#	90
41) Trichloroethylene	6.434	95	165081	9.44	ppb		92
42) Methyl Cyclohexane	6.587	83	283992	10.34	ppb		91
43) Methyl Methacrylate	6.760	69	75607	8.26	ppb		90
44) Dibromomethane	6.799	93	83198	9.37	ppb		96
45) Bromodichloromethane	6.946	83	200047	9.20	ppb		96
46) 1,2-Dichloropropane	6.662	63	155671	9.12	ppb	#	99
47) 1,4-Dioxane	6.816	88	14994m	45.06	ppb		
48) 2-Chloroethyl vinyl ether	7.230	63	1636m	10.46	ppb		
49) cis-1,3-Dichloropropene	7.378	75	227772	8.93	ppb		94
50) 4-Methyl-2-Pentanone	7.511	43	134485	9.61	ppb	#	92
52) Toluene	7.689	91	747418	9.89	ppb		100
53) trans-1,3-Dichloropropene	7.937	75	188312	8.65	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614018.D
Acq On : 5 Apr 2019 4:29 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90281-BSD1
Misc : QBQV6040519A ICV AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 05 17:02:25 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration

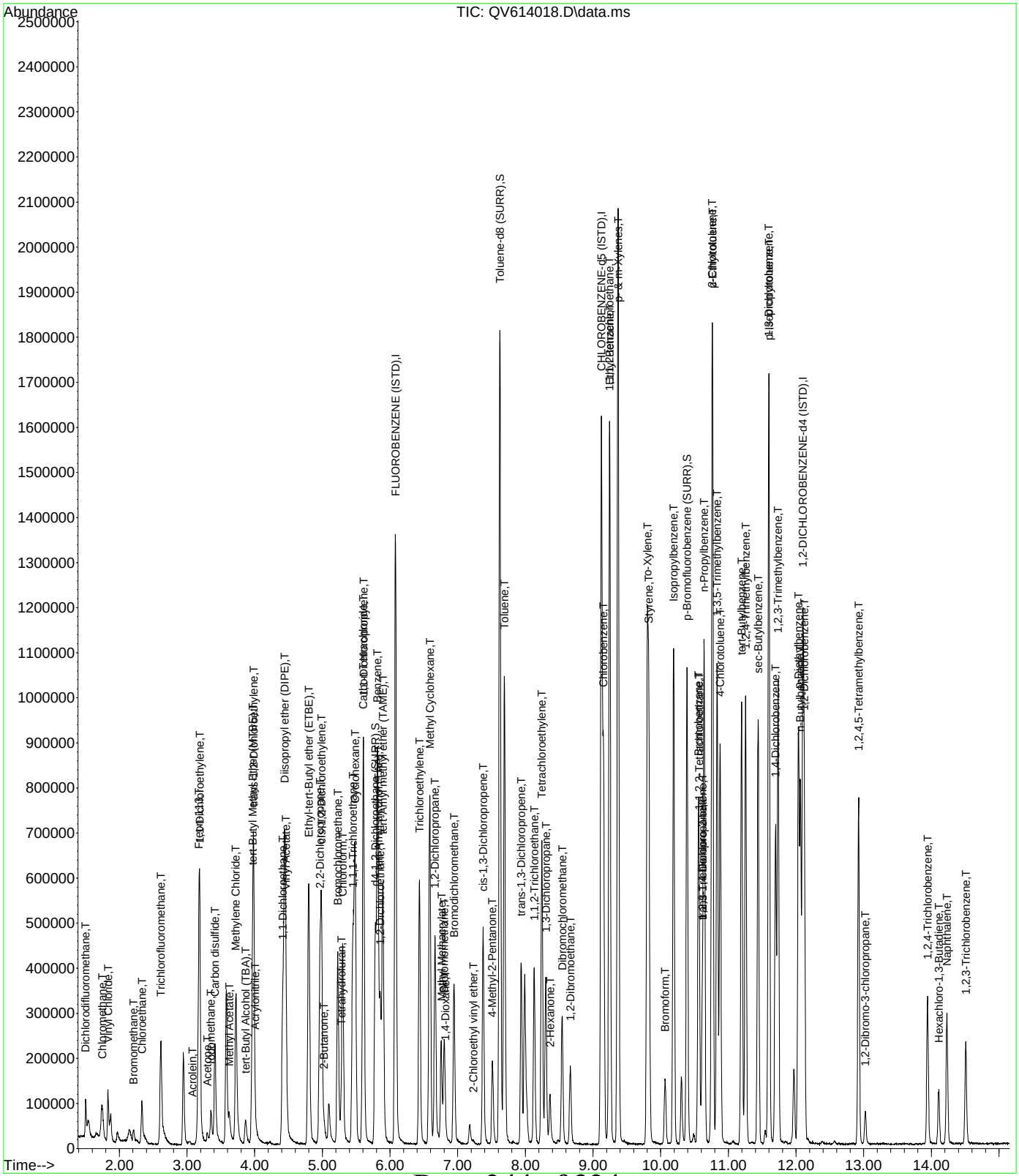
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.132	97	115955	8.74	ppb		93
55) 1,3-Dichloropropane	8.304	76	188023	8.94	ppb		95
56) Tetrachloroethylene	8.243	166	177990	7.51	ppb	#	77
57) 2-Hexanone	8.365	43	82232	8.91	ppb		99
58) Dibromochloromethane	8.546	129	159935	8.48	ppb		99
59) 1,2-Dibromoethane	8.666	107	122099	9.11	ppb		97
60) Chlorobenzene	9.153	112	466946	9.46	ppb		95
61) 1,1,1,2-tetrachloroethane	9.242	131	180975	8.95	ppb		98
62) Ethyl Benzene	9.247	91	782741	10.06	ppb		97
63) p- & m-Xylenes	9.370	91	1204734	20.56	ppb		98
64) o-Xylene	9.804	91	609338	9.82	ppb		99
65) Styrene	9.823	104	468642	9.31	ppb		96
66) Bromoform	10.062	173	69483	6.56	ppb		98
68) p-Ethyltoluene	10.766	105	776435	13.36	ppb	#	83
69) Isopropylbenzene	10.190	105	772009	12.36	ppb		96
71) 1,1,2,2-Tetrachloroethane	10.569	83	120819	11.21	ppb	#	69
72) Bromobenzene	10.558	77	232629	11.24	ppb		95
73) trans-1,4-Dichloro-2-b...	10.616	75	121655	10.77	ppb	#	51
74) 1,2,3-Trichloropropane	10.616	110	41616	11.60	ppb	#	41
75) n-Propylbenzene	10.641	91	846238	12.35	ppb		96
76) 2-Chlorotoluene	10.761	91	558122	12.12	ppb		98
77) 4-Chlorotoluene	10.878	91	484822	11.60	ppb		98
78) 1,3,5-Trimethylbenzene	10.833	105	591769	11.61	ppb		96
79) tert-Butylbenzene	11.195	119	530164	11.72	ppb		97
80) 1,2,4-Trimethylbenzene	11.256	105	563380	11.16	ppb		97
81) sec-Butylbenzene	11.440	105	714360	12.42	ppb		97
82) 1,3-Dichlorobenzene	11.595	146	324475	10.68	ppb		98
83) p-Isopropyltoluene	11.601	119	631989	11.49	ppb		98
84) 1,4-Dichlorobenzene	11.698	146	316348	10.59	ppb		98
85) 1,2,3-Trimethylbenzene	11.735	105	598744	13.85	ppb		96
86) p-Diethylbenzene	12.035	105	263147m	10.79	ppb		
87) 1,2-Dichlorobenzene	12.121	146	288484	10.58	ppb	#	73
88) n-Butylbenzene	12.063	91	495090m	11.24	ppb		
89) 1,2-Dibromo-3-chloropr...	13.023	75	14446	8.30	ppb		91
90) 1,2,4,5-Tetramethylben...	12.925	119	438435	10.98	ppb		99
91) 1,2,4-Trichlorobenzene	13.946	180	101570m	8.05	ppb		
92) Hexachloro-1,3-Butadiene	14.111	225	20158	6.46	ppb	#	93
93) Naphthalene	14.227	128	262329m	7.33	ppb		
94) 1,2,3-Trichlorobenzene	14.508	180	69909	6.91	ppb	#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\040519A\
Data File : QV614018.D
Acq On : 5 Apr 2019 4:29 pm
InstName : QVOA6
Operator : LLJ
Sample : BD90281-BSD1
Misc : QBQV6040519A ICV AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 05 17:02:25 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO048.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Mar 19 10:53:01 2019
Response via : Initial Calibration



BENCHSHEETS

SDG: 19C1266

CLASS: VOA

METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BD90225

Prepared: **04/03/2019 07:00**

York Analytical Laboratories, Inc.

Printed: 4/9/2019 8:58:40AM

Matrix: Water **Preparation EPA 5030B** **Surrogate used: Y17H086** **1** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
19C1171-14 A	Volatile Organics, 8	25	25							<2	NA		
19C1171-15 A	Volatile Organics, 8	25	25							<2	NA		
19C1202-01RE1 C	Volatile Organics, (	25	25							<2	NA		From BD90042 by LLJ on 04/04/2019
19C1215-05RE2 C	Volatile Organics, I	25	25							<2	NA		From BD90105 by LLJ on 04/04/2019
19C1215-07RE2 A	Volatile Organics, I	25	25							<2	NA		From BD90105 by LLJ on 04/04/2019
19C1230-06RE1 C	Volatile Organics, I	25	25							<2	NA		From BD90080 by LLJ on 04/04/2019
19C1266-01 B	Volatile Organics, 8	25	25							<2	NA		
19C1266-02 B	Volatile Organics, 8	25	25							<2	NA		
19C1266-03 B	Volatile Organics, 8	25	25							<2	NA		
19C1266-04 B	Volatile Organics, 8	25	25							<2	NA		
19C1266-05 B	Volatile Organics, 8	25	25							<2	NA		
19C1266-06 B	Volatile Organics, 8	25	25							<2	NA		
19C1272-23 A	Volatile Organics, 8	25	25							<2	NA		
19C1272-31 A	Volatile Organics, 8	25	25							<2	NA		
19C1273-11 A	Volatile Organics, 8	25	25							<2	NA		
19C1275-02 B	Volatile Organics, (	25	25							<2	NA		
19C1281-02 B	Volatile Organics, (	25	25							<2	NA		
19C1281-04 B	Volatile Organics, (	25	25							<2	NA		
19C1294-07 A	Volatile Organics, 1	25	25							<2	NA		
BD90225-BLK1	QC	25	25										
BD90225-BS1	QC	25	25	Y19C227	5								
BD90225-BSD1	QC	25	25	Y19C227	5								

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by LLJ **Date:** 04/02/2019 07:00

BENCHSHEETS

SDG: 19C1266

CLASS: VOA

METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BD90281

Prepared: **04/03/2019 07:00**

York Analytical Laboratories, Inc.

Printed: 4/9/2019 8:58:11AM

Matrix: Water **Preparation EPA 5030B** **Surrogate used: Y17H086** **1** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
19C1266-01RE1 C	Volatile Organics, 8	25	25							<2	NA		From BD90225 by LLJ on 04/05/2019
19C1266-05RE1 C	Volatile Organics, 8	25	25							<2	NA		From BD90225 by LLJ on 04/05/2019
19C1287-05RE2 A	Volatile Organics, (	25	25							<2	NA		From BD90224 by LLJ on 04/05/2019
19C1292-01RE2 A	Volatile Organics, (	25	25							<2	NA		From BD90280 by LLJ on 04/05/2019
19C1292-05RE2 A	Volatile Organics, (	25	25							<2	NA		From BD90280 by LLJ on 04/05/2019
19D0005-01 B	Volatile Organics, 8	25	25							<2	NA		
19D0005-02 B	Volatile Organics, 8	25	25							<2	NA		
19D0005-03 B	Volatile Organics, 8	25	25							<2	NA		
19D0005-04 B	Volatile Organics, 8	25	25							<2	NA		
19D0005-05 B	Volatile Organics, 8	25	25							<2	NA		
19D0005-06 B	Volatile Organics, 8	25	25							<2	NA		
19D0005-07 B	Volatile Organics, 8	25	25							<2	NA		
BD90281-BLK1	QC	25	25										
BD90281-BS1	QC	25	25	Y19C227	5								
BD90281-BSD1	QC	25	25	Y19C227	5								

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by **LLJ** **Date:** **04/05/2019 07:19**

York Analytical Laboratories, Inc.
SDG: 19C1266
CLASS: METALS
METHOD: EPA 6010D

DATA PACKAGE COVER PAGE

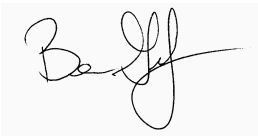
EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 0319	19C1266-01
KC-MW-02 0319	19C1266-02
KC-MW-05 0319	19C1266-03
KC-MW-DUP 0319	19C1266-05

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 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: 4/11/2019 Title: Laboratory Director

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010D

KC-MW-01 0319

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BD90044	Laboratory ID:	BD90044-MS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

Source Sample Name: KC-MW-01 0319

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Antimony	0.278	ND	0.308	111	75 - 125
Arsenic	2.22	ND	2.18	98.1	75 - 125
Beryllium	0.0556	ND	0.056	102	75 - 125
Cadmium	0.0556	0.060	0.112	93.1	75 - 125
Chromium	0.222	0.138	0.354	97.0	75 - 125
Copper	0.278	ND	0.300	108	75 - 125
Lead	0.556	ND	0.529	95.3	75 - 125
Nickel	0.556	0.145	0.709	101	75 - 125
Selenium	2.22	0.085	2.02	87.0	75 - 125
Silver	0.0556	ND	0.059	106	75 - 125
Thallium	2.22	ND	2.33	105	75 - 125
Zinc	0.556	0.138	0.662	94.4	75 - 125

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

* Values outside of QC limits

DUPLICATES

KC-MW-01 0319

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Matrix: Water
Laboratory ID: BD90044-DUP1
Batch: BD90044
Lab Source ID: 19C1266-01
Preparation: EPA 3015A
Initial/Final: 45 mL / 50 mL
Source Sample Name: KC-MW-01 0319
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Antimony	20	ND		ND				EPA 6010D
Arsenic	20	ND		ND				EPA 6010D
Beryllium	20	ND		ND				EPA 6010D
Cadmium	20	0.060		0.061		0.511		EPA 6010D
Chromium	20	0.138		0.139		1.02		EPA 6010D
Copper	20	ND		ND				EPA 6010D
Lead	20	ND		ND				EPA 6010D
Nickel	20	0.145		0.145		0.251		EPA 6010D
Selenium	20	0.085		0.091		6.79		EPA 6010D
Silver	20	ND		ND				EPA 6010D
Thallium	20	ND		ND				EPA 6010D
Zinc	20	0.138		0.131		5.21		EPA 6010D

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BD90044	Laboratory ID:	BD90044-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Antimony	0.278	0.300	108	80 - 120
Arsenic	2.22	2.13	95.7	80 - 120
Beryllium	0.0556	0.057	102	80 - 120
Cadmium	0.0556	0.058	104	80 - 120
Chromium	0.222	0.223	100	80 - 120
Copper	0.278	0.299	108	80 - 120
Lead	0.556	0.571	103	80 - 120
Nickel	0.556	0.590	106	80 - 120
Selenium	2.22	1.90	85.3	80 - 120
Silver	0.0556	0.056	101	80 - 120
Thallium	2.22	2.44	110	80 - 120
Zinc	0.556	0.561	101	80 - 120

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

* Values outside of QC limits

SERIAL DILUTION

EPA 6010D

KC-MW-01 0319

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Matrix: Water
Laboratory ID: Y9D0315-SRD1
Sequence: Y9D0315
Lab Source ID: 19C1266-01
Preparation: BD90044
Initial/Final: 45 / 50
Source Sample Name: KC-MW-01 0319
% Solids:

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method	QC Limits % Difference
Antimony	ND		ND				EPA 6010D	10
Arsenic	ND		ND				EPA 6010D	10
Beryllium	ND		0.003				EPA 6010D	10
Cadmium	0.060		0.081		34.3 *		EPA 6010D	10
Chromium	0.138		0.179		29.5 *		EPA 6010D	10
Copper	ND		ND				EPA 6010D	10
Lead	ND		ND				EPA 6010D	10
Nickel	0.145		0.212		46.1 *		EPA 6010D	10
Selenium	0.085		ND				EPA 6010D	10
Silver	ND		ND				EPA 6010D	10
Thallium	ND		ND				EPA 6010D	10
Zinc	0.138		0.189		37.2 *		EPA 6010D	10

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BD90044 Batch Matrix: Water Preparation: EPA 3015A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 0319	19C1266-01	qbi040319aRE_1-012	04/01/19 13:13	
KC-MW-02 0319	19C1266-02	qbi040319aRE_1-016	04/01/19 13:13	
KC-MW-05 0319	19C1266-03	qbi040319aRE_1-017	04/01/19 13:13	
KC-MW-DUP 0319	19C1266-05	qbi040319aRE_1-018	04/01/19 13:13	
Blank	BD90044-BLK1	qbi040319aRE_1-010	04/01/19 13:13	
LCS	BD90044-BS1	qbi040319aRE_1-011	04/01/19 13:13	
KC-MW-01 0319	BD90044-DUP1	qbi040319aRE_1-013	04/01/19 13:13	
KC-MW-01 0319	BD90044-MS1	qbi040319aRE_1-014	04/01/19 13:13	

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: WinLabICP Project: 41103.00 KINGSTON CVS

Sequence: Y9D0315 Calibration: 04/03/19 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y9D0315-ICB1	Antimony	-0.009	0.025	ug/mL		EPA 6010D
	Arsenic	0.001	0.015	ug/mL		EPA 6010D
	Beryllium	0.0002	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0001	0.003	ug/mL		EPA 6010D
	Chromium	-0.00009	0.005	ug/mL		EPA 6010D
	Copper	-0.0003	0.020	ug/mL		EPA 6010D
	Lead	-0.001	0.005	ug/mL		EPA 6010D
	Nickel	0.0008	0.010	ug/mL		EPA 6010D
	Selenium	-0.007	0.025	ug/mL		EPA 6010D
	Silver	-0.0004	0.005	ug/mL		EPA 6010D
	Thallium	0.004	0.025	ug/mL		EPA 6010D
	Zinc	0.0005	0.025	ug/mL		EPA 6010D
Y9D0315-CCB1	Antimony	-0.0001	0.025	ug/mL		EPA 6010D
	Arsenic	0.008	0.015	ug/mL		EPA 6010D
	Beryllium	0.0003	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0002	0.003	ug/mL		EPA 6010D
	Chromium	-0.0006	0.005	ug/mL		EPA 6010D
	Copper	-0.0003	0.020	ug/mL		EPA 6010D
	Lead	-0.002	0.005	ug/mL		EPA 6010D
	Nickel	0.001	0.010	ug/mL		EPA 6010D
	Selenium	-0.007	0.025	ug/mL		EPA 6010D
	Silver	0.0002	0.005	ug/mL		EPA 6010D
	Thallium	-0.003	0.025	ug/mL		EPA 6010D
	Zinc	0.0007	0.025	ug/mL		EPA 6010D
BD90044-BLK1	Antimony	0.001	0.028	mg/L		EPA 6010D
	Arsenic	0.003	0.017	mg/L		EPA 6010D
	Beryllium	0.0004	0.0006	mg/L		EPA 6010D
	Cadmium	0.001	0.003	mg/L		EPA 6010D
	Chromium	-0.00005	0.006	mg/L		EPA 6010D
	Copper	-0.0005	0.022	mg/L		EPA 6010D
	Lead	-0.0002	0.006	mg/L		EPA 6010D
	Nickel	0.001	0.011	mg/L		EPA 6010D
	Selenium	0.019	0.028	mg/L		EPA 6010D

FORM I **BLANKS**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: WinLabICP Project: 41103.00 KINGSTON CVS

Sequence: Y9D0315 Calibration: 04/03/19 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BD90044-BLK1	Silver	-0.0002	0.006	mg/L		EPA 6010D
	Thallium	0.003	0.028	mg/L		EPA 6010D
	Zinc	0.002	0.028	mg/L		EPA 6010D
Y9D0315-CCB2	Antimony	-0.007	0.025	ug/mL		EPA 6010D
	Arsenic	0.005	0.015	ug/mL		EPA 6010D
	Beryllium	0.0006	0.0005	ug/mL	*	EPA 6010D
	Cadmium	0.0002	0.003	ug/mL		EPA 6010D
	Chromium	-0.0007	0.005	ug/mL		EPA 6010D
	Copper	-0.001	0.020	ug/mL		EPA 6010D
	Lead	-0.003	0.005	ug/mL		EPA 6010D
	Nickel	0.004	0.010	ug/mL		EPA 6010D
	Selenium	0.009	0.025	ug/mL		EPA 6010D
	Silver	0.0001	0.005	ug/mL		EPA 6010D
	Thallium	-0.004	0.025	ug/mL		EPA 6010D
	Zinc	0.0007	0.025	ug/mL		EPA 6010D
Y9D0315-CCB3	Antimony	-0.006	0.025	ug/mL		EPA 6010D
	Arsenic	0.013	0.015	ug/mL		EPA 6010D
	Beryllium	0.0007	0.0005	ug/mL	*	EPA 6010D
	Cadmium	0.0003	0.003	ug/mL		EPA 6010D
	Chromium	-0.0004	0.005	ug/mL		EPA 6010D
	Copper	-0.002	0.020	ug/mL		EPA 6010D
	Lead	-0.005	0.005	ug/mL		EPA 6010D
	Nickel	0.006	0.010	ug/mL		EPA 6010D
	Selenium	-0.0002	0.025	ug/mL		EPA 6010D
	Silver	-0.0004	0.005	ug/mL		EPA 6010D
	Thallium	0.004	0.025	ug/mL		EPA 6010D
	Zinc	0.0007	0.025	ug/mL		EPA 6010D

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Sequence: Y9D0315
Instrument: WinLabICP
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y9D0315-ICV1	qbi040319aRE_1-001	04/03/19 10:43
Initial Cal Blank	Y9D0315-ICB1	qbi040319aRE_1-002	04/03/19 10:45
Instrument RL Check	Y9D0315-CRL1	qbi040319aRE_1-003	04/03/19 10:48
Interference Check A	Y9D0315-IFA1	qbi040319aRE_1-005	04/03/19 10:53
Interference Check B	Y9D0315-IFB1	qbi040319aRE_1-006	04/03/19 10:55
Calibration Check	Y9D0315-CCV1	qbi040319aRE_1-007	04/03/19 10:57
Calibration Blank	Y9D0315-CCB1	qbi040319aRE_1-008	04/03/19 11:00
Blank	BD90044-BLK1	qbi040319aRE_1-010	04/03/19 11:05
LCS	BD90044-BS1	qbi040319aRE_1-011	04/03/19 11:07
KC-MW-01 0319	19C1266-01	qbi040319aRE_1-012	04/03/19 11:10
KC-MW-01 0319	BD90044-DUP1	qbi040319aRE_1-013	04/03/19 11:12
KC-MW-01 0319	BD90044-MS1	qbi040319aRE_1-014	04/03/19 11:15
KC-MW-02 0319	19C1266-02	qbi040319aRE_1-016	04/03/19 11:20
KC-MW-05 0319	19C1266-03	qbi040319aRE_1-017	04/03/19 11:22
KC-MW-DUP 0319	19C1266-05	qbi040319aRE_1-018	04/03/19 11:25
Calibration Check	Y9D0315-CCV2	qbi040319aRE_1-019	04/03/19 11:28
Calibration Blank	Y9D0315-CCB2	qbi040319aRE_1-020	04/03/19 11:30
KC-MW-01 0319	Y9D0315-SRD1	qbi040319aRE_1-022	04/03/19 11:35
Calibration Check	Y9D0315-CCV3	qbi040319aRE_1-031	04/03/19 11:57
Calibration Blank	Y9D0315-CCB3	qbi040319aRE_1-032	04/03/19 12:00

HOLDING TIME SUMMARY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

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 0319	03/28/19 13:39	03/29/19 14:15	04/01/19 13:13	3.98	180.00	04/03/19 11:10	5.90	180.00	
KC-MW-02 0319	03/28/19 14:15	03/29/19 14:15	04/01/19 13:13	3.96	180.00	04/03/19 11:20	5.88	180.00	
KC-MW-05 0319	03/28/19 10:18	03/29/19 14:15	04/01/19 13:13	4.12	180.00	04/03/19 11:22	6.05	180.00	
KC-MW-DUP 0319	03/28/19 00:00	03/29/19 14:15	04/01/19 13:13	4.55	180.00	04/03/19 11:25	6.48	180.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19C1266

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** WinLabICP

Analyte	LOD	LOQ	Units
Antimony	0.025	0.025	mg/L
Arsenic	0.015	0.015	mg/L
Beryllium	0.0005	0.0005	mg/L
Cadmium	0.003	0.003	mg/L
Chromium	0.005	0.005	mg/L
Copper	0.020	0.020	mg/L
Lead	0.005	0.005	mg/L
Nickel	0.010	0.010	mg/L
Selenium	0.025	0.025	mg/L
Silver	0.005	0.005	mg/L
Thallium	0.025	0.025	mg/L
Zinc	0.025	0.025	mg/L

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-01 0319

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19C1266-01 File ID: qbi040319aRE_1-012

Sampled: 03/28/19 13:39 Prepared: 04/01/19 13:13 Analyzed: 04/03/19 11:10

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BD90044 Sequence: Y9D0315 Calibration: 04/03/19 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.060	1		EPA 6010D
7440-47-3	Chromium	0.138	1		EPA 6010D
7440-50-8	Copper	0.022	1	U	EPA 6010D
7439-92-1	Lead	0.006	1	U	EPA 6010D
7440-02-0	Nickel	0.145	1		EPA 6010D
7782-49-2	Selenium	0.085	1		EPA 6010D
7440-22-4	Silver	0.006	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.138	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-02 0319

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19C1266-02 File ID: qbi040319aRE_1-016

Sampled: 03/28/19 14:15 Prepared: 04/01/19 13:13 Analyzed: 04/03/19 11:20

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BD90044 Sequence: Y9D0315 Calibration: 04/03/19 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.003	1	U	EPA 6010D
7440-47-3	Chromium	0.006	1	U	EPA 6010D
7440-50-8	Copper	0.022	1	U	EPA 6010D
7439-92-1	Lead	0.006	1	U	EPA 6010D
7440-02-0	Nickel	0.011	1	U	EPA 6010D
7782-49-2	Selenium	0.037	1		EPA 6010D
7440-22-4	Silver	0.006	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.028	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-05 0319

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19C1266-03 File ID: qbi040319aRE_1-017

Sampled: 03/28/19 10:18 Prepared: 04/01/19 13:13 Analyzed: 04/03/19 11:22

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BD90044 Sequence: Y9D0315 Calibration: 04/03/19 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.003	1	U	EPA 6010D
7440-47-3	Chromium	0.006	1	U	EPA 6010D
7440-50-8	Copper	0.022	1	U	EPA 6010D
7439-92-1	Lead	0.006	1	U	EPA 6010D
7440-02-0	Nickel	0.011	1	U	EPA 6010D
7782-49-2	Selenium	0.102	1		EPA 6010D
7440-22-4	Silver	0.006	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.028	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-DUP 0319

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19C1266-05 File ID: qbi040319aRE_1-018

Sampled: 03/28/19 00:00 Prepared: 04/01/19 13:13 Analyzed: 04/03/19 11:25

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BD90044 Sequence: Y9D0315 Calibration: 04/03/19 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.059	1		EPA 6010D
7440-47-3	Chromium	0.139	1		EPA 6010D
7440-50-8	Copper	0.022	1	U	EPA 6010D
7439-92-1	Lead	0.006	1	U	EPA 6010D
7440-02-0	Nickel	0.139	1		EPA 6010D
7782-49-2	Selenium	0.094	1		EPA 6010D
7440-22-4	Silver	0.006	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.129	1		EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: WinLabICP
Calibration: 04/03/19
Control Limt: +/- 10.00%
Sequence: Y9D0315

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y9D0315-ICV1	Antimony	0.250	0.268	107	ug/mL	EPA 6010D
	Arsenic	0.250	0.263	105	ug/mL	EPA 6010D
	Beryllium	0.250	0.256	102	ug/mL	EPA 6010D
	Cadmium	0.125	0.129	103	ug/mL	EPA 6010D
	Chromium	1.00	1.02	102	ug/mL	EPA 6010D
	Copper	1.25	1.30	104	ug/mL	EPA 6010D
	Lead	0.250	0.260	104	ug/mL	EPA 6010D
	Nickel	2.50	2.54	102	ug/mL	EPA 6010D
	Selenium	0.250	0.282	113 *	ug/mL	EPA 6010D
	Silver	1.25	1.26	101	ug/mL	EPA 6010D
	Thallium	0.250	0.261	105	ug/mL	EPA 6010D
	Zinc	2.50	2.54	102	ug/mL	EPA 6010D
Y9D0315-CCV1	Antimony	0.250	0.251	100	ug/mL	EPA 6010D
	Arsenic	0.500	0.504	101	ug/mL	EPA 6010D
	Beryllium	0.250	0.252	101	ug/mL	EPA 6010D
	Cadmium	0.250	0.251	100	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Copper	1.25	1.29	103	ug/mL	EPA 6010D
	Lead	0.500	0.507	101	ug/mL	EPA 6010D
	Nickel	2.50	2.52	101	ug/mL	EPA 6010D
	Selenium	0.500	0.505	101	ug/mL	EPA 6010D
	Silver	1.25	1.27	101	ug/mL	EPA 6010D
	Thallium	0.500	0.506	101	ug/mL	EPA 6010D
	Zinc	2.50	2.53	101	ug/mL	EPA 6010D
Y9D0315-CCV2	Antimony	0.250	0.232	92.8	ug/mL	EPA 6010D
	Arsenic	0.500	0.487	97.3	ug/mL	EPA 6010D
	Beryllium	0.250	0.255	102	ug/mL	EPA 6010D
	Cadmium	0.250	0.239	95.7	ug/mL	EPA 6010D
	Chromium	1.00	0.966	96.6	ug/mL	EPA 6010D
	Copper	1.25	1.24	99.3	ug/mL	EPA 6010D
	Lead	0.500	0.483	96.6	ug/mL	EPA 6010D
	Nickel	2.50	2.45	97.9	ug/mL	EPA 6010D
	Selenium	0.500	0.496	99.2	ug/mL	EPA 6010D
	Silver	1.25	1.21	96.6	ug/mL	EPA 6010D
	Thallium	0.500	0.524	105	ug/mL	EPA 6010D
	Zinc	2.50	2.42	96.8	ug/mL	EPA 6010D
Y9D0315-CCV3	Antimony	0.250	0.240	96.0	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: WinLabICP
Calibration: 04/03/19
Control Limt: +/- 10.00%
Sequence: Y9D0315

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y9D0315-CCV3	Arsenic	0.500	0.485	97.0	ug/mL	EPA 6010D
	Beryllium	0.250	0.257	103	ug/mL	EPA 6010D
	Cadmium	0.250	0.239	95.6	ug/mL	EPA 6010D
	Chromium	1.00	0.972	97.2	ug/mL	EPA 6010D
	Copper	1.25	1.26	101	ug/mL	EPA 6010D
	Lead	0.500	0.483	96.5	ug/mL	EPA 6010D
	Nickel	2.50	2.47	98.8	ug/mL	EPA 6010D
	Selenium	0.500	0.486	97.1	ug/mL	EPA 6010D
	Silver	1.25	1.22	97.4	ug/mL	EPA 6010D
	Thallium	0.500	0.522	104	ug/mL	EPA 6010D
	Zinc	2.50	2.42	96.8	ug/mL	EPA 6010D

* Values outside of QC limits

CRDL STANDARD

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: WinLabICP
Calibration: 04/03/19
Sequence: Y9D0315

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
Y9D0315-CRL1	Antimony	0.0250	0.022	86.4	ug/mL	70 - 130
	Arsenic	0.0150	0.021	139 *	ug/mL	70 - 130
	Beryllium	0.000500	0.0007	146 *	ug/mL	70 - 130
	Cadmium	0.00300	0.003	109	ug/mL	70 - 130
	Chromium	0.00500	0.005	96.6	ug/mL	70 - 130
	Copper	0.0400	0.040	101	ug/mL	70 - 130
	Lead	0.00500	0.003	68.7 *	ug/mL	70 - 130
	Nickel	0.0100	0.011	107	ug/mL	70 - 130
	Selenium	0.0250	0.016	63.5 *	ug/mL	70 - 130
	Silver	0.0100	0.010	95.4	ug/mL	70 - 130
	Thallium	0.0250	0.024	95.3	ug/mL	70 - 130
	Zinc	0.0250	0.052	206 *	ug/mL	70 - 130

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: WinLabICP
Calibration: 04/03/19
Sequence: Y9D0315

Lab Sample ID	Analyte	True	Found	%R	Units
Y9D0315-IFA1	Antimony		0.00		ug/mL
	Arsenic		0.00		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.00		ug/mL
	Chromium		0.00		ug/mL
	Copper		0.00		ug/mL
	Lead		0.00		ug/mL
	Nickel		0.00		ug/mL
	Selenium		0.00		ug/mL
	Silver		0.00		ug/mL
	Thallium		0.00		ug/mL
	Zinc		0.00		ug/mL
Y9D0315-IFB1	Antimony	0.500	0.52	104	ug/mL
	Arsenic	0.500	0.52	103	ug/mL
	Beryllium	0.500	0.52	103	ug/mL
	Cadmium	1.00	0.99	99.0	ug/mL
	Chromium	0.500	0.50	99.0	ug/mL
	Copper	0.500	0.56	112	ug/mL
	Lead	1.00	0.99	99.2	ug/mL
	Nickel	1.00	1.06	106	ug/mL
	Selenium	0.500	0.46	91.7	ug/mL
	Silver	1.00	1.09	109	ug/mL
	Thallium	0.500	0.52	104	ug/mL
	Zinc	1.00	0.97	96.8	ug/mL

* Values outside of QC limits

Metals Linear Dynamic Range

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Instrument: WinLabICP

CAS NO.	Analyte	Concentration mg/L
7440-36-0	Antimony	50
7440-38-2	Arsenic	250
7440-41-7	Beryllium	12.5
7440-43-9	Cadmium	30
7440-47-3	Chromium	50
7440-50-8	Copper	62.5
7439-92-1	Lead	150
7440-02-0	Nickel	125
7782-49-2	Selenium	100
7440-22-4	Silver	62.5
7440-28-0	Thallium	125
7440-66-6	Zinc	30

IEC File Last Saved: 4/3/2019 11:50:11 AM
Printed On: 4/3/2019 11:50:24 AM

Results Data Set Name: qbi030415
Method Name: METHOD FOR IE
Results Library: C:\pe\Mikew\Results\Results.md

Interfering Analytes

	Analytes	Al RADIAL	Ca RADIAL	Fe RADIAL	Mg RADIAL
1	**Ag 338.289**	0	0.011281	-0.04	0
2	**Al 308.215**	0	0.0245069	-0.0817898	0.0376104
3	**Al RADIAL**	**n/a**	0.0296996	-0.105128	0
4	**As 188.979**	0	0	-0.085	0
7	**Ca 227.546**	-0.675005	0	-8.62387	-0.0625929
9	**Cd 226.502**	0	0	0.075	0
10	**Co 228.616**	0	0	-0.025	0
11	**Cr 267.716**	0	0	-0.015	0
12	**Cu 324.752**	0	0	-0.035	0
16	**Mg 279.077**	0	0	0.161547	0
17	**Mg RADIAL**	0	0	0.0994223	**n/a**
18	**Mn 257.610**	0	0	-0.08	0
19	**Na 330.237**	0	-0.983571	-4.63141	0
21	**Ni 232.003**	0	0	0.12	0
22	**Pb 220.353**	-0.129664	-0.0141428	0.05	0
23	**Sb 206.836**	0.000505	0	-0.12	0
24	**Se 196.026**	0	0	0.985	0
25	**Tl 190.801**	0	0	-0.13	0
26	**V 292.402**	0	0	0.135	0
27	**Y 371.029**	9.77357	9.1591	24.475	8.93015
28	**Y RADIAL**	10.2987	9.68204	24.8989	9.399
29	**Zn 206.200**	0	0	0.02	0

BENCHSHEETS

SDG: 19C1266

CLASS: METALS

METHOD: EPA 6010D

PREPARATION BENCH SHEET-AQUEOUS: BD90044

Prepared: **04/01/2019 13:13**

York Analytical Laboratories, Inc.

Printed: 4/9/2019 8:59:02AM

Matrix: Water **Preparation EPA 3015A** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
19C1266-01 D	Metals, RCRA	45	50							NA			Added for BatchQC in: BD90044
19C1266-01 D	Metals, Priority Pol	45	50							NA			
19C1266-02 D	Metals, Priority Pol	45	50							NA			
19C1266-03 D	Metals, Priority Pol	45	50							NA			
19C1266-05 D	Metals, Priority Pol	45	50							NA			
19C1295-04 D	Metals, RCRA	45	50							NA			
BD90044-BLK1	QC	45	50							NA			
BD90044-BS1	QC	45	50	Y19B315	500					NA			
BD90044-DUP1	QC	45	50					19C1266-01		NA			
BD90044-MS1	QC	45	50	Y19A322	500			19C1266-01		NA			

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by SY **Date:** 04/01/2019 13:13

Sample Information Detail Report
Document Name: 040319a

File Description
Sample Information File

Parameters Common to All Samples

Batch ID	qbi040319a
Analyst Name	KML
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Remarks
1	3	SEQ-ICV1	
2	4	SEQ-ICB1	
3	5	SEQ-CRL1	
4	6	SEQ-CRL2	
5	7	SEQ-IFA1	
6	8	SEQ-IFB1	
7	9	SEQ-CCV1	
8	4	SEQ-CCB1	
9	101	19C1185-01RE1	10X BC91556
10	102	BD90044-BLK1	
11	103	BD90044-BS1	
12	104	19C1266-01	
13	105	BD90044-DUP1	
14	106	BD90044-MS1	
15	107	BD90044-PS1	
16	108	19C1266-02	
17	109	19C1266-03	
18	110	19C1266-05	
19	9	SEQ-CCV2	
20	4	SEQ-CCB2	
21	111	19C1295-04	
22	112	SEQ-SRD1	19C1266-01
23	113	BD90144-BLK1	
24	114	BD90144-BS1	
25	115	19C1252-01	
26	116	19C1252-02	
27	117	19C1252-03	
28	118	19C1252-05	
29	119	BD90144-DUP1	
30	120	BD90144-MS1	
31	9	SEQ-CCV3	
32	4	SEQ-CCB3	
33	121	BD90144-PS1	
34	122	SEQ-SRD2	19C1252-05
35	123	BD90044-BLK1	rerun
36	9	SEQ-CCV4	
37	4	SEQ-CCB4	
38	5	SEQ-CRL3	
39	6	SEQ-CRL4	
40	7	SEQ-IFA2	
41	8	SEQ-IFB2	
42	405	SEQ-HCV1	
43	1	BLANK1	
44	1	BLANK2	
45	9	SEQ-CCV5	
46	4	SEQ-CCB5	

Reprocessing Begun
Logged In Analyst: john Technique: ICP Continuous

Results Data Set (original): qbi040319a
Results Library (original): C:\pe\rqb\Results\Results 010219.mdb
Results Data Set (reprocessed): qbi040319aRE_1
Results Library (reprocessed): C:\pe\john\Results\Results 010219.mdb

Method Loaded
Method Name: TAL METH_101918FAS Method Last Saved: 10/19/2018 4:55:55 PM
IEC File: IEC 030318A.iec MSF File:
Method Description: TAL METALS

Sequence No.: 1 Autosampler Location: 1
Sample ID: Calib Blank 1 Date Collected: 4/3/2019 10:38:14 AM
Analyst: Data Type: Reprocessed on 4/4/2019 8:54:11 AM
Logged In Analyst (Original) : rqb
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	15116536.0	144262.68	0.95%	5.000	mg/L
Y RADIAL	268672.1	1898.57	0.71%	5.000	mg/L
As 188.979†	-26.1	10.14	38.87%	[0.00]	mg/L
Tl 190.801†	-58.5	6.69	11.42%	[0.00]	mg/L
Se 196.026†	19.9	4.35	21.80%	[0.00]	mg/L
Zn 206.200†	-30.0	0.73	2.43%	[0.00]	mg/L
Sb 206.836†	74.1	0.89	1.20%	[0.00]	mg/L
Pb 220.353†	124.2	4.41	3.55%	[0.00]	mg/L
Cd 226.502†	-282.6	2.55	0.90%	[0.00]	mg/L
Co 228.616†	-181.0	3.54	1.95%	[0.00]	mg/L
Ni 232.003†	-1037.4	7.39	0.71%	[0.00]	mg/L
Ba 233.527†	-29.6	11.22	37.92%	[0.00]	mg/L
Mn 257.610†	407.9	38.28	9.39%	[0.00]	mg/L
Cr 267.716†	368.9	114.43	31.02%	[0.00]	mg/L
Fe 273.955†	-154.0	8.50	5.52%	[0.00]	mg/L
Mg 279.077†	135.1	86.63	64.11%	[0.00]	mg/L
V 292.402†	-144.5	23.12	16.00%	[0.00]	mg/L
Al 308.215†	6504.3	116.38	1.79%	[0.00]	mg/L
Be 313.107†	-10677.7	293.12	2.75%	[0.00]	mg/L
Cu 324.752†	3192.1	63.27	1.98%	[0.00]	mg/L
Ag 338.289†	-252.6	162.29	64.26%	[0.00]	mg/L
Na 330.237†	712.4	64.06	8.99%	[0.00]	mg/L
Ca 227.546†	-381.8	14.13	3.70%	[0.00]	mg/L
Al RADIAL†	28.4	16.00	56.32%	[0.00]	mg/L
Fe RADIAL†	-5.6	5.63	100.91%	[0.00]	mg/L
Ca RADIAL†	1234.7	23.71	1.92%	[0.00]	mg/L
K RADIAL†	508.4	55.24	10.86%	[0.00]	mg/L
Mg RADIAL†	43.3	16.54	38.22%	[0.00]	mg/L
Na RADIAL†	969.3	39.73	4.10%	[0.00]	mg/L

Sequence No.: 2
Sample ID: CAL STD 1
Analyst:
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 4/3/2019 10:40:48 AM
Data Type: Reprocessed on 4/4/2019 8:54:13 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CAL STD 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	14721906.0	110671.36	0.75%	4.869	mg/L
Y RADIAL	258974.0	1282.44	0.50%	4.820	mg/L
As 188.979†	1050.1	5.86	0.56%	[1.0000]	mg/L
Tl 190.801†	1423.1	17.05	1.20%	[1.0000]	mg/L
Se 196.026†	1335.5	5.15	0.39%	[1.0000]	mg/L
Zn 206.200†	122857.0	811.88	0.66%	[5.0000]	mg/L
Sb 206.836†	827.1	2.00	0.24%	[0.5000]	mg/L
Pb 220.353†	8008.0	53.33	0.67%	[1.0000]	mg/L
Cd 226.502†	45388.2	455.52	1.00%	[0.5000]	mg/L
Co 228.616†	147823.0	1395.80	0.94%	[5.0000]	mg/L
Ni 232.003†	69232.8	677.53	0.98%	[5.0000]	mg/L
Ba 233.527†	1219757.5	4677.71	0.38%	[20.0000]	mg/L
Mn 257.610†	2917411.4	7695.89	0.26%	[5.0000]	mg/L
Cr 267.716†	203067.4	1520.19	0.75%	[2.0000]	mg/L
Fe 273.955†	186895.0	1536.68	0.82%	[10.0000]	mg/L
Mg 279.077†	961811.9	2636.04	0.27%	[50.0000]	mg/L
V 292.402†	857206.3	5905.46	0.69%	[5.0000]	mg/L
Al 308.215†	364460.8	3024.87	0.83%	[20.0000]	mg/L
Be 313.107†	1565501.7	17860.18	1.14%	[0.5000]	mg/L
Cu 324.752†	523696.2	1750.17	0.33%	[2.5000]	mg/L
Ag 338.289†	247070.0	2004.12	0.81%	[2.5000]	mg/L
Na 330.237†	29356.4	208.40	0.71%	[50.0000]	mg/L
Ca 227.546†	8928.3	77.26	0.87%	[50.0000]	mg/L
Al RADIAL†	25594.8	414.86	1.62%	[20.0000]	mg/L
Fe RADIAL†	4402.0	87.92	2.00%	[10.0000]	mg/L
Ca RADIAL†	228429.0	122.21	0.05%	[50.0000]	mg/L
K RADIAL†	11305.5	184.90	1.64%	[10.0000]	mg/L
Mg RADIAL†	28742.2	477.82	1.66%	[50.0000]	mg/L
Na RADIAL†	263263.1	36.16	0.01%	[50.0000]	mg/L

Sequence No.: 3
Sample ID: SEQ-ICV1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 4/3/2019 10:43:02 AM
Data Type: Reprocessed on 4/4/2019 8:54:13 AM
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	14718900.5	4.868	mg/L	0.0247				0.51%
Y RADIAL	262734.6	4.890	mg/L	0.0359				0.73%
As 188.979†	276.2	0.2635	mg/L	0.00479	0.2635	mg/L	0.00479	1.82%
Tl 190.801†	371.2	0.2615	mg/L	0.00439	0.2615	mg/L	0.00439	1.68%
Se 196.026†	382.8	0.2818	mg/L	0.01183	0.2818	mg/L	0.01183	4.20%
Zn 206.200†	62380.5	2.539	mg/L	0.0362	2.539	mg/L	0.0362	1.43%
Sb 206.836†	442.6	0.2682	mg/L	0.00385	0.2682	mg/L	0.00385	1.44%
Pb 220.353†	2074.1	0.2604	mg/L	0.00236	0.2604	mg/L	0.00236	0.91%
Cd 226.502†	11740.2	0.1290	mg/L	0.00137	0.1290	mg/L	0.00137	1.06%
Co 228.616†	74971.5	2.536	mg/L	0.0343	2.536	mg/L	0.0343	1.35%
Ni 232.003†	35195.2	2.541	mg/L	0.0345	2.541	mg/L	0.0345	1.36%
Ba 233.527†	622115.1	10.20	mg/L	0.046	10.20	mg/L	0.046	0.45%
Mn 257.610†	1475758.7	2.530	mg/L	0.0138	2.530	mg/L	0.0138	0.55%
Cr 267.716†	103677.4	1.021	mg/L	0.0127	1.021	mg/L	0.0127	1.24%
Fe 273.955†	94957.3	5.081	mg/L	0.0641	5.081	mg/L	0.0641	1.26%
Mg 279.077†	477641.1	24.83	mg/L	0.156	24.83	mg/L	0.156	0.63%
V 292.402†	442915.3	2.583	mg/L	0.0372	2.583	mg/L	0.0372	1.44%
Al 308.215†	180346.9	9.896	mg/L	0.1265	9.896	mg/L	0.1265	1.28%
Be 313.107†	802229.7	0.25622	mg/L	0.001988	0.25622	mg/L	0.001988	0.78%
Cu 324.752†	271381.8	1.296	mg/L	0.0156	1.296	mg/L	0.0156	1.20%
Ag 338.289†	124485.7	1.260	mg/L	0.0155	1.260	mg/L	0.0155	1.23%
Na 330.237†	13914.8	23.75	mg/L	0.244	23.75	mg/L	0.244	1.03%
Ca 227.546†	4440.0	24.92	mg/L	0.203	24.92	mg/L	0.203	0.82%
Al RADIAL†	12795.2	9.998	mg/L	0.0803	9.998	mg/L	0.0803	0.80%
Fe RADIAL†	2182.0	4.957	mg/L	0.0544	4.957	mg/L	0.0544	1.10%
Ca RADIAL†	113080.9	24.75	mg/L	0.013	24.75	mg/L	0.013	0.05%
K RADIAL†	5276.7	4.667	mg/L	0.0605	4.667	mg/L	0.0605	1.30%
Mg RADIAL†	14136.1	24.59	mg/L	0.216	24.59	mg/L	0.216	0.88%
Na RADIAL†	132908.3	25.24	mg/L	0.131	25.24	mg/L	0.131	0.52%

Sequence No.: 4
Sample ID: SEQ-ICB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 4/3/2019 10:45:39 AM
Data Type: Reprocessed on 4/4/2019 8:54:14 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-ICB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15047708.2	4.977	mg/L	0.0101				0.20%
Y RADIAL	266195.3	4.954	mg/L	0.0501				1.01%
As 188.979†	1.1	0.0010	mg/L	0.00699	0.0010	mg/L	0.00699	672.44%
Tl 190.801†	5.1	0.0036	mg/L	0.00136	0.0036	mg/L	0.00136	38.17%
Se 196.026†	-9.3	-0.0070	mg/L	0.00797	-0.0070	mg/L	0.00797	114.22%
Zn 206.200†	13.5	0.0005	mg/L	0.00033	0.0005	mg/L	0.00033	59.98%
Sb 206.836†	-14.6	-0.0088	mg/L	0.00367	-0.0088	mg/L	0.00367	41.49%
Pb 220.353†	-8.3	-0.0010	mg/L	0.00159	-0.0010	mg/L	0.00159	154.44%
Cd 226.502†	13.5	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	92.64%
Co 228.616†	3.2	0.0001	mg/L	0.00039	0.0001	mg/L	0.00039	355.62%
Ni 232.003†	10.6	0.0008	mg/L	0.00093	0.0008	mg/L	0.00093	121.10%
Ba 233.527†	-1.3	0.0000	mg/L	0.00025	0.0000	mg/L	0.00025	>999.9%
Mn 257.610†	31.8	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	44.05%
Cr 267.716†	-9.4	-0.0001	mg/L	0.00031	-0.0001	mg/L	0.00031	334.61%
Fe 273.955†	42.0	0.0022	mg/L	0.00121	0.0022	mg/L	0.00121	53.66%
Mg 279.077†	29.6	0.0015	mg/L	0.00266	0.0015	mg/L	0.00266	172.75%
V 292.402†	-25.6	-0.0001	mg/L	0.00021	-0.0001	mg/L	0.00021	140.41%
Al 308.215†	85.5	0.0047	mg/L	0.00074	0.0047	mg/L	0.00074	15.87%
Be 313.107†	554.4	0.00018	mg/L	0.000028	0.00018	mg/L	0.000028	15.70%
Cu 324.752†	-66.0	-0.0003	mg/L	0.00028	-0.0003	mg/L	0.00028	89.93%
Ag 338.289†	-35.2	-0.0004	mg/L	0.00059	-0.0004	mg/L	0.00059	165.71%
Na 330.237†	-46.2	-0.0787	mg/L	0.05474	-0.0787	mg/L	0.05474	69.53%
Ca 227.546†	-2.0	-0.0112	mg/L	0.03537	-0.0112	mg/L	0.03537	316.78%
Al RADIAL†	5.8	0.0045	mg/L	0.03278	0.0045	mg/L	0.03278	721.07%
Fe RADIAL†	-3.3	-0.0075	mg/L	0.01802	-0.0075	mg/L	0.01802	238.71%
Ca RADIAL†	12.1	0.0026	mg/L	0.00373	0.0026	mg/L	0.00373	141.56%
K RADIAL†	5.2	0.0046	mg/L	0.06150	0.0046	mg/L	0.06150	>999.9%
Mg RADIAL†	4.2	0.0073	mg/L	0.00681	0.0073	mg/L	0.00681	92.89%
Na RADIAL†	64.0	0.0122	mg/L	0.02584	0.0122	mg/L	0.02584	212.65%

Sequence No.: 5
Sample ID: SEQ-CRL1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 4/3/2019 10:48:09 AM
Data Type: Reprocessed on 4/4/2019 8:54:15 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14863779.3	4.916	mg/L	0.0421				0.86%
Y RADIAL	261778.1	4.872	mg/L	0.0412				0.85%
As 188.979†	21.9	0.0209	mg/L	0.00774	0.0209	mg/L	0.00774	37.03%
Tl 190.801†	33.8	0.0238	mg/L	0.00441	0.0238	mg/L	0.00441	18.52%
Se 196.026†	21.8	0.0159	mg/L	0.00475	0.0159	mg/L	0.00475	29.95%
Zn 206.200†	1265.8	0.0515	mg/L	0.00021	0.0515	mg/L	0.00021	0.41%
Sb 206.836†	35.6	0.0216	mg/L	0.00581	0.0216	mg/L	0.00581	26.91%
Pb 220.353†	27.1	0.0034	mg/L	0.00141	0.0034	mg/L	0.00141	41.17%
Cd 226.502†	301.5	0.0033	mg/L	0.00019	0.0033	mg/L	0.00019	5.89%
Co 228.616†	138.9	0.0047	mg/L	0.00028	0.0047	mg/L	0.00028	5.88%
Ni 232.003†	148.3	0.0107	mg/L	0.00076	0.0107	mg/L	0.00076	7.17%
Ba 233.527†	1623.2	0.0266	mg/L	0.00032	0.0266	mg/L	0.00032	1.20%
Mn 257.610†	5970.2	0.0103	mg/L	0.00003	0.0103	mg/L	0.00003	0.33%
Cr 267.716†	489.9	0.0048	mg/L	0.00040	0.0048	mg/L	0.00040	8.22%
Fe 273.955†	9482.7	0.5074	mg/L	0.00759	0.5074	mg/L	0.00759	1.50%
Mg 279.077†	9688.7	0.5036	mg/L	0.01084	0.5036	mg/L	0.01084	2.15%
V 292.402†	1719.0	0.0100	mg/L	0.00009	0.0100	mg/L	0.00009	0.91%
Al 308.215†	8773.2	0.4814	mg/L	0.00870	0.4814	mg/L	0.00870	1.81%
Be 313.107†	2279.7	0.00073	mg/L	0.000088	0.00073	mg/L	0.000088	12.07%
Cu 324.752†	8464.5	0.0404	mg/L	0.00110	0.0404	mg/L	0.00110	2.73%
Ag 338.289†	942.0	0.0095	mg/L	0.00003	0.0095	mg/L	0.00003	0.28%
Na 330.237†	198.1	0.3408	mg/L	0.19700	0.3408	mg/L	0.19700	57.81%
Ca 227.546†	180.0	1.013	mg/L	0.1081	1.013	mg/L	0.1081	10.67%
Al RADIAL†	625.7	0.4889	mg/L	0.02653	0.4889	mg/L	0.02653	5.43%
Fe RADIAL†	221.0	0.5021	mg/L	0.00675	0.5021	mg/L	0.00675	1.34%
Ca RADIAL†	5340.7	1.169	mg/L	0.0122	1.169	mg/L	0.0122	1.05%
K RADIAL†	510.6	0.4517	mg/L	0.03333	0.4517	mg/L	0.03333	7.38%
Mg RADIAL†	293.4	0.5103	mg/L	0.01944	0.5103	mg/L	0.01944	3.81%
Na RADIAL†	2813.3	0.5343	mg/L	0.02032	0.5343	mg/L	0.02032	3.80%

Sequence No.: 7
Sample ID: SEQ-IFA1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 4/3/2019 10:53:09 AM
Data Type: Reprocessed on 4/4/2019 8:54:16 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-IFA1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	13070925.9	4.323	mg/L	0.1479				3.42%
Y RADIAL	252917.3	4.707	mg/L	0.0206				0.44%
As 188.979†	-18.2	-0.0009	mg/L	0.01410	-0.0009	mg/L	0.01410	>999.9%
Tl 190.801†	-35.4	0.0002	mg/L	0.01229	0.0002	mg/L	0.01229	>999.9%
Se 196.026†	254.3	0.0000	mg/L	0.01915	0.0000	mg/L	0.01915	>999.9%
Zn 206.200†	108.2	0.0005	mg/L	0.00090	0.0005	mg/L	0.00090	167.59%
Sb 206.836†	-39.2	-0.0008	mg/L	0.00515	-0.0008	mg/L	0.00515	668.23%
Pb 220.353†	-485.4	0.0000	mg/L	0.00136	0.0000	mg/L	0.00136	>999.9%
Cd 226.502†	1276.1	-0.0004	mg/L	0.00019	-0.0004	mg/L	0.00019	43.08%
Co 228.616†	-146.0	-0.0001	mg/L	0.00086	-0.0001	mg/L	0.00086	824.09%
Ni 232.003†	311.1	-0.0007	mg/L	0.00305	-0.0007	mg/L	0.00305	417.67%
Ba 233.527†	8.3	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	99.87%
Mn 257.610†	-8953.0	0.0001	mg/L	0.00051	0.0001	mg/L	0.00051	426.21%
Cr 267.716†	-267.0	0.0003	mg/L	0.00022	0.0003	mg/L	0.00022	79.92%
Fe 273.955†	3636787.2	194.6	mg/L	8.13	194.6	mg/L	8.13	4.18%
Mg 279.077†	10020136.8	520.9	mg/L	18.45	520.9	mg/L	18.45	3.54%
V 292.402†	4348.4	-0.0007	mg/L	0.00189	-0.0007	mg/L	0.00189	258.24%
Al 308.215†	9807402.3	538.2	mg/L	19.37	538.2	mg/L	19.37	3.60%
Be 313.107†	-508.2	-0.00016	mg/L	0.000196	-0.00016	mg/L	0.000196	121.06%
Cu 324.752†	-1591.0	-0.0008	mg/L	0.00031	-0.0008	mg/L	0.00031	37.16%
Ag 338.289†	-217.3	0.0001	mg/L	0.00063	0.0001	mg/L	0.00063	637.37%
Na 330.237†	-1766.0	-1.639	mg/L	0.0986	-1.639	mg/L	0.0986	6.02%
Ca 227.546†	93841.4	527.6	mg/L	19.87	527.6	mg/L	19.87	3.77%
Al RADIAL†	625958.9	489.1	mg/L	1.24	489.1	mg/L	1.24	0.25%
Fe RADIAL†	85092.5	193.3	mg/L	0.74	193.3	mg/L	0.74	0.38%
Ca RADIAL†	2200833.6	481.7	mg/L	1.19	481.7	mg/L	1.19	0.25%
K RADIAL†	38.5	0.0340	mg/L	0.05157	0.0340	mg/L	0.05157	151.49%
Mg RADIAL†	278882.3	485.1	mg/L	1.87	485.1	mg/L	1.87	0.38%
Na RADIAL†	311.9	0.0592	mg/L	0.01672	0.0592	mg/L	0.01672	28.22%

Sequence No.: 8
Sample ID: SEQ-IFB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 4/3/2019 10:55:17 AM
Data Type: Reprocessed on 4/4/2019 8:54:16 AM
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	13004785.2	4.302	mg/L	0.0208				0.48%
Y RADIAL	247667.2	4.609	mg/L	0.0212				0.46%
As 188.979†	524.9	0.5163	mg/L	0.00544	0.5163	mg/L	0.00544	1.05%
Tl 190.801†	702.5	0.5188	mg/L	0.00964	0.5188	mg/L	0.00964	1.86%
Se 196.026†	867.2	0.4584	mg/L	0.00761	0.4584	mg/L	0.00761	1.66%
Zn 206.200†	23883.3	0.9681	mg/L	0.00969	0.9681	mg/L	0.00969	1.00%
Sb 206.836†	818.7	0.5180	mg/L	0.01319	0.5180	mg/L	0.01319	2.55%
Pb 220.353†	7442.4	0.9915	mg/L	0.00577	0.9915	mg/L	0.00577	0.58%
Cd 226.502†	91152.6	0.9896	mg/L	0.00458	0.9896	mg/L	0.00458	0.46%
Co 228.616†	14338.4	0.4898	mg/L	0.00369	0.4898	mg/L	0.00369	0.75%
Ni 232.003†	14952.8	1.057	mg/L	0.0095	1.057	mg/L	0.0095	0.90%
Ba 233.527†	32666.1	0.5356	mg/L	0.00380	0.5356	mg/L	0.00380	0.71%
Mn 257.610†	285848.3	0.5054	mg/L	0.00117	0.5054	mg/L	0.00117	0.23%
Cr 267.716†	49983.8	0.4952	mg/L	0.00190	0.4952	mg/L	0.00190	0.38%
Fe 273.955†	3627851.7	194.1	mg/L	0.65	194.1	mg/L	0.65	0.34%
Mg 279.077†	9896083.0	514.4	mg/L	1.85	514.4	mg/L	1.85	0.36%
V 292.402†	91212.0	0.5059	mg/L	0.00054	0.5059	mg/L	0.00054	0.11%
Al 308.215†	9732433.8	534.1	mg/L	1.42	534.1	mg/L	1.42	0.27%
Be 313.107†	1615895.3	0.51610	mg/L	0.002232	0.51610	mg/L	0.002232	0.43%
Cu 324.752†	116137.2	0.5612	mg/L	0.00100	0.5612	mg/L	0.00100	0.18%
Ag 338.289†	107570.3	1.091	mg/L	0.0038	1.091	mg/L	0.0038	0.34%
Na 330.237†	-1470.7	-1.125	mg/L	0.0627	-1.125	mg/L	0.0627	5.57%
Ca 227.546†	93537.2	525.9	mg/L	2.07	525.9	mg/L	2.07	0.39%
Al RADIAL†	640782.2	500.7	mg/L	2.16	500.7	mg/L	2.16	0.43%
Fe RADIAL†	85348.6	193.9	mg/L	0.33	193.9	mg/L	0.33	0.17%
Ca RADIAL†	2239814.3	490.3	mg/L	2.13	490.3	mg/L	2.13	0.43%
K RADIAL†	-37.1	-0.0328	mg/L	0.02235	-0.0328	mg/L	0.02235	68.13%
Mg RADIAL†	278709.5	484.8	mg/L	1.13	484.8	mg/L	1.13	0.23%
Na RADIAL†	291.5	0.0554	mg/L	0.00601	0.0554	mg/L	0.00601	10.85%

Sequence No.: 9
Sample ID: SEQ-CCV1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 4/3/2019 10:57:26 AM
Data Type: Reprocessed on 4/4/2019 8:54:17 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14610472.7	4.833	mg/L	0.0703				1.46%
Y RADIAL	260883.0	4.855	mg/L	0.0388				0.80%
As 188.979†	528.4	0.5036	mg/L	0.01286	0.5036	mg/L	0.01286	2.55%
Tl 190.801†	719.5	0.5062	mg/L	0.00095	0.5062	mg/L	0.00095	0.19%
Se 196.026†	681.4	0.5053	mg/L	0.00490	0.5053	mg/L	0.00490	0.97%
Zn 206.200†	62096.3	2.527	mg/L	0.0664	2.527	mg/L	0.0664	2.63%
Sb 206.836†	413.5	0.2506	mg/L	0.00643	0.2506	mg/L	0.00643	2.57%
Pb 220.353†	4045.1	0.5066	mg/L	0.00855	0.5066	mg/L	0.00855	1.69%
Cd 226.502†	22841.2	0.2512	mg/L	0.00624	0.2512	mg/L	0.00624	2.49%
Co 228.616†	74868.3	2.532	mg/L	0.0644	2.532	mg/L	0.0644	2.54%
Ni 232.003†	34962.8	2.524	mg/L	0.0574	2.524	mg/L	0.0574	2.28%
Ba 233.527†	623975.5	10.23	mg/L	0.139	10.23	mg/L	0.139	1.35%
Mn 257.610†	1490591.5	2.555	mg/L	0.0353	2.555	mg/L	0.0353	1.38%
Cr 267.716†	102771.7	1.012	mg/L	0.0238	1.012	mg/L	0.0238	2.35%
Fe 273.955†	94635.6	5.064	mg/L	0.1218	5.064	mg/L	0.1218	2.40%
Mg 279.077†	479628.6	24.93	mg/L	0.356	24.93	mg/L	0.356	1.43%
V 292.402†	445459.9	2.598	mg/L	0.0526	2.598	mg/L	0.0526	2.02%
Al 308.215†	181100.0	9.937	mg/L	0.2420	9.937	mg/L	0.2420	2.44%
Be 313.107†	789578.4	0.25218	mg/L	0.003431	0.25218	mg/L	0.003431	1.36%
Cu 324.752†	270722.7	1.293	mg/L	0.0301	1.293	mg/L	0.0301	2.33%
Ag 338.289†	125271.6	1.267	mg/L	0.0265	1.267	mg/L	0.0265	2.09%
Na 330.237†	14133.9	24.12	mg/L	0.753	24.12	mg/L	0.753	3.12%
Ca 227.546†	4481.4	25.15	mg/L	0.299	25.15	mg/L	0.299	1.19%
Al RADIAL†	13023.8	10.18	mg/L	0.080	10.18	mg/L	0.080	0.78%
Fe RADIAL†	2189.9	4.975	mg/L	0.0412	4.975	mg/L	0.0412	0.83%
Ca RADIAL†	114764.8	25.12	mg/L	0.021	25.12	mg/L	0.021	0.08%
K RADIAL†	5318.9	4.705	mg/L	0.0523	4.705	mg/L	0.0523	1.11%
Mg RADIAL†	14293.9	24.87	mg/L	0.215	24.87	mg/L	0.215	0.86%
Na RADIAL†	138326.7	26.27	mg/L	0.300	26.27	mg/L	0.300	1.14%

Sequence No.: 10
Sample ID: SEQ-CCB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 4/3/2019 11:00:03 AM
Data Type: Reprocessed on 4/4/2019 8:54:18 AM
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	14985147.3	4.957	mg/L	0.0111				0.22%
Y RADIAL	264786.5	4.928	mg/L	0.0658				1.34%
As 188.979†	8.3	0.0079	mg/L	0.00636	0.0079	mg/L	0.00636	80.33%
Tl 190.801†	-4.6	-0.0032	mg/L	0.00065	-0.0032	mg/L	0.00065	20.04%
Se 196.026†	-9.3	-0.0070	mg/L	0.01127	-0.0070	mg/L	0.01127	161.22%
Zn 206.200†	16.0	0.0007	mg/L	0.00028	0.0007	mg/L	0.00028	43.06%
Sb 206.836†	-0.2	-0.0001	mg/L	0.00581	-0.0001	mg/L	0.00581	>999.9%
Pb 220.353†	-12.5	-0.0016	mg/L	0.00294	-0.0016	mg/L	0.00294	189.01%
Cd 226.502†	22.2	0.0002	mg/L	0.00020	0.0002	mg/L	0.00020	83.51%
Co 228.616†	12.9	0.0004	mg/L	0.00033	0.0004	mg/L	0.00033	75.60%
Ni 232.003†	17.9	0.0013	mg/L	0.00158	0.0013	mg/L	0.00158	122.45%
Ba 233.527†	1.3	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	174.94%
Mn 257.610†	27.7	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	54.08%
Cr 267.716†	-62.1	-0.0006	mg/L	0.00013	-0.0006	mg/L	0.00013	21.08%
Fe 273.955†	67.4	0.0036	mg/L	0.00061	0.0036	mg/L	0.00061	17.04%
Mg 279.077†	60.5	0.0031	mg/L	0.00122	0.0031	mg/L	0.00122	38.84%
V 292.402†	-40.2	-0.0002	mg/L	0.00022	-0.0002	mg/L	0.00022	92.70%
Al 308.215†	175.2	0.0096	mg/L	0.00513	0.0096	mg/L	0.00513	53.37%
Be 313.107†	1090.4	0.00035	mg/L	0.000039	0.00035	mg/L	0.000039	11.25%
Cu 324.752†	-65.8	-0.0003	mg/L	0.00010	-0.0003	mg/L	0.00010	31.89%
Ag 338.289†	17.5	0.0002	mg/L	0.00137	0.0002	mg/L	0.00137	775.95%
Na 330.237†	-13.2	-0.0225	mg/L	0.12042	-0.0225	mg/L	0.12042	535.94%
Ca 227.546†	-0.2	-0.0008	mg/L	0.12672	-0.0008	mg/L	0.12672	>999.9%
Al RADIAL†	41.3	0.0323	mg/L	0.00855	0.0323	mg/L	0.00855	26.49%
Fe RADIAL†	3.1	0.0071	mg/L	0.00640	0.0071	mg/L	0.00640	90.69%
Ca RADIAL†	60.5	0.0132	mg/L	0.00618	0.0132	mg/L	0.00618	46.72%
K RADIAL†	-23.9	-0.0211	mg/L	0.02689	-0.0211	mg/L	0.02689	127.36%
Mg RADIAL†	-4.4	-0.0077	mg/L	0.01586	-0.0077	mg/L	0.01586	205.42%
Na RADIAL†	119.4	0.0227	mg/L	0.01291	0.0227	mg/L	0.01291	56.93%

Sequence No.: 12
Sample ID: BD90044-BLK1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 102
Date Collected: 4/3/2019 11:05:07 AM
Data Type: Reprocessed on 4/4/2019 8:54:19 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: BD90044-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15120968.5	5.001	mg/L	0.0167				0.33%
Y RADIAL	263897.1	4.911	mg/L	0.0713				1.45%
As 188.979†	2.5	0.0024	mg/L	0.00199	0.0024	mg/L	0.00199	83.39%
Tl 190.801†	3.2	0.0023	mg/L	0.00310	0.0023	mg/L	0.00310	136.56%
Se 196.026†	23.4	0.0175	mg/L	0.00555	0.0175	mg/L	0.00555	31.70%
Zn 206.200†	34.6	0.0014	mg/L	0.00021	0.0014	mg/L	0.00021	15.17%
Sb 206.836†	1.9	0.0011	mg/L	0.00402	0.0011	mg/L	0.00402	351.40%
Pb 220.353†	-1.6	-0.0002	mg/L	0.00106	-0.0002	mg/L	0.00106	508.79%
Cd 226.502†	109.7	0.0012	mg/L	0.00012	0.0012	mg/L	0.00012	9.72%
Co 228.616†	11.6	0.0004	mg/L	0.00041	0.0004	mg/L	0.00041	104.41%
Ni 232.003†	15.1	0.0011	mg/L	0.00125	0.0011	mg/L	0.00125	114.78%
Ba 233.527†	2.0	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	127.30%
Mn 257.610†	193.3	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	8.76%
Cr 267.716†	-4.5	0.0000	mg/L	0.00024	0.0000	mg/L	0.00024	558.45%
Fe 273.955†	1089.4	0.0583	mg/L	0.00122	0.0583	mg/L	0.00122	2.10%
Mg 279.077†	-41.0	-0.0021	mg/L	0.00335	-0.0021	mg/L	0.00335	156.68%
V 292.402†	-11.8	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	76.58%
Al 308.215†	-45.5	-0.0025	mg/L	0.00290	-0.0025	mg/L	0.00290	116.51%
Be 313.107†	1173.3	0.00037	mg/L	0.000018	0.00037	mg/L	0.000018	4.76%
Cu 324.752†	-100.0	-0.0005	mg/L	0.00032	-0.0005	mg/L	0.00032	66.46%
Ag 338.289†	-18.9	-0.0002	mg/L	0.00109	-0.0002	mg/L	0.00109	577.23%
Na 330.237†	3.3	0.0060	mg/L	0.01259	0.0060	mg/L	0.01259	210.69%
Ca 227.546†	-12.0	-0.0665	mg/L	0.06777	-0.0665	mg/L	0.06777	101.88%
Al RADIAL†	-11.0	-0.0086	mg/L	0.01656	-0.0086	mg/L	0.01656	193.59%
Fe RADIAL†	24.2	0.0550	mg/L	0.00771	0.0550	mg/L	0.00771	14.00%
Ca RADIAL†	93.3	0.0204	mg/L	0.00345	0.0204	mg/L	0.00345	16.90%
K RADIAL†	16.9	0.0149	mg/L	0.00926	0.0149	mg/L	0.00926	62.11%
Mg RADIAL†	-2.0	-0.0035	mg/L	0.02556	-0.0035	mg/L	0.02556	732.78%
Na RADIAL†	242.9	0.0461	mg/L	0.01341	0.0461	mg/L	0.01341	29.08%

Sequence No.: 13
Sample ID: BD90044-BS1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 103
Date Collected: 4/3/2019 11:07:37 AM
Data Type: Reprocessed on 4/4/2019 8:54:20 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BD90044-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15028928.3	4.971	mg/L	0.0346				0.70%
Y RADIAL	265874.5	4.948	mg/L	0.0439				0.89%
As 188.979†	2010.1	1.914	mg/L	0.0090	1.914	mg/L	0.0090	0.47%
Tl 190.801†	3120.4	2.193	mg/L	0.0165	2.193	mg/L	0.0165	0.75%
Se 196.026†	2279.4	1.706	mg/L	0.0190	1.706	mg/L	0.0190	1.11%
Zn 206.200†	12402.6	0.5047	mg/L	0.00312	0.5047	mg/L	0.00312	0.62%
Sb 206.836†	446.4	0.2700	mg/L	0.00186	0.2700	mg/L	0.00186	0.69%
Pb 220.353†	4114.7	0.5141	mg/L	0.00378	0.5141	mg/L	0.00378	0.73%
Cd 226.502†	4712.8	0.0518	mg/L	0.00004	0.0518	mg/L	0.00004	0.08%
Co 228.616†	15869.9	0.5368	mg/L	0.00260	0.5368	mg/L	0.00260	0.48%
Ni 232.003†	7356.0	0.5311	mg/L	0.00296	0.5311	mg/L	0.00296	0.56%
Ba 233.527†	127404.4	2.089	mg/L	0.0221	2.089	mg/L	0.0221	1.06%
Mn 257.610†	308643.7	0.5291	mg/L	0.00565	0.5291	mg/L	0.00565	1.07%
Cr 267.716†	20386.4	0.2008	mg/L	0.00291	0.2008	mg/L	0.00291	1.45%
Fe 273.955†	20056.9	1.073	mg/L	0.0121	1.073	mg/L	0.0121	1.13%
Mg 279.077†	19285.7	1.002	mg/L	0.0102	1.002	mg/L	0.0102	1.02%
V 292.402†	87340.5	0.5093	mg/L	0.00703	0.5093	mg/L	0.00703	1.38%
Al 308.215†	33547.0	1.841	mg/L	0.0229	1.841	mg/L	0.0229	1.24%
Be 313.107†	159283.6	0.05087	mg/L	0.000728	0.05087	mg/L	0.000728	1.43%
Cu 324.752†	56301.2	0.2688	mg/L	0.00288	0.2688	mg/L	0.00288	1.07%
Ag 338.289†	4964.4	0.0503	mg/L	0.00108	0.0503	mg/L	0.00108	2.15%
Na 330.237†	622.3	1.066	mg/L	0.1105	1.066	mg/L	0.1105	10.36%
Ca 227.546†	187.0	1.058	mg/L	0.0324	1.058	mg/L	0.0324	3.06%
Al RADIAL†	2670.3	2.087	mg/L	0.0163	2.087	mg/L	0.0163	0.78%
Fe RADIAL†	476.9	1.083	mg/L	0.0197	1.083	mg/L	0.0197	1.82%
Ca RADIAL†	4974.9	1.089	mg/L	0.0105	1.089	mg/L	0.0105	0.97%
K RADIAL†	1013.4	0.8964	mg/L	0.06284	0.8964	mg/L	0.06284	7.01%
Mg RADIAL†	585.1	1.018	mg/L	0.0240	1.018	mg/L	0.0240	2.36%
Na RADIAL†	5759.9	1.094	mg/L	0.0117	1.094	mg/L	0.0117	1.07%

Sequence No.: 14
Sample ID: 19C1266-01
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 104
Date Collected: 4/3/2019 11:10:07 AM
Data Type: Reprocessed on 4/4/2019 8:54:21 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 19C1266-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14229174.8	4.706	mg/L	0.0170				0.36%
Y RADIAL	256654.2	4.776	mg/L	0.0383				0.80%
As 188.979†	4.4	0.0042	mg/L	0.00292	0.0042	mg/L	0.00292	70.05%
Tl 190.801†	-10.3	-0.0072	mg/L	0.00499	-0.0072	mg/L	0.00499	69.22%
Se 196.026†	102.1	0.0764	mg/L	0.01276	0.0764	mg/L	0.01276	16.70%
Zn 206.200†	3045.4	0.1239	mg/L	0.00099	0.1239	mg/L	0.00099	0.80%
Sb 206.836†	11.3	0.0068	mg/L	0.00089	0.0068	mg/L	0.00089	12.99%
Pb 220.353†	-46.4	-0.0034	mg/L	0.00200	-0.0034	mg/L	0.00200	59.45%
Cd 226.502†	4938.3	0.0544	mg/L	0.00004	0.0544	mg/L	0.00004	0.07%
Co 228.616†	140.9	0.0048	mg/L	0.00019	0.0048	mg/L	0.00019	3.91%
Ni 232.003†	1805.8	0.1304	mg/L	0.00174	0.1304	mg/L	0.00174	1.34%
Ba 233.527†	3404.4	0.0558	mg/L	0.00036	0.0558	mg/L	0.00036	0.64%
Mn 257.610†	87526.6	0.1500	mg/L	0.00181	0.1500	mg/L	0.00181	1.21%
Cr 267.716†	12610.5	0.1242	mg/L	0.00236	0.1242	mg/L	0.00236	1.90%
Fe 273.955†	1108.6	0.0593	mg/L	0.00088	0.0593	mg/L	0.00088	1.49%
Mg 279.077†	546979.1	28.43	mg/L	0.369	28.43	mg/L	0.369	1.30%
V 292.402†	-64.6	-0.0004	mg/L	0.00029	-0.0004	mg/L	0.00029	74.50%
Al 308.215†	689.0	0.0326	mg/L	0.00752	0.0326	mg/L	0.00752	23.07%
Be 313.107†	894.7	0.00029	mg/L	0.000014	0.00029	mg/L	0.000014	4.93%
Cu 324.752†	1822.0	0.0087	mg/L	0.00047	0.0087	mg/L	0.00047	5.44%
Ag 338.289†	306.6	0.0012	mg/L	0.00074	0.0012	mg/L	0.00074	63.16%
Na 330.237†	25919.2	44.31	mg/L	0.646	44.31	mg/L	0.646	1.46%
Ca 227.546†	29406.6	164.7	mg/L	2.01	164.7	mg/L	2.01	1.22%
Al RADIAL†	57.4	0.0398	mg/L	0.02754	0.0398	mg/L	0.02754	69.19%
Fe RADIAL†	19.8	0.0449	mg/L	0.00877	0.0449	mg/L	0.00877	19.54%
Ca RADIAL†	783827.7	171.6	mg/L	0.50	171.6	mg/L	0.50	0.29%
K RADIAL†	10524.7	9.309	mg/L	0.1739	9.309	mg/L	0.1739	1.87%
Mg RADIAL†	15476.9	26.92	mg/L	0.084	26.92	mg/L	0.084	0.31%
Na RADIAL†	262272.1	49.81	mg/L	0.117	49.81	mg/L	0.117	0.24%

Sequence No.: 15
Sample ID: BD90044-DUP1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 105
Date Collected: 4/3/2019 11:12:37 AM
Data Type: Reprocessed on 4/4/2019 8:54:21 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: BD90044-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14074154.5	4.655	mg/L	0.0354				0.76%
Y RADIAL	254041.6	4.728	mg/L	0.0078				0.16%
As 188.979†	12.8	0.0122	mg/L	0.00735	0.0122	mg/L	0.00735	60.09%
Tl 190.801†	-11.2	-0.0079	mg/L	0.00387	-0.0079	mg/L	0.00387	49.17%
Se 196.026†	109.3	0.0818	mg/L	0.00955	0.0818	mg/L	0.00955	11.68%
Zn 206.200†	2890.9	0.1177	mg/L	0.00167	0.1177	mg/L	0.00167	1.42%
Sb 206.836†	8.3	0.0050	mg/L	0.00417	0.0050	mg/L	0.00417	82.90%
Pb 220.353†	-56.1	-0.0046	mg/L	0.00316	-0.0046	mg/L	0.00316	68.90%
Cd 226.502†	4963.7	0.0547	mg/L	0.00075	0.0547	mg/L	0.00075	1.38%
Co 228.616†	154.7	0.0052	mg/L	0.00010	0.0052	mg/L	0.00010	1.93%
Ni 232.003†	1810.3	0.1307	mg/L	0.00226	0.1307	mg/L	0.00226	1.73%
Ba 233.527†	3431.7	0.0563	mg/L	0.00072	0.0563	mg/L	0.00072	1.27%
Mn 257.610†	87880.1	0.1506	mg/L	0.00199	0.1506	mg/L	0.00199	1.32%
Cr 267.716†	12739.9	0.1255	mg/L	0.00152	0.1255	mg/L	0.00152	1.21%
Fe 273.955†	968.7	0.0518	mg/L	0.00048	0.0518	mg/L	0.00048	0.92%
Mg 279.077†	548407.2	28.51	mg/L	0.402	28.51	mg/L	0.402	1.41%
V 292.402†	31.0	0.0002	mg/L	0.00032	0.0002	mg/L	0.00032	182.84%
Al 308.215†	670.3	0.0316	mg/L	0.00646	0.0316	mg/L	0.00646	20.45%
Be 313.107†	896.0	0.00029	mg/L	0.000054	0.00029	mg/L	0.000054	19.03%
Cu 324.752†	1690.2	0.0081	mg/L	0.00021	0.0081	mg/L	0.00021	2.55%
Ag 338.289†	329.6	0.0014	mg/L	0.00100	0.0014	mg/L	0.00100	70.86%
Na 330.237†	26011.2	44.47	mg/L	0.692	44.47	mg/L	0.692	1.56%
Ca 227.546†	29497.9	165.2	mg/L	2.43	165.2	mg/L	2.43	1.47%
Al RADIAL†	39.7	0.0259	mg/L	0.00680	0.0259	mg/L	0.00680	26.21%
Fe RADIAL†	24.6	0.0558	mg/L	0.00755	0.0558	mg/L	0.00755	13.52%
Ca RADIAL†	779251.9	170.6	mg/L	0.19	170.6	mg/L	0.19	0.11%
K RADIAL†	10584.7	9.362	mg/L	0.0423	9.362	mg/L	0.0423	0.45%
Mg RADIAL†	15397.2	26.78	mg/L	0.055	26.78	mg/L	0.055	0.21%
Na RADIAL†	263775.4	50.10	mg/L	0.170	50.10	mg/L	0.170	0.34%

Sequence No.: 16
Sample ID: BD90044-MS1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 106
Date Collected: 4/3/2019 11:15:07 AM
Data Type: Reprocessed on 4/4/2019 8:54:22 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BD90044-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14141526.9	4.678	mg/L	0.0443				0.95%
Y RADIAL	253704.3	4.721	mg/L	0.0371				0.78%
As 188.979†	2060.5	1.962	mg/L	0.0207	1.962	mg/L	0.0207	1.05%
Tl 190.801†	2982.0	2.096	mg/L	0.0305	2.096	mg/L	0.0305	1.45%
Se 196.026†	2428.1	1.817	mg/L	0.0247	1.817	mg/L	0.0247	1.36%
Zn 206.200†	14642.1	0.5959	mg/L	0.00731	0.5959	mg/L	0.00731	1.23%
Sb 206.836†	457.6	0.2768	mg/L	0.00794	0.2768	mg/L	0.00794	2.87%
Pb 220.353†	3794.6	0.4765	mg/L	0.00463	0.4765	mg/L	0.00463	0.97%
Cd 226.502†	9170.8	0.1009	mg/L	0.00128	0.1009	mg/L	0.00128	1.27%
Co 228.616†	14885.7	0.5035	mg/L	0.00637	0.5035	mg/L	0.00637	1.26%
Ni 232.003†	8831.7	0.6377	mg/L	0.00607	0.6377	mg/L	0.00607	0.95%
Ba 233.527†	125654.4	2.060	mg/L	0.0239	2.060	mg/L	0.0239	1.16%
Mn 257.610†	388210.1	0.6654	mg/L	0.00863	0.6654	mg/L	0.00863	1.30%
Cr 267.716†	32306.9	0.3182	mg/L	0.00391	0.3182	mg/L	0.00391	1.23%
Fe 273.955†	19819.0	1.060	mg/L	0.0141	1.060	mg/L	0.0141	1.33%
Mg 279.077†	556364.4	28.92	mg/L	0.340	28.92	mg/L	0.340	1.18%
V 292.402†	87030.8	0.5075	mg/L	0.00578	0.5075	mg/L	0.00578	1.14%
Al 308.215†	36229.3	1.983	mg/L	0.0227	1.983	mg/L	0.0227	1.15%
Be 313.107†	158922.2	0.05076	mg/L	0.000589	0.05076	mg/L	0.000589	1.16%
Cu 324.752†	56606.6	0.2703	mg/L	0.00366	0.2703	mg/L	0.00366	1.36%
Ag 338.289†	5419.9	0.0530	mg/L	0.00056	0.0530	mg/L	0.00056	1.05%
Na 330.237†	26344.1	45.04	mg/L	0.404	45.04	mg/L	0.404	0.90%
Ca 227.546†	29920.3	167.6	mg/L	1.80	167.6	mg/L	1.80	1.08%
Al RADIAL†	2689.3	2.096	mg/L	0.0198	2.096	mg/L	0.0198	0.94%
Fe RADIAL†	456.4	1.037	mg/L	0.0121	1.037	mg/L	0.0121	1.16%
Ca RADIAL†	774787.6	169.6	mg/L	0.17	169.6	mg/L	0.17	0.10%
K RADIAL†	11456.6	10.13	mg/L	0.050	10.13	mg/L	0.050	0.50%
Mg RADIAL†	15765.8	27.43	mg/L	0.065	27.43	mg/L	0.065	0.24%
Na RADIAL†	268735.8	51.04	mg/L	0.218	51.04	mg/L	0.218	0.43%

Sequence No.: 18
Sample ID: 19C1266-02
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 108
Date Collected: 4/3/2019 11:20:13 AM
Data Type: Reprocessed on 4/4/2019 8:54:23 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 19C1266-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	13369689.8	4.422	mg/L	0.0125				0.28%
Y RADIAL	245736.1	4.573	mg/L	0.0514				1.12%
As 188.979†	2.0	0.0021	mg/L	0.00780	0.0021	mg/L	0.00780	370.21%
Tl 190.801†	-15.7	-0.0107	mg/L	0.00120	-0.0107	mg/L	0.00120	11.24%
Se 196.026†	47.2	0.0331	mg/L	0.02081	0.0331	mg/L	0.02081	62.93%
Zn 206.200†	144.5	0.0058	mg/L	0.00014	0.0058	mg/L	0.00014	2.48%
Sb 206.836†	-4.2	-0.0023	mg/L	0.01078	-0.0023	mg/L	0.01078	477.18%
Pb 220.353†	-27.5	-0.0021	mg/L	0.00173	-0.0021	mg/L	0.00173	82.34%
Cd 226.502†	111.0	0.0010	mg/L	0.00038	0.0010	mg/L	0.00038	35.92%
Co 228.616†	17.1	0.0006	mg/L	0.00021	0.0006	mg/L	0.00021	32.64%
Ni 232.003†	-11.4	-0.0011	mg/L	0.00105	-0.0011	mg/L	0.00105	95.49%
Ba 233.527†	5601.1	0.0918	mg/L	0.00023	0.0918	mg/L	0.00023	0.25%
Mn 257.610†	664430.3	1.139	mg/L	0.0091	1.139	mg/L	0.0091	0.80%
Cr 267.716†	217.5	0.0022	mg/L	0.00083	0.0022	mg/L	0.00083	38.35%
Fe 273.955†	42478.8	2.273	mg/L	0.0140	2.273	mg/L	0.0140	0.62%
Mg 279.077†	261359.0	13.59	mg/L	0.100	13.59	mg/L	0.100	0.73%
V 292.402†	54.1	0.0000	mg/L	0.00030	0.0000	mg/L	0.00030	>999.9%
Al 308.215†	5422.4	0.2948	mg/L	0.00539	0.2948	mg/L	0.00539	1.83%
Be 313.107†	551.3	0.00018	mg/L	0.000079	0.00018	mg/L	0.000079	44.88%
Cu 324.752†	1401.7	0.0068	mg/L	0.00032	0.0068	mg/L	0.00032	4.76%
Ag 338.289†	-131.8	-0.0024	mg/L	0.00104	-0.0024	mg/L	0.00104	44.05%
Na 330.237†	357130.4	608.4	mg/L	5.36	608.4	mg/L	5.36	0.88%
Ca 227.546†	17924.6	100.4	mg/L	0.95	100.4	mg/L	0.95	0.94%
Al RADIAL†	340.6	0.2634	mg/L	0.01148	0.2634	mg/L	0.01148	4.36%
Fe RADIAL†	1013.5	2.302	mg/L	0.0367	2.302	mg/L	0.0367	1.59%
Ca RADIAL†	456228.3	99.86	mg/L	0.176	99.86	mg/L	0.176	0.18%
K RADIAL†	5093.7	4.506	mg/L	0.1010	4.506	mg/L	0.1010	2.24%
Mg RADIAL†	7796.8	13.56	mg/L	0.209	13.56	mg/L	0.209	1.54%
Na RADIAL†	2660210.1	505.2	mg/L	8.20	505.2	mg/L	8.20	1.62%

Sequence No.: 19
Sample ID: 19C1266-03
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 109
Date Collected: 4/3/2019 11:22:50 AM
Data Type: Reprocessed on 4/4/2019 8:54:24 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 19C1266-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	12859094.0	4.253	mg/L	0.0309				0.73%
Y RADIAL	239165.3	4.451	mg/L	0.0280				0.63%
As 188.979†	15.6	0.0149	mg/L	0.00786	0.0149	mg/L	0.00786	52.82%
Tl 190.801†	-11.2	-0.0078	mg/L	0.00349	-0.0078	mg/L	0.00349	44.53%
Se 196.026†	122.7	0.0917	mg/L	0.01524	0.0917	mg/L	0.01524	16.61%
Zn 206.200†	49.7	0.0020	mg/L	0.00019	0.0020	mg/L	0.00019	9.31%
Sb 206.836†	-5.4	-0.0032	mg/L	0.00224	-0.0032	mg/L	0.00224	69.57%
Pb 220.353†	-68.0	-0.0051	mg/L	0.00140	-0.0051	mg/L	0.00140	27.74%
Cd 226.502†	37.5	0.0004	mg/L	0.00014	0.0004	mg/L	0.00014	35.77%
Co 228.616†	-6.5	-0.0002	mg/L	0.00016	-0.0002	mg/L	0.00016	74.33%
Ni 232.003†	-114.2	-0.0083	mg/L	0.00194	-0.0083	mg/L	0.00194	23.44%
Ba 233.527†	5533.2	0.0907	mg/L	0.00057	0.0907	mg/L	0.00057	0.63%
Mn 257.610†	1048472.8	1.797	mg/L	0.0135	1.797	mg/L	0.0135	0.75%
Cr 267.716†	195.9	0.0019	mg/L	0.00005	0.0019	mg/L	0.00005	2.64%
Fe 273.955†	2325.2	0.1244	mg/L	0.00070	0.1244	mg/L	0.00070	0.56%
Mg 279.077†	663461.1	34.49	mg/L	0.338	34.49	mg/L	0.338	0.98%
V 292.402†	29.7	0.0002	mg/L	0.00041	0.0002	mg/L	0.00041	262.53%
Al 308.215†	2901.5	0.1521	mg/L	0.00513	0.1521	mg/L	0.00513	3.38%
Be 313.107†	292.6	0.00009	mg/L	0.000067	0.00009	mg/L	0.000067	71.50%
Cu 324.752†	1142.4	0.0055	mg/L	0.00028	0.0055	mg/L	0.00028	5.10%
Ag 338.289†	143.1	-0.0013	mg/L	0.00044	-0.0013	mg/L	0.00044	34.78%
Na 330.237†	712899.2	1214	mg/L	9.8	1214	mg/L	9.8	0.81%
Ca 227.546†	44788.1	250.8	mg/L	2.14	250.8	mg/L	2.14	0.85%
Al RADIAL†	153.3	0.1126	mg/L	0.07453	0.1126	mg/L	0.07453	66.18%
Fe RADIAL†	55.6	0.1262	mg/L	0.00953	0.1262	mg/L	0.00953	7.55%
Ca RADIAL†	1105359.8	241.9	mg/L	0.46	241.9	mg/L	0.46	0.19%
K RADIAL†	9597.9	8.490	mg/L	0.0320	8.490	mg/L	0.0320	0.38%
Mg RADIAL†	18956.1	32.98	mg/L	0.114	32.98	mg/L	0.114	0.35%
Na RADIAL†	4750059.2	902.2	mg/L	12.11	902.2	mg/L	12.11	1.34%

Sequence No.: 20
Sample ID: 19C1266-05
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 110
Date Collected: 4/3/2019 11:25:34 AM
Data Type: Reprocessed on 4/4/2019 8:54:25 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 19C1266-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14119075.6	4.670	mg/L	0.0112				0.24%
Y RADIAL	252936.0	4.707	mg/L	0.0978				2.08%
As 188.979†	4.7	0.0045	mg/L	0.00543	0.0045	mg/L	0.00543	121.11%
Tl 190.801†	-15.7	-0.0111	mg/L	0.00425	-0.0111	mg/L	0.00425	38.44%
Se 196.026†	112.9	0.0845	mg/L	0.01048	0.0845	mg/L	0.01048	12.40%
Zn 206.200†	2845.0	0.1158	mg/L	0.00061	0.1158	mg/L	0.00061	0.52%
Sb 206.836†	-5.9	-0.0035	mg/L	0.00549	-0.0035	mg/L	0.00549	155.27%
Pb 220.353†	-70.1	-0.0064	mg/L	0.00111	-0.0064	mg/L	0.00111	17.48%
Cd 226.502†	4843.9	0.0534	mg/L	0.00008	0.0534	mg/L	0.00008	0.15%
Co 228.616†	94.1	0.0032	mg/L	0.00013	0.0032	mg/L	0.00013	4.01%
Ni 232.003†	1728.9	0.1249	mg/L	0.00085	0.1249	mg/L	0.00085	0.68%
Ba 233.527†	3326.0	0.0545	mg/L	0.00031	0.0545	mg/L	0.00031	0.56%
Mn 257.610†	59788.5	0.1025	mg/L	0.00069	0.1025	mg/L	0.00069	0.67%
Cr 267.716†	12663.8	0.1247	mg/L	0.00062	0.1247	mg/L	0.00062	0.50%
Fe 273.955†	766.6	0.0410	mg/L	0.00177	0.0410	mg/L	0.00177	4.32%
Mg 279.077†	523907.5	27.24	mg/L	0.187	27.24	mg/L	0.187	0.69%
V 292.402†	-26.8	-0.0002	mg/L	0.00014	-0.0002	mg/L	0.00014	88.36%
Al 308.215†	677.3	0.0321	mg/L	0.00215	0.0321	mg/L	0.00215	6.69%
Be 313.107†	1104.6	0.00035	mg/L	0.000029	0.00035	mg/L	0.000029	8.10%
Cu 324.752†	1700.0	0.0081	mg/L	0.00060	0.0081	mg/L	0.00060	7.41%
Ag 338.289†	334.8	0.0015	mg/L	0.00082	0.0015	mg/L	0.00082	55.12%
Na 330.237†	23204.1	39.69	mg/L	0.267	39.69	mg/L	0.267	0.67%
Ca 227.546†	28851.8	161.6	mg/L	0.80	161.6	mg/L	0.80	0.49%
Al RADIAL†	25.7	0.0151	mg/L	0.01775	0.0151	mg/L	0.01775	117.29%
Fe RADIAL†	16.1	0.0365	mg/L	0.00324	0.0365	mg/L	0.00324	8.89%
Ca RADIAL†	767950.6	168.1	mg/L	1.98	168.1	mg/L	1.98	1.18%
K RADIAL†	10497.9	9.286	mg/L	0.0160	9.286	mg/L	0.0160	0.17%
Mg RADIAL†	14810.2	25.76	mg/L	0.270	25.76	mg/L	0.270	1.05%
Na RADIAL†	246146.1	46.75	mg/L	0.379	46.75	mg/L	0.379	0.81%

Sequence No.: 21
Sample ID: SEQ-CCV2
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 4/3/2019 11:28:05 AM
Data Type: Reprocessed on 4/4/2019 8:54:25 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14864650.7	4.917	mg/L	0.0424				0.86%
Y RADIAL	259451.0	4.828	mg/L	0.0468				0.97%
As 188.979†	510.6	0.4867	mg/L	0.00893	0.4867	mg/L	0.00893	1.84%
Tl 190.801†	745.0	0.5241	mg/L	0.00669	0.5241	mg/L	0.00669	1.28%
Se 196.026†	669.1	0.4962	mg/L	0.00798	0.4962	mg/L	0.00798	1.61%
Zn 206.200†	59455.4	2.420	mg/L	0.0117	2.420	mg/L	0.0117	0.48%
Sb 206.836†	382.7	0.2319	mg/L	0.00915	0.2319	mg/L	0.00915	3.94%
Pb 220.353†	3856.3	0.4830	mg/L	0.00249	0.4830	mg/L	0.00249	0.52%
Cd 226.502†	21742.5	0.2391	mg/L	0.00098	0.2391	mg/L	0.00098	0.41%
Co 228.616†	71929.4	2.433	mg/L	0.0143	2.433	mg/L	0.0143	0.59%
Ni 232.003†	33903.7	2.448	mg/L	0.0167	2.448	mg/L	0.0167	0.68%
Ba 233.527†	605538.6	9.929	mg/L	0.0634	9.929	mg/L	0.0634	0.64%
Mn 257.610†	1477640.6	2.533	mg/L	0.0184	2.533	mg/L	0.0184	0.73%
Cr 267.716†	98023.6	0.9655	mg/L	0.00731	0.9655	mg/L	0.00731	0.76%
Fe 273.955†	89976.0	4.814	mg/L	0.0350	4.814	mg/L	0.0350	0.73%
Mg 279.077†	465613.4	24.20	mg/L	0.172	24.20	mg/L	0.172	0.71%
V 292.402†	429323.3	2.504	mg/L	0.0222	2.504	mg/L	0.0222	0.89%
Al 308.215†	171203.0	9.394	mg/L	0.0742	9.394	mg/L	0.0742	0.79%
Be 313.107†	796982.9	0.25455	mg/L	0.002146	0.25455	mg/L	0.002146	0.84%
Cu 324.752†	259925.9	1.241	mg/L	0.0107	1.241	mg/L	0.0107	0.86%
Ag 338.289†	119281.8	1.207	mg/L	0.0109	1.207	mg/L	0.0109	0.90%
Na 330.237†	13782.1	23.52	mg/L	0.171	23.52	mg/L	0.171	0.73%
Ca 227.546†	4354.1	24.43	mg/L	0.311	24.43	mg/L	0.311	1.27%
Al RADIAL†	13095.6	10.23	mg/L	0.136	10.23	mg/L	0.136	1.33%
Fe RADIAL†	2162.3	4.912	mg/L	0.0525	4.912	mg/L	0.0525	1.07%
Ca RADIAL†	113153.4	24.77	mg/L	0.017	24.77	mg/L	0.017	0.07%
K RADIAL†	5081.9	4.495	mg/L	0.0625	4.495	mg/L	0.0625	1.39%
Mg RADIAL†	13976.3	24.31	mg/L	0.296	24.31	mg/L	0.296	1.22%
Na RADIAL†	142990.8	27.16	mg/L	0.148	27.16	mg/L	0.148	0.54%

Sequence No.: 22
Sample ID: SEQ-CCB2
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 4/3/2019 11:30:37 AM
Data Type: Reprocessed on 4/4/2019 8:54:26 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB2

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15132217.5	5.005	mg/L	0.0225				0.45%
Y RADIAL	264581.5	4.924	mg/L	0.0250				0.51%
As 188.979†	5.3	0.0050	mg/L	0.00404	0.0050	mg/L	0.00404	80.32%
Tl 190.801†	-5.3	-0.0037	mg/L	0.00459	-0.0037	mg/L	0.00459	123.59%
Se 196.026†	11.4	0.0086	mg/L	0.00405	0.0086	mg/L	0.00405	47.32%
Zn 206.200†	16.9	0.0007	mg/L	0.00029	0.0007	mg/L	0.00029	42.48%
Sb 206.836†	-11.8	-0.0071	mg/L	0.00768	-0.0071	mg/L	0.00768	107.43%
Pb 220.353†	-24.0	-0.0030	mg/L	0.00063	-0.0030	mg/L	0.00063	21.07%
Cd 226.502†	21.2	0.0002	mg/L	0.00034	0.0002	mg/L	0.00034	145.54%
Co 228.616†	11.5	0.0004	mg/L	0.00026	0.0004	mg/L	0.00026	67.56%
Ni 232.003†	58.3	0.0042	mg/L	0.00077	0.0042	mg/L	0.00077	18.32%
Ba 233.527†	12.2	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	34.80%
Mn 257.610†	81.0	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	17.74%
Cr 267.716†	-73.5	-0.0007	mg/L	0.00040	-0.0007	mg/L	0.00040	55.79%
Fe 273.955†	31.1	0.0017	mg/L	0.00034	0.0017	mg/L	0.00034	20.55%
Mg 279.077†	-64.4	-0.0033	mg/L	0.00157	-0.0033	mg/L	0.00157	46.87%
V 292.402†	4.9	0.0000	mg/L	0.00030	0.0000	mg/L	0.00030	>999.9%
Al 308.215†	-47.6	-0.0026	mg/L	0.00565	-0.0026	mg/L	0.00565	216.14%
Be 313.107†	1881.2	0.00060	mg/L	0.000043	0.00060	mg/L	0.000043	7.21%
Cu 324.752†	-292.1	-0.0014	mg/L	0.00021	-0.0014	mg/L	0.00021	15.13%
Ag 338.289†	13.9	0.0001	mg/L	0.00060	0.0001	mg/L	0.00060	428.30%
Na 330.237†	-5.1	-0.0088	mg/L	0.06630	-0.0088	mg/L	0.06630	757.11%
Ca 227.546†	10.9	0.0610	mg/L	0.03985	0.0610	mg/L	0.03985	65.34%
Al RADIAL†	16.6	0.0130	mg/L	0.01074	0.0130	mg/L	0.01074	82.71%
Fe RADIAL†	-4.3	-0.0098	mg/L	0.00182	-0.0098	mg/L	0.00182	18.53%
Ca RADIAL†	172.7	0.0378	mg/L	0.00176	0.0378	mg/L	0.00176	4.65%
K RADIAL†	75.6	0.0669	mg/L	0.01936	0.0669	mg/L	0.01936	28.95%
Mg RADIAL†	-3.5	-0.0061	mg/L	0.01606	-0.0061	mg/L	0.01606	264.73%
Na RADIAL†	282.8	0.0537	mg/L	0.01705	0.0537	mg/L	0.01705	31.75%

Sequence No.: 24
Sample ID: SEQ-SRD1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 112
Date Collected: 4/3/2019 11:35:43 AM
Data Type: Reprocessed on 4/4/2019 8:54:27 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-SRD1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14739647.2	4.875	mg/L	0.0328				0.67%
Y RADIAL	259537.0	4.830	mg/L	0.0193				0.40%
As 188.979†	9.5	0.0090	mg/L	0.00892	0.0090	mg/L	0.00892	98.74%
Tl 190.801†	-15.6	-0.0110	mg/L	0.00729	-0.0110	mg/L	0.00729	66.40%
Se 196.026†	30.8	0.0231	mg/L	0.00719	0.0231	mg/L	0.00719	31.17%
Zn 206.200†	835.6	0.0340	mg/L	0.00057	0.0340	mg/L	0.00057	1.67%
Sb 206.836†	-18.5	-0.0112	mg/L	0.00526	-0.0112	mg/L	0.00526	47.03%
Pb 220.353†	-44.6	-0.0050	mg/L	0.00268	-0.0050	mg/L	0.00268	53.92%
Cd 226.502†	1325.9	0.0146	mg/L	0.00033	0.0146	mg/L	0.00033	2.28%
Co 228.616†	48.2	0.0016	mg/L	0.00033	0.0016	mg/L	0.00033	20.47%
Ni 232.003†	527.5	0.0381	mg/L	0.00380	0.0381	mg/L	0.00380	9.98%
Ba 233.527†	912.1	0.0150	mg/L	0.00016	0.0150	mg/L	0.00016	1.07%
Mn 257.610†	23338.2	0.0400	mg/L	0.00090	0.0400	mg/L	0.00090	2.25%
Cr 267.716†	3265.5	0.0322	mg/L	0.00134	0.0322	mg/L	0.00134	4.16%
Fe 273.955†	349.2	0.0187	mg/L	0.00044	0.0187	mg/L	0.00044	2.33%
Mg 279.077†	142661.6	7.416	mg/L	0.1470	7.416	mg/L	0.1470	1.98%
V 292.402†	-8.9	-0.0001	mg/L	0.00025	-0.0001	mg/L	0.00025	468.13%
Al 308.215†	198.2	0.0096	mg/L	0.00213	0.0096	mg/L	0.00213	22.24%
Be 313.107†	1960.9	0.00063	mg/L	0.000030	0.00063	mg/L	0.000030	4.73%
Cu 324.752†	255.9	0.0012	mg/L	0.00012	0.0012	mg/L	0.00012	9.42%
Ag 338.289†	43.1	0.0000	mg/L	0.00038	0.0000	mg/L	0.00038	871.56%
Na 330.237†	5589.4	9.562	mg/L	0.1156	9.562	mg/L	0.1156	1.21%
Ca 227.546†	7510.0	42.06	mg/L	0.662	42.06	mg/L	0.662	1.57%
Al RADIAL†	25.6	0.0188	mg/L	0.00892	0.0188	mg/L	0.00892	47.54%
Fe RADIAL†	1.4	0.0032	mg/L	0.00340	0.0032	mg/L	0.00340	105.29%
Ca RADIAL†	194632.9	42.60	mg/L	0.825	42.60	mg/L	0.825	1.94%
K RADIAL†	2635.0	2.331	mg/L	0.0274	2.331	mg/L	0.0274	1.18%
Mg RADIAL†	4019.7	6.993	mg/L	0.1532	6.993	mg/L	0.1532	2.19%
Na RADIAL†	68655.3	13.04	mg/L	0.226	13.04	mg/L	0.226	1.73%

Sequence No.: 33
Sample ID: SEQ-CCV3
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 4/3/2019 11:57:49 AM
Data Type: Reprocessed on 4/4/2019 8:54:35 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV3

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14644053.2	4.844	mg/L	0.0197				0.41%
Y RADIAL	256364.1	4.771	mg/L	0.0313				0.66%
As 188.979†	508.7	0.4849	mg/L	0.00014	0.4849	mg/L	0.00014	0.03%
Tl 190.801†	742.5	0.5224	mg/L	0.00934	0.5224	mg/L	0.00934	1.79%
Se 196.026†	655.1	0.4857	mg/L	0.00234	0.4857	mg/L	0.00234	0.48%
Zn 206.200†	59442.7	2.419	mg/L	0.0219	2.419	mg/L	0.0219	0.91%
Sb 206.836†	395.8	0.2399	mg/L	0.00371	0.2399	mg/L	0.00371	1.54%
Pb 220.353†	3853.6	0.4827	mg/L	0.00250	0.4827	mg/L	0.00250	0.52%
Cd 226.502†	21727.2	0.2390	mg/L	0.00052	0.2390	mg/L	0.00052	0.22%
Co 228.616†	72348.5	2.447	mg/L	0.0176	2.447	mg/L	0.0176	0.72%
Ni 232.003†	34209.6	2.470	mg/L	0.0230	2.470	mg/L	0.0230	0.93%
Ba 233.527†	609830.9	9.999	mg/L	0.0723	9.999	mg/L	0.0723	0.72%
Mn 257.610†	1496724.9	2.566	mg/L	0.0168	2.566	mg/L	0.0168	0.65%
Cr 267.716†	98727.2	0.9724	mg/L	0.00683	0.9724	mg/L	0.00683	0.70%
Fe 273.955†	90721.2	4.854	mg/L	0.0353	4.854	mg/L	0.0353	0.73%
Mg 279.077†	464536.1	24.15	mg/L	0.184	24.15	mg/L	0.184	0.76%
V 292.402†	433531.9	2.528	mg/L	0.0217	2.528	mg/L	0.0217	0.86%
Al 308.215†	173649.3	9.528	mg/L	0.0494	9.528	mg/L	0.0494	0.52%
Be 313.107†	805003.4	0.25711	mg/L	0.002484	0.25711	mg/L	0.002484	0.97%
Cu 324.752†	264006.5	1.260	mg/L	0.0074	1.260	mg/L	0.0074	0.59%
Ag 338.289†	120326.7	1.217	mg/L	0.0077	1.217	mg/L	0.0077	0.63%
Na 330.237†	14069.0	24.01	mg/L	0.150	24.01	mg/L	0.150	0.62%
Ca 227.546†	4394.4	24.66	mg/L	0.141	24.66	mg/L	0.141	0.57%
Al RADIAL†	13245.0	10.35	mg/L	0.063	10.35	mg/L	0.063	0.61%
Fe RADIAL†	2164.2	4.916	mg/L	0.0371	4.916	mg/L	0.0371	0.75%
Ca RADIAL†	114513.7	25.07	mg/L	0.119	25.07	mg/L	0.119	0.48%
K RADIAL†	5513.5	4.877	mg/L	0.0605	4.877	mg/L	0.0605	1.24%
Mg RADIAL†	13950.1	24.27	mg/L	0.187	24.27	mg/L	0.187	0.77%
Na RADIAL†	147768.5	28.06	mg/L	0.215	28.06	mg/L	0.215	0.77%

Sequence No.: 34
Sample ID: SEQ-CCB3
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 4/3/2019 12:00:20 PM
Data Type: Reprocessed on 4/4/2019 8:54:36 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB3

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15009225.1	4.965	mg/L	0.0253				0.51%
Y RADIAL	261712.5	4.870	mg/L	0.0239				0.49%
As 188.979†	13.5	0.0129	mg/L	0.00605	0.0129	mg/L	0.00605	46.90%
Tl 190.801†	6.3	0.0044	mg/L	0.00492	0.0044	mg/L	0.00492	111.81%
Se 196.026†	-0.3	-0.0002	mg/L	0.00306	-0.0002	mg/L	0.00306	>999.9%
Zn 206.200†	17.6	0.0007	mg/L	0.00028	0.0007	mg/L	0.00028	39.05%
Sb 206.836†	-9.6	-0.0058	mg/L	0.00547	-0.0058	mg/L	0.00547	94.28%
Pb 220.353†	-41.4	-0.0052	mg/L	0.00115	-0.0052	mg/L	0.00115	22.17%
Cd 226.502†	31.7	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	17.21%
Co 228.616†	23.9	0.0008	mg/L	0.00026	0.0008	mg/L	0.00026	32.25%
Ni 232.003†	81.3	0.0059	mg/L	0.00160	0.0059	mg/L	0.00160	27.20%
Ba 233.527†	3.8	0.0001	mg/L	0.00017	0.0001	mg/L	0.00017	274.83%
Mn 257.610†	60.7	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	29.53%
Cr 267.716†	-44.3	-0.0004	mg/L	0.00044	-0.0004	mg/L	0.00044	101.58%
Fe 273.955†	9.3	0.0005	mg/L	0.00040	0.0005	mg/L	0.00040	79.70%
Mg 279.077†	-29.1	-0.0015	mg/L	0.00083	-0.0015	mg/L	0.00083	54.91%
V 292.402†	-25.1	-0.0001	mg/L	0.00051	-0.0001	mg/L	0.00051	351.95%
Al 308.215†	-82.0	-0.0045	mg/L	0.00161	-0.0045	mg/L	0.00161	35.87%
Be 313.107†	2057.8	0.00066	mg/L	0.000011	0.00066	mg/L	0.000011	1.64%
Cu 324.752†	-451.8	-0.0022	mg/L	0.00029	-0.0022	mg/L	0.00029	13.66%
Ag 338.289†	-43.9	-0.0004	mg/L	0.00053	-0.0004	mg/L	0.00053	118.81%
Na 330.237†	-77.2	-0.1315	mg/L	0.04991	-0.1315	mg/L	0.04991	37.95%
Ca 227.546†	-4.4	-0.0245	mg/L	0.06155	-0.0245	mg/L	0.06155	251.31%
Al RADIAL†	9.4	0.0073	mg/L	0.01131	0.0073	mg/L	0.01131	154.52%
Fe RADIAL†	-3.4	-0.0078	mg/L	0.00522	-0.0078	mg/L	0.00522	67.28%
Ca RADIAL†	211.3	0.0463	mg/L	0.00433	0.0463	mg/L	0.00433	9.37%
K RADIAL†	9.6	0.0085	mg/L	0.04528	0.0085	mg/L	0.04528	532.88%
Mg RADIAL†	-0.1	-0.0002	mg/L	0.00789	-0.0002	mg/L	0.00789	>999.9%
Na RADIAL†	203.4	0.0386	mg/L	0.01052	0.0386	mg/L	0.01052	27.23%

York Analytical Laboratories, Inc.
SDG: 19C1266
CLASS: HG
METHOD: EPA 7473

DATA PACKAGE COVER PAGE

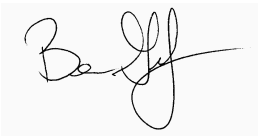
EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 0319	19C1266-01
KC-MW-02 0319	19C1266-02
KC-MW-05 0319	19C1266-03
KC-MW-DUP 0319	19C1266-05

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 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: 4/11/2019 Title: Laboratory Director

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-01 0319

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19C1266-01 File ID: QBHGDMA80-01 040419A-006

Sampled: 03/28/19 13:39 Prepared: 04/04/19 09:09 Analyzed: 04/04/19 10:03

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BD90254 Sequence: Y9D0422 Calibration: 04/04/19 1 Instrument: DMA 80-01

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 0319

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19C1266-02 File ID: QBHGDMA80-01 040419A-007

Sampled: 03/28/19 14:15 Prepared: 04/04/19 09:09 Analyzed: 04/04/19 10:14

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BD90254 Sequence: Y9D0422 Calibration: 04/04/19 1 Instrument: DMA 80-01

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 0319

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19C1266-03 File ID: QBHGDMA80-01 040419A-008

Sampled: 03/28/19 10:18 Prepared: 04/04/19 09:09 Analyzed: 04/04/19 10:24

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BD90254 Sequence: Y9D0422 Calibration: 04/04/19 1 Instrument: DMA 80-01

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-DUP 0319

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19C1266-05 File ID: QBHGDMA80-01 040419A-009

Sampled: 03/28/19 00:00 Prepared: 04/04/19 09:09 Analyzed: 04/04/19 10:35

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BD90254 Sequence: Y9D0422 Calibration: 04/04/19 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I

METHOD BLANK DATA SHEET

EPA 7473

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BD90254-BLK1	File ID:	QBHGDMA80-01 040419A-004
Prepared:	04/04/19 09:09	Preparation:	EPA 7473 water	Initial/Final:	0.25 mL / 0.25 mL
Analyzed:	04/04/19 09:42	Instrument:	DMA 80-01		
Batch:	BD90254	Sequence:	Y9D0422	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	Q
7439-97-6	Mercury	0.00020	U

STANDARD REFERENCE MATERIAL RECOVERY

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Matrix: Water
Batch: BD90254
Laboratory ID: BD90254-SRM1
Preparation: EPA 7473 water
Initial/Final: 0.1 mL / 0.1 mL

ANALYTE	TRUE (mg/L)	FOUND (mg/L)	SRM % REC.	QC LIMITS REC.
Mercury	0.0100	0.00793	79.3	70 - 130

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 7473

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19C1266

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** DMA 80-01

Analyte	LOD	LOQ	Units
Mercury	0.00020	0.00020	mg/L

FORM IV **PREPARATION BATCH SUMMARY**

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BD90254 Batch Matrix: Water Preparation: EPA 7473 water

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 0319	19C1266-01	HGDMA80-01 040419A-	04/04/19 09:09	
KC-MW-02 0319	19C1266-02	HGDMA80-01 040419A-	04/04/19 09:09	
KC-MW-05 0319	19C1266-03	HGDMA80-01 040419A-	04/04/19 09:09	
KC-MW-DUP 0319	19C1266-05	HGDMA80-01 040419A-	04/04/19 09:09	
Blank	BD90254-BLK1	HGDMA80-01 040419A-	04/04/19 09:09	
Reference	BD90254-SRM1	HGDMA80-01 040419A-	04/04/19 09:09	

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7473

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19C1266
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y9D0422	Instrument:	DMA 80-01
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	Y9D0422-CCV1	QBHGDMA80-01 040419A-002	04/04/19 09:21
Calibration Blank	Y9D0422-CCB1	QBHGDMA80-01 040419A-003	04/04/19 09:31
Blank	BD90254-BLK1	QBHGDMA80-01 040419A-004	04/04/19 09:42
Reference	BD90254-SRM1	QBHGDMA80-01 040419A-005	04/04/19 09:52
KC-MW-01 0319	19C1266-01	QBHGDMA80-01 040419A-006	04/04/19 10:03
KC-MW-02 0319	19C1266-02	QBHGDMA80-01 040419A-007	04/04/19 10:14
KC-MW-05 0319	19C1266-03	QBHGDMA80-01 040419A-008	04/04/19 10:24
KC-MW-DUP 0319	19C1266-05	QBHGDMA80-01 040419A-009	04/04/19 10:35
Calibration Check	Y9D0422-CCV2	QBHGDMA80-01 040419A-013	04/04/19 11:37
Calibration Blank	Y9D0422-CCB2	QBHGDMA80-01 040419A-014	04/04/19 11:46

CONTINUING CALIBRATION CHECK

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 19C1266
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: DMA 80-01
Calibration: 04/04/19
Control Limt: +/- %
Sequence: Y9D0422

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y9D0422-CCV1	Mercury	0.0100	0.00954	95.4	mg/L	EPA 7473
Y9D0422-CCV2	Mercury	0.0100	0.0102	102	mg/L	EPA 7473

* Values outside of QC limits

FORM I **BLANKS**

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 19C1266

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: DMA 80-01 Project: 41103.00 KINGSTON CVS

Sequence: Y9D0422 Calibration: 04/04/19 0

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y9D0422-CCB1	Mercury	0.00	0.00020	mg/L		EPA 7473
BD90254-BLK1	Mercury	0.00	0.00020	mg/L		EPA 7473
Y9D0422-CCB2	Mercury	0.00	0.00020	mg/L		EPA 7473

BENCHSHEETS

SDG: 19C1266

CLASS: HG

METHOD: EPA 7473

PREPARATION BENCH SHEET-AQUEOUS: BD90254

Prepared: **04/04/2019 09:09**

York Analytical Laboratories, Inc.

Printed: 4/4/2019 3:21:17PM

Matrix: Water **Preparation EPA 7473 water** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data			Decanted Y/N	Comments
									Initial	Acid	Basic		
19C1266-01 D	Mercury by 7473	0.25	0.25										
19C1266-02 D	Mercury by 7473	0.25	0.25										
19C1266-03 D	Mercury by 7473	0.25	0.25										
19C1266-05 D	Mercury by 7473	0.25	0.25										
19C1295-04 D	Mercury by 7473	0.25	0.25										
BD90254-BLK1	QC	0.25	0.25										
BD90254-DUP1	QC	0.25	0.25					19C1295-04					
BD90254-MS1	QC	0.25	0.25	Y19A083	125			19C1295-04					
BD90254-SRM1	QC	0.1	0.1	Y18C033	100								

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by SY **Date:** 04/04/2019 09:09

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
1 1	mb	0.1000	g	04.04.2019 09:01:33	✓	0.0006	0.0000	0.0001	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
2 2	SEQ-CCV1	0.1000	g	04.04.2019 09:21:36	✓	0.0510	0.9540	9.5396	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
3 3	SEQ-CCB1	0.2500	g	04.04.2019 09:21:39	✓	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
4 4	BD90254-BLK1	0.2500	g	04.04.2019 09:32:11	✓	0.0003	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
5 5	BD90254-SRM1	0.1000	g	04.04.2019 09:32:15	✓	0.0427	0.7930	7.9295	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
6 6	19C1266-01	0.2500	g	04.04.2019 09:32:20	✓	0.0014	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
7 7	19C1266-02	0.2500	g	04.04.2019 09:32:26	✓	0.0006	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
8 8	19C1266-03	0.2500	g	04.04.2019 09:32:28	✓	0.0006	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
9 9	19C1266-04 19C1266-05 SY	0.2500	g	04.04.2019 09:32:31	✓	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
10 10	19C1295-04	0.2500	g	04.04.2019 09:32:33	✓	0.0008	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
11 11	BD90254-DUP1	0.2500	g	04.04.2019 09:32:37	✓	0.0005	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
12 12	BD90254-MS1	0.1250	g	04.04.2019 11:13:51	✓	0.0635	1.1981	9.5850	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
13 13	SEQ-CCV2	0.1000	g	04.04.2019 11:37:48	✓	0.0543	1.0190	10.1896	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
14 14	SEQ-CCB2	0.2500	g	04.04.2019 11:37:54	✓	0.0008	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
15 15	BD90278-BLK1	0.2500	g	04.04.2019 11:55:24	✓	0.0003	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
16 16	BD90278-SRM1	0.1000	g	04.04.2019 11:55:29	✓	0.0501	0.9363	9.3631	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
17 17	BD90278-LBK1	0.2500	g	04.04.2019 11:55:33	✓	0.0015	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
18 18	19D0027-01	0.2500	g	04.04.2019 11:55:37	✓	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
19 19	19D0086-01	0.2500	g	04.04.2019 11:55:42	✓	0.0011	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
20 20	19D0086-02	0.2500	g	04.04.2019 11:55:46	✓	0.0006	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
21 21	19D0086-03	0.2500	g	04.04.2019 11:55:50	✓	0.0009	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
22 22	19D0086-04	0.2500	g	04.04.2019 13:26:01	✓	0.0006	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
23 23	BD90278-DUP1	0.2500	g	04.04.2019 13:26:03	›	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
24 24	BD90278-MS1	0.1250	g	04.04.2019 13:47:06	›	0.0607	1.1436	9.1484	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
25 25	SEQ-CCV3	0.1000	g	04.04.2019 14:08:29	›	0.0493	0.9214	9.2136	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
26 26	SEQ-CCB3	0.2500	g	04.04.2019 14:08:31	›	0.0010	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
27 27	19D0058-01	0.2500	g	04.04.2019 14:18:10	›	0.0018	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
28 28	19D0107-01	0.2500	g	04.04.2019 14:18:13	›	0.0006	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
29 29	19D0147-01	0.2500	g	04.04.2019 14:18:16	›	0.0006	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
30 30	SEQ-CCV4	0.1000	g	04.04.2019 15:01:38	›	0.0535	1.0034	10.0339	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
31 31	SEQ-CCB4	0.2500	g	04.04.2019 15:01:40	›	0.0005	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013

Sample listing "QBHgDMA80-01 072018icalaq.d80"

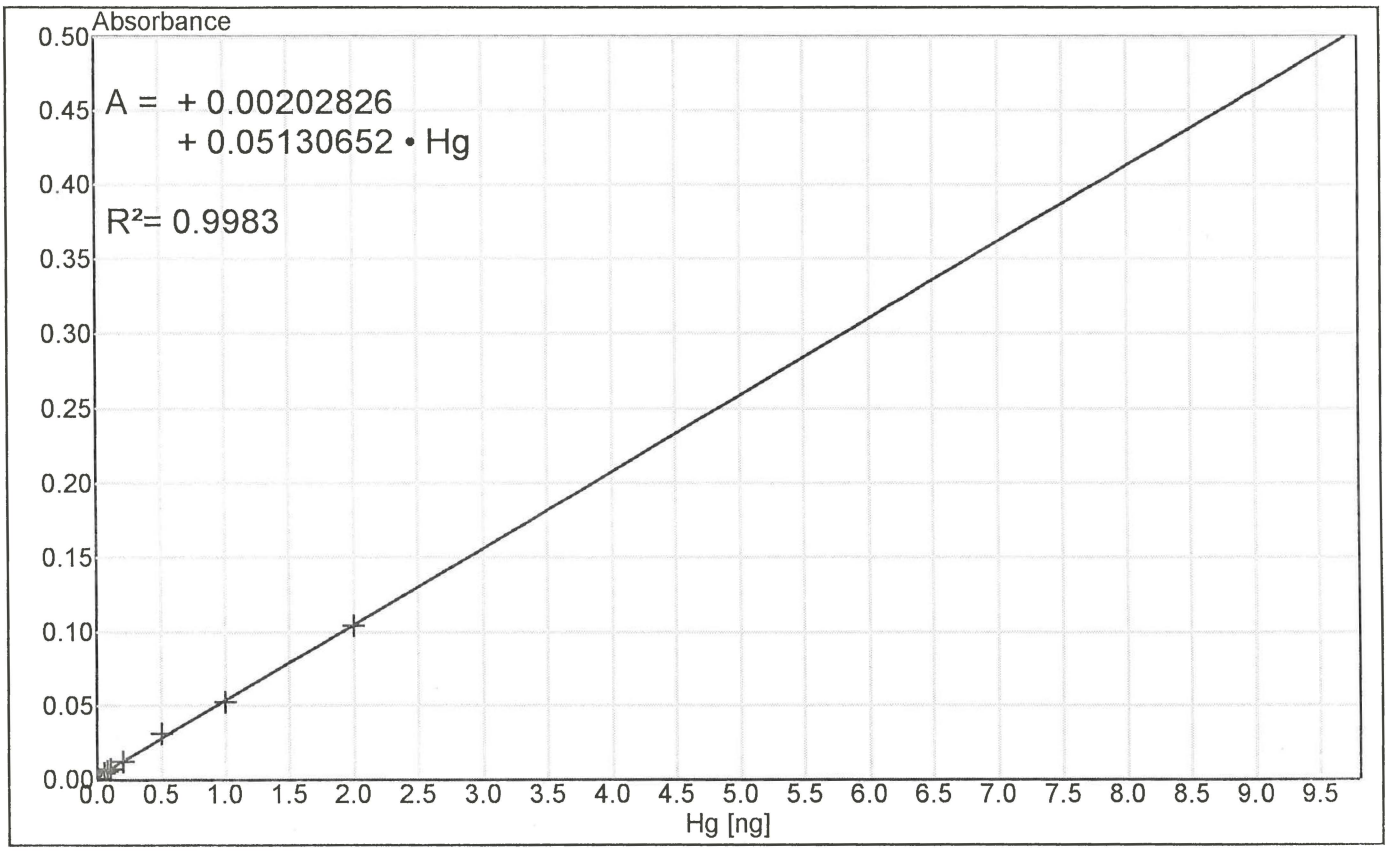
Created by "Service"
20.07.2018 13:19:37

Pos Nr.	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [µg/kg]	Σ	Cal- Factor
1 (1)	0 ng	0.1000 g 20.07.18 11:21	✔ C 20.07.18 11:30	0.0004	0.0000	0.0001		1.0000
2 (2)	0.05 ng	0.0500 g 20.07.18 11:23	✔ C 20.07.18 11:38	0.0043	0.0500	1.0000		1.0000
3 (3)	0.075 ng	0.0750 g 20.07.18 11:24	✔ C 20.07.18 11:49	0.0057	0.0750	1.0000		1.0000
4 (4)	0.100 ng	0.1000 g 20.07.18 11:24	✔ C 20.07.18 12:00	0.0072	0.1000	1.0000		1.0000
5 (5)	0.200 ng	0.2000 g 20.07.18 11:24	✔ C 20.07.18 12:12	0.0121	0.2000	1.0000		1.0000
6 (6)	0.500 ng	0.5000 g 20.07.18 11:25	✔ C 20.07.18 12:23	0.0311	0.5000	1.0000		1.0000
7 (7)	1.00 ng	0.1000 g 20.07.18 11:25	✔ C 20.07.18 12:34	0.0525	1.0000	10.0000		1.0000
8 (8)	2.00 ng	0.2000 g 20.07.18 11:25	✔ C 20.07.18 12:45	0.1042	2.0000	10.0000		1.0000
9 (9)	mb	0.2500 g 20.07.18 12:57	✔ 20.07.18 12:58	0.0008	0.0000	0.0000		1.0000
10 (10)	SEQ-ICV1	0.1000 g 20.07.18 13:09	✔ 20.07.18 13:10	0.0567	1.0647	10.6465		1.0000

Calibration data "DMA80_01_ICAL_LLAQ_ 072018 linear.c80"

Created by "" at 20.07.2018 13:59:30

Cell 0

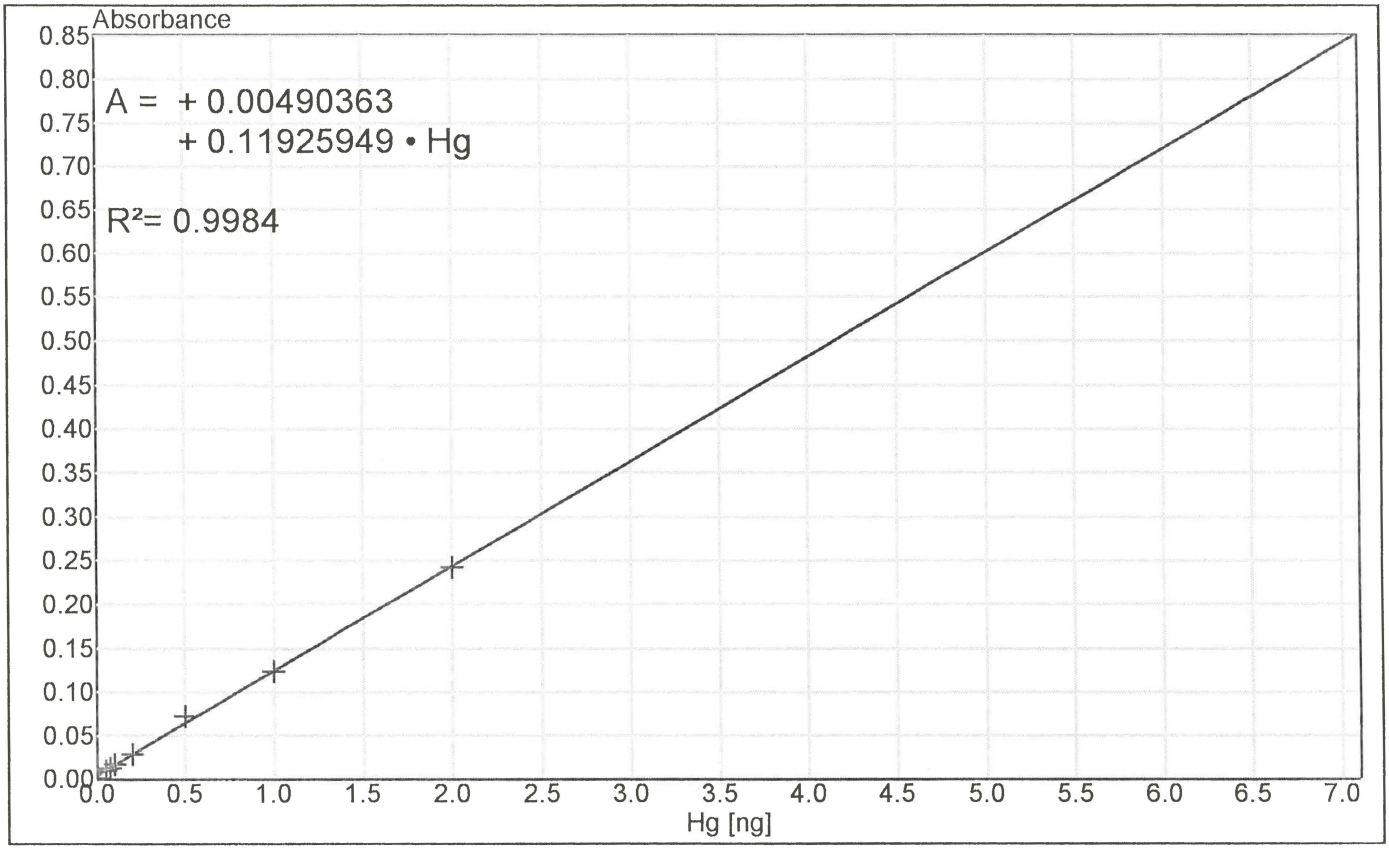


Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks
1	✓	0.0000	0.0004	-0.0016	20.07.2018 11:38:58	
2	✓	0.0500	0.0043	-0.0003	20.07.2018 11:49:57	
3	✓	0.0750	0.0057	-0.0002	20.07.2018 12:01:07	
4	✓	0.1000	0.0072	0.0001	20.07.2018 12:12:18	
5	✓	0.2000	0.0121	-0.0002	20.07.2018 12:23:29	
6	✓	0.5000	0.0311	0.0034	20.07.2018 12:34:43	
7	✓	1.0000	0.0525	-0.0008	20.07.2018 12:45:56	
8	✓	2.0000	0.1042	-0.0004	20.07.2018 12:57:07	

Calibration data "DMA80_01_ICAL_LLAQ_ 072018 linear.c80"

Created by "" at 20.07.2018 13:59:30

Cell 1



Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks
1	✓	0.0000	0.0008	-0.0041	20.07.2018 11:38:58	
2	✓	0.0500	0.0101	-0.0008	20.07.2018 11:49:57	
3	✓	0.0750	0.0130	-0.0008	20.07.2018 12:01:07	
4	✓	0.1000	0.0170	0.0002	20.07.2018 12:12:18	
5	✓	0.2000	0.0290	0.0002	20.07.2018 12:23:29	
6	✓	0.5000	0.0721	0.0076	20.07.2018 12:34:43	
7	✓	1.0000	0.1234	-0.0008	20.07.2018 12:45:56	
8	✓	2.0000	0.2419	-0.0015	20.07.2018 12:57:07	

INITIALCALIBRATION VERIFICATION (Hg)

Lab Name: York Analytical Laboratories, Inc.

I Cal Source: Inorganic Ventures

Sequence: QBHgDMA80-01 072018Aq ICAL.d80

C Cal Source: Inorganic Ventures

Concentration units: ug/L

Analyte	TRUE	ICV FOUND	%R(1)
Mercury	10.0000	10.6465	106.5

(1) Control Limits Hg 80-120 %

INITIAL CALIBRATION BLANK

Lab Name: York Analytical Laboratories, Inc

Preparation Blank Matrix: Aqueous

Prep Blank ID: N/A

Prep. Blank Conc. Units: ug/L

Sequence ID: QBHgDMA80-01 072018Aq ICAL.d80

Initial Calibration Blanks (ug/L)		
Analyte	ICB	C
Mercury	0.0001	U

Page 324 of 324

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

The Chazen Companies
21 Fox Street
Poughkeepsie, NY 12601
ATTN: Mr. Eric Orlowski
eorlowski@chazencompanies.com

May 7, 2019

SUBJECT: Former Utility Platers/Kingston Diagnostics, Data Usability Report

Dear Mr. Orlowski,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on April 15, 2019. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #44768:

SDG #	Fraction
19C1266	Volatiles, Metals

The data validation was performed under Category B guidelines using quality control summaries provided by the laboratory. The analyses were validated using the following documents, as applicable to each method:

- USEPA Region 2 Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry, SOP HW-24, Revision 4; October 2014
- USEPA Region 2 Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program, SOP HW-3a/c, Revision 1; September 2016
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA 540-R-2017-002; January 2017
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, EPA 540-R-2017-001; January 2017
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink

Christina Rink
crink@lab-data.com
Project Manager/Senior Chemist

EDD Category B

LDC#44768 (Chazen Companies, Poughkeepsie, NY / Former Utility Platers/Kingston Diagnostics)

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (8260C)		Metals (6010D /7473)																															
Matrix:	Air/Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	19C1266	04/15/19	05/06/19	6	0	4	0																														
Total	J/CR			6	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

Shaded cells indicate Category B validation (all other cells are Category A validation). These sample counts do not include MS/MSD, and DUPs

Site: Former Utility Platers/Kingston Diagnostics
Laboratory: York Analytical Laboratories, Inc.
Report No.: 19C1266
Reviewer: Felomina Tanguilig and Christina Rink/Laboratory Data Consultants for Chazen Companies – Troy, NY
Date: May 6, 2019

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
KC-MW-01 0319	19C1266-01	VOC
KC-MW-02 0319	19C1266-02	VOC
KC-MW-05 0319	19C1266-03	VOC
KC-MW-07 0319	19C1266-04	VOC
KC-MW-DUP 0319	19C1266-05	VOC
TRIP BLANK 0319	19C1266-06	VOC

Associated QC Samples(s):
Field/Trip Blanks: TRIP BLANK 0319
Field Duplicate pair: KC-MW-01 0319 and KC-MW-DUP 0319

The above-listed water samples were collected on March 28, 2019 and were analyzed for volatile organic compounds (VOCs) by SW-846 method 8260C. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry,* SOP HW-24, Revision 4 (October 2014) and the USEPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review,* EPA 540-R-2017-002 (January 2017), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

Initial Calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Instrument ID	Compound	RRF (Limits)	Associated Samples		Validation Action
03/15/19	ICAL-6	1,4-Dioxane	0.00177515 (≥0.005)	KC-MW-01 0319 KC-MW-02 0319 KC-MW-05 0319 KC-MW-07 0319 KC-MW-DUP 0319 TRIP BLANK 0319	+	UJ nondetects

Date	Instrument ID	Compound	ICV %D	Associated Samples		Validation Action
03/15/19	ICV-6	1,4-Dioxane	76	KC-MW-01 0319 KC-MW-02 0319 KC-MW-05 0319 KC-MW-07 0319 KC-MW-DUP 0319 TRIP BLANK 0319	SS	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,4-dioxane were estimated due to response factor and second source calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Instrument ID	Compound	CC %D	Associated Samples		Validation Action
04/03/19	CCV6	1,4-Dioxane	112	KC-MW-01 0319	XX	UJ nondetects
		Acrolein	33.1	KC-MW-02 0319	XX	UJ nondetects
		Bromoform	31.5	KC-MW-05 0319	XX	UJ nondetects
		Bromomethane	33.7	KC-MW-07 0319	XX	UJ nondetects
		Hexachlorobutadiene	31.2	KC-MW-DUP 0319	XX	UJ nondetects
		n-Butylbenzene	20.9	TRIP BLANK 0319	XX	UJ nondetects

Date	Instrument ID	Compound	RRF (Limits)	Associated Samples		Validation Action
04/03/19	CCV6	1,4-Dioxane	0.003769069 (≥0.005)	KC-MW-01 0319 KC-MW-02 0319 KC-MW-05 0319 KC-MW-07 0319 KC-MW-DUP 0319 TRIP BLANK 0319	+	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,4-dioxane, acrolein, bromoform, bromomethane, hexachlorobutadiene, and n-butylbenzene results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

The 1,4-dioxane results were estimated due to response factor exceedance. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Blanks

Contamination was not detected in the method blanks.

Contamination was detected in the trip blank sample TRIP BLANK 0319 for VOC analysis. The presence of blank contamination indicates that false positives may exist for these compounds in the associated samples. Action Levels (ALs) were established at <2x reporting limits (RL) (for common contaminants) and <RL (for other contaminants) of the concentrations detected. The following table summarizes the contamination detected.

Field Blank ID	Compound	Level Detected	Action Level	Associated Samples
TRIP BLANK 0319	cis-1,2-Dichloroethene Trichloroethene	0.81 ug/L 1.9 ug/L	RL RL	KC-MW-01 0319 KC-MW-02 0319 KC-MW-05 0319 KC-MW-07 0319 KC-MW-DUP 0319

Sample results were qualified as follows:

- If sample concentration was < the reporting limit (RL) and ≤ the Action Level, qualify the result as a nondetect (U) at the RL.
- If sample concentration was > the RL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.

No samples were qualified since the associated sample results were greater than the action level.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

MS/MSD analyses were not associated with this samples set. Validation action was not required on this basis.

LCS Results

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the pesticide analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
BD90225-LCS/D	Bromoform Tetrachloroethene	64.5 (78-133) 71.0 (82-131)	66.3 (78-133) 77.0 (82-131)	KC-MW-01 0319 KC-MW-02 0319 KC-MW-05 0319 KC-MW-07 0319 KC-MW-DUP 0319 TRIP BLANK 0319	J detects/UJ nondetects J detects/UJ nondetects

- Within control limits

The bromoform and tetrachloroethene results may be biased low due to low LCS/LCSD percent recoveries. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples KC-MW-01 0319 and KC-MW-DUP 0319 were submitted as the field duplicate pairs with this sample group. The following table summarizes the concentrations.

Compound	Concentration (ug/L)		RPD
	KC-MW-01 0319	KC-MW-DUP 0319	
1,1,1-Trichloroethane	2.8	2.7	4
1,1-Dichloroethane	1.6	1.6	0
1,1-Dichloroethene	4.3	4.1	5
Acetone	1.1	1.9	53
Chloroform	0.28	0.27	4
Tetrachloroethene	0.35	2.8	22
trans-1,2-Dichloroethene	40	36	11
Vinyl chloride	150	140	7
cis-1,2-Dichloroethene	880	920	4
Trichloroethene	1330	1300	0

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC analysis. These results were qualified as estimated (J) by the laboratory.

Due to high target compound levels or difficult sample matrix, select samples were analyzed at dilutions. The following table lists the sample dilutions which were performed and the results reported. RLs were elevated accordingly.

Sample	VOC Analysis Reported
KC-MW-01 0319 KC-MW-DUP 0319	20-fold dilution due to high analyte levels for cis-1,2-dichloroethene and trichloroethene

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

LDC #: 44768A1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 19C1266

Category B

Laboratory: York Analytical Laboratories, Inc.

Date: 5/6/19

Page: 1 of 1

Reviewer: EJ

2nd Reviewer:

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	SW SW	%D ≤ 20, r ICV ≤ 30
IV.	Continuing calibration	SW	CCV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	SW	TB= 6
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	SW	LCS/LCSD
X.	Field duplicates	SW	D= 1,5
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Results < RL > MDL = J det
XIII.	Target compound identification	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

		Client ID		Lab ID	Matrix	Date
1	1	KC-MW-01 0319	3 = 6QQ,S 6QQ,S = 20X	19C1266-01	Water	03/28/19
2	1	KC-MW-02 0319		19C1266-02	Water	03/28/19
3	1	KC-MW-05 0319		19C1266-03	Water	03/28/19
4	1	KC-MW-07 0319		19C1266-04	Water	03/28/19
5	1	KC-MW-DUP 0319	2 = 6QQ,S 6QQ,S = 20X	19C1266-05	Water	03/28/19
6	1	TRIP BLANK 0319		19C1266-06	Water	03/28/19
7						
8						

Notes:

1	BD90225-BLK1						
2	BD90281-BLK1						
3							

LDC #: 44768A1a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Method: Volatiles (EPA SW 846 Method 8260C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% and relative response factors (RRF) within method criteria?	✓	✓		
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 30%?		✓		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target compounds detected in the field blanks?	✓			
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	

LDC #: 44768 A1a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed per analytical batch in this SDG?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	✓			
Were target compounds detected in the field duplicates?	✓			
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?				
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC #: 44768A/a

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?________
Y N N/A Did the initial calibration meet the acceptance criteria?
Y N N/A Were all %RSDs and RRFs within the validation criteria of ≤20 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: 20%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	3/15/19	ICAL - 6	HHHH		0.00177515 (≥0.005)	All	J/UJ/A ND

INICAL.wpd

LDC #: 44768A1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?

Y N N/A Were all %D within the validation criteria of ≤30 %D?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30.0%)	Associated Samples	Qualifications
	3/15/19 1039	ICV-6	HHHH	76	all	J/UJ/A ND

ICVvoa.wpd

LDC #: 44768A1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤20 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	4/3/19	CCV-6	HHHH		0.003769069 (≥0.005)	All	J/UJ/A all ND
	2309		HHHH	112			
			FFFF	33.1			
			X	31.5			
			B	33.7			
			LLL	31.2			
			III	20.9			

CONCAL.wpd

LDC #: 44768A1a

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L
Sampling date:
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: TB Associated Samples: 1-5 (7 RL)

	Compound	Blank ID	Sample Identification								
		6									
7	RRR	0.81									
7	S	1.9									

Blank units: **Associated sample units:**
Sampling date:
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: Associated Samples:

Compound	Blank ID	Sample Identification								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 44768A/a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

[✓ Y] N N/A Was a LCS required?

Y [✓ N] N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	BD90225-LCS/D	X	64.5 (78-133)	66.3 (78-133)	( )	All	J/UJ/P ND+Det
		AA	71.0 (82-131)	77.0 (82-131)	( )	↓	↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 44768A1a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: GC/MS VOA (EPA Method 8260C)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD (≤ %)	QUAL
	1	5		
N	2.8	2.7	4	
I	1.6	1.6	0	
H	4.3	4.1	5	
F	1.1	1.9	53	
K	0.28	0.27	4	
AA	0.35	0.28	22	
PPP	40	36	11	
C	150	140	7	
QQQ	880	920	4	
S	1300	1300	0	

Compound	Concentration ( )		RPD (≤ %)	QUAL

LDC #: 44768A/2

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GCMS 8260C

The calibration factors (RRFF), average RRFF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

RRF = (Ax)(Cis)/(Ais)(Cx)
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

Where:
Ax = Area of compound
Cx = Concentration of compound
S = Standard deviation of the RRFs
X = Mean of the RRFs
Ais = Area of associated internal standard
Cis = Concentration of internal Standard

#	Standard ID	Calibration Date	Compound	Reported (RRF 10 PPBstd)	Recalculated (RRF 10 PPBstd)	Reported AverageRRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL	3/15/2019	QQQ	1.2408550	1.2408550	1.2021520	1.2021520	6.529515	6.529515
	VOA6		AAA	0.1796753	0.1796753	0.2527395	0.2527395	10.997410	10.997410
			JJJ	0.9362945	0.9362945	0.9380641	0.9380641	11.296030	11.296030

LDC #: 44768A1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV 2309	4/3/19	QQQ (1st internal standard)	1.2021520	1.237786	1.237786	3.0	3.0
			AA (2nd internal standard)	0.2527395	0.2117635	0.2117635	16.2	16.2
			JJJ (3rd internal standard)	0.938064	0.99997302	0.99997302	6.6	6.6
			(4th internal standard)					
2	CCV 1426	4/5/19	(1st internal standard)		1.154077	1.154077	4.0	4.0
			(2nd internal standard)		0.2113347	0.2113347	16.4	16.4
			(3rd internal standard)		0.9874853	0.9874853	5.3	5.3
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 44768A1a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4	10.0	10.6	106	106	0
Toluene-d8	↓	10.4	104	104	↓
Bromofluorobenzene		11.4	114	114	

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 44768A/2

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA Method 8260C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration; SA = Spike added

RPD = I LCSC - LCSDC I * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: BD90225 lcs ID

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	10.0	10.0	9.6	10	96.1	96.1	102	102	6.15	6.15
Trichloroethene			9.1	9.9	91.2	91.2	98.6	98.6	7.80	7.80
Benzene			9.6	10	95.6	95.6	102	102	6.28	6.28
Toluene			9.5	10	95.1	95.1	100	100	5.42	5.12
Chlorobenzene	↓	↓	9.2	9.8	92.0	92.0	97.8	97.8	6.11	6.11

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 44768A1a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1 , QQQ

Conc. = $\frac{1023593 \quad (10.0)\ (20)}{194203\ (1.202152)}$

= 876 ug/L

#	Sample ID	Compound	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Qualification
	#1	QQQ	880	876	

Site: Former Utility Platers/Kingston Diagnostics
Laboratory: York Analytical Laboratories, Inc.
Report No.: 19C1266
Reviewer: Christina Rink/Laboratory Data Consultants for Chazen Companies – Poughkeepsie, NY
Date: April 17, 2019

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
KC-MW-01 0319	19C1266-01	Metals
KC-MW-02 0319	19C1266-02	Metals
KC-MW-05 0319	19C1266-03	Metals
KC-MW-DUP 0319	19C1266-05	Metals
KC-MW-01 0319MS	19C1266-01MS	Metals
KC-MW-01 0319DUP	19C1266-01DUP	Metals

Associated QC Samples(s):
Field/Trip Blanks: None Associated
Field Duplicate pair: KC-MW-01 0319 and KC-MW-DUP 0319

The above-listed water samples were collected on March 28, 2019 and were analyzed for metals by SW-846 methods 6010D/7473. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program,* SOP HW-3a/c, Revision 1 (September 2016) and the USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review,* EPA 540-R-2017-001 (January 2017), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- Instrument Calibration
- Contract Required Quantitation Limit (CRQL) Standard Recoveries
- Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
- Matrix Spike (MS) Results
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS) Results
- Field Duplicate Results
- Serial Dilution Results
- Detection Limits Results
- Sample Quantitation Results

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

Analytes that did not meet criteria are summarized in the following table.

Date	Calibration ID	Analyte	%R (Limits)	Associated Samples	Validation Action
04/03/19	ICV (10:43)	Selenium	113 (90-110)	KC-MW-01 0319 KC-MW-02 0319 KC-MW-05 0319 KC-MW-DUP 0319	J detects

The selenium results may be biased high due to high calibration percent recovery. The results can be used for project objectives as estimated values (J) which may have a minor impact on the data usability.

CRQL Standard Recoveries

Analytes that did not meet criteria are summarized in the following table.

Date	Calibration ID	Analyte	%R (Limits)	Associated Samples	Validation Action
04/03/19	CRDL (10:48)	Arsenic Beryllium	139 (70-130) 146 (70-130)	KC-MW-01 0319 KC-MW-02 0319 KC-MW-05 0319 KC-MW-DUP 0319	None
04/03/19	CRDL (10:48)	Lead	68.7 (70-130)	KC-MW-01 0319 KC-MW-02 0319 KC-MW-05 0319 KC-MW-DUP 0319	UJ nondetects
04/03/19	CRDL (10:48)	Selenium	63.5 (70-130)	KC-MW-02 0319	J detects
04/03/19	CRDL (10:48)	Zinc	206 (70-130)	KC-MW-02 0319 KC-MW-05 0319	None

Validation action was not required for arsenic, beryllium, and zinc due to high CRQL percent recoveries as positive results only are affected and these analytes were not detected in the associated samples.

The lead and selenium results for the samples listed above may be biased low due to low CRQL percent recoveries. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Blank Results

Analytes were detected below the reporting limits in the laboratory blank samples. The following table summarizes the contamination and validation actions taken.

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
ICB/CCB	Beryllium	0.0006 mg/L	0.006 mg/L	KC-MW-01 0319 KC-MW-02 0319 KC-MW-05 0319 KC-MW-DUP 0319

Blank Actions for analytes detected below the reporting limit(RL).
If the sample result is < RL, report the result as nondetect (U) at the RL.
If the sample result is > RL or nondetect, no action is required.
Blank Actions for analytes detected above the reporting limit or RL.
If the sample result is < RL and <action level; report the result as nondetect (U) at the RL.
If the sample result is > RL and < action level; report the result as nondetect (U) at the reported value.
If the sample result is > action level or nondetect, no action is required.

No samples were qualified since the associated sample results were nondetect.

A field blank was not associated with this sample set. Validation action was not required on this basis.

ICP ICS Results

Analytes were within control limits in the ICSA and ICSAB analyses.

MS Results

MS analyses were performed on sample KC-MW-01 0319 for metals analyses. All criteria were met.

Laboratory Duplicate Results

Laboratory duplicates were performed on sample KC-MW-01 0319 for metals analyses. All criteria were met.

Field Duplicate Results

Samples KC-MW-01 0319 and KC-MW-DUP 0319 were submitted as the field duplicate pair with this sample group. The following table summarizes the concentrations.

Analyte	Concentration (mg/L)		RPD
	KC-MW-01 0319	KC-MW-DUP 0319	
Cadmium	0.060	0.059	2
Chromium	0.138	0.139	1
Nickel	0.145	0.139	4
Selenium	0.085	0.094	10
Zinc	0.138	0.129	7

LCS Results

All criteria were met.

Serial Dilution Results

A serial dilution analysis was performed on sample KC-MW-01 0319 for metals analyses. The following table lists the serial dilution percent differences (%D) outside of control limits in the metals analyses and the resulting validation actions.

Diluted Sample	Analyte	%D (Limits)	Associated Samples	Validation Actions
KC-MW-01 0319	Cadmium	34.3 (≤10)	KC-MW-01 0319	J detects/UJ nondetects
	Chromium	29.5 (≤10)	KC-MW-02 0319	J detects/UJ nondetects
	Nickel	46.1 (≤10)	KC-MW-05 0319	J detects/UJ nondetects
			KC-MW-DUP 0319	

The cadmium, chromium, and nickel results were estimated due to serial dilution percent difference exceedances. The bias cannot be determined. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Detection Limits Results

No results were reported below the reporting limit (RL) and above the method detection limit (MDL) in the metals analyses.

Dilutions were not required for metals analyses.

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

LDC #: 44768A4b

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 4/15/19

SDG #: 19C1266

Page: 1 of 1

Laboratory: York Analytical Laboratories, Inc.

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: Metals (EPA SW 846 Method 6010D/7473)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Instrument Calibration	SW	
III.	ICP Interference Check Sample (ICS) Analysis	A	
IV.	Laboratory Blanks	SW	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	A	
VII.	Duplicate sample analysis	A	
VIII.	Serial Dilution	SW	
IX.	Laboratory control samples	A	LCS (1,4)
X.	Field Duplicates	SW	
XI.	Sample Result Verification	A	no CRL
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	KC-MW-01 0319	19C1266-01	Water	03/28/19
2	KC-MW-02 0319	19C1266-02	Water	03/28/19
3	KC-MW-05 0319	19C1266-03	Water	03/28/19
4	KC-MW-DUP 0319	19C1266-05	Water	03/28/19
5	KC-MW-01 0319MS	19C1266-01MS	Water	03/28/19
6	KC-MW-01 0319DUP	19C1266-01DUP	Water	03/28/19
7				
8				
9				
10				
11				
12				
13				
14				

Notes:

LDC #: 44768A4b

VALIDATION FINDINGS CHECKLIST

Reviewer: [illegible]
2nd Reviewer: KK

Method: Metals (EPA SW 846 Method 6010/6020/7000)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?			✓	
Were %RSD of isotopes in the tuning solution ≤5%?			✓	
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?		✓		
Were the low standard checks within 70-130%		✓		
Were all initial calibration correlation coefficients within limits as specified by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.	✓			
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?			✓	
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?	✓			
Were all percent differences (%Ds) < 10%?		✓		
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
X. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XII. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XIII. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 44768A4b

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: CR
2nd reviewer: kw

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-4		Al, [✓ Sb], [✓ As], Ba, [✓ Be], [✓ Cd], Ca, [✓ Cr], Co, [✓ Cu], Fe, [✓ Pb], Mg, Mn, [✓ Hg], [✓ Ni], K, [✓ Se], [✓ Ag], Na, [✓ Tl], V, [✓ Zn], Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
Q1-S6		Al, [✓ Sb], [✓ As], Ba, [✓ Be], [✓ Cd], Ca, [✓ Cr], Co, [✓ Cu], Fe, [✓ Pb], Mg, Mn, Hg, [✓ Ni], K, [✓ Se], [✓ Ag], Na, [✓ Tl], V, [✓ Zn], Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___

Analysis Method

ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti

Comments: Mercury by CVAA if performed

LDC #: 44768A4b

VALIDATION FINDINGS WORKSHEET
Calibration

Page: 1 of 1
Reviewer: C
2nd Reviewer: RK

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all instruments calibrated daily, each set-up time, and were the proper number of standards used?
Y N N/A Were all initial and continuing calibration verification percent recoveries (%R) within the control limits of 90-110% for all analytes except mercury (80-120%)?

LEVEL IV ONLY:

Y N N/A Was a midrange cyanide standard distilled?
Y N N/A Are all correlation coefficients ≥0.995?
Y N N/A Were recalculated results acceptable? See Level IV Initial and Continuing Calibration Recalculation Worksheet for recalculations.

#	Date	Calibration ID	Analyte	%R	Associated Samples	Qualification of Data
	4/3/19	ICV (10:43)	Se	113 (90-110)	All	Jdet IP (Det)
	4/3/19	CRDL (10:48)	As	139 (70-130)	All (ND)	Jdet IP
			Be	146		↓
			Pb	68.7	↓	J IUJ IP
			Se	63.5	2 (Det)	J IUJ IP
			Zn	206 ↓	2,3 (ND)	Jdet IP

Comments:

LDC #: 44768A4b

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer:
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied:____

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: All

				Sample Identification										
Analyte	**Maximum PB[a] (mg/Kg)**	**Maximum ICB/CCB[a] (mg/L)**	**Action Level**	**No qualifiers (ND)**										
Be		0.0006	0.006											

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 44768A4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: A
2nd Reviewer: VER

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP (Initial calibration)	Se	0.2818	~~0.282~~ 0.285	113	~~0~~ 113	Y
	ICP/MS (Initial calibration)						
ICV	CVAA (Initial calibration)	Hg	10.665	10	106.5	106.5	Y
CCV1	ICP (Continuing calibration)	Tl	0.5062	0.500	101	101	Y
	ICP/MS (Continuing calibration)						
CCV1	CVAA (Continuing calibration)	Hg	0.0954	0.01	95.4	95.4	Y

Comments:

LDC #: 44768A4b

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Ni	1.057	1.00	106	106	Y
LCS	Laboratory control sample	As	2.127	2.22	95.8	95.7	
5	Matrix spike	Sb	(SSR-SR) 0.308	0.278	111	111	
6	Duplicate	Zn	0.138	0.131	5.21	5.21	
1	ICP serial dilution	Cd	0.06044	0.0811	34.2	34.3	

Comments: _____

LDC #: 44768A4b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: C
2nd reviewer: MC

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Ni were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{0.1304\ mg/L\ (50mL)}{45mL} = 0.1449\ mg/L$$

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
	1	Ni	0.145	0.145	Y
	2	Se	0.037	0.037	"
	3	Se	0.102	0.102	"
	4	Zn	0.129	0.129	"

Note:

Former Utility Platers/Kingston Diagnostics - LDC# 44768

SDG: 19C1266

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-01 0319_20190328	19C1266-01	SILVER	4/3/2019		Y	N	U		U	0.006	0.006	
KC-MW-01 0319_20190328	19C1266-01	THALLIUM	4/3/2019		Y	N	U		U	0.028	0.028	
KC-MW-01 0319_20190328	19C1266-01	ANTIMONY	4/3/2019		Y	N	U		U	0.028	0.028	
KC-MW-01 0319_20190328	19C1266-01	ARSENIC	4/3/2019		Y	N	U		U	0.017	0.017	
KC-MW-01 0319_20190328	19C1266-01	BERYLLIUM	4/3/2019		Y	N	U		U	0.0006	0.0006	
KC-MW-01 0319_20190328	19C1266-01	SELENIUM	4/3/2019	0.085	Y	Y		J	J	0.028	0.028	mg/l
KC-MW-01 0319_20190328	19C1266-01	ZINC	4/3/2019	0.138	Y	Y				0.028	0.028	mg/l
KC-MW-01 0319_20190328	19C1266-01	CHROMIUM, TOTAL	4/3/2019	0.138	Y	Y		J	J	0.006	0.006	mg/l
KC-MW-01 0319_20190328	19C1266-01	CADMIUM	4/3/2019	0.060	Y	Y		J	J	0.003	0.003	mg/l
KC-MW-01 0319_20190328	19C1266-01	NICKEL	4/3/2019	0.145	Y	Y		J	J	0.011	0.011	mg/l
KC-MW-01 0319_20190328	19C1266-01	COPPER	4/3/2019		Y	N	U		U	0.022	0.022	
KC-MW-01 0319_20190328	19C1266-01	LEAD	4/3/2019		Y	N	U	UJ	UJ	0.006	0.006	
KC-MW-02 0319_20190328	19C1266-02	ARSENIC	4/3/2019		Y	N	U		U	0.017	0.017	
KC-MW-02 0319_20190328	19C1266-02	COPPER	4/3/2019		Y	N	U		U	0.022	0.022	
KC-MW-02 0319_20190328	19C1266-02	CHROMIUM, TOTAL	4/3/2019		Y	N	U	UJ	UJ	0.006	0.006	
KC-MW-02 0319_20190328	19C1266-02	CADMIUM	4/3/2019		Y	N	U	UJ	UJ	0.003	0.003	
KC-MW-02 0319_20190328	19C1266-02	BERYLLIUM	4/3/2019		Y	N	U		U	0.0006	0.0006	
KC-MW-02 0319_20190328	19C1266-02	ZINC	4/3/2019		Y	N	U		U	0.028	0.028	
KC-MW-02 0319_20190328	19C1266-02	ANTIMONY	4/3/2019		Y	N	U		U	0.028	0.028	
KC-MW-02 0319_20190328	19C1266-02	THALLIUM	4/3/2019		Y	N	U		U	0.028	0.028	
KC-MW-02 0319_20190328	19C1266-02	SILVER	4/3/2019		Y	N	U		U	0.006	0.006	
KC-MW-02 0319_20190328	19C1266-02	NICKEL	4/3/2019		Y	N	U	UJ	UJ	0.011	0.011	
KC-MW-02 0319_20190328	19C1266-02	LEAD	4/3/2019		Y	N	U	UJ	UJ	0.006	0.006	

SDG: 19C1266

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-02 0319_20190328	19C1266-02	SELENIUM	4/3/2019	0.037	Y	Y		J	J	0.028	0.028	mg/l
KC-MW-05 0319_20190328	19C1266-03	LEAD	4/3/2019		Y	N	U	UJ	UJ	0.006	0.006	
KC-MW-05 0319_20190328	19C1266-03	COPPER	4/3/2019		Y	N	U		U	0.022	0.022	
KC-MW-05 0319_20190328	19C1266-03	CHROMIUM, TOTAL	4/3/2019		Y	N	U	UJ	UJ	0.006	0.006	
KC-MW-05 0319_20190328	19C1266-03	CADMIUM	4/3/2019		Y	N	U	UJ	UJ	0.003	0.003	
KC-MW-05 0319_20190328	19C1266-03	BERYLLIUM	4/3/2019		Y	N	U		U	0.0006	0.0006	
KC-MW-05 0319_20190328	19C1266-03	ARSENIC	4/3/2019		Y	N	U		U	0.017	0.017	
KC-MW-05 0319_20190328	19C1266-03	ANTIMONY	4/3/2019		Y	N	U		U	0.028	0.028	
KC-MW-05 0319_20190328	19C1266-03	THALLIUM	4/3/2019		Y	N	U		U	0.028	0.028	
KC-MW-05 0319_20190328	19C1266-03	SELENIUM	4/3/2019	0.102	Y	Y		J	J	0.028	0.028	mg/l
KC-MW-05 0319_20190328	19C1266-03	SILVER	4/3/2019		Y	N	U		U	0.006	0.006	
KC-MW-05 0319_20190328	19C1266-03	NICKEL	4/3/2019		Y	N	U	UJ	UJ	0.011	0.011	
KC-MW-05 0319_20190328	19C1266-03	ZINC	4/3/2019		Y	N	U		U	0.028	0.028	
KC-MW-DUP 0319_20190328	19C1266-05	CADMIUM	4/3/2019	0.059	Y	Y		J	J	0.003	0.003	mg/l
KC-MW-DUP 0319_20190328	19C1266-05	SELENIUM	4/3/2019	0.094	Y	Y		J	J	0.028	0.028	mg/l
KC-MW-DUP 0319_20190328	19C1266-05	NICKEL	4/3/2019	0.139	Y	Y		J	J	0.011	0.011	mg/l
KC-MW-DUP 0319_20190328	19C1266-05	COPPER	4/3/2019		Y	N	U		U	0.022	0.022	
KC-MW-DUP 0319_20190328	19C1266-05	BERYLLIUM	4/3/2019		Y	N	U		U	0.0006	0.0006	
KC-MW-DUP 0319_20190328	19C1266-05	ARSENIC	4/3/2019		Y	N	U		U	0.017	0.017	
KC-MW-DUP 0319_20190328	19C1266-05	ANTIMONY	4/3/2019		Y	N	U		U	0.028	0.028	
KC-MW-DUP 0319_20190328	19C1266-05	THALLIUM	4/3/2019		Y	N	U		U	0.028	0.028	
KC-MW-DUP 0319_20190328	19C1266-05	SILVER	4/3/2019		Y	N	U		U	0.006	0.006	
KC-MW-DUP 0319_20190328	19C1266-05	LEAD	4/3/2019		Y	N	U	UJ	UJ	0.006	0.006	
KC-MW-DUP 0319_20190328	19C1266-05	ZINC	4/3/2019	0.129	Y	Y				0.028	0.028	mg/l
KC-MW-DUP 0319_20190328	19C1266-05	CHROMIUM, TOTAL	4/3/2019	0.139	Y	Y		J	J	0.006	0.006	mg/l

SDG: 19C1266

Analytical Method SW7473

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-01 0319_20190328	19C1266-01	MERCURY	4/4/2019		Y	N	U		U	0.0002	0.0002	
KC-MW-02 0319_20190328	19C1266-02	MERCURY	4/4/2019		Y	N	U		U	0.0002	0.0002	
KC-MW-05 0319_20190328	19C1266-03	MERCURY	4/4/2019		Y	N	U		U	0.0002	0.0002	
KC-MW-DUP 0319_20190328	19C1266-05	MERCURY	4/4/2019		Y	N	U		U	0.0002	0.0002	

Analytical Method SW8260B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-01 0319_20190328	19C1266-01	METHYLCYCLOHEXANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	TOLUENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	CHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	TRANS-1,4-DICHLORO-2-BUTENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	CYCLOHEXANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,2,4-TRICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	SEC-BUTYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	ACRYLONITRILE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	M-P-XYLENE	4/4/2019		Y	N	U		U	0.5	0.5	
KC-MW-01 0319_20190328	19C1266-01	TERT-BUTYL METHYL ETHER	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,3-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	CARBON TETRACHLORIDE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	2-HEXANONE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,1,1,2-TETRACHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	DIBROMOCHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	TRANS-1,3-DICHLOROPROPENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	HEXACHLOROBUTADIENE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	CHLOROFORM	4/4/2019	0.28	Y	Y	J		J	0.2	0.2	ug/l

Analytical Method SW8260B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-01 0319_20190328	19C1266-01	1,1,2-TRICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	ACETONE	4/4/2019	1.1	Y	Y	J		J	1	1	ug/l
KC-MW-01 0319_20190328	19C1266-01	TETRACHLOROETHYLENE(PCE)	4/4/2019	0.35	Y	Y	J		J	0.2	0.2	ug/l
KC-MW-01 0319_20190328	19C1266-01	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	CIS-1,3-DICHLOROPROPENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	N-PROPYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,4-DIOXANE (P-DIOXANE)	4/4/2019		Y	N	U	UJ	UJ	40	40	
KC-MW-01 0319_20190328	19C1266-01	1,4-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,2-DICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	DIBROMOMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	ETHYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,2,4-TRIMETHYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,1-DICHLOROETHANE	4/4/2019	1.6	Y	Y				0.2	0.2	ug/l
KC-MW-01 0319_20190328	19C1266-01	1,1-DICHLOROETHENE	4/4/2019	4.3	Y	Y				0.2	0.2	ug/l
KC-MW-01 0319_20190328	19C1266-01	XYLENES, TOTAL	4/4/2019		Y	N	U		U	0.6	0.6	
KC-MW-01 0319_20190328	19C1266-01	P-CYMENE (P-ISOPROPYLTOLUENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	ISOPROPYLBENZENE (CUMENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	T-BUTYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	BENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,2-DIBROMO-3-CHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	TRANS-1,2-DICHLOROETHENE	4/4/2019	40	Y	Y				0.2	0.2	ug/l

SDG: 19C1266

Analytical Method SW8260B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-01 0319_20190328	19C1266-01	1,2-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	O-XYLENE (1,2-DIMETHYLBENZENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	METHYL ETHYL KETONE (2-BUTANONE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,2,3-TRICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,1,2,2-TETRACHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	METHYL ACETATE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,2,3-TRICHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	DICHLORODIFLUOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	STYRENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	BROMOCHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	CHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	METHYLENE CHLORIDE	4/4/2019		Y	N	U		U	1	1	
KC-MW-01 0319_20190328	19C1266-01	CARBON DISULFIDE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	BROMODICHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	VINYL CHLORIDE	4/4/2019	150	Y	Y				0.2	0.2	ug/l
KC-MW-01 0319_20190328	19C1266-01	TRICHLOROFLUOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,1,1-Trichloroethane (TCA)	4/4/2019	2.8	Y	Y				0.2	0.2	ug/l
KC-MW-01 0319_20190328	19C1266-01	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	1,2-DICHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	BROMOFORM	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	BROMOMETHANE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	ACROLEIN	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	N-BUTYLBENZENE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-01 0319_20190328	19C1266-01	CHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	

SDG: 19C1266

Analytical Method SW8260B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-01 0319_20190328	19C1266-01	TERT-BUTYL ALCOHOL	4/4/2019		Y	N	U		U	0.5	0.5	
KC-MW-01 0319_20190328	19C1266-01R	CIS-1,2-DICHLOROETHYLENE	4/5/2019	880	Y	Y	D			4	4	ug/l
KC-MW-01 0319_20190328	19C1266-01R	TRICHLOROETHYLENE (TCE)	4/5/2019	1300	Y	Y	D	J	J	4	4	ug/l
KC-MW-02 0319_20190328	19C1266-02	DIBROMOMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	TOLUENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	METHYLCYCLOHEXANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	ACRYLONITRILE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,2-DICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	N-PROPYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	TRANS-1,3-DICHLOROPROPENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	ETHYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	STYRENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	CHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	TRICHLOROETHYLENE (TCE)	4/4/2019	2.2	Y	Y		J	J	0.2	0.2	ug/l
KC-MW-02 0319_20190328	19C1266-02	BROMOCHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	CHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	VINYL CHLORIDE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	METHYLENE CHLORIDE	4/4/2019		Y	N	U		U	1	1	
KC-MW-02 0319_20190328	19C1266-02	CARBON DISULFIDE	4/4/2019		Y	N	U		U	0.2	0.2	

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-02 0319_20190328	19C1266-02	BROMODICHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,1-DICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,1-DICHLOROETHENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	TERT-BUTYL ALCOHOL	4/4/2019		Y	N	U		U	0.5	0.5	
KC-MW-02 0319_20190328	19C1266-02	TRICHLOROFLUOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	DICHLORODIFLUOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	CIS-1,3-DICHLOROPROPENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	2-HEXANONE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,2-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	CIS-1,2-DICHLOROETHYLENE	4/4/2019	0.96	Y	Y				0.2	0.2	ug/l
KC-MW-02 0319_20190328	19C1266-02	O-XYLENE (1,2-DIMETHYLBENZENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	N-BUTYLBENZENE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,2,3-TRICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,1,2,2-TETRACHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	METHYL ACETATE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,1,2-TRICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	METHYL ETHYL KETONE (2-BUTANONE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,1,1-Trichloroethane (TCA)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	BENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	CHLOROFORM	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	CHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,1,1,2-TETRACHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	TRANS-1,4-DICHLORO-2-BUTENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	CARBON TETRACHLORIDE	4/4/2019		Y	N	U		U	0.2	0.2	

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-02 0319_20190328	19C1266-02	1,3-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	TERT-BUTYL METHYL ETHER	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	TRANS-1,2-DICHLOROETHENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	M-P-XYLENE	4/4/2019		Y	N	U		U	0.5	0.5	
KC-MW-02 0319_20190328	19C1266-02	SEC-BUTYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	TETRACHLOROETHYLENE(PCE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	DIBROMOCHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,2,4-TRICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,4-DIOXANE (P-DIOXANE)	4/4/2019		Y	N	U	UJ	UJ	40	40	
KC-MW-02 0319_20190328	19C1266-02	CYCLOHEXANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,4-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	ACETONE	4/4/2019		Y	N	U		U	1	1	
KC-MW-02 0319_20190328	19C1266-02	1,2,4-TRIMETHYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,2-DIBROMO-3-CHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,2,3-TRICHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	T-BUTYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	ISOPROPYLBENZENE (CUMENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	P-CYMENE (P-ISOPROPYLTOLUENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	XYLENES, TOTAL	4/4/2019		Y	N	U		U	0.6	0.6	
KC-MW-02 0319_20190328	19C1266-02	BROMOFORM	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	BROMOMETHANE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	1,2-DICHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	HEXACHLOROBUTADIENE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-02 0319_20190328	19C1266-02	ACROLEIN	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-05 0319_20190328	19C1266-03	CHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	BENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,1,1-Trichloroethane (TCA)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	CHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	BROMOCHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	DIBROMOMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,4-DIOXANE (P-DIOXANE)	4/4/2019		Y	N	U	UJ	UJ	40	40	
KC-MW-05 0319_20190328	19C1266-03	CHLOROFORM	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	ACETONE	4/4/2019		Y	N	U		U	1	1	
KC-MW-05 0319_20190328	19C1266-03	VINYL CHLORIDE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	BROMOMETHANE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	CYCLOHEXANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	CHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	TOLUENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	METHYLCYCLOHEXANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	DIBROMOCHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	M-P-XYLENE	4/4/2019		Y	N	U		U	0.5	0.5	
KC-MW-05 0319_20190328	19C1266-03	TRANS-1,2-DICHLOROETHENE	4/4/2019	0.27	Y	Y	J		J	0.2	0.2	ug/l
KC-MW-05 0319_20190328	19C1266-03	1,1-DICHLOROETHANE	4/4/2019	0.33	Y	Y	J		J	0.2	0.2	ug/l
KC-MW-05 0319_20190328	19C1266-03	1,1-DICHLOROETHENE	4/4/2019	0.32	Y	Y	J		J	0.2	0.2	ug/l
KC-MW-05 0319_20190328	19C1266-03	HEXACHLOROBUTADIENE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	BROMOFORM	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,1,1,2-TETRACHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-05 0319_20190328	19C1266-03	2-HEXANONE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	CARBON TETRACHLORIDE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	N-BUTYLBENZENE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	TERT-BUTYL METHYL ETHER	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	METHYLENE CHLORIDE	4/4/2019		Y	N	U		U	1	1	
KC-MW-05 0319_20190328	19C1266-03	SEC-BUTYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	TETRACHLOROETHYLENE(PCE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	DICHLORODIFLUOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	TRICHLOROFLUOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	TERT-BUTYL ALCOHOL	4/4/2019		Y	N	U		U	0.5	0.5	
KC-MW-05 0319_20190328	19C1266-03	TRANS-1,4-DICHLORO-2-BUTENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	BROMODICHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	CARBON DISULFIDE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,3-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	METHYL ACETATE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	METHYL ETHYL KETONE (2-BUTANONE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,2,4-TRICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,1,2-TRICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	XYLENES, TOTAL	4/4/2019		Y	N	U		U	0.6	0.6	
KC-MW-05 0319_20190328	19C1266-03	1,1,2,2-TETRACHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,2,3-TRICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	ACROLEIN	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	O-XYLENE (1,2-DIMETHYLBENZENE)	4/4/2019		Y	N	U		U	0.2	0.2	

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-05 0319_20190328	19C1266-03	ETHYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	STYRENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	CIS-1,3-DICHLOROPROPENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	TRANS-1,3-DICHLOROPROPENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,2-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	N-PROPYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,2,3-TRICHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,2-DICHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,4-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	T-BUTYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,2-DIBROMO-3-CHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,2,4-TRIMETHYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	ACRYLONITRILE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	P-CYMENE (P-ISOPROPYLTOLUENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,2-DICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-05 0319_20190328	19C1266-03	CIS-1,2-DICHLOROETHYLENE	4/4/2019	16	Y	Y				0.2	0.2	ug/l
KC-MW-05 0319_20190328	19C1266-03	TRICHLOROETHYLENE (TCE)	4/4/2019	31	Y	Y		J	J	0.2	0.2	ug/l
KC-MW-05 0319_20190328	19C1266-03	ISOPROPYLBENZENE (CUMENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	XYLENES, TOTAL	4/4/2019		Y	N	U		U	0.6	0.6	
KC-MW-07 0319_20190328	19C1266-04	TOLUENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	CHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	

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KC-MW-07 0319_20190328	19C1266-04	TRANS-1,4-DICHLORO-2-BUTENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	CYCLOHEXANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,2,4-TRICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	O-XYLENE (1,2-DIMETHYLBENZENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	TETRACHLOROETHYLENE(PCE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,2,3-TRICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,1-DICHLOROETHANE	4/4/2019	0.29	Y	Y	J		J	0.2	0.2	ug/l
KC-MW-07 0319_20190328	19C1266-04	METHYLCYCLOHEXANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,2,4-TRIMETHYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,1,1-Trichloroethane (TCA)	4/4/2019	0.28	Y	Y	J		J	0.2	0.2	ug/l
KC-MW-07 0319_20190328	19C1266-04	1,2-DICHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	BROMOMETHANE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	DIBROMOCHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	T-BUTYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	METHYL ETHYL KETONE (2-BUTANONE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	METHYL ACETATE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	BROMOFORM	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	METHYLENE CHLORIDE	4/4/2019		Y	N	U		U	1	1	
KC-MW-07 0319_20190328	19C1266-04	1,1,2,2-TETRACHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,1,2-TRICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	ISOPROPYLBENZENE (CUMENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	4/4/2019		Y	N	U		U	0.2	0.2	

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-07 0319_20190328	19C1266-04	1,2,3-TRICHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,2-DIBROMO-3-CHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,4-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,2-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,2-DICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	ACRYLONITRILE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	P-CYMENE (P-ISOPROPYLTOLUENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	VINYL CHLORIDE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	BENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	HEXACHLOROBUTADIENE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	CHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	DIBROMOMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,4-DIOXANE (P-DIOXANE)	4/4/2019		Y	N	U	UJ	UJ	40	40	
KC-MW-07 0319_20190328	19C1266-04	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	CHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,1,1,2-TETRACHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	CARBON DISULFIDE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	BROMODICHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,1-DICHLOROETHENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	TERT-BUTYL ALCOHOL	4/4/2019		Y	N	U		U	0.5	0.5	
KC-MW-07 0319_20190328	19C1266-04	TRICHLOROFLUOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	DICHLORODIFLUOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	

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KC-MW-07 0319_20190328	19C1266-04	BROMOCHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	SEC-BUTYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	TRICHLOROETHYLENE (TCE)	4/4/2019	17	Y	Y		J	J	0.2	0.2	ug/l
KC-MW-07 0319_20190328	19C1266-04	TRANS-1,2-DICHLOROETHENE	4/4/2019	0.50	Y	Y				0.2	0.2	ug/l
KC-MW-07 0319_20190328	19C1266-04	CIS-1,2-DICHLOROETHYLENE	4/4/2019	8.2	Y	Y				0.2	0.2	ug/l
KC-MW-07 0319_20190328	19C1266-04	ETHYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	STYRENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	CIS-1,3-DICHLOROPROPENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	ACROLEIN	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	N-PROPYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	ACETONE	4/4/2019		Y	N	U		U	1	1	
KC-MW-07 0319_20190328	19C1266-04	M-P-XYLENE	4/4/2019		Y	N	U		U	0.5	0.5	
KC-MW-07 0319_20190328	19C1266-04	TERT-BUTYL METHYL ETHER	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	1,3-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	CARBON TETRACHLORIDE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	2-HEXANONE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	N-BUTYLBENZENE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	TRANS-1,3-DICHLOROPROPENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-07 0319_20190328	19C1266-04	CHLOROFORM	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	CARBON DISULFIDE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	P-CYMENE (P-ISOPROPYLTOLUENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	METHYLENE CHLORIDE	4/4/2019		Y	N	U		U	1	1	
KC-MW-DUP 0319_20190328	19C1266-05	1,1-DICHLOROETHENE	4/4/2019	4.1	Y	Y				0.2	0.2	ug/l
KC-MW-DUP 0319_20190328	19C1266-05	1,1-DICHLOROETHANE	4/4/2019	1.6	Y	Y				0.2	0.2	ug/l

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-DUP 0319_20190328	19C1266-05	VINYL CHLORIDE	4/4/2019	140	Y	Y				0.2	0.2	ug/l
KC-MW-DUP 0319_20190328	19C1266-05	1,1,1-Trichloroethane (TCA)	4/4/2019	2.7	Y	Y				0.2	0.2	ug/l
KC-MW-DUP 0319_20190328	19C1266-05	BROMOCHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	CHLOROFORM	4/4/2019	0.27	Y	Y	J		J	0.2	0.2	ug/l
KC-MW-DUP 0319_20190328	19C1266-05	DIBROMOMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	BROMOMETHANE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	BROMODICHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,4-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	TERT-BUTYL ALCOHOL	4/4/2019		Y	N	U		U	0.5	0.5	
KC-MW-DUP 0319_20190328	19C1266-05	TRANS-1,2-DICHLOROETHENE	4/4/2019	36	Y	Y				0.2	0.2	ug/l
KC-MW-DUP 0319_20190328	19C1266-05	1,3-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	M-P-XYLENE	4/4/2019		Y	N	U		U	0.5	0.5	
KC-MW-DUP 0319_20190328	19C1266-05	SEC-BUTYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	DIBROMOCHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	N-BUTYLBENZENE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,2,4-TRICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	CYCLOHEXANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	CHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	CHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	TERT-BUTYL METHYL ETHER	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	CARBON TETRACHLORIDE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	2-HEXANONE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,1,1,2-TETRACHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-DUP 0319_20190328	19C1266-05	BENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	ACROLEIN	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	CHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	TRANS-1,4-DICHLORO-2-BUTENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,2-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,2-DICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,1,2-TRICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	METHYL ACETATE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,1,2,2-TETRACHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,2,3-TRICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	BROMOFORM	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,2-DICHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,4-DIOXANE (P-DIOXANE)	4/4/2019		Y	N	U	UJ	UJ	40	40	
KC-MW-DUP 0319_20190328	19C1266-05	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	HEXACHLOROBUTADIENE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,2,4-TRIMETHYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,2-DIBROMO-3-CHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,2,3-TRICHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	T-BUTYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	ISOPROPYLBENZENE (CUMENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	XYLENES, TOTAL	4/4/2019		Y	N	U		U	0.6	0.6	
KC-MW-DUP 0319_20190328	19C1266-05	O-XYLENE (1,2-DIMETHYLBENZENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	METHYLCYCLOHEXANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	TRANS-1,3-DICHLOROPROPENE	4/4/2019		Y	N	U		U	0.2	0.2	

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KC-MW-DUP 0319_20190328	19C1266-05	CIS-1,3-DICHLOROPROPENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	STYRENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	ETHYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	ACRYLONITRILE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	METHYL ETHYL KETONE (2-BUTANONE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	N-PROPYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	TOLUENE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	TRICHLOROFLUOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	TETRACHLOROETHYLENE(PCE)	4/4/2019	0.28	Y	Y	J		J	0.2	0.2	ug/l
KC-MW-DUP 0319_20190328	19C1266-05	ACETONE	4/4/2019	1.9	Y	Y	J		J	1	1	ug/l
KC-MW-DUP 0319_20190328	19C1266-05	DICHLORODIFLUOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	4/4/2019		Y	N	U		U	0.2	0.2	
KC-MW-DUP 0319_20190328	19C1266-05R	CIS-1,2-DICHLOROETHYLENE	4/5/2019	920	Y	Y	D			4	4	ug/l
KC-MW-DUP 0319_20190328	19C1266-05R	TRICHLOROETHYLENE (TCE)	4/5/2019	1300	Y	Y	D	J	J	4	4	ug/l
TRIP BLANK 0319_20190328	19C1266-06	CHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	BROMODICHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	DICHLORODIFLUOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	TRICHLOROFLUOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	TERT-BUTYL ALCOHOL	4/4/2019		Y	N	U		U	0.5	0.5	
TRIP BLANK 0319_20190328	19C1266-06	1,1-DICHLOROETHENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	TRICHLOROETHYLENE (TCE)	4/4/2019	1.9	Y	Y		J	J	0.2	0.2	ug/l
TRIP BLANK 0319_20190328	19C1266-06	1,1,1-Trichloroethane (TCA)	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,1-DICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
TRIP BLANK 0319_20190328	19C1266-06	METHYL ETHYL KETONE (2-BUTANONE)	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	BROMOFORM	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	CARBON DISULFIDE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	METHYLENE CHLORIDE	4/4/2019		Y	N	U		U	1	1	
TRIP BLANK 0319_20190328	19C1266-06	VINYL CHLORIDE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	CHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	BROMOCHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	CIS-1,2-DICHLOROETHYLENE	4/4/2019	0.81	Y	Y				0.2	0.2	ug/l
TRIP BLANK 0319_20190328	19C1266-06	O-XYLENE (1,2-DIMETHYLBENZENE)	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	XYLENES, TOTAL	4/4/2019		Y	N	U		U	0.6	0.6	
TRIP BLANK 0319_20190328	19C1266-06	P-CYMENE (P-ISOPROPYLTOLUENE)	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	ISOPROPYLBENZENE (CUMENE)	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	T-BUTYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,2,3-TRICHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,2-DIBROMO-3-CHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,2-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,2-DICHLOROPROPANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	HEXACHLOROBUTADIENE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,2,3-TRICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,1,2,2-TETRACHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	METHYL ACETATE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,1,2-TRICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
TRIP BLANK 0319_20190328	19C1266-06	BENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,2,4-TRIMETHYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	DIBROMOMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	TOLUENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	METHYLCYCLOHEXANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	ACRYLONITRILE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	TRANS-1,4-DICHLORO-2-BUTENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	N-BUTYLBENZENE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	CYCLOHEXANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,4-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	N-PROPYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	TRANS-1,3-DICHLOROPROPENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	CIS-1,3-DICHLOROPROPENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	STYRENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	ETHYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,2-DICHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	TRANS-1,2-DICHLOROETHENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,4-DIOXANE (P-DIOXANE)	4/4/2019		Y	N	U	UJ	UJ	40	40	
TRIP BLANK 0319_20190328	19C1266-06	CHLOROFORM	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	ACETONE	4/4/2019		Y	N	U		U	1	1	
TRIP BLANK 0319_20190328	19C1266-06	1,1,1,2-TETRACHLOROETHANE	4/4/2019		Y	N	U		U	0.2	0.2	

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Analytical Method SW8260B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
TRIP BLANK 0319_20190328	19C1266-06	2-HEXANONE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	CARBON TETRACHLORIDE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	CHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	TERT-BUTYL METHYL ETHER	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	BROMOMETHANE	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	M-P-XYLENE	4/4/2019		Y	N	U		U	0.5	0.5	
TRIP BLANK 0319_20190328	19C1266-06	SEC-BUTYLBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	TETRACHLOROETHYLENE(PCE)	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	DIBROMOCHLOROMETHANE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	ACROLEIN	4/4/2019		Y	N	U	UJ	UJ	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,2,4-TRICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	
TRIP BLANK 0319_20190328	19C1266-06	1,3-DICHLOROBENZENE	4/4/2019		Y	N	U		U	0.2	0.2	

LDC #: 44768

EDD POPULATION COMPLETENESS WORKSHEET

Date: 5/6/19
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2nd Reviewer: FM

The LDC job number listed above was entered by CG.
Entered from Body or Summary

	EDD Process		Comments/Action
I.	EDD Completeness	-	
Ia.	- All methods present?	y	
Ib.	- All samples present/match report?	y	
Ic.	- All reported analytes present?	y	
Id.	-10% or 100% verification of EDD?	y	
II.	EDD Preparation/Entry	-	
IIa.	- Carryover U/J?	y	
IIb.	- Reason Codes used? If so, note which codes.	y	
IIc.	- Additional Information (QC Level, Validator, Validated Y/N, etc.)	y	
III.	Reasonableness Checks	-	
IIIa.	- Do all qualified ND results have ND qualifier (e.g. UJ)?	y	
IIIb.	- Do all qualified detect results have detect qualifier (e.g. J)?	y	
IIIc.	- If reason codes are used, do all qualified results have reason code field populated, and vice versa?	—	
IIId.	-Does the detect flag require changing for blank qualifier? If so, are all U results marked ND?	y/NA	
IIIe.	- Do blank concentrations in report match EDD where data was qualified due to blank contamination?	NA	
IIIf.	- Were multiple results reported due to dilutions/reanalysis? If so, were results qualified appropriately?	N/A	
IIIg.	-Are there any discrepancies between the data packet and the EDD?	N	

Notes: *see discrepancy sheet